

Appendix F

Laboratory Results

Sample_No	ALPHA	(dpm/Filter)	Lab Qual	MDL	BETA	(dpm/Filter)	Lab Qual	MDL
	Result	Uncertainty			Result	Uncertainty		
54-2093 Chase	0.2	1.1	U	2.0	1.5	3.1	U	5.4
54-2094-Pipe	0.4	1.1	U	2.0	0.1	3.0	U	5.3
54-3046-Pipe	12.4	2.4		2.1	23.1	4.1		5.2
Bldg2-Roof1	0.5	1.1	U	2.0	-0.1	3.0	U	5.3
Bldg2-Roof2	-0.2	1.1	U	2.0	2.7	3.2	U	5.4
Bldg2-Roof3	0.6	1.3	U	2.3	3.8	3.3	U	5.4
Bldg2-Roof4	0.0	1.2	U	2.2	3.8	3.3	U	5.4
Bunker1-R11	-0.3	1.8	UJ	3.0	-0.5	3.8	UJ	6.8
Bunker1-R7	0.1	1.2	U	2.2	3.9	3.2	U	5.3
Bunker2-R4	-0.3	1.2	U	2.2	1.6	3.1	U	5.2
Bunker2-R8	-0.4	1.1	U	2.2	0.0	3.0	U	5.2
RM 3046	4.5	1.7		2.0	9.1	3.5		5.4
SU1-1-R1	-0.9	1.0	U	2.1	1.1	3.2	U	5.4
SU1-1-R9	-0.4	1.0	U	2.1	0.9	3.2	U	5.4
SU1-B-1-B1	-0.6	1.0	U	2.2	-2.0	2.9	U	5.3
SU1-B-1-B2	-0.6	1.1	U	2.2	-0.4	3.0	U	5.2
SU1-B-1-B3	0.0	1.1	U	2.2	-1.2	3.0	U	5.4
SU2-1-1-B1	-0.4	1.0	U	2.0	1.2	3.1	U	5.4
SU2-1-1-B2	-0.1	1.0	U	2.0	-0.2	3.0	U	5.4
SU2-1-1-B3	0.2	1.1	U	2.0	0.6	3.1	U	5.4
SU2-1-1-R1	0.5	1.1	U	2.0	-1.1	3.1	U	5.6
SU2-1-1-R11	0.8	1.2	U	2.2	-4.7	3.2	U	6.0
SU2-1-2-R2	0.1	1.2	U	2.2	-3.5	3.3	U	6.0
SU2-1-2-R4	0.5	1.2	U	2.2	-2.4	3.2	U	5.9
SU2-1-3-R15	0.5	1.2	U	2.2	-2.2	3.3	U	6.0
SU2-1-3-R20	-0.1	1.1	U	2.2	-4.1	3.2	U	6.0
SU2-2-1-R3	1.4	1.2	U	2.0	-1.1	3.1	U	5.6
SU2-2-1-R5	0.0	1.1	U	2.0	0.8	3.2	U	5.6
SU2-2-2-R12	0.4	1.1	U	2.0	0.7	3.2	U	5.6
SU2-2-2-R6	-0.5	1.0	U	2.0	1.3	3.2	U	5.6
SU2-2-3-R8	-0.4	1.7	UJ	3.0	-2.2	3.7	UJ	6.7
SU2-2-3-R9	-0.1	1.1	U	2.2	-2.2	3.3	U	6.0
SU2-4-1-R10	0.4	1.1	U	2.0	-2.1	3.1	U	5.6
SU2-4-1-R13	-0.3	1.0	U	2.0	-0.2	3.2	U	5.6
SU2-4-2-R1	1.0	1.2	U	2.0	-0.1	3.2	U	5.6
SU2-4-2-R7	0.8	1.2	U	2.0	-0.5	3.2	U	5.6
SU2-5-1-R14	0.5	1.1	U	2.0	0.8	3.2	U	5.6
SU2-5-1-R4	0.8	1.2	U	2.0	-0.5	3.2	U	5.6
SU2-6-1-B1	0.3	1.1	U	2.0	-0.8	3.0	U	5.4
SU2-6-1-R13	-0.1	1.0	U	2.0	0.0	3.2	U	5.6
SU2-6-1-R6	-0.1	1.0	U	2.0	0.2	3.2	U	5.6

Sample_No	ALPHA (dpm/Filter)				BETA (dpm/Filter)			
	Result	Uncertainty	Lab Qual	MDL	Result	Uncertainty	Lab Qual	MDL
SU2-7-1-B1	0.6	1.0	U	1.7	-0.9	2.8	U	4.9
SU2-7-1-B10	1.4	1.1	U	1.7	-1.0	2.8	U	4.9
SU2-7-1-B2	0.3	0.9	U	1.7	1.7	2.9	U	5.0
SU2-7-1-B3	-5.9	1.6	U	1.7	174.7	8.2		5.6
SU2-7-1-B4	0.6	1.0	U	1.7	0.3	2.8	U	4.9
SU2-7-1-B5	0.3	1.1	U	1.7	15.0	3.9		5.6
SU2-7-1-B6	0.5	1.0	U	1.8	-0.7	2.9	U	5.1
SU2-7-1-B7	0.3	1.7	UJ	2.9	-2.0	3.6	UJ	6.5
SU2-7-1-B8	-0.1	0.9	U	1.7	1.7	2.9	U	5.0
SU2-7-1-B9	0.4	1.0	U	1.7	-1.2	2.8	U	5.0
SU2-7-1-S18	0.7	1.1	U	1.8	1.1	3.0	U	5.1
SU2-7-1-S6	0.3	0.9	U	1.6	-0.3	2.8	U	4.9
SU2-7-2-B1	0.4	0.9	U	1.7	-1.1	3.2	U	5.6
SU2-7-2-B10	0.2	0.9	U	1.7	-0.4	3.2	U	5.6
SU2-7-2-B11	0.1	0.9	U	1.7	2.3	3.3	U	5.6
SU2-7-2-B12	0.1	0.9	U	1.7	0.5	3.2	U	5.6
SU2-7-2-B13	0.4	0.9	U	1.7	-0.5	3.2	U	5.6
SU2-7-2-B14	-0.2	0.8	U	1.7	-1.2	2.7	U	4.9
SU2-7-2-B15	0.1	0.9	U	1.6	0.9	2.8	U	4.9
SU2-7-2-B16	0.3	0.9	U	1.6	0.5	2.8	U	4.9
SU2-7-2-B17	0.8	1.1	U	1.8	-1.0	2.8	U	5.1
SU2-7-2-B19	0.6	1.1	U	1.9	0.4	3.0	U	5.2
SU2-7-2-B2	0.4	0.9	U	1.7	-1.1	3.2	U	5.6
SU2-7-2-B3	0.2	0.9	U	1.7	-0.7	3.2	U	5.6
SU2-7-2-B4	0.2	0.9	U	1.7	0.1	3.2	U	5.6
SU2-7-2-B5	0.3	0.9	U	1.7	1.7	3.3	U	5.6
SU2-7-2-B6	-0.6	0.7	U	1.7	-0.4	3.1	U	5.5
SU2-7-2-B7	0.9	1.0	U	1.7	0.7	3.2	U	5.6
SU-2-7-2-B8	-0.4	0.9	U	1.8	1.8	3.2	U	5.5
SU2-7-2-B9	-0.1	0.8	U	1.7	-0.5	3.2	U	5.6
SU2-7-2-R12	0.9	1.0	U	1.7	-1.4	2.7	U	4.9
SU2-7-2-R4	0.1	0.9	U	1.7	-0.9	2.8	U	5.0
SU2-7-3-B1	0.1	0.9	U	1.7	0.2	3.2	U	5.6
SU2-7-3-R1	1.1	1.0	U	1.6	-3.0	2.6	U	4.9
SU2-7-3-R6	-0.1	1.1	U	2.0	1.0	3.2	U	5.6
SU2-7-4-B1	0.6	1.0	U	1.7	-0.3	3.2	U	5.6
SU2-7-4-B2	0.5	0.9	U	1.7	-1.3	3.2	U	5.6
SU2-7-4-B3	0.1	0.9	U	1.7	0.7	3.2	U	5.6
SU2-7-4-B4	0.2	0.9	U	1.7	-0.6	3.2	U	5.6
SU2-7-4-S1	-0.7	0.9	U	2.0	-0.4	3.2	U	5.6
SU2-7-4-S10	-0.2	1.0	U	2.0	-0.2	3.2	U	5.6
SU2-7-4-S14	-0.2	1.0	U	2.0	0.4	3.2	U	5.6
SU2-7-4-S19	0.3	1.1	U	2.0	1.3	3.2	U	5.6

Sample_No	ALPHA (dpm/Filter)				BETA (dpm/Filter)			
	Result	Uncertainty	Lab Qual	MDL	Result	Uncertainty	Lab Qual	MDL
SU38-B1	0.1	0.8	U	1.6	0.9	3.2	U	5.5
SU38-B2	-0.5	1.1	U	2.2	-0.6	3.0	U	5.4
SU38-B3	0.4	1.7	UJ	2.9	-3.1	3.5	UJ	6.4
SU41-1-B1	-0.6	1.1	U	2.2	1.4	3.1	U	5.4
SU41-1-B2	-1.1	1.1	U	2.3	3.2	3.2	U	5.3
SU41-1-B3	0.5	1.3	U	2.2	5.5	3.2		5.2
SU41-1-R5	-0.3	1.1	U	2.2	0.2	3.0	U	5.3
SU41-1-R9	-0.4	1.1	U	2.2	2.1	3.2	U	5.4
SU41-2-R10	-0.6	1.1	U	2.2	3.4	3.2	U	5.2
SU41-2-R7	-0.1	1.2	U	2.2	3.4	3.2	U	5.2
SU41-3-B1	-4.9	5.2	UJ	7.9	-10.2	5.9	UJ	14.4
SU41-3-B2	-1.3	5.8	UJ	7.6	-12.7	6.7	UJ	15.7
SU41-3-R1	-0.3	1.1	U	2.2	2.1	3.1	U	5.3
SU41-3-R12	-0.1	1.2	U	2.2	1.9	3.2	U	5.4
SU54-1-1-B1	-0.3	0.9	U	1.8	2.1	3.1	U	5.2
SU54-1-1-R5	0.5	1.1	U	2.0	-0.9	3.0	U	5.4
SU54-1-1-R8	0.3	1.1	U	2.0	-0.4	3.1	U	5.5
SU54-1-2-B-1	0.7	1.0	U	1.8	0.5	3.1	U	5.4
SU54-1-2-B-2	0.3	1.0	U	1.8	1.0	3.2	U	5.4
SU54-1-2-R6	0.6	1.2	U	2.0	-0.3	3.0	U	5.4
SU54-1-2-R8	0.4	1.1	U	2.0	1.0	3.2	U	5.5
SU54-1-3-B1	0.7	1.0	U	1.8	0.5	3.1	U	5.4
SU54-1-3-B11	0.0	0.9	U	1.8	0.5	3.1	U	5.4
SU54-1-3-B12	0.6	1.0	U	1.8	1.4	3.2	U	5.4
SU54-1-3-B13	-0.1	0.9	U	1.8	-0.5	3.1	U	5.4
SU54-1-3-B14	0.1	1.0	U	1.8	2.0	3.1	U	5.3
SU54-1-3-B15	-0.4	0.9	U	1.9	2.3	3.2	U	5.5
SU54-1-3-B17	-0.2	0.9	U	1.8	1.4	3.2	U	5.4
SU54-1-3-B19	-0.4	0.9	U	1.8	1.1	3.2	U	5.4
SU54-1-3-B20	0.3	1.0	U	1.8	0.7	3.1	U	5.4
SU54-1-3-B22	-0.5	0.9	U	1.9	2.5	3.2	U	5.5
SU54-1-3-B23	-1.1	1.3	UJ	2.7	-1.1	3.1	UJ	5.6
SU54-1-3-B24	-0.3	1.0	U	2.1	0.0	3.1	U	5.5
SU54-1-3-B25	0.3	1.0	U	1.8	-1.4	3.0	U	5.3
SU54-1-3-B27	-0.3	0.9	U	1.8	1.6	3.2	U	5.4
SU54-1-3-B3	-0.2	0.9	U	1.8	2.6	3.2	U	5.4
SU54-1-3-B4	-0.4	0.9	U	1.8	4.1	3.3	U	5.4
SU54-1-3-B5	-0.6	0.9	U	1.8	4.3	3.2	U	5.3
SU54-1-3-B6	0.2	0.9	U	1.8	-1.7	3.0	U	5.4
SU54-1-3-B8	-0.1	0.9	U	1.8	0.2	3.1	U	5.4
SU54-1-3-B9	0.0	0.9	U	1.8	0.5	3.1	U	5.4

Sample_No	ALPHA (dpm/Filter)				BETA (dpm/Filter)			
	Result	Uncertainty	Lab Qual	MDL	Result	Uncertainty	Lab Qual	MDL
SU54-1-3-R5	0.3	1.1	U	2.0	-1.7	3.0	U	5.4
SU54-1-3-R9	0.1	1.1	U	2.0	0.5	3.1	U	5.4
SU54-2-1-B1	0.0	1.0	U	1.9	-1.2	3.0	U	5.4
SU54-2-1-R1	0.0	1.1	U	2.0	0.5	3.1	U	5.4
SU54-2-1-R9	-0.4	1.0	U	2.1	-2.0	3.0	U	5.4
SU54-2-2-B1	-0.8	1.1	U	1.9	18.2	3.9		5.5
SU54-2-2-B11	-0.3	0.9	U	1.9	-0.1	3.1	U	5.4
SU54-2-2-B2	-0.1	1.0	U	1.9	0.8	3.1	U	5.4
SU54-2-2-B4	0.1	1.0	U	1.9	0.8	3.2	U	5.5
SU54-2-2-B6	-0.3	1.0	U	1.9	1.8	3.2	U	5.4
SU54-2-2-B7	-0.3	1.0	U	2.0	-0.2	3.1	U	5.5
SU54-2-2-B8	0.7	1.1	U	2.0	-1.1	3.0	U	5.4
SU54-2-2-B9	0.6	1.1	U	1.9	-0.3	3.1	U	5.4
SU54-2-2-R1	-0.2	1.0	U	2.0	-0.6	3.1	U	5.5
SU54-2-2-R5	0.3	1.1	U	2.0	-1.5	3.0	U	5.5
SU54-2-3-B1	0.1	1.0	U	1.9	1.4	3.2	U	5.5
SU54-2-3-B10	0.1	1.1	U	2.0	-1.2	3.2	U	5.8
SU54-2-3-B11	-0.2	1.0	U	2.0	-1.3	3.2	U	5.8
SU54-2-3-B12	-0.2	1.0	U	2.0	-0.4	3.2	U	5.7
SU54-2-3-B3	0.5	1.1	U	1.9	-0.6	3.1	U	5.5
SU54-2-3-B4	-0.1	1.0	U	2.0	-1.4	3.2	U	5.8
SU54-2-3-B5	0.3	1.1	U	1.9	1.6	3.2	U	5.5
SU54-2-3-B7	0.0	1.0	U	1.9	2.7	3.3	U	5.5
SU54-2-3-B8	0.1	1.1	U	2.0	-1.6	3.2	U	5.7
SU54-2-3-R11	0.9	1.2	U	2.0	0.9	3.2	U	5.5
SU54-2-3-R7	0.4	1.1	U	2.0	-0.4	3.1	U	5.5
SU54-3-1-B1	0.0	1.0	U	2.0	-2.3	3.2	U	5.8
SU54-3-1-B10	-0.6	1.6	UJ	3.0	0.2	3.4	UJ	6.0
SU54-3-1-B11	-0.2	1.1	U	2.2	-0.7	3.3	U	5.8
SU54-3-1-B12	0.2	1.1	U	2.0	0.5	3.3	U	5.8
SU54-3-1-B14	0.5	1.1	U	2.0	0.3	3.2	U	5.7
SU54-3-1-B15	0.2	1.3	U	2.3	1.1	3.4	U	5.9
SU54-3-1-B16	-0.2	1.0	U	2.0	-0.1	3.3	U	5.7
SU54-3-1-B17	0.7	1.2	U	2.1	1.9	3.3	U	5.6
SU54-3-1-B3	-0.1	1.0	U	2.0	-1.0	3.2	U	5.8
SU54-3-1-B5	-0.5	1.0	U	2.0	-1.5	3.2	U	5.8
SU54-3-1-B7	0.3	1.1	U	2.0	-0.9	3.3	U	5.8
SU54-3-1-B8	0.2	1.2	U	2.2	2.2	3.4	U	5.8
SU54-3-1-B9	-0.9	4.9	UJ	6.0	2.5	6.6	UJ	11.3

Sample_No	ALPHA (dpm/Filter)				BETA (dpm/Filter)			
	Result	Uncertainty	Lab Qual	MDL	Result	Uncertainty	Lab Qual	MDL
SU54-3-1-R1	0.5	1.1	U	2.0	-0.6	3.1	U	5.5
SU54-3-1-R3	0.2	1.1	U	2.0	0.0	3.1	U	5.5
SU54-3-2-B1	0.5	0.9	U	1.6	-1.2	3.1	U	5.5
SU54-3-2-B3	-0.5	1.2	U	2.4	1.0	3.1	U	5.4
SU54-3-2-B4	0.5	0.9	U	1.6	-0.3	3.2	U	5.6
SU54-3-2-B5	-0.4	2.1	UJ	3.3	7.9	4.2	J	6.5
SU54-3-2-R11	0.3	1.1	U	2.0	1.3	3.2	U	5.5
SU54-3-2-R7	0.4	1.1	U	2.0	0.0	3.1	U	5.4
SU54-3-3-B1	0.9	1.0	U	1.6	1.6	3.2	U	5.6
SU54-3-3-B2	1.0	1.0	U	1.6	1.4	3.2	U	5.6
SU54-3-3-B3	0.6	0.9	U	1.6	1.3	3.3	U	5.6
SU54-3-3-R10	0.2	1.1	U	2.0	0.2	3.1	U	5.5
SU54-3-3-R13	0.2	1.1	U	2.0	0.0	3.1	U	5.5
SU54-3-4-B1	0.4	0.9	U	1.6	1.9	3.2	U	5.5
SU54-3-4-B10	0.6	0.9	U	1.6	0.2	3.2	U	5.6
SU54-3-4-B12	0.3	0.9	U	1.6	0.5	3.2	U	5.6
SU54-3-4-B13	0.1	0.9	U	1.6	2.0	3.2	U	5.5
SU54-3-4-B14	0.5	0.9	U	1.6	0.4	3.2	U	5.6
SU54-3-4-B15	0.2	0.8	U	1.6	-0.8	3.2	U	5.6
SU54-3-4-B17	0.7	1.0	U	1.8	-2.0	3.2	U	5.7
SU54-3-4-B18	0.2	0.9	U	1.8	-1.4	3.2	U	5.7
SU54-3-4-B19	0.4	1.0	U	1.8	-2.3	3.1	U	5.7
SU54-3-4-B20	0.1	0.9	U	1.8	-3.3	3.0	U	5.6
SU54-3-4-B21	-0.7	0.9	U	2.0	-2.3	3.2	U	5.9
SU54-3-4-B23	0.5	1.0	U	1.8	-3.2	3.1	U	5.7
SU54-3-4-B24	-0.6	1.0	U	2.1	-0.1	3.0	U	5.3
SU54-3-4-B25	-0.5	0.9	U	1.8	0.6	3.3	U	5.7
SU54-3-4-B26	-1.6	1.6	UJ	3.1	0.3	3.5	UJ	6.2
SU54-3-4-B27	-0.8	2.0	UJ	3.4	1.5	3.9	UJ	6.7
SU54-3-4-B28	-0.7	1.0	U	2.1	0.4	3.1	U	5.4
SU54-3-4-B3	0.1	0.9	U	1.7	-0.2	3.2	U	5.6
SU54-3-4-B30	-1.0	1.0	U	2.2	0.6	3.0	U	5.3
SU54-3-4-B32	-0.7	1.0	U	2.1	0.7	3.1	U	5.4
SU54-3-4-B33	-0.9	1.0	U	2.1	0.4	3.1	U	5.4
SU54-3-4-B34	-0.9	1.0	U	2.1	0.6	3.1	U	5.4
SU54-3-4-B35	-0.4	1.1	U	2.1	0.4	3.0	U	5.3
SU54-3-4-B36	-1.1	1.0	U	2.2	2.9	3.1	U	5.3
SU54-3-4-B5	1.1	1.0	U	1.6	1.2	3.3	U	5.6
SU54-3-4-B6	0.8	0.9	U	1.6	-1.5	3.1	U	5.6
SU54-3-4-B8	1.0	1.0	U	1.6	-0.3	3.2	U	5.6
SU54-3-4-B9	0.5	0.9	U	1.6	0.1	3.1	U	5.5

Sample_No	ALPHA (dpm/Filter)				BETA (dpm/Filter)			
	Result	Uncertainty	Lab Qual	MDL	Result	Uncertainty	Lab Qual	MDL
SU54-3-4-R10	-0.3	1.1	U	2.1	2.3	3.2	U	5.4
SU54-3-4-R7	-0.3	1.0	U	2.0	0.0	3.1	U	5.5
SU54-3-5-B1	-1.1	0.9	U	2.1	-0.6	3.0	U	5.4
SU54-3-5-B3	0.0	0.9	U	1.8	-1.7	3.1	U	5.6
SU54-3-5-B4	-1.0	2.1	UJ	3.6	-0.3	3.9	UJ	6.9
SU54-3-5-B5	0.6	1.2	U	2.1	-0.7	3.0	U	5.4
SU54-3-5-B6	-0.6	0.9	U	1.9	-1.7	3.2	U	5.7
SU54-3-5-R4	-0.6	1.0	U	2.1	-0.2	3.0	U	5.3
SU54-3-5-R9	-0.6	1.0	U	2.1	2.4	3.2	U	5.3
SU54-3-6-B1	-0.6	1.0	U	2.1	-0.7	3.0	U	5.3
SU54-3-6-B10	-0.4	1.1	U	2.2	-1.1	3.0	U	5.3
SU54-3-6-B3	0.0	0.9	U	1.8	-1.5	3.2	U	5.7
SU54-3-6-B4	-0.4	1.1	U	2.1	1.2	3.1	U	5.4
SU54-3-6-B5	-0.8	1.3	UJ	2.5	1.8	3.2	UJ	5.4
SU54-3-6-B6	-0.8	1.1	U	2.2	-0.2	3.0	U	5.3
SU54-3-6-B7	0.1	0.9	U	1.8	-2.7	3.2	U	5.7
SU54-3-6-B9	-1.1	1.5	UJ	2.9	-1.6	3.2	UJ	5.9
SU54-3-6-R1	-0.1	1.1	U	2.1	0.5	3.1	U	5.4
SU54-3-6-R3	-0.9	1.0	U	2.1	4.5	3.3	U	5.3
SU54-4-1-B1	-0.3	0.8	U	1.8	-2.5	3.2	U	5.7
SU54-4-1-B3	0.3	1.0	U	1.8	-1.9	3.2	U	5.7
SU54-4-1-B4	0.6	1.0	U	1.8	-2.7	3.2	U	5.7
SU54-4-1-R11	-0.2	1.1	U	2.1	1.1	3.1	U	5.4
SU54-4-1-R3	0.6	1.2	U	2.1	0.5	3.1	U	5.4
SU-54-4-2-B1	1.0	1.0	U	1.8	-0.5	3.1	U	5.5
SU54-4-2-B11	0.0	1.1	U	2.2	-2.8	3.1	U	5.6
SU-54-4-2-B12	-0.1	0.9	U	1.7	1.3	3.2	U	5.5
SU-54-4-2-B13	1.3	1.1	U	1.7	0.5	3.1	U	5.4
SU-54-4-2-B14	0.0	0.9	U	1.7	0.7	3.2	U	5.5
SU54-4-2-B15	-0.2	0.9	U	1.8	-0.1	3.2	U	5.7
SU54-4-2-B16	0.4	1.0	U	1.8	-2.8	3.2	U	5.7
SU54-4-2-B18	0.9	1.4	U	2.4	3.6	3.5	U	5.7
SU-54-4-2-B19	2.0	1.2		1.8	3.1	3.2	U	5.3
SU-54-4-2-B20	0.0	0.9	U	1.8	0.2	3.1	U	5.5
SU-54-4-2-B22	0.5	1.8	UJ	2.9	3.0	3.6	UJ	5.9
SU54-4-2-B23	-0.5	1.1	U	2.2	-1.5	3.2	U	5.7
SU-54-4-2-B25	0.2	1.0	U	1.7	1.9	3.2	U	5.5
SU-54-4-2-B26	0.6	1.0	U	1.7	1.3	3.2	U	5.5

Sample_No	ALPHA (dpm/Filter)				BETA (dpm/Filter)			
	Result	Uncertainty	Lab Qual	MDL	Result	Uncertainty	Lab Qual	MDL
SU-54-4-2-B27	0.4	0.9	U	1.8	-0.9	3.1	U	5.5
SU-54-4-2-B29	-0.1	0.9	U	1.7	1.9	3.2	U	5.5
SU-54-4-2-B3	0.4	0.9	U	1.7	-1.2	3.1	U	5.5
SU54-4-2-B30	0.8	4.0	UJ	4.8	12.5	6.2	J	9.1
SU-54-4-2-B31	0.3	0.9	U	1.7	0.0	3.1	U	5.5
SU54-4-2-B32	-0.9	1.0	U	2.2	-0.3	3.2	U	5.7
SU-54-4-2-B34	-0.2	0.9	U	1.7	1.4	3.2	U	5.5
SU54-4-2-B35	0.7	1.0	U	1.8	-0.6	3.2	U	5.7
SU-54-4-2-B36	0.6	1.0	U	1.7	1.3	3.2	U	5.4
SU54-4-2-B37	0.4	1.3	U	2.2	1.8	3.3	U	5.6
SU-54-4-2-B38	0.2	0.9	U	1.7	1.9	3.2	U	5.4
SU-54-4-2-B39	0.2	0.9	U	1.7	1.6	3.2	U	5.4
SU54-4-2-B4	-0.9	1.0	U	2.2	0.4	3.2	U	5.6
SU54-4-2-B5	0.1	1.4	U	2.4	4.4	3.5	U	5.7
SU-54-4-2-B6	1.0	1.1	U	1.7	1.3	3.1	U	5.4
SU-54-4-2-B7	0.7	1.0	U	1.7	1.6	3.2	U	5.4
SU-54-4-2-B8	1.1	1.1	U	1.7	0.7	3.1	U	5.4
SU54-4-2-B9	-0.5	1.1	U	2.2	-2.5	3.1	U	5.7
SU54-4-2-R5	-0.2	1.1	U	2.1	0.4	3.1	U	5.4
SU54-4-2-R9	-0.6	1.0	U	2.1	-1.2	3.0	U	5.4
SU54-4-3-B1	-0.4	0.9	U	1.9	0.7	3.2	U	5.5
SU54-4-3-B10	-1.4	1.0	U	2.2	3.0	3.1	U	5.2
SU54-4-3-B11	-0.2	1.1	U	2.2	0.0	3.0	U	5.3
SU54-4-3-B12	-0.3	1.1	U	2.2	-0.6	3.3	U	5.7
SU54-4-3-B13	-0.8	1.1	U	2.3	-3.1	3.0	U	5.6
SU54-4-3-B14	-0.2	1.1	U	2.2	-0.2	3.2	U	5.7
SU54-4-3-B15	-0.2	1.1	U	2.2	0.6	3.3	U	5.7
SU54-4-3-B16	-0.5	1.1	U	2.2	-1.2	3.2	U	5.7
SU54-4-3-B17	0.2	1.0	U	1.9	-1.1	2.8	U	5.0
SU54-4-3-B19	-0.1	1.1	U	2.1	-1.6	2.9	U	5.3
SU54-4-3-B2	0.5	0.9	U	1.6	-0.3	3.0	U	5.2
SU54-4-3-B20	0.2	1.9	UJ	3.2	-0.3	4.0	UJ	7.0
SU54-4-3-B21	-0.4	0.9	U	1.9	-0.7	2.8	U	5.0
SU54-4-3-B22	0.4	1.1	U	2.0	0.2	2.9	U	5.1
SU54-4-3-B23	-0.3	1.0	U	1.9	-0.7	2.8	U	5.0
SU54-4-3-B24	0.1	1.0	U	1.9	-2.0	2.7	U	5.0
SU54-4-3-B26	-0.4	0.9	U	1.9	-1.3	2.8	U	5.0
SU54-4-3-B27	0.6	1.2	U	2.1	-0.8	3.0	U	5.3
SU54-4-3-B28	-0.4	1.1	U	2.2	2.5	3.1	U	5.2
SU54-4-3-B29	-0.5	1.1	U	2.3	0.4	3.0	U	5.2

Sample_No	ALPHA (dpm/Filter)				BETA (dpm/Filter)			
	Result	Uncertainty	Lab Qual	MDL	Result	Uncertainty	Lab Qual	MDL
SU54-4-3-B3	0.2	1.0	U	1.9	-0.6	3.1	U	5.5
SU54-4-3-B30	2.2	1.4		2.0	9.8	3.4		5.2
SU54-4-3-B32	-1.3	1.0	U	2.2	1.7	3.1	U	5.3
SU54-4-3-B33	-1.1	1.0	U	2.2	-2.2	3.2	U	5.7
SU54-4-3-B34	0.7	1.2	U	2.0	3.2	3.2	U	5.4
SU54-4-3-B35	1.5	1.1	U	1.6	0.8	3.1	U	5.3
SU54-4-3-B36	0.2	1.0	U	1.9	-0.5	3.1	U	5.5
SU54-4-3-B37	-0.7	1.1	U	2.2	1.4	3.1	U	5.3
SU54-4-3-B38	-0.4	1.1	U	2.2	-0.7	3.2	U	5.7
SU54-4-3-B39	-0.2	1.1	U	2.2	-0.7	3.2	U	5.7
SU54-4-3-B41	0.6	0.9	U	1.6	-0.6	3.0	U	5.3
SU54-4-3-B43	0.6	1.1	U	1.9	-0.6	3.1	U	5.5
SU54-4-3-B44	-1.0	1.0	U	2.2	1.0	3.0	U	5.3
SU54-4-3-B45	-0.5	1.1	U	2.2	1.2	3.1	U	5.3
SU54-4-3-B46	-0.8	1.2	U	2.4	1.9	3.1	U	5.2
SU54-4-3-B48	-3.2	4.8	UJ	6.1	3.2	6.6	UJ	11.4
SU54-4-3-B49	0.0	1.0	U	1.9	1.5	3.2	U	5.5
SU54-4-3-B5	0.0	1.0	U	1.9	0.5	3.1	U	5.5
SU54-4-3-B51	-0.8	1.1	U	2.2	0.2	3.0	U	5.3
SU54-4-3-B52	-0.6	1.1	U	2.2	0.3	3.0	U	5.3
SU54-4-3-B53	-0.2	1.2	U	2.2	-0.7	3.2	U	5.7
SU54-4-3-B54	-0.4	1.2	U	2.3	-0.4	3.2	U	5.6
SU54-4-3-B55	0.5	0.9	U	1.6	1.9	3.1	U	5.3
SU54-4-3-B55	-1.1	1.0	U	2.2	2.0	3.1	U	5.3
SU54-4-3-B56	-0.1	1.0	U	1.9	0.0	3.1	U	5.5
SU54-4-3-B57	-0.4	1.0	U	2.0	1.0	3.1	U	5.4
SU54-4-3-B58	-0.3	1.2	U	2.2	4.6	3.2	U	5.2
SU54-4-3-B59	-0.3	1.2	U	2.2	1.5	3.0	U	5.2
SU54-4-3-B6	0.2	0.9	U	1.6	2.5	3.1	U	5.2
SU54-4-3-B7	0.5	1.1	U	1.9	1.5	3.2	U	5.5
SU54-4-3-B8	-0.2	1.0	U	1.9	1.5	3.2	U	5.5
SU54-4-3-R1	-0.3	1.1	U	2.1	1.3	3.1	U	5.4
SU54-4-3-R7	-1.0	1.0	U	2.1	2.0	3.1	U	5.2
SU54-4-4-B1	-0.3	0.8	U	1.6	1.3	3.0	U	5.2
SU54-4-4-B10	0.0	0.8	U	1.6	1.0	3.1	U	5.3
SU54-4-4-B11	0.5	0.9	U	1.6	0.9	3.1	U	5.3

Sample_No	ALPHA (dpm/Filter)				BETA (dpm/Filter)			
	Result	Uncertainty	Lab Qual	MDL	Result	Uncertainty	Lab Qual	MDL
SU54-4-4-B12	0.8	1.0	U	1.6	2.6	3.2	U	5.3
SU54-4-4-B13	0.2	0.9	U	1.6	0.8	3.0	U	5.2
SU54-4-4-B2	-0.2	0.8	U	1.6	2.2	3.1	U	5.2
SU54-4-4-B3	0.0	0.9	U	1.6	2.3	3.2	U	5.3
SU54-4-4-B4	0.0	0.9	U	1.6	2.5	3.1	U	5.2
SU54-4-4-B5	0.2	0.9	U	1.6	0.3	3.0	U	5.2
SU54-4-4-B6	0.3	0.9	U	1.6	-0.1	3.0	U	5.3
SU54-4-4-B7	1.1	1.0	U	1.6	-0.6	3.0	U	5.2
SU54-4-4-B8	0.6	0.9	U	1.6	-0.7	3.0	U	5.3
SU54-4-4-B9	0.0	0.9	U	1.6	2.9	3.2	U	5.3
SU54-4-5-B1	0.3	1.0	U	1.9	0.7	3.2	U	5.5
SU54-4-5-B10	0.2	1.0	U	1.9	0.2	3.1	U	5.4
SU54-4-5-B11	-1.3	1.8	UJ	3.3	0.5	3.7	UJ	6.5
SU54-4-5-B12	0.3	1.2	U	2.2	0.4	3.0	U	5.3
SU54-4-5-B13	-0.2	1.2	U	2.2	1.8	3.1	U	5.3
SU54-4-5-B15	0.3	1.2	U	2.2	0.0	3.0	U	5.3
SU54-4-5-B17	-0.3	1.1	U	2.2	-0.1	3.0	U	5.3
SU54-4-5-B18	-0.5	1.1	U	2.2	1.9	3.1	U	5.2
SU54-4-5-B3	-0.2	1.0	U	1.9	0.2	3.1	U	5.4
SU54-4-5-B4	0.1	1.0	U	1.9	-0.5	3.0	U	5.4
SU54-4-5-B5	0.1	1.0	U	2.0	0.3	3.1	U	5.4
SU54-4-5-B6	-0.5	0.9	U	1.9	1.3	3.2	U	5.5
SU54-4-5-B8	-0.2	1.0	U	1.9	1.0	3.2	U	5.5
SU54-4-5-B9	-16.6	47.3	UJ	43.7	3.4	39.7	UJ	80.8
SU54-4-5-R10	0.0	1.1	U	2.1	1.8	3.1	U	5.3
SU54-4-5-R6	-0.3	1.1	U	2.1	2.3	3.2	U	5.4
SU54-5-1-B1	-0.2	1.0	U	1.9	0.9	3.1	U	5.4
SU54-5-1-B10	0.6	0.9	U	1.6	0.0	3.4	U	5.9
SU54-5-1-B12	0.6	0.9	U	1.6	-0.6	3.4	U	5.9
SU54-5-1-B14	-0.3	1.0	U	1.9	-2.2	2.7	U	5.0
SU54-5-1-B16	-0.6	0.9	U	1.9	-1.2	2.8	U	5.0
SU54-5-1-B2	-0.8	0.9	U	1.9	2.5	3.2	U	5.4
SU54-5-1-B3	0.0	1.0	U	1.9	0.7	3.1	U	5.4
SU54-5-1-B4	1.1	1.2	U	1.9	6.3	3.3		5.3
SU54-5-1-B6	-0.3	1.0	U	1.9	0.9	3.1	U	5.4
SU54-5-1-B7	0.2	1.0	U	1.9	-1.2	3.0	U	5.4
SU54-5-1-B8	1.1	1.0	U	1.6	-3.5	3.3	U	6.1
SU54-5-1-B9	0.4	0.9	U	1.6	1.6	3.4	U	5.9

Sample_No	ALPHA (dpm/Filter)				BETA (dpm/Filter)			
	Result	Uncertainty	Lab Qual	MDL	Result	Uncertainty	Lab Qual	MDL
SU54-5-1-R1	-0.4	1.0	U	2.1	0.2	3.0	U	5.2
SU54-5-1-R10	-0.1	1.1	U	2.1	0.0	3.0	U	5.3
SU54-5-2-B1	0.5	0.9	U	1.6	-2.3	3.4	U	6.1
SU54-5-2-B10	-0.3	1.0	U	1.9	0.9	3.1	U	5.4
SU54-5-2-B12	0.7	0.9	U	1.6	-2.0	3.3	U	5.9
SU54-5-2-B13	0.4	0.9	U	1.6	-3.0	3.2	U	5.9
SU54-5-2-B15	0.2	0.8	U	1.6	-1.6	3.3	U	5.9
SU54-5-2-B16	-0.5	0.8	U	1.8	-0.3	3.1	U	5.5
SU54-5-2-B18	-0.4	0.9	U	1.9	0.9	3.1	U	5.4
SU54-5-2-B19	0.0	1.0	U	1.9	0.6	3.1	U	5.4
SU54-5-2-B2	0.1	0.8	U	1.6	-2.0	3.3	U	5.9
SU54-5-2-B21	-0.1	1.0	U	1.9	0.2	3.1	U	5.4
SU54-5-2-B22	-0.3	0.9	U	1.9	0.5	3.0	U	5.3
SU54-5-2-B24	0.1	1.0	U	1.9	0.9	3.1	U	5.4
SU54-5-2-B25	-0.7	0.9	U	1.9	2.7	3.2	U	5.4
SU54-5-2-B27	-0.4	0.9	U	1.8	0.7	3.2	U	5.5
SU54-5-2-B28	0.0	1.0	U	1.9	1.3	3.1	U	5.4
SU54-5-2-B29	-0.1	1.0	U	1.9	0.2	3.1	U	5.4
SU54-5-2-B3	0.0	0.8	U	1.6	-3.7	3.2	U	5.9
SU54-5-2-B4	0.7	0.9	U	1.6	-2.2	3.2	U	5.9
SU54-5-2-B5	0.2	0.8	U	1.6	-0.9	3.3	U	5.9
SU54-5-2-B6	0.3	0.9	U	1.6	0.3	3.4	U	5.9
SU54-5-2-B7	-0.9	0.9	U	1.9	0.6	3.0	U	5.3
SU54-5-2-B8	0.1	1.0	U	1.9	0.5	3.1	U	5.4
SU54-5-2-B9	-0.4	0.9	U	1.9	0.4	3.1	U	5.3
SU54-5-2-R7	-0.7	1.0	U	2.1	1.2	3.1	U	5.4
SU54-5-2-R9	-0.7	1.0	U	2.1	1.1	3.1	U	5.4
SU54-5-3-B1	0.1	1.1	U	2.1	0.6	3.1	U	5.4
SU54-5-3-B10	0.0	0.9	U	1.8	-1.4	3.1	U	5.5
SU54-5-3-B11	0.2	0.8	U	1.6	-2.4	3.3	U	5.9
SU54-5-3-B12	-0.2	0.9	U	1.8	0.9	3.2	U	5.5
SU54-5-3-B14	1.0	1.0	U	1.6	-1.2	3.3	U	5.9
SU54-5-3-B15	0.6	0.9	U	1.6	-3.0	3.2	U	5.9
SU54-5-3-B17	-0.4	0.9	U	1.8	1.1	3.2	U	5.5
SU54-5-3-B19	1.1	1.0	U	1.6	-3.8	3.2	U	5.9
SU54-5-3-B2	-0.8	1.0	U	2.1	-0.9	3.0	U	5.3
SU54-5-3-B21	1.6	1.2	U	1.9	0.3	2.9	U	5.0
SU54-5-3-B23	-0.1	1.1	U	2.1	3.2	3.3	U	5.4
SU54-5-3-B25	0.7	0.9	U	1.6	-2.2	3.3	U	5.9
SU54-5-3-B26	-1.0	1.0	U	2.1	1.9	3.2	U	5.4
SU54-5-3-B27	0.7	0.9	U	1.6	-2.0	3.3	U	5.9
SU54-5-3-B28	-0.4	0.9	U	1.9	-0.1	2.8	U	5.0
SU54-5-3-B29	-0.1	1.1	U	2.0	0.1	3.0	U	5.2
SU54-5-3-B3	-0.9	1.1	U	2.3	-1.2	3.0	U	5.4
SU54-5-3-B30	-0.2	1.1	U	2.1	1.0	3.2	U	5.4
SU54-5-3-B31	-0.1	1.4	UJ	2.7	-2.5	3.4	UJ	6.1
SU54-5-3-B32	0.5	1.1	U	1.9	-0.1	2.9	U	5.0
SU54-5-3-B33	0.1	1.0	U	1.9	-1.2	2.8	U	5.0

Sample_No	ALPHA (dpm/Filter)				BETA (dpm/Filter)			
	Result	Uncertainty	Lab Qual	MDL	Result	Uncertainty	Lab Qual	MDL
SU54-5-3-B34	0.3	1.0	U	1.9	-0.9	2.8	U	5.0
SU54-5-3-B35	0.0	1.0	U	1.9	-0.7	2.8	U	5.0
SU54-5-3-B4	-0.1	1.1	U	2.1	-1.3	3.0	U	5.4
SU54-5-3-B5	-0.7	1.0	U	2.1	0.4	3.1	U	5.4
SU54-5-3-B7	-1.1	0.9	U	2.1	1.1	3.2	U	5.4
SU54-5-3-B8	0.1	1.1	U	2.1	2.5	3.2	U	5.4
SU54-B2-B9	0.4	1.0	U	1.8	0.1	3.2	U	5.5
SU54-5-3-R4	0.1	1.1	U	2.1	-0.1	3.0	U	5.4
SU54-5-3-R8	-0.7	1.0	U	2.1	2.7	3.2	U	5.4
SU54-B1-B1	-9.4	51.5	UJ	43.7	3.6	43.5	UJ	80.8
SU54-B1-B2	0.4	0.9	U	1.6	-2.3	3.2	U	5.7
SU54-B1-R11	0.4	0.9	U	1.6	-1.1	3.3	U	5.8
SU54-B1-R8	0.7	0.9	U	1.6	-1.7	3.2	U	5.8
SU54-B-2-B1	0.3	0.8	U	1.6	-0.1	3.0	U	5.3
SU54-B-2-B10	0.2	0.9	U	1.6	3.6	3.1	U	5.2
SU54-B-2-B11	0.5	0.9	U	1.6	1.1	3.1	U	5.3
SU54-B-2-B13	0.0	0.8	U	1.6	1.4	3.1	U	5.3
SU54-B-2-B14	1.2	1.0	U	1.6	0.7	3.1	U	5.3
SU54-B-2-B16	0.3	0.8	U	1.6	-1.2	2.9	U	5.2
SU54-B-2-B17	0.6	0.9	U	1.6	2.0	3.1	U	5.2
SU54-B-2-B18	-1.6	1.9	UJ	3.4	4.0	4.0	UJ	6.6
SU54-B-2-B19	0.0	0.8	U	1.6	2.1	3.1	U	5.3
SU54-B-2-B2	0.9	1.0	U	1.6	1.8	3.1	U	5.3
SU54-B-2-B21	0.4	0.9	U	1.6	0.0	3.0	U	5.3
SU54-B-2-B22	0.7	0.9	U	1.6	0.8	3.1	U	5.3
SU54-B-2-B24	0.5	0.9	U	1.6	1.8	3.1	U	5.3
SU54-B-2-B25	0.4	0.9	U	1.6	1.7	3.1	U	5.2
SU54-B-2-B26	-0.2	0.9	U	1.8	-0.5	3.0	U	5.4
SU54-B-2-B27	0.4	1.0	U	1.8	2.4	3.2	U	5.4
SU54-B-2-B29	-0.2	0.9	U	1.8	0.8	3.1	U	5.4
SU54-B-2-B3	0.8	0.9	U	1.6	0.4	3.0	U	5.2
SU54-B-2-B30	0.6	1.0	U	1.8	-0.1	3.0	U	5.4
SU54-B-2-B32	0.1	1.0	U	1.8	2.0	3.2	U	5.4
SU54-B-2-B33	0.6	1.0	U	1.8	1.0	3.1	U	5.4
SU54-B-2-B35	-0.3	0.9	U	1.8	3.2	3.2	U	5.3
SU54-B-2-B36	0.1	1.0	U	1.8	1.6	3.1	U	5.4
SU54-B-2-B37	0.5	1.0	U	1.8	0.4	3.1	U	5.4
SU54-B-2-B39	-0.1	0.9	U	1.8	0.6	3.1	U	5.4
SU54-B-2-B40	-0.3	1.0	U	2.0	0.6	3.1	U	5.4
SU54-B-2-B5	0.8	0.9	U	1.6	-0.3	3.0	U	5.3
SU54-B-2-B6	0.9	1.0	U	1.6	2.4	3.1	U	5.2
SU54-B-2-B7	-0.4	1.1	U	2.1	0.0	3.1	U	5.5

Sample_No	ALPHA (dpm/Filter)				BETA (dpm/Filter)			
	Result	Uncertainty	Lab Qual	MDL	Result	Uncertainty	Lab Qual	MDL
SU54-B-2-B8	0.2	0.8	U	1.6	1.3	3.1	U	5.3
SU54-B2-R11	0.0	0.8	U	1.6	-0.2	3.3	U	5.8
SU54-B2-R9	0.1	0.8	U	1.6	-1.3	3.3	U	5.8
SU54-B-3-B1	1.3	1.0	U	1.6	2.1	3.1	U	5.3
SU54-B-3-B10	0.3	1.0	U	1.8	-0.8	3.2	U	5.7
SU54-B-3-B12	-0.5	0.9	U	1.8	0.8	3.3	U	5.7
SU54-B-3-B13	0.0	1.0	U	1.8	1.7	3.3	U	5.7
SU54-B-3-B14	0.1	0.9	U	1.8	-1.5	3.2	U	5.7
SU54-B-3-B15	-0.2	1.0	U	2.0	1.8	3.3	U	5.6
SU54-B-3-B2	-0.1	0.9	U	1.8	-0.6	3.2	U	5.7
SU54-B-3-B3	-0.7	0.8	U	1.8	-0.1	3.2	U	5.7
SU54-B-3-B5	-0.3	0.9	U	1.8	-0.1	3.2	U	5.7
SU54-B-3-B6	-0.6	0.9	U	1.8	2.3	3.3	U	5.6
SU54-B-3-B7	-0.3	0.9	U	1.8	-0.9	3.1	U	5.5
SU54-B-3-B9	-0.2	0.9	U	1.8	1.8	3.3	U	5.7
SU54-B3-R10	0.8	0.9	U	1.6	-1.1	3.3	U	5.9
SU54-B3-R3	0.7	0.9	U	1.6	-2.5	3.2	U	5.9
SU54-G-1-B1	0.8	0.8	U	1.5	-4.7	3.4	U	6.3
SU54-G-1-B2	0.4	1.0	U	1.9	0.2	3.2	U	5.5
SU54-G1-R13	0.3	0.9	U	1.6	-1.6	3.3	U	5.8
SU54-G1-R4	0.7	0.9	U	1.6	-2.7	3.2	U	5.8
SU54-G-2A-B1	0.3	0.8	U	1.6	-4.1	3.4	U	6.3
SU54-G-2A-B2	0.5	0.8	U	1.5	-2.7	3.5	U	6.3
SU54-G2A-R3	0.8	0.9	U	1.6	-4.2	3.1	U	5.8
SU54-G2A-R6	0.9	1.0	U	1.6	-1.9	3.2	U	5.8
SU54-G-2-B1	0.3	0.7	U	1.5	-5.1	3.4	U	6.3
SU54-G-2-B2	0.6	0.8	U	1.5	-3.6	3.5	U	6.3
SU54-G2-R10	0.4	0.9	U	1.6	-3.4	3.2	U	5.9
SU54-G2-R11	0.8	1.0	U	1.6	-1.7	3.3	U	5.8
SU54-G-3-B1	0.9	1.1	U	1.8	2.2	3.1	U	5.3
SU54-G-3-B2	-0.1	0.9	U	1.8	-0.1	3.0	U	5.3
SU54-G-3-B3	0.0	0.9	U	1.8	0.6	3.1	U	5.4
SU54-G-3-B5	0.0	0.9	U	1.8	2.1	3.2	U	5.4
SU54-G-3-B7	-0.4	0.9	U	1.8	1.5	3.1	U	5.3
SU54-G-3-B8	0.3	1.0	U	1.8	0.2	3.1	U	5.4

Sample_No	ALPHA (dpm/Filter)				BETA (dpm/Filter)			
	Result	Uncertainty	Lab Qual	MDL	Result	Uncertainty	Lab Qual	MDL
SU54-G3-R3	0.7	0.9	U	1.6	-2.8	3.2	U	5.8
SU54-G3-R6	0.4	1.1	U	2.0	-0.1	3.1	U	5.5
SU54-M-1-B1	-0.1	0.9	U	1.8	-0.3	3.1	U	5.5
SU54-M-1-B10	0.9	0.9	U	1.5	-4.1	3.4	U	6.3
SU54-M-1-B11	8.0	14.3	UJ	11.9	6.6	14.5	UJ	22.1
SU54-M-1-B12	1.0	0.9	U	1.5	-4.4	3.4	U	6.2
SU54-M-1-B13	0.0	1.0	U	1.9	-0.5	3.1	U	5.6
SU54-M-1-B15	1.4	1.0	U	1.5	-3.0	3.5	U	6.3
SU54-M-1-B16	0.9	0.9	U	1.5	-2.8	3.5	U	6.3
SU54-M-1-B2	0.1	1.0	U	1.8	1.6	3.3	U	5.6
SU54-M-1-B3	0.1	0.9	U	1.8	-2.3	3.0	U	5.6
SU54-M-1-B4	0.2	1.0	U	1.8	0.0	3.2	U	5.7
SU54-M-1-B5	0.2	1.0	U	1.8	1.9	3.3	U	5.6
SU54-M-1-B6	0.2	1.0	U	1.8	-1.5	3.1	U	5.6
SU54-M-1-B7	0.2	0.9	U	1.8	-1.2	3.1	U	5.6
SU54-M-1-B8	0.2	1.0	U	1.8	0.7	3.2	U	5.6
SU54-M-1-B9	0.4	0.8	U	1.5	-2.1	3.6	U	6.3
SU54-M1-R10	-0.1	0.8	U	1.6	-2.1	3.2	U	5.9
SU54-M1-R3	-0.2	1.0	U	1.9	0.2	3.1	U	5.4
SU54-M-2-B1	1.0	0.9	U	1.5	-3.6	3.5	U	6.3
SU54-M-2-B2	0.3	0.8	U	1.5	-3.1	3.4	U	6.2
SU54-M2-R10	1.1	1.0	U	1.6	-2.1	3.2	U	5.9
SU54-M2-R4	-0.1	0.8	U	1.6	-2.0	3.2	U	5.7
SU7-1-1-B1	0.2	0.8	U	1.5	0.5	3.1	U	5.5
SU7-1-1-B2	1.2	1.0	U	1.6	1.1	3.2	U	5.6
SU7-1-1-B3	-0.1	0.8	U	1.6	-0.7	3.1	U	5.6
SU7-2-1-B1	-0.1	0.8	U	1.5	1.2	3.2	U	5.5
SU7-2-1-B2	0.9	0.9	U	1.6	0.7	3.2	U	5.5
SU7-2-2-B1	0.8	0.9	U	1.6	-0.2	3.1	U	5.5
SU7-2-2-B2	0.6	0.9	U	1.6	-0.3	3.1	U	5.5
SU7-2-2-B3	1.1	0.9	U	1.5	-0.9	3.1	U	5.5
SU7-2-3-B1	0.9	0.9	U	1.5	1.6	3.2	U	5.4
SU7-2-3-B2	0.3	0.8	U	1.6	-1.7	3.0	U	5.5
SU7-2-3-B3	0.0	0.9	U	1.5	7.6	3.5		5.4
SU7-2-4-B1	0.7	0.9	U	1.5	1.8	3.2	U	5.5
SU7-2-4-B2	-0.6	1.3	UJ	2.5	1.0	3.4	UJ	5.9
SU7-2-4-B3	1.0	0.9	U	1.5	0.6	3.1	U	5.4

Sample_No	ALPHA (dpm/Filter)				BETA (dpm/Filter)			
	Result	Uncertainty	Lab Qual	MDL	Result	Uncertainty	Lab Qual	MDL
SU7-B-1-B1	-0.2	1.0	U	2.0	0.0	3.0	U	5.2
SU7-B-1-B2	0.8	1.2	U	2.0	1.6	3.1	U	5.2
SU7-B-1-R6	-0.4	1.0	U	2.1	0.0	3.1	U	5.4
SU7-B-1-R9	-0.2	1.1	U	2.1	0.2	3.1	U	5.4
SU7-B-2-B1	0.1	1.1	U	2.1	0.6	3.1	U	5.4
SU7-B-2-B2	0.1	1.2	U	2.2	-0.2	3.0	U	5.3
SU7-B-2-B3	-0.5	1.1	U	2.2	1.3	3.1	U	5.4
SU7-B-2-R12	-0.6	1.0	U	2.1	-0.4	3.0	U	5.3
SU7-B-2-R4	-1.0	1.0	U	2.1	2.4	3.2	U	5.4
SU7-B-3-B1	-0.4	1.1	U	2.2	0.6	3.1	U	5.3
SU7-B-3-B2	0.0	1.2	U	2.2	0.7	3.1	U	5.4
SU7-B-3-B3	-0.4	1.1	U	2.2	1.9	3.1	U	5.4
SU7-B-3-B4	0.1	1.2	U	2.2	1.3	3.1	U	5.4
SU7-B-4-B1	-0.8	1.1	U	2.2	1.1	3.1	U	5.4
SU7-B-4-B2	0.2	1.2	U	2.2	0.2	3.1	U	5.4
SU7-B-4-B3	0.9	1.0	U	1.6	1.5	3.2	U	5.5
SU7-B-5-B1	-0.2	0.8	U	1.6	1.5	3.2	U	5.6
SU7-B-5-B2	0.5	0.9	U	1.5	-0.1	3.1	U	5.4
SU7-B-5-B3	0.6	0.9	U	1.6	0.0	3.2	U	5.5
SU7-B-5-B4	0.7	0.9	U	1.6	-0.6	3.1	U	5.5
SU7-B-6-B1	0.6	1.1	U	2.0	0.5	3.1	U	5.3
SU7-B-6-B2	0.0	1.1	U	2.0	0.5	3.0	U	5.3
SU7-B-6-B3	1.2	1.2	U	2.0	1.5	3.1	U	5.3
SU7-B-6-R13	0.0	1.1	U	2.1	-1.3	3.0	U	5.4
SU7-B-6-R3	-0.7	1.0	U	2.1	0.5	3.1	U	5.4
SU91-1-1-B1	-0.5	1.1	U	2.2	-0.8	2.9	U	5.2
SU91-1-2-B1	-0.8	1.1	U	2.2	-0.3	3.0	U	5.2
SU91-G-1-B1	-0.5	1.1	U	2.2	-1.6	3.0	U	5.4
SU91-G-1-B2	-0.6	1.1	U	2.2	-0.7	3.0	U	5.4
SU91-G-1-B3	-0.7	1.1	U	2.2	0.9	3.0	U	5.2
SU92-1-R12	-0.7	1.1	U	2.2	1.9	3.2	U	5.4
SU92-1-R5	-0.3	1.1	U	2.2	-0.3	3.0	U	5.3
SU92-G-1-B1	-0.7	1.0	U	2.2	-0.4	3.0	U	5.4
SU92-G-1-B2	-0.2	1.1	U	2.2	-1.4	3.0	U	5.3
SU92-G-1-B3	-0.4	1.1	U	2.2	-1.4	3.0	U	5.4
SU92-G-2-B1	-0.2	1.1	U	2.2	1.0	3.1	U	5.3
SU92-G-2-B2	0.1	1.2	U	2.2	0.6	3.1	U	5.4
SU92-G-2-B3	-0.5	1.1	U	2.2	1.2	3.1	U	5.4
SU92-G-3-B1	-0.8	1.0	U	2.2	0.5	3.1	U	5.4
Vac-Bldg-2	-0.2	1.1	U	2.1	3.0	3.2	U	5.3
Vac-Bldg-54	0.0	1.1	U	2.1	6.6	3.3		5.2
Vac-Bldg-7	2.8	7.0	UJ	7.6	-6.6	8.0	UJ	15.7
Average	0.0				0.6			
Maximum	12.4				174.7			
Minimum	-16.6				-12.7			
Count	561.00				561.00			

WRAMC Main Post Characterization Field Blanks

Sample_No	ALPHA (dpm/Filter)					BETA (dpm/Filter)			
	Result	Uncertainty	Lab Qual	MDL		Result	Uncertainty	Lab Qual	MDL
SU54-1-1	0.0	1.0	U	1.8		2.8	3.2	U	5.3
SU54-1-2	-0.4	0.9	U	1.8		-0.6	3.1	U	5.4
SU54-1-3	0.1	0.9	U	1.8		-1.2	3.0	U	5.4
SU54-2-1	0.2	1.0	U	1.9		0.6	3.1	U	5.4
SU54-2-3	0.4	1.0	U	1.9		0.1	3.1	U	5.4
SU54-3-1	0.1	1.1	U	2.0		-1.7	3.2	U	5.8
SU54-3-2	-0.4	1.0	U	2.0		-0.4	3.3	U	5.8
SU54-3-4-	0.8	0.9	U	1.6		-0.4	3.1	U	5.5
SU54-3-5	-0.5	1.0	U	2.1		-1.0	3.0	U	5.4
SU54-3-6	-0.7	1.0	U	2.1		-0.1	3.1	U	5.4
SU54-4-1	-0.5	0.8	U	1.8		-0.2	3.3	U	5.7
SU54-4-2	0.2	0.9	U	1.8		-2.3	3.2	U	5.7
SU54-4-3	-0.4	1.1	U	2.2		-2.0	3.1	U	5.6
SU54-4-4	0.1	0.8	U	1.6		-0.2	3.0	U	5.3
SU54-4-5	-0.7	1.1	U	2.2		1.1	3.1	U	5.3
SU54-5-1	0.3	1.0	U	1.9		0.5	2.8	U	5.0
SU54-5-2	0.6	0.9	U	1.6		-1.4	3.3	U	5.9
SU54-5-3	-0.5	1.0	U	2.1		1.4	3.2	U	5.4
SU54-B-1	0.5	0.9	U	1.6		-3.2	3.2	U	5.8
SU54-B2	-0.4	1.0	U	2.1		0.6	3.1	U	5.4
SU54-B-3	-0.7	0.8	U	1.8		0.6	3.3	U	5.7
SU54-G-1	0.0	1.0	U	1.9		0.8	3.2	U	5.5
SU54-G-2	0.6	0.8	U	1.5		-2.0	3.6	U	6.3
SU54-G-3	-0.1	0.9	U	1.8		0.8	3.1	U	5.4
SU54-M-1	-0.5	0.9	U	1.9		0.8	3.2	U	5.5
SU54-M-2	1.1	0.9	U	1.5		-4.7	3.4	U	6.3
SU54-2-2	0.1	1.0	U	1.9		-0.7	3.0	U	5.4
SU54-3-3	0.3	0.8	U	1.6		-1.4	3.1	U	5.5
SU54-G-2A	0.7	0.8	U	1.5		-3.3	3.5	U	6.3

GEL LABORATORIES LLC

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Certificate of Analysis Report for

TIDI002 Tidewater, Inc.

Client SDG: 293794 GEL Work Order: 293794

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Edith Kent.



Reviewed by

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-3-R6
Sample ID: 293794001
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0332	+/-0.478	0.914	+/-0.478	3.60	pCi/Filter		BYS1	01/17/12	1550	1177994	1
Beta	U	0.471	+/-1.46	2.51	+/-1.46	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-4-S1
Sample ID: 293794002
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.316	+/-0.427	0.913	+/-0.427	3.60	pCi/Filter	BYS1	01/17/12	1606	1177994	1
Beta	U	-0.191	+/-1.42	2.50	+/-1.42	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-4-S10
Sample ID: 293794003
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.0864	+/-0.463	0.913	+/-0.463	3.60	pCi/Filter		BYS1	01/17/12	1622	1177994	1
Beta	U	-0.10	+/-1.43	2.51	+/-1.43	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-4-S14
Sample ID: 293794004
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.105	+/-0.464	0.913	+/-0.464	3.60	pCi/Filter	BYS1	01/17/12	1639	1177994	1
Beta	U	0.162	+/-1.44	2.51	+/-1.44	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-4-S19
Sample ID: 293794005
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.146	+/-0.504	0.913	+/-0.504	3.60	pCi/Filter		BYS1	01/17/12	1655	1177994	1
Beta	U	0.567	+/-1.46	2.51	+/-1.46	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Columbia, Maryland 21046

Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-5-S5
Sample ID: 293794006
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.116	+/-0.492	0.913	+/-0.492	3.60	pCi/Filter	BYS1	01/17/12	1711	1177994	1
Beta	U	-0.318	+/-1.41	2.50	+/-1.41	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Columbia, Maryland 21046

Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-5-S9
Sample ID: 293794007
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0626	+/-0.492	0.913	+/-0.492	3.60	pCi/Filter	BYS1	01/17/12	1727	1177994	1
Beta	U	0.464	+/-1.45	2.50	+/-1.45	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-6-1-R6
Sample ID: 293794008
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0544	+/-0.471	0.914	+/-0.471	3.60	pCi/Filter	BYS1	01/17/12	1743	1177994	1
Beta	U	0.107	+/-1.44	2.51	+/-1.44	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Columbia, Maryland 21046

Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-6-1-R13
Sample ID: 293794009
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0472	+/-0.472	0.914	+/-0.472	3.60	pCi/Filter	BYS1	01/17/12 1759	1177994	1
Beta	U	0.00254	+/-1.43	2.51	+/-1.43	9.00	pCi/Filter				

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Columbia, Maryland 21046

Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-5-1-R4
Sample ID: 293794010
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.343	+/-0.523	0.913	+/-0.523	3.60	pCi/Filter	BYS1	01/17/12	1815	1177994	1
Beta	U	-0.226	+/-1.42	2.51	+/-1.42	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-5-1-R14
Sample ID: 293794011
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.211	+/-0.512	0.914	+/-0.512	3.60	pCi/Filter		BYS1	01/17/12	1832	1177994	1
Beta	U	0.353	+/-1.45	2.51	+/-1.45	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-4-2-R1
Sample ID: 293794012
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.471	+/-0.544	0.914	+/-0.544	3.60	pCi/Filter		BYS1	01/17/12	1848	1177994	1
Beta	U	-0.0254	+/-1.43	2.51	+/-1.43	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-4-2-R7
Sample ID: 293794013
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.345	+/-0.525	0.913	+/-0.525	3.60	pCi/Filter	BYS1	01/17/12	1904	1177994	1
Beta	U	-0.226	+/-1.42	2.51	+/-1.42	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-4-1-R10
Sample ID: 293794014
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.161	+/-0.491	0.914	+/-0.491	3.60	pCi/Filter	BYS1	01/17/12	1920	1177994	1
Beta	U	-0.947	+/-1.38	2.51	+/-1.38	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
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Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-4-1-R13
Sample ID: 293794015
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.133	+/-0.457	0.914	+/-0.457	3.60	pCi/Filter	BYS1	01/17/12	1936	1177994	1
Beta	U	-0.0974	+/-1.43	2.51	+/-1.43	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

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Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-2-1-R3
Sample ID: 293794016
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.644	+/-0.561	0.914	+/-0.561	3.60	pCi/Filter		BYS1	01/17/12	1952	1177994	1
Beta	U	-0.503	+/-1.41	2.51	+/-1.41	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Company : Tidewater, Inc.
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Columbia, Maryland 21046

Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-2-1-R5
Sample ID: 293794017
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0217	+/-0.486	0.914	+/-0.486	3.60	pCi/Filter		BYS1	01/17/12	2009	1177994	1
Beta	U	0.363	+/-1.45	2.51	+/-1.45	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-2-2-R6
Sample ID: 293794018
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.229	+/-0.450	0.914	+/-0.450	3.60	pCi/Filter	BYS1	01/17/12	2025	1177994	1
Beta	U	0.585	+/-1.46	2.51	+/-1.46	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

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Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-2-2-R12
Sample ID: 293794019
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.165	+/-0.504	0.913	+/-0.504	3.60	pCi/Filter	BYS1	01/17/12	2041	1177994	1
Beta	U	0.305	+/-1.45	2.51	+/-1.45	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

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Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-1-1-R1
Sample ID: 293794020
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.221	+/-0.503	0.913	+/-0.503	3.60	pCi/Filter		BYS1	01/17/12	2057	1177994	1
Beta	U	-0.481	+/-1.41	2.51	+/-1.41	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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QC Summary

Client : Tidewater, Inc.
7161 Columbia Gateway Drive -

Report Date: January 18, 2012
Page 1 of 2

Contact: Columbia, Maryland
Mr. Claude Wiblin

Workorder: 293794

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Liquid Scintillation									
Batch	1177994								
QC1202574837	LCS								
Alpha	21.4		23.3	pCi/Filter		109		BYS1	01/17/1221:29
	Uncert:		+/-2.02						
	TPU:		+/-2.05						
Beta	49.3		52.3	pCi/Filter		106			
	Uncert:		+/-3.16						
	TPU:		+/-3.26						
QC1202574838	LCS								
Alpha	21.4		24.2	pCi/Filter	3.8	113			01/17/1221:46
	Uncert:		+/-2.05						
	TPU:		+/-2.09						
Beta	49.3		53.9	pCi/Filter	3.08	109			
	Uncert:		+/-3.20						
	TPU:		+/-3.31						
QC1202574836	MB								
Alpha		U	0.335	pCi/Filter					01/17/1221:13
	Uncert:		+/-0.522						
	TPU:		+/-0.522						
Beta		U	-0.12	pCi/Filter					
	Uncert:		+/-1.42						
	TPU:		+/-1.42						

Notes:

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- M M if above MDC and less than LLD
- M Matrix Related Failure

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QC Summary

Workorder: 293794

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
N/A	RPD or %Recovery limits do not apply.									
N1	See case narrative									
ND	Analyte concentration is not detected above the detection limit									
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.									
R	Sample results are rejected									
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.									
UI	Gamma Spectroscopy--Uncertain identification									
UJ	Gamma Spectroscopy--Uncertain identification									
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.									
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Y	QC Samples were not spiked with this compound									
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.									
h	Preparation or preservation holding time was exceeded									

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

There are no "Data Exception Reports" associated with this analytical report.

GEL LABORATORIES LLC

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Certificate of Analysis Report for

TIDI002 Tidewater, Inc.

Client SDG: 293761 GEL Work Order: 293761

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Edith Kent.



Reviewed by

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-G3-R6
Sample ID: 293761001
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.192	+/-0.505	0.913	+/-0.505	3.60	pCi/Filter	BYS1	01/17/12	2218	1177970	1
Beta	U	-0.0622	+/-1.40	2.46	+/-1.40	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-1-1-R5
Sample ID: 293761002
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.217	+/-0.505	0.912	+/-0.505	3.60	pCi/Filter	BYS1	01/17/12	2234	1177970	1
Beta	U	-0.424	+/-1.36	2.43	+/-1.36	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-1-1-R8
Sample ID: 293761003
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.152	+/-0.497	0.912	+/-0.497	3.60	pCi/Filter	BYS1	01/17/12	2251	1177970	1
Beta	U	-0.164	+/-1.39	2.46	+/-1.39	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-1-2-R6
Sample ID: 293761004
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.292	+/-0.519	0.914	+/-0.519	3.60	pCi/Filter		BYS1	01/17/12	2307	1177970	1
Beta	U	-0.116	+/-1.37	2.41	+/-1.37	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-1-2-R8
Sample ID: 293761005
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.200	+/-0.510	0.912	+/-0.510	3.60	pCi/Filter	BYS1	01/17/12	2323	1177970	1
Beta	U	0.460	+/-1.42	2.46	+/-1.42	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-1-3-R5
Sample ID: 293761006
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.147	+/-0.492	0.912	+/-0.492	3.60	pCi/Filter		BYS1	01/17/12	2339	1177970	1
Beta	U	-0.784	+/-1.35	2.44	+/-1.35	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-1-3-R9
Sample ID: 293761007
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0329	+/-0.485	0.913	+/-0.485	3.60	pCi/Filter	BYS1	01/17/12	2355	1177970	1
Beta	U	0.206	+/-1.41	2.45	+/-1.41	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-2-1-R1
Sample ID: 293761008
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.0135	+/-0.478	0.912	+/-0.478	3.60	pCi/Filter		BYS1	01/18/12	0011	1177970	1
Beta	U	0.207	+/-1.39	2.42	+/-1.39	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-2-1-R9
Sample ID: 293761009
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.197	+/-0.471	0.966	+/-0.471	3.60	pCi/Filter		BYS1	01/18/12	0028	1177970	1
Beta	U	-0.904	+/-1.33	2.42	+/-1.33	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-2-2-R1
Sample ID: 293761010
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.076	+/-0.464	0.913	+/-0.464	3.60	pCi/Filter		BYS1	01/18/12	0044	1177970	1
Beta	U	-0.256	+/-1.39	2.46	+/-1.39	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-2-2-R5
Sample ID: 293761011
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.142	+/-0.492	0.913	+/-0.492	3.60	pCi/Filter		BYS1	01/18/12	0100	1177970	1
Beta	U	-0.685	+/-1.36	2.46	+/-1.36	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-2-3-R7
Sample ID: 293761012
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.199	+/-0.505	0.913	+/-0.505	3.60	pCi/Filter		BYS1	01/18/12	0116	1177970	1
Beta	U	-0.167	+/-1.39	2.46	+/-1.39	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-2-3-R11
Sample ID: 293761013
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.394	+/-0.537	0.913	+/-0.537	3.60	pCi/Filter	BYS1	01/18/12	0132	1177970	1
Beta	U	0.396	+/-1.42	2.46	+/-1.42	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-1-R1
Sample ID: 293761014
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.206	+/-0.504	0.913	+/-0.504	3.60	pCi/Filter		BYS1	01/18/12	0148	1177970	1
Beta	U	-0.272	+/-1.39	2.46	+/-1.39	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-1-R3
Sample ID: 293761015
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0939	+/-0.491	0.913	+/-0.491	3.60	pCi/Filter		BYS1	01/18/12	0205	1177970	1
Beta	U	-0.00485	+/-1.40	2.46	+/-1.40	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-2-R7
Sample ID: 293761016
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.189	+/-0.506	0.913	+/-0.506	3.60	pCi/Filter		BYS1	01/18/12	0221	1177970	1
Beta	U	-0.0102	+/-1.40	2.45	+/-1.40	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-2-R11
Sample ID: 293761017
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.147	+/-0.504	0.913	+/-0.504	3.60	pCi/Filter		BYS1	01/18/12	0237	1177970	1
Beta	U	0.566	+/-1.43	2.46	+/-1.43	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-3-R10
Sample ID: 293761018
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0866	+/-0.492	0.913	+/-0.492	3.60	pCi/Filter	BYS1	01/18/12	0253	1177970	1
Beta	U	0.0997	+/-1.41	2.46	+/-1.41	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-3-R13
Sample ID: 293761019
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0943	+/-0.492	0.913	+/-0.492	3.60	pCi/Filter		BYS1	01/18/12	0309	1177970	1
Beta	U	-0.00508	+/-1.40	2.46	+/-1.40	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 18, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-4-R7
Sample ID: 293761020
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.141	+/-0.457	0.913	+/-0.457	3.60	pCi/Filter		BYS1	01/18/12	0325	1177970	1
Beta	U	0.00751	+/-1.40	2.46	+/-1.40	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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QC Summary

Client : Tidewater, Inc.
7161 Columbia Gateway Drive -

Report Date: January 18, 2012
Page 1 of 2

Contact: Columbia, Maryland
Mr. Claude Wiblin

Workorder: 293761

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Liquid Scintillation										
Batch	1177970									
QC1202574771	LCS									
Alpha	21.4		23.5	pCi/Filter		110		BYS1	01/18/1203:58	
	Uncert:		+/-2.04							
	TPU:		+/-2.07							
Beta	49.3		58.4	pCi/Filter		118				
	Uncert:		+/-3.28							
	TPU:		+/-3.41							
QC1202574772	LCSD									
Alpha	21.4		22.4	pCi/Filter	4.58	105			01/18/1204:14	
	Uncert:		+/-1.98							
	TPU:		+/-2.01							
Beta	49.3		53.0	pCi/Filter	9.6	108				
	Uncert:		+/-3.16							
	TPU:		+/-3.27							
QC1202574770	MB									
Alpha		U	-0.195	pCi/Filter					01/18/1203:42	
	Uncert:		+/-0.463							
	TPU:		+/-0.463							
Beta		U	1.42	pCi/Filter						
	Uncert:		+/-1.47							
	TPU:		+/-1.47							

Notes:

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- M M if above MDC and less than LLD
- M Matrix Related Failure

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QC Summary

Workorder: 293761

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
N/A	RPD or %Recovery limits do not apply.									
N1	See case narrative									
ND	Analyte concentration is not detected above the detection limit									
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.									
R	Sample results are rejected									
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.									
UI	Gamma Spectroscopy--Uncertain identification									
UJ	Gamma Spectroscopy--Uncertain identification									
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.									
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Y	QC Samples were not spiked with this compound									
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.									
h	Preparation or preservation holding time was exceeded									

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

There are no "Data Exception Reports" associated with this analytical report.

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis Report for

TIDI002 Tidewater, Inc.

Client SDG: 293762 GEL Work Order: 293762

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Edith Kent.



Reviewed by

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 19, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-1-2
Sample ID: 293762001
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.169	+/-0.385	0.814	+/-0.385	3.60	pCi/Filter	BYS1	01/14/12	0051	1177971	1
Beta	U	-0.253	+/-1.38	2.45	+/-1.38	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 19, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-1-2-B-1
Sample ID: 293762002
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.310	+/-0.471	0.815	+/-0.471	3.60	pCi/Filter		BYS1	01/14/12	0107	1177971	1
Beta	U	0.245	+/-1.41	2.45	+/-1.41	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 19, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-1-2-B-2
Sample ID: 293762003
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.156	+/-0.450	0.815	+/-0.450	3.60	pCi/Filter	BYS1	01/14/12	0123	1177971	1
Beta	U	0.460	+/-1.42	2.45	+/-1.42	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 19, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-1-3-B1
Sample ID: 293762004
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.311	+/-0.471	0.815	+/-0.471	3.60	pCi/Filter		BYS1	01/14/12	0140	1177971	1
Beta	U	0.244	+/-1.41	2.45	+/-1.41	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 19, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-1-3-B3
Sample ID: 293762005
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.079	+/-0.419	0.814	+/-0.419	3.60	pCi/Filter	BYS1	01/14/12	0156	1177971	1
Beta	U	1.19	+/-1.44	2.42	+/-1.44	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 19, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-1-3-B4
Sample ID: 293762006
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.173	+/-0.412	0.815	+/-0.412	3.60	pCi/Filter	BYS1	01/14/12	0212	1177971	1
Beta	U	1.83	+/-1.48	2.44	+/-1.48	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 19, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-1-3-B5
Sample ID: 293762007
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.267	+/-0.402	0.827	+/-0.402	3.60	pCi/Filter		BYS1	01/14/12	0228	1177971	1
Beta	U	1.95	+/-1.46	2.38	+/-1.46	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 19, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-1-3-B6
Sample ID: 293762008
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.101	+/-0.427	0.815	+/-0.427	3.60	pCi/Filter	BYS1	01/14/12	0244	1177971	1
Beta	U	-0.785	+/-1.35	2.45	+/-1.35	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 19, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-1-3-B8
Sample ID: 293762009
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.0543	+/-0.412	0.815	+/-0.412	3.60	pCi/Filter		BYS1	01/14/12	0300	1177971	1
Beta	U	0.107	+/-1.40	2.44	+/-1.40	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 19, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-1-3-B9
Sample ID: 293762010
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.0146	+/-0.419	0.815	+/-0.419	3.60	pCi/Filter		BYS1	01/14/12	0317	1177971	1
Beta	U	0.209	+/-1.40	2.45	+/-1.40	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 19, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-1-3-B11
Sample ID: 293762011
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0143	+/-0.420	0.815	+/-0.420	3.60	pCi/Filter	BYS1	01/14/12	0333	1177971	1
Beta	U	0.209	+/-1.40	2.44	+/-1.40	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 19, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-1-3-B12
Sample ID: 293762012
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.283	+/-0.470	0.814	+/-0.470	3.60	pCi/Filter	BYS1	01/14/12	0349	1177971	1
Beta	U	0.613	+/-1.43	2.45	+/-1.43	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 19, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-1-3-B13
Sample ID: 293762013
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0325	+/-0.411	0.815	+/-0.411	3.60	pCi/Filter		BYS1	01/14/12	0405	1177971	1
Beta	U	-0.207	+/-1.38	2.45	+/-1.38	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 19, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-1-3-B14
Sample ID: 293762014
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0404	+/-0.445	0.832	+/-0.445	3.60	pCi/Filter		BYS1	01/14/12	0421	1177971	1
Beta	U	0.917	+/-1.41	2.39	+/-1.41	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 19, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-1-3
Sample ID: 293762015
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0376	+/-0.417	0.814	+/-0.417	3.60	pCi/Filter	BYS1	01/14/12	0437	1177971	1
Beta	U	-0.524	+/-1.36	2.45	+/-1.36	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 19, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-1-3-B25
Sample ID: 293762016
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.135	+/-0.437	0.818	+/-0.437	3.60	pCi/Filter		BYS1	01/14/12	0454	1177971	1
Beta	U	-0.621	+/-1.33	2.39	+/-1.33	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 19, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-1-3-B20
Sample ID: 293762017
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.120	+/-0.443	0.815	+/-0.443	3.60	pCi/Filter		BYS1	01/14/12	0510	1177971	1
Beta	U	0.305	+/-1.41	2.44	+/-1.41	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 19, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-1-3-B19
Sample ID: 293762018
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.174	+/-0.395	0.815	+/-0.395	3.60	pCi/Filter		BYS1	01/14/12	0526	1177971	1
Beta	U	0.478	+/-1.42	2.45	+/-1.42	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 19, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-1-3-B17
Sample ID: 293762019
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0898	+/-0.412	0.815	+/-0.412	3.60	pCi/Filter	BYS1	01/14/12	0542	1177971	1
Beta	U	0.627	+/-1.42	2.44	+/-1.42	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 19, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-1-3-B27
Sample ID: 293762020
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.146	+/-0.403	0.815	+/-0.403	3.60	pCi/Filter	BYS1	01/14/12	0558	1177971	1
Beta	U	0.737	+/-1.43	2.45	+/-1.43	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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QC Summary

Client : Tidewater, Inc.
7161 Columbia Gateway Drive -

Report Date: January 19, 2012
Page 1 of 2

Contact: Columbia, Maryland
Mr. Claude Wiblin

Workorder: 293762

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Liquid Scintillation									
Batch	1177971								
QC1202574774	LCS								
Alpha	21.4		21.4	pCi/Filter		100		BYS1	01/14/1206:31
	Uncert:		+/-1.94						
	TPU:		+/-1.97						
Beta	49.3		56.0	pCi/Filter		114			
	Uncert:		+/-3.23						
	TPU:		+/-3.34						
QC1202574775	LCS								
Alpha	21.4		23.5	pCi/Filter	9.19	110			01/14/1206:47
	Uncert:		+/-2.01						
	TPU:		+/-2.05						
Beta	49.3		55.1	pCi/Filter	1.76	112			
	Uncert:		+/-3.21						
	TPU:		+/-3.32						
QC1202574773	MB								
Alpha		U	0.103	pCi/Filter					01/14/1206:14
	Uncert:		+/-0.447						
	TPU:		+/-0.447						
Beta		U	1.15	pCi/Filter					
	Uncert:		+/-1.45						
	TPU:		+/-1.45						

Notes:

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- M M if above MDC and less than LLD
- M Matrix Related Failure

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QC Summary

Workorder: 293762

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
N/A	RPD or %Recovery limits do not apply.									
N1	See case narrative									
ND	Analyte concentration is not detected above the detection limit									
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.									
R	Sample results are rejected									
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.									
UI	Gamma Spectroscopy--Uncertain identification									
UJ	Gamma Spectroscopy--Uncertain identification									
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.									
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Y	QC Samples were not spiked with this compound									
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.									
h	Preparation or preservation holding time was exceeded									

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

There are no "Data Exception Reports" associated with this analytical report.

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis Report for

TIDI002 Tidewater, Inc.

Client SDG: 293779 GEL Work Order: 293779

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Edith Kent.



Reviewed by

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-1-B9
Sample ID: 293779001
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.186	+/-0.413	0.735	+/-0.413	3.60	pCi/Filter	BYS1	01/21/12	0144	1177986	1
Beta	U	0.718	+/-1.55	2.66	+/-1.55	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-1-B10
Sample ID: 293779002
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.281	+/-0.418	0.735	+/-0.418	3.60	pCi/Filter	BYS1	01/21/12	0200	1177986	1
Beta	U	-0.014	+/-1.52	2.66	+/-1.52	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-1-B8
Sample ID: 293779003
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.482	+/-0.435	0.735	+/-0.435	3.60	pCi/Filter	BYS1	01/21/12	1942	1177986	1
Beta	U	-1.58	+/-1.50	2.75	+/-1.50	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-1-B12
Sample ID: 293779004
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.253	+/-0.410	0.735	+/-0.410	3.60	pCi/Filter		BYS1	01/21/12	0232	1177986	1
Beta	U	-0.274	+/-1.51	2.66	+/-1.51	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-2-B6
Sample ID: 293779005
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.130	+/-0.396	0.736	+/-0.396	3.60	pCi/Filter		BYS1	01/21/12	0248	1177986	1
Beta	U	0.149	+/-1.53	2.66	+/-1.53	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-2-B4
Sample ID: 293779006
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.303	+/-0.412	0.734	+/-0.412	3.60	pCi/Filter	BYS1	01/21/12	0304	1177986	1
Beta	U	-1.0	+/-1.46	2.65	+/-1.46	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-2-B15
Sample ID: 293779007
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0982	+/-0.378	0.736	+/-0.378	3.60	pCi/Filter	BYS1	01/21/12	0321	1177986	1
Beta	U	-0.734	+/-1.48	2.66	+/-1.48	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-2-B13
Sample ID: 293779008
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.191	+/-0.386	0.736	+/-0.386	3.60	pCi/Filter	BYS1	01/21/12	0337	1177986	1
Beta	U	-1.37	+/-1.45	2.66	+/-1.45	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-2-B5
Sample ID: 293779009
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.0762	+/-0.379	0.736	+/-0.379	3.60	pCi/Filter		BYS1	01/21/12	0353	1177986	1
Beta	U	-0.42	+/-1.50	2.66	+/-1.50	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-2-B12
Sample ID: 293779010
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.298	+/-0.410	0.735	+/-0.410	3.60	pCi/Filter	BYS1	01/21/12	0409	1177986	1
Beta	U	-0.903	+/-1.48	2.66	+/-1.48	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-2
Sample ID: 293779011
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.279	+/-0.411	0.736	+/-0.411	3.60	pCi/Filter	BYS1	01/21/12	0425	1177986	1
Beta	U	-0.641	+/-1.49	2.66	+/-1.49	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-2-B3
Sample ID: 293779012
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.0168	+/-0.351	0.734	+/-0.351	3.60	pCi/Filter		BYS1	01/21/12	0556	1177986	1
Beta	U	-1.66	+/-1.43	2.64	+/-1.43	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-2-B1
Sample ID: 293779013
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.214	+/-0.396	0.738	+/-0.396	3.60	pCi/Filter	BYS1	01/21/12	1958	1177986	1
Beta	U	-1.05	+/-1.54	2.77	+/-1.54	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-2-B2
Sample ID: 293779014
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0616	+/-0.370	0.735	+/-0.370	3.60	pCi/Filter	BYS1	01/21/12	0629	1177986	1
Beta	U	-0.888	+/-1.48	2.66	+/-1.48	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-3-B11
Sample ID: 293779015
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0778	+/-0.369	0.736	+/-0.369	3.60	pCi/Filter	BYS1	01/21/12	0645	1177986	1
Beta	U	-1.1	+/-1.47	2.66	+/-1.47	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-3-B27
Sample ID: 293779016
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.297	+/-0.412	0.735	+/-0.412	3.60	pCi/Filter	BYS1	01/21/12	0701	1177986	1
Beta	U	-0.899	+/-1.47	2.66	+/-1.47	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-3-B25
Sample ID: 293779017
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.305	+/-0.412	0.736	+/-0.412	3.60	pCi/Filter	BYS1	01/21/12	0717	1177986	1
Beta	U	-1.01	+/-1.47	2.66	+/-1.47	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-3-B14
Sample ID: 293779018
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.460	+/-0.443	0.736	+/-0.443	3.60	pCi/Filter	BYS1	01/21/12	0733	1177986	1
Beta	U	-0.545	+/-1.50	2.66	+/-1.50	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-3-B15
Sample ID: 293779019
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.286	+/-0.400	0.734	+/-0.400	3.60	pCi/Filter	BYS1	01/21/12	0749	1177986	1
Beta	U	-1.37	+/-1.45	2.65	+/-1.45	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-3-B19
Sample ID: 293779020
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.491	+/-0.435	0.734	+/-0.435	3.60	pCi/Filter		BYS1	01/21/12	0806	1177986	1
Beta	U	-1.69	+/-1.43	2.65	+/-1.43	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: January 23, 2012

Page 1 of 2

Client : Tidewater, Inc.
7161 Columbia Gateway Drive -

Contact: Columbia, Maryland
Mr. Claude Wiblin

Workorder: 293779

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Liquid Scintillation									
Batch	1177986								
QC1202574813	LCS								
Alpha	21.4		24.4	pCi/Filter		114		BYS1	01/21/1220:14
	Uncert:		+/-2.04						
	TPU:		+/-2.07						
Beta	49.3		56.6	pCi/Filter		115			
	Uncert:		+/-3.33						
	TPU:		+/-3.45						
QC1202574814	LCS								
Alpha	21.4		23.3	pCi/Filter	4.7	109			01/21/1208:54
	Uncert:		+/-1.98						
	TPU:		+/-2.02						
Beta	49.3		49.9	pCi/Filter	12.7	101			
	Uncert:		+/-3.15						
	TPU:		+/-3.24						
QC1202574812	MB								
Alpha		U	0.633	pCi/Filter					01/21/1208:22
	Uncert:		+/-0.462						
	TPU:		+/-0.462						
Beta		U	-1.02	pCi/Filter					
	Uncert:		+/-1.47						
	TPU:		+/-1.47						

Notes:

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- M M if above MDC and less than LLD
- M Matrix Related Failure

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QC Summary

Workorder: 293779

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
N/A	RPD or %Recovery limits do not apply.									
N1	See case narrative									
ND	Analyte concentration is not detected above the detection limit									
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.									
R	Sample results are rejected									
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.									
UI	Gamma Spectroscopy--Uncertain identification									
UJ	Gamma Spectroscopy--Uncertain identification									
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.									
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Y	QC Samples were not spiked with this compound									
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.									
h	Preparation or preservation holding time was exceeded									

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

There are no "Data Exception Reports" associated with this analytical report.

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis Report for

TIDI002 Tidewater, Inc.

Client SDG: 293778 GEL Work Order: 293778

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Edith Kent.



Reviewed by

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-2-B19
Sample ID: 293778001
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.019	+/-0.447	0.863	+/-0.447	3.60	pCi/Filter	BYS1	01/21/12	0927	1177985	1
Beta	U	0.262	+/-1.40	2.43	+/-1.40	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-2-B28
Sample ID: 293778002
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.00821	+/-0.457	0.865	+/-0.457	3.60	pCi/Filter		BYS1	01/21/12	0943	1177985	1
Beta	U	0.570	+/-1.41	2.43	+/-1.41	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-2-B21
Sample ID: 293778003
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0544	+/-0.442	0.865	+/-0.442	3.60	pCi/Filter	BYS1	01/21/12	0959	1177985	1
Beta	U	0.107	+/-1.39	2.44	+/-1.39	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-2-B25
Sample ID: 293778004
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.317	+/-0.412	0.865	+/-0.412	3.60	pCi/Filter		BYS1	01/21/12	1015	1177985	1
Beta	U	1.21	+/-1.44	2.42	+/-1.44	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-2-B24
Sample ID: 293778005
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.0644	+/-0.464	0.866	+/-0.464	3.60	pCi/Filter		BYS1	01/21/12	1031	1177985	1
Beta	U	0.414	+/-1.41	2.44	+/-1.41	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-2-B18
Sample ID: 293778006
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.17	+/-0.427	0.865	+/-0.427	3.60	pCi/Filter		BYS1	01/21/12	1048	1177985	1
Beta	U	0.423	+/-1.40	2.42	+/-1.40	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-2-B29
Sample ID: 293778007
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0544	+/-0.442	0.866	+/-0.442	3.60	pCi/Filter	BYS1	01/21/12	1104	1177985	1
Beta	U	0.107	+/-1.39	2.44	+/-1.39	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-2-B22
Sample ID: 293778008
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.156	+/-0.427	0.865	+/-0.427	3.60	pCi/Filter	BYS1	01/21/12	1120	1177985	1
Beta	U	0.213	+/-1.37	2.40	+/-1.37	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-2-B8
Sample ID: 293778010
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.0317	+/-0.455	0.864	+/-0.455	3.60	pCi/Filter		BYS1	01/21/12	1136	1177985	1
Beta	U	0.208	+/-1.40	2.44	+/-1.40	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-2-B9
Sample ID: 293778011
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.20	+/-0.419	0.864	+/-0.419	3.60	pCi/Filter		BYS1	01/21/12	1152	1177985	1
Beta	U	0.164	+/-1.38	2.40	+/-1.38	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-2-B7
Sample ID: 293778013
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.40	+/-0.389	0.871	+/-0.389	3.60	pCi/Filter		BYS1	01/21/12	1208	1177985	1
Beta	U	0.274	+/-1.37	2.38	+/-1.37	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-2-B10
Sample ID: 293778014
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.123	+/-0.435	0.866	+/-0.435	3.60	pCi/Filter	BYS1	01/21/12	1225	1177985	1
Beta	U	0.423	+/-1.41	2.44	+/-1.41	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-1-B2
Sample ID: 293778015
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.36	+/-0.402	0.865	+/-0.402	3.60	pCi/Filter	BYS1	01/21/12	1241	1177985	1
Beta	U	1.11	+/-1.44	2.44	+/-1.44	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-1-B1
Sample ID: 293778016
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0749	+/-0.442	0.864	+/-0.442	3.60	pCi/Filter	BYS1	01/21/12	1257	1177985	1
Beta	U	0.417	+/-1.40	2.42	+/-1.40	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-1-B4
Sample ID: 293778017
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.489	+/-0.547	0.869	+/-0.547	3.60	pCi/Filter		BYS1	01/21/12	1313	1177985	1
Beta		2.85	+/-1.50	2.38	+/-1.50	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-1-B3
Sample ID: 293778018
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.0213	+/-0.450	0.865	+/-0.450	3.60	pCi/Filter		BYS1	01/21/12	1329	1177985	1
Beta	U	0.313	+/-1.40	2.43	+/-1.40	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-1-B6
Sample ID: 293778019
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.124	+/-0.434	0.866	+/-0.434	3.60	pCi/Filter	BYS1	01/21/12	1345	1177985	1
Beta	U	0.424	+/-1.41	2.44	+/-1.41	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 23, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-1-B7
Sample ID: 293778020
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0848	+/-0.453	0.862	+/-0.453	3.60	pCi/Filter	BYS1	01/21/12	1402	1177985	1
Beta	U	-0.527	+/-1.35	2.43	+/-1.35	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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QC Summary

Client : Tidewater, Inc.
7161 Columbia Gateway Drive -

Report Date: January 23, 2012
Page 1 of 2

Contact: Columbia, Maryland
Mr. Claude Wiblin

Workorder: 293778

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Liquid Scintillation									
Batch	1177985								
QC1202574810	LCS								
Alpha	21.4		24.8	pCi/Filter		116		BYS1	01/21/1214:34
	Uncert:		+/-2.06						
	TPU:		+/-2.10						
Beta	49.3		53.0	pCi/Filter		108			
	Uncert:		+/-3.16						
	TPU:		+/-3.27						
QC1202574811	LCS								
Alpha	21.4		25.1	pCi/Filter	1.14	117			01/21/1214:50
	Uncert:		+/-2.08						
	TPU:		+/-2.12						
Beta	49.3		57.0	pCi/Filter	7.18	116			
	Uncert:		+/-3.25						
	TPU:		+/-3.37						
QC1202574809	MB								
Alpha		U	0.413	pCi/Filter					01/21/1214:18
	Uncert:		+/-0.509						
	TPU:		+/-0.509						
Beta		U	0.085	pCi/Filter					
	Uncert:		+/-1.39						
	TPU:		+/-1.39						

Notes:

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- M M if above MDC and less than LLD
- M Matrix Related Failure

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QC Summary

Workorder: 293778

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
N/A	RPD or %Recovery limits do not apply.									
N1	See case narrative									
ND	Analyte concentration is not detected above the detection limit									
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.									
R	Sample results are rejected									
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.									
UI	Gamma Spectroscopy--Uncertain identification									
UJ	Gamma Spectroscopy--Uncertain identification									
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.									
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Y	QC Samples were not spiked with this compound									
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.									
h	Preparation or preservation holding time was exceeded									

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

There are no "Data Exception Reports" associated with this analytical report.

GEL LABORATORIES LLC

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Certificate of Analysis Report for

TIDI002 Tidewater, Inc.

Client SDG: 293780 GEL Work Order: 293780

The Qualifiers in this report are defined as follows:

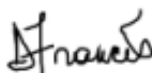
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Edith Kent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-3-B26
Sample ID: 293780001
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.435	+/-0.435	0.936	+/-0.435	3.60	pCi/Filter	BYS1	01/13/12	1156	1177987	1
Beta	U	0.856	+/-1.44	2.45	+/-1.44	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-3-B23
Sample ID: 293780002
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0573	+/-0.498	0.935	+/-0.498	3.60	pCi/Filter	BYS1	01/13/12	1213	1177987	1
Beta	U	1.46	+/-1.47	2.45	+/-1.47	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-3-B30
Sample ID: 293780003
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0797	+/-0.485	0.936	+/-0.485	3.60	pCi/Filter	BYS1	01/13/12	1229	1177987	1
Beta	U	0.472	+/-1.42	2.45	+/-1.42	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-3-B7
Sample ID: 293780004
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.501	+/-0.417	0.933	+/-0.417	3.60	pCi/Filter	BYS1	01/13/12	1245	1177987	1
Beta	U	0.494	+/-1.42	2.44	+/-1.42	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-3-B8
Sample ID: 293780005
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0597	+/-0.511	0.935	+/-0.511	3.60	pCi/Filter	BYS1	01/13/12	1301	1177987	1
Beta	U	1.14	+/-1.45	2.45	+/-1.45	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-3-B4
Sample ID: 293780006
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0583	+/-0.478	0.935	+/-0.478	3.60	pCi/Filter	BYS1	01/13/12	1317	1177987	1
Beta	U	-0.564	+/-1.34	2.41	+/-1.34	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-3-B1
Sample ID: 293780007
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0301	+/-0.499	0.935	+/-0.499	3.60	pCi/Filter	BYS1	01/13/12	1333	1177987	1
Beta	U	0.257	+/-1.39	2.42	+/-1.39	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-3
Sample ID: 293780008
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.232	+/-0.462	0.933	+/-0.462	3.60	pCi/Filter	BYS1	01/13/12	1349	1177987	1
Beta	U	0.639	+/-1.42	2.44	+/-1.42	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-3-B5
Sample ID: 293780009
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.294	+/-0.450	0.935	+/-0.450	3.60	pCi/Filter	BYS1	01/13/12	1406	1177987	1
Beta	U	0.171	+/-1.40	2.44	+/-1.40	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-3-B2
Sample ID: 293780010
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.355	+/-0.435	0.936	+/-0.435	3.60	pCi/Filter	BYS1	01/13/12	1422	1177987	1
Beta	U	-0.395	+/-1.34	2.40	+/-1.34	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-3-B3
Sample ID: 293780011
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.387	+/-0.484	1.03	+/-0.484	3.60	pCi/Filter	BYS1	01/13/12	1438	1177987	1
Beta	U	-0.531	+/-1.36	2.45	+/-1.36	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU7-B-2-B1
Sample ID: 293780012
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0286	+/-0.498	0.936	+/-0.498	3.60	pCi/Filter	BYS1	01/13/12	1454	1177987	1
Beta	U	0.259	+/-1.41	2.45	+/-1.41	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU1-1-R1
Sample ID: 293780013
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.409	+/-0.435	0.936	+/-0.435	3.60	pCi/Filter	BYS1	01/13/12	1510	1177987	1
Beta	U	0.491	+/-1.42	2.45	+/-1.42	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU1-1-R9
Sample ID: 293780014
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.17	+/-0.471	0.936	+/-0.471	3.60	pCi/Filter		BYS1	01/13/12	1526	1177987	1
Beta	U	0.426	+/-1.42	2.45	+/-1.42	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU7-B-2-R4
Sample ID: 293780015
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.45	+/-0.435	0.935	+/-0.435	3.60	pCi/Filter	BYS1	01/13/12	1543	1177987	1
Beta	U	1.10	+/-1.43	2.41	+/-1.43	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU7-B-2-R12
Sample ID: 293780016
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.272	+/-0.450	0.935	+/-0.450	3.60	pCi/Filter	BYS1	01/13/12	1559	1177987	1
Beta	U	-0.193	+/-1.36	2.40	+/-1.36	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU7-B-1-R6
Sample ID: 293780017
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.186	+/-0.460	0.932	+/-0.460	3.60	pCi/Filter	BYS1	01/13/12	1615	1177987	1
Beta	U	0.0082	+/-1.39	2.44	+/-1.39	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU7-B-1-R9
Sample ID: 293780018
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.101	+/-0.479	0.936	+/-0.479	3.60	pCi/Filter		BYS1	01/13/12	1631	1177987	1
Beta	U	0.109	+/-1.40	2.45	+/-1.40	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU7-B-6-R3
Sample ID: 293780019
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.297	+/-0.449	0.935	+/-0.449	3.60	pCi/Filter		BYS1	01/13/12	1647	1177987	1
Beta	U	0.224	+/-1.41	2.45	+/-1.41	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU7-B-6-R13
Sample ID: 293780020
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.00746	+/-0.485	0.936	+/-0.485	3.60	pCi/Filter	BYS1	01/13/12	1703	1177987	1
Beta	U	-0.572	+/-1.36	2.45	+/-1.36	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Client : Tidewater, Inc.
7161 Columbia Gateway Drive -

Report Date: January 25, 2012
Page 1 of 2

Contact: Columbia, Maryland
Mr. Claude Wiblin

Workorder: 293780

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Liquid Scintillation										
Batch	1177987									
QC1202574816	LCS									
Alpha	21.4		21.0	pCi/Filter		98		BYS1	01/13/12	17:36
	Uncert:		+/-1.94							
	TPU:		+/-1.97							
Beta	49.3		54.7	pCi/Filter		111				
	Uncert:		+/-3.20							
	TPU:		+/-3.31							
QC1202574817	LCSD									
Alpha	21.4		20.7	pCi/Filter	1.26	96.8			01/13/12	17:52
	Uncert:		+/-1.94							
	TPU:		+/-1.96							
Beta	49.3		56.5	pCi/Filter	3.2	115				
	Uncert:		+/-3.24							
	TPU:		+/-3.35							
QC1202574815	MB									
Alpha		U	-0.319	pCi/Filter					01/13/12	17:19
	Uncert:		+/-0.439							
	TPU:		+/-0.439							
Beta		U	-0.0897	pCi/Filter						
	Uncert:		+/-1.38							
	TPU:		+/-1.38							

Notes:

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- M M if above MDC and less than LLD
- M Matrix Related Failure

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QC Summary

Workorder: 293780

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
N/A	RPD or %Recovery limits do not apply.									
N1	See case narrative									
ND	Analyte concentration is not detected above the detection limit									
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.									
R	Sample results are rejected									
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.									
UI	Gamma Spectroscopy--Uncertain identification									
UJ	Gamma Spectroscopy--Uncertain identification									
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.									
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Y	QC Samples were not spiked with this compound									
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.									
h	Preparation or preservation holding time was exceeded									

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

There are no "Data Exception Reports" associated with this analytical report.

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Certificate of Analysis Report for

TIDI002 Tidewater, Inc.

Client SDG: 293744 GEL Work Order: 293744

The Qualifiers in this report are defined as follows:

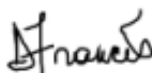
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Edith Kent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-1
Sample ID: 293744001
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.242	+/-0.393	0.735	+/-0.393	3.60	pCi/Filter	BYS1	01/14/12	0948	1177964	1
Beta	U	-1.42	+/-1.43	2.63	+/-1.43	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B1-B1
Sample ID: 293744002
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	UJ	-4.22	+/-23.2	19.7	+/-23.2	3.60	pCi/Filter	BYS1	01/24/12	1447	1181650	1
Beta	UJ	1.61	+/-19.6	36.4	+/-19.6	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B1-B2
Sample ID: 293744003
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.162	+/-0.386	0.733	+/-0.386	3.60	pCi/Filter	BYS1	01/14/12	1020	1177964	1
Beta	U	-1.04	+/-1.43	2.59	+/-1.43	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B1-R8
Sample ID: 293744004
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.333	+/-0.415	0.733	+/-0.416	3.60	pCi/Filter		BYS1	01/14/12	1036	1177964	1
Beta	U	-0.747	+/-1.46	2.62	+/-1.46	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B1-R11
Sample ID: 293744005
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.174	+/-0.396	0.734	+/-0.396	3.60	pCi/Filter	BYS1	01/14/12	1052	1177964	1
Beta	U	-0.477	+/-1.48	2.63	+/-1.48	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B2-R9
Sample ID: 293744006
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0414	+/-0.367	0.735	+/-0.367	3.60	pCi/Filter	BYS1	01/14/12	1108	1177964	1
Beta	U	-0.577	+/-1.48	2.63	+/-1.48	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B2-R11
Sample ID: 293744007
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.00721	+/-0.370	0.735	+/-0.370	3.60	pCi/Filter		BYS1	01/14/12	1124	1177964	1
Beta	U	-0.104	+/-1.50	2.63	+/-1.50	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

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Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B3-R3
Sample ID: 293744008
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.312	+/-0.411	0.735	+/-0.412	3.60	pCi/Filter	BYS1	01/14/12	1141	1177964	1
Beta	U	-1.11	+/-1.45	2.64	+/-1.45	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

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Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B3-R10
Sample ID: 293744009
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.362	+/-0.427	0.735	+/-0.427	3.60	pCi/Filter	BYS1	01/14/12	1157	1177964	1
Beta	U	-0.488	+/-1.48	2.64	+/-1.48	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-M1-R3
Sample ID: 293744010
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.101	+/-0.434	0.865	+/-0.434	3.60	pCi/Filter		BYS1	01/16/12	1109	1177964	1
Beta	U	0.110	+/-1.38	2.41	+/-1.38	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-M1-R10
Sample ID: 293744011
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0268	+/-0.350	0.735	+/-0.350	3.60	pCi/Filter	BYS1	01/14/12	1229	1177964	1
Beta	U	-0.938	+/-1.46	2.64	+/-1.46	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-M2-R4
Sample ID: 293744012
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.0362	+/-0.351	0.734	+/-0.351	3.60	pCi/Filter		BYS1	01/14/12	1245	1177964	1
Beta	U	-0.923	+/-1.43	2.58	+/-1.43	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-M2-R10
Sample ID: 293744013
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.489	+/-0.443	0.735	+/-0.443	3.60	pCi/Filter		BYS1	01/14/12	1302	1177964	1
Beta	U	-0.963	+/-1.46	2.64	+/-1.46	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-G1-R4
Sample ID: 293744014
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.316	+/-0.411	0.733	+/-0.412	3.60	pCi/Filter	BYS1	01/14/12	1318	1177964	1
Beta	U	-1.21	+/-1.43	2.62	+/-1.43	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-G1-R13
Sample ID: 293744015
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.146	+/-0.385	0.734	+/-0.385	3.60	pCi/Filter	BYS1	01/14/12	1334	1177964	1
Beta	U	-0.739	+/-1.47	2.63	+/-1.47	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-G2-R10
Sample ID: 293744016
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.202	+/-0.385	0.735	+/-0.385	3.60	pCi/Filter		BYS1	01/14/12	1350	1177964	1
Beta	U	-1.52	+/-1.43	2.64	+/-1.43	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-G2-R11
Sample ID: 293744017
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.381	+/-0.428	0.735	+/-0.428	3.60	pCi/Filter		BYS1	01/14/12	1406	1177964	1
Beta	U	-0.749	+/-1.47	2.63	+/-1.47	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-G2A-R3
Sample ID: 293744018
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.369	+/-0.410	0.735	+/-0.410	3.60	pCi/Filter	BYS1	01/14/12	1422	1177964	1
Beta	U	-1.9	+/-1.41	2.63	+/-1.41	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-G2A-R6
Sample ID: 293744019
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.387	+/-0.428	0.735	+/-0.428	3.60	pCi/Filter	BYS1	01/14/12	1438	1177964	1
Beta	U	-0.852	+/-1.46	2.63	+/-1.46	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-G3-R3
Sample ID: 293744020
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.324	+/-0.410	0.735	+/-0.410	3.60	pCi/Filter		BYS1	01/14/12	1455	1177964	1
Beta	U	-1.27	+/-1.44	2.63	+/-1.44	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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QC Summary

Report Date: January 25, 2012

Page 1 of 2

Client : Tidewater, Inc.
7161 Columbia Gateway Drive -

Contact: Columbia, Maryland
Mr. Claude Wiblin

Workorder: 293744

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Liquid Scintillation									
Batch	1177964								
QC1202574753	LCS								
Alpha	21.4		21.2	pCi/Filter		99.1		BYS1	01/14/1215:27
	Uncert:		+/-1.92						
	TPU:		+/-1.95						
Beta	49.3		54.6	pCi/Filter		111			
	Uncert:		+/-3.24						
	TPU:		+/-3.35						
QC1202574754	LCSD								
Alpha	21.4		21.8	pCi/Filter	2.89	102			01/14/1215:43
	Uncert:		+/-1.94						
	TPU:		+/-1.97						
Beta	49.3		52.2	pCi/Filter	4.62	106			
	Uncert:		+/-3.19						
	TPU:		+/-3.29						
QC1202574752	MB								
Alpha		U	0.556	pCi/Filter					01/14/1215:11
	Uncert:		+/-0.455						
	TPU:		+/-0.455						
Beta		U	-0.602	pCi/Filter					
	Uncert:		+/-1.47						
	TPU:		+/-1.47						
Batch	1181650								
QC1202583569	LCS								
Alpha	21.4		23.9	pCi/Filter		112		BYS1	01/24/1219:38
	Uncert:		+/-2.04						
	TPU:		+/-2.08						
Beta	49.3		53.1	pCi/Filter		108			
	Uncert:		+/-3.14						
	TPU:		+/-3.25						
QC1202583570	LCSD								
Alpha	21.4		23.8	pCi/Filter	.245	111			01/24/1219:54
	Uncert:		+/-2.04						
	TPU:		+/-2.07						
Beta	49.3		50.6	pCi/Filter	4.72	103			
	Uncert:		+/-3.08						
	TPU:		+/-3.18						
QC1202583568	MB								
Alpha		U	-0.0468	pCi/Filter					01/24/1219:21
	Uncert:		+/-0.522						
	TPU:		+/-0.522						
Beta		U	0.00227	pCi/Filter					
	Uncert:		+/-1.35						
	TPU:		+/-1.35						

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QC Summary

Workorder: 293744

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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Notes:

The Qualifiers in this report are defined as follows:

**	Analyte is a surrogate compound
<	Result is less than value reported
>	Result is greater than value reported
A	The TIC is a suspected aldol-condensation product
B	For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD	Results are either below the MDC or tracer recovery is low
C	Analyte has been confirmed by GC/MS analysis
D	Results are reported from a diluted aliquot of the sample
F	Estimated Value
H	Analytical holding time was exceeded
J	Value is estimated
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
M	M if above MDC and less than LLD
M	Matrix Related Failure
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI	Gamma Spectroscopy--Uncertain identification
UJ	Gamma Spectroscopy--Uncertain identification
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	QC Samples were not spiked with this compound
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

DATA EXCEPTION REPORT			
Mo.Day Yr. 25-JAN-12	Division: Radiochemistry	Quality Criteria: Specifications	Type: Process
Instrument Type: LSC	Test / Method: EPA 900.0/SW846 9310/SM 7110B Modified	Matrix Type: Filter	Client Code: TIDI
Batch ID: 1181650	Sample Numbers: see below		
Potentially affected work order(s)(SDG): 293744,293753,293758,293763,293765,293767,293768,293769,293770,293771,293772,293773 Application Issues: RDL less than MDA Other			
Specification and Requirements		DER Disposition:	
Exception Description:			
1. The alpha and beta efficiencies and crosstalks for samples 293744002(SU54-B1-B1), 293753014, 293758003, 293763002, 293765009, 293765017, 293767006, 293767008, 293767017, 293767019, 293768004, 293769009, 293770005, 293771005, 293772018, 293773014, and 293773018 were determined by extrapolating the quench curves past the calibration quench range. The samples' results are estimates. 2. The alpha and beta efficiencies and crosstalks for sample 293773014 were obtained from sample 293744002(SU54-B1-B1), which had the closest quench value to sample 293773014. The sample's results are estimates. 3. Samples 293744002(SU54-B1-B1), 293758003, 293773014 did not meet the alpha or beta required detection limits due to the quench numbers being outside the calibration range.		1. Reporting results. 2. Reporting results. 3. Reporting results.	

Originator's Name:

Jennifer Oliver 25-JAN-12

Data Validator/Group Leader:

Lyndsey Pace 25-JAN-12

GEL LABORATORIES LLC

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Certificate of Analysis Report for

TIDI002 Tidewater, Inc.

Client SDG: 294527 GEL Work Order: 294527

The Qualifiers in this report are defined as follows:

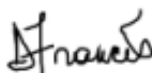
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Edith Kent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-3-B10
Sample ID: 294527001
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.00136	+/-0.409	0.814	+/-0.409	3.60	pCi/Filter	BYS1	01/21/12	1523	1181056	1
Beta	U	-0.627	+/-1.38	2.48	+/-1.38	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-3-B12
Sample ID: 294527002
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0765	+/-0.411	0.816	+/-0.411	3.60	pCi/Filter		BYS1	01/21/12	1539	1181056	1
Beta	U	0.421	+/-1.44	2.49	+/-1.44	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-3-B17
Sample ID: 294527003
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.173	+/-0.395	0.814	+/-0.395	3.60	pCi/Filter		BYS1	01/21/12	1555	1181056	1
Beta	U	0.475	+/-1.43	2.47	+/-1.43	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-3-B31
Sample ID: 294527004
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	UJ	-0.0449	+/-0.653	1.20	+/-0.653	3.60	pCi/Filter	BYS1	01/24/12	1325	1181652	2
Beta	UJ	-1.11	+/-1.51	2.76	+/-1.51	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified
2	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-2-B16
Sample ID: 294527005
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.224	+/-0.377	0.816	+/-0.377	3.60	pCi/Filter	BYS1	01/21/12	1627	1181056	1
Beta	U	-0.145	+/-1.41	2.49	+/-1.41	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B2-B9
Sample ID: 294527006
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.184	+/-0.449	0.816	+/-0.449	3.60	pCi/Filter		BYS1	01/21/12	1643	1181056	1
Beta	U	0.0425	+/-1.42	2.49	+/-1.42	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU-2-7-2-B8
Sample ID: 294527007
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.196	+/-0.395	0.816	+/-0.395	3.60	pCi/Filter		BYS1	01/21/12	1659	1181056	1
Beta	U	0.792	+/-1.46	2.49	+/-1.46	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-2-B27
Sample ID: 294527008
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.163	+/-0.393	0.815	+/-0.393	3.60	pCi/Filter	BYS1	01/21/12	1715	1181056	1
Beta	U	0.322	+/-1.43	2.48	+/-1.43	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: January 25, 2012

Page 1 of 2

Client : Tidewater, Inc.
7161 Columbia Gateway Drive -

Contact: Columbia, Maryland
Mr. Claude Wiblin

Workorder: 294527

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Liquid Scintillation									
Batch	1181056								
QC1202582416	LCS								
Alpha	21.4		23.2	pCi/Filter		108		BYS1	01/21/1217:47
	Uncert:		+/-2.00						
	TPU:		+/-2.03						
Beta	49.3		52.3	pCi/Filter		106			
	Uncert:		+/-3.15						
	TPU:		+/-3.26						
QC1202582417	LCSD								
Alpha	21.4		25.3	pCi/Filter	8.76	118			01/21/1218:04
	Uncert:		+/-2.07						
	TPU:		+/-2.11						
Beta	49.3		53.2	pCi/Filter	1.69	108			
	Uncert:		+/-3.18						
	TPU:		+/-3.28						
QC1202582415	MB								
Alpha		U	0.515	pCi/Filter					01/21/1217:31
	Uncert:		+/-0.503						
	TPU:		+/-0.503						
Beta		U	0.603	pCi/Filter					
	Uncert:		+/-1.45						
	TPU:		+/-1.45						
Batch	1181652								
QC1202583576	LCS								
Alpha	21.4		25.6	pCi/Filter		120		BYS1	01/24/1213:58
	Uncert:		+/-2.10						
	TPU:		+/-2.13						
Beta	49.3		51.3	pCi/Filter		104			
	Uncert:		+/-3.15						
	TPU:		+/-3.25						
QC1202583577	LCSD								
Alpha	21.4		24.7	pCi/Filter	3.62	116			01/24/1214:14
	Uncert:		+/-2.07						
	TPU:		+/-2.11						
Beta	49.3		53.3	pCi/Filter	3.82	108			
	Uncert:		+/-3.19						
	TPU:		+/-3.30						
QC1202583575	MB								
Alpha		U	0.146	pCi/Filter					01/24/1213:41
	Uncert:		+/-0.516						
	TPU:		+/-0.516						
Beta		U	-0.739	pCi/Filter					
	Uncert:		+/-1.41						
	TPU:		+/-1.41						

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QC Summary

Workorder: 294527

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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Notes:

The Qualifiers in this report are defined as follows:

**	Analyte is a surrogate compound
<	Result is less than value reported
>	Result is greater than value reported
A	The TIC is a suspected aldol-condensation product
B	For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD	Results are either below the MDC or tracer recovery is low
C	Analyte has been confirmed by GC/MS analysis
D	Results are reported from a diluted aliquot of the sample
F	Estimated Value
H	Analytical holding time was exceeded
J	Value is estimated
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
M	M if above MDC and less than LLD
M	Matrix Related Failure
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI	Gamma Spectroscopy--Uncertain identification
UJ	Gamma Spectroscopy--Uncertain identification
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	QC Samples were not spiked with this compound
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

DATA EXCEPTION REPORT

Mo.Day Yr. 25–JAN–12	Division: Radiochemistry	Quality Criteria: Specifications	Type: Process
Instrument Type: LSC	Test / Method: EPA 900.0/SW846 9310/SM 7110B Modified	Matrix Type: Filter	Client Code: TIDI
Batch ID: 1181652	Sample Numbers: See Below		

Potentially affected work order(s)(SDG): 293775,293780,293781,293783,293785,293787,293790,293791,293797,294527

Application Issues:

Other

Result is more negative than the three sigma TPU

Specification and Requirements Exception Description:	DER Disposition:
<p>1. The alpha and beta efficiencies and cross–talks for samples 293775017, 293781008, 293783002, 293785006, 293787002, 293790012, 293791001, 293791002, 293797006, and 294527004(SU54–5–3–B31) were determined by extrapolating the quench curves past the calibration quench range. The samples' results are estimates.</p> <p>2. The alpha and beta efficiencies and cross–talks for samples 293791001 and 293791002 were obtained from sample 293781008, which had the closest quench value to samples 293791001 and 293791002. The samples' results are estimates.</p> <p>3. Samples 293791001 and 293791002 have negative beta activities that are greater than three times the absolute value of the 1–sigma TPU due to their quench numbers being outside the calibration range.</p>	<p>1. Reporting results.</p> <p>2. Reporting results.</p> <p>3. Reporting results.</p>

Originator's Name:

Jennifer Oliver

25–JAN–12

Data Validator/Group Leader:

Lyndsey Pace

25–JAN–12

GEL LABORATORIES LLC

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Certificate of Analysis Report for

TIDI002 Tidewater, Inc.

Client SDG: 293765 GEL Work Order: 293765

The Qualifiers in this report are defined as follows:

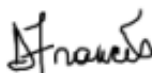
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Edith Kent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-2-3-B4
Sample ID: 293765001
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0496	+/-0.464	0.915	+/-0.464	3.60	pCi/Filter	BYS1	01/20/12	0335	1177973	1
Beta	U	-0.623	+/-1.46	2.61	+/-1.46	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-2-3-B11
Sample ID: 293765002
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0997	+/-0.456	0.915	+/-0.456	3.60	pCi/Filter	BYS1	01/20/12	0351	1177973	1
Beta	U	-0.569	+/-1.46	2.61	+/-1.46	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-2-3-B12
Sample ID: 293765003
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0817	+/-0.465	0.914	+/-0.465	3.60	pCi/Filter	BYS1	01/20/12	0407	1177973	1
Beta	U	-0.202	+/-1.45	2.56	+/-1.45	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-2-3-B8
Sample ID: 293765004
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0454	+/-0.482	0.921	+/-0.482	3.60	pCi/Filter	BYS1	01/20/12	0423	1177973	1
Beta	U	-0.719	+/-1.42	2.55	+/-1.42	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-2-3-B10
Sample ID: 293765005
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.036	+/-0.479	0.915	+/-0.479	3.60	pCi/Filter	BYS1	01/20/12	0439	1177973	1
Beta	U	-0.522	+/-1.46	2.61	+/-1.46	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
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Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-1-B1
Sample ID: 293765006
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0225	+/-0.465	0.915	+/-0.465	3.60	pCi/Filter	BYS1	01/20/12	0456	1177973	1
Beta	U	-1.04	+/-1.44	2.61	+/-1.44	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

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Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-1-B3
Sample ID: 293765007
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0592	+/-0.461	0.913	+/-0.461	3.60	pCi/Filter	BYS1	01/20/12	0512	1177973	1
Beta	U	-0.468	+/-1.46	2.60	+/-1.46	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-1-B12
Sample ID: 293765008
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0788	+/-0.491	0.914	+/-0.491	3.60	pCi/Filter		BYS1	01/20/12	0528	1177973	1
Beta	U	0.205	+/-1.50	2.61	+/-1.50	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
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1 EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-1-B9
Sample ID: 293765009
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	UJ	-0.389	+/-2.21	2.71	+/-2.21	3.60	pCi/Filter	BYS1	01/24/12	1551	1181650	1
Beta	UJ	1.13	+/-2.97	5.08	+/-2.97	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-1-B8
Sample ID: 293765010
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.0926	+/-0.549	0.992	+/-0.549	3.60	pCi/Filter		BYS1	01/20/12	0600	1177973	1
Beta	U	1.01	+/-1.53	2.60	+/-1.53	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-1-B5
Sample ID: 293765011
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.232	+/-0.433	0.914	+/-0.433	3.60	pCi/Filter		BYS1	01/20/12	0616	1177973	1
Beta	U	-0.668	+/-1.45	2.61	+/-1.45	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-1-B15
Sample ID: 293765012
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.0763	+/-0.570	1.03	+/-0.570	3.60	pCi/Filter		BYS1	01/20/12	0632	1177973	1
Beta	U	0.501	+/-1.54	2.65	+/-1.54	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-1-B17
Sample ID: 293765013
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.331	+/-0.538	0.924	+/-0.538	3.60	pCi/Filter		BYS1	01/20/12	0648	1177973	1
Beta	U	0.856	+/-1.49	2.54	+/-1.49	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-1-B16
Sample ID: 293765014
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.0891	+/-0.459	0.910	+/-0.459	3.60	pCi/Filter		BYS1	01/20/12	0704	1177973	1
Beta	U	-0.0487	+/-1.48	2.59	+/-1.48	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-1
Sample ID: 293765015
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.0566	+/-0.476	0.914	+/-0.476	3.60	pCi/Filter		BYS1	01/20/12	0720	1177973	1
Beta	U	-0.787	+/-1.45	2.61	+/-1.45	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-1-B7
Sample ID: 293765016
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.124	+/-0.491	0.914	+/-0.491	3.60	pCi/Filter		BYS1	01/20/12	0736	1177973	1
Beta	U	-0.424	+/-1.47	2.61	+/-1.47	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-1-B10
Sample ID: 293765017
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	UJ	-0.261	+/-0.726	1.33	+/-0.726	3.60	pCi/Filter	BYS1	01/24/12	1607	1181650	1
Beta	UJ	0.0916	+/-1.53	2.70	+/-1.53	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-1-B11
Sample ID: 293765018
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0863	+/-0.518	1.00	+/-0.518	3.60	pCi/Filter		BYS1	01/20/12	0809	1177973	1
Beta	U	-0.299	+/-1.48	2.61	+/-1.48	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-1-B14
Sample ID: 293765019
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.229	+/-0.514	0.917	+/-0.514	3.60	pCi/Filter		BYS1	01/20/12	0825	1177973	1
Beta	U	0.144	+/-1.46	2.55	+/-1.46	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-2
Sample ID: 293765020
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.172	+/-0.449	0.914	+/-0.449	3.60	pCi/Filter	BYS1	01/20/12	0841	1177973	1
Beta	U	-0.20	+/-1.48	2.61	+/-1.48	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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QC Summary

Report Date: January 25, 2012

Page 1 of 2

Client : Tidewater, Inc.
7161 Columbia Gateway Drive -

Contact: Columbia, Maryland
Mr. Claude Wiblin

Workorder: 293765

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Liquid Scintillation									
Batch	1177973								
QC1202574780	LCS								
Alpha	21.4		24.9	pCi/Filter		116		BYS1	01/20/1209:13
	Uncert:		+/-2.07						
	TPU:		+/-2.11						
Beta	49.3		53.2	pCi/Filter		108			
	Uncert:		+/-3.21						
	TPU:		+/-3.32						
QC1202574781	LCSD								
Alpha	21.4		23.7	pCi/Filter	4.76	111			01/20/1209:29
	Uncert:		+/-2.03						
	TPU:		+/-2.06						
Beta	49.3		53.3	pCi/Filter	.265	108			
	Uncert:		+/-3.21						
	TPU:		+/-3.32						
QC1202574779	MB								
Alpha		U	0.0505	pCi/Filter					01/20/1208:57
	Uncert:		+/-0.482						
	TPU:		+/-0.482						
Beta		U	-0.0547	pCi/Filter					
	Uncert:		+/-1.48						
	TPU:		+/-1.48						
Batch	1181650								
QC1202583569	LCS								
Alpha	21.4		23.9	pCi/Filter		112		BYS1	01/24/1219:38
	Uncert:		+/-2.04						
	TPU:		+/-2.08						
Beta	49.3		53.1	pCi/Filter		108			
	Uncert:		+/-3.14						
	TPU:		+/-3.25						
QC1202583570	LCSD								
Alpha	21.4		23.8	pCi/Filter	.245	111			01/24/1219:54
	Uncert:		+/-2.04						
	TPU:		+/-2.07						
Beta	49.3		50.6	pCi/Filter	4.72	103			
	Uncert:		+/-3.08						
	TPU:		+/-3.18						
QC1202583568	MB								
Alpha		U	-0.0468	pCi/Filter					01/24/1219:21
	Uncert:		+/-0.522						
	TPU:		+/-0.522						
Beta		U	0.00227	pCi/Filter					
	Uncert:		+/-1.35						
	TPU:		+/-1.35						

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QC Summary

Workorder: 293765

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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Notes:

The Qualifiers in this report are defined as follows:

**	Analyte is a surrogate compound
<	Result is less than value reported
>	Result is greater than value reported
A	The TIC is a suspected aldol-condensation product
B	For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD	Results are either below the MDC or tracer recovery is low
C	Analyte has been confirmed by GC/MS analysis
D	Results are reported from a diluted aliquot of the sample
F	Estimated Value
H	Analytical holding time was exceeded
J	Value is estimated
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
M	M if above MDC and less than LLD
M	Matrix Related Failure
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI	Gamma Spectroscopy--Uncertain identification
UJ	Gamma Spectroscopy--Uncertain identification
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	QC Samples were not spiked with this compound
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

DATA EXCEPTION REPORT			
Mo.Day Yr. 25-JAN-12	Division: Radiochemistry	Quality Criteria: Specifications	Type: Process
Instrument Type: LSC	Test / Method: EPA 900.0/SW846 9310/SM 7110B Modified	Matrix Type: Filter	Client Code: TIDI
Batch ID: 1181650	Sample Numbers: see below		
Potentially affected work order(s)(SDG): 293744,293753,293758,293763,293765,293767,293768,293769,293770,293771,293772,293773 Application Issues: RDL less than MDA Other			
Specification and Requirements		DER Disposition:	
Exception Description:			
1. The alpha and beta efficiencies and crosstalks for samples 293744002, 293753014, 293758003, 293763002, 293765009(SU54-3-1-B9), 293765017(SU54-3-1-B10), 293767006, 293767008, 293767017, 293767019, 293768004, 293769009, 293770005, 293771005, 293772018, 293773014, and 293773018 were determined by extrapolating the quench curves past the calibration quench range. The samples' results are estimates. 2. The alpha and beta efficiencies and crosstalks for sample 293773014 were obtained from sample 293744002, which had the closest quench value to sample 293773014. The sample's results are estimates. 3. Samples 293744002, 293758003, 293773014 did not meet the alpha or beta required detection limits due to the quench numbers being outside the calibration range.		1. Reporting results. 2. Reporting results. 3. Reporting results.	

Originator's Name:

Jennifer Oliver 25-JAN-12

Data Validator/Group Leader:

Lyndsey Pace 25-JAN-12

GEL LABORATORIES LLC

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Certificate of Analysis Report for

TIDI002 Tidewater, Inc.

Client SDG: 293781 GEL Work Order: 293781

The Qualifiers in this report are defined as follows:

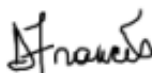
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Edith Kent.

Reviewed by



GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-1-1-B1
Sample ID: 293781001
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.178	+/-0.457	0.913	+/-0.457	3.60	pCi/Filter	BYS1	01/16/12	2212	1177988	1
Beta	U	0.530	+/-1.40	2.41	+/-1.40	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-1-1-B2
Sample ID: 293781002
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.0397	+/-0.471	0.913	+/-0.471	3.60	pCi/Filter		BYS1	01/16/12	2228	1177988	1
Beta	U	-0.102	+/-1.37	2.41	+/-1.37	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-1-1-B3
Sample ID: 293781003
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0757	+/-0.492	0.913	+/-0.492	3.60	pCi/Filter	BYS1	01/16/12	2244	1177988	1
Beta	U	0.257	+/-1.39	2.41	+/-1.39	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU7-B-1-B1
Sample ID: 293781004
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0952	+/-0.465	0.913	+/-0.465	3.60	pCi/Filter	BYS1	01/16/12	2300	1177988	1
Beta	U	0.0043	+/-1.34	2.36	+/-1.34	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU7-B-1-B2
Sample ID: 293781005
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.338	+/-0.535	0.918	+/-0.535	3.60	pCi/Filter	BYS1	01/16/12	2317	1177988	1
Beta	U	0.703	+/-1.38	2.35	+/-1.38	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: Vac-Bldg-54
Sample ID: 293781006
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0105	+/-0.518	0.932	+/-0.518	3.60	pCi/Filter	BYS1	01/16/12	2333	1177988	1
Beta		2.96	+/-1.49	2.35	+/-1.49	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: Vac-Bldg-2
Sample ID: 293781007
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.0825	+/-0.508	0.962	+/-0.508	3.60	pCi/Filter		BYS1	01/16/12	2349	1177988	1
Beta	U	1.33	+/-1.42	2.37	+/-1.42	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: Vac-Bldg-7
Sample ID: 293781008
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	UJ	1.27	+/-3.16	3.41	+/-3.16	3.60	pCi/Filter		BYS1	01/24/12	1116	1181652	1
Beta	UJ	-2.99	+/-3.62	7.07	+/-3.62	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: RM 3046
Sample ID: 293781009
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha		2.01	+/-0.744	0.913	+/-0.745	3.60	pCi/Filter		BYS1	01/17/12	0021	1177988	1
Beta		4.11	+/-1.58	2.41	+/-1.59	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: 54-2093 Chase
Sample ID: 293781010
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.094	+/-0.499	0.913	+/-0.499	3.60	pCi/Filter		BYS1	01/17/12	0037	1177988	1
Beta	U	0.672	+/-1.41	2.41	+/-1.41	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: 54-3046-Pipe
Sample ID: 293781011
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha		5.57	+/-1.07	0.943	+/-1.07	3.60	pCi/Filter		BYS1	01/17/12	0053	1177988	1
Beta		10.4	+/-1.83	2.35	+/-1.83	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: 54-2094-Pipe
Sample ID: 293781012
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.186	+/-0.505	0.912	+/-0.505	3.60	pCi/Filter		BYS1	01/17/12	0109	1177988	1
Beta	U	0.0421	+/-1.36	2.39	+/-1.36	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: Bldg2-Roof1
Sample ID: 293781013
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.240	+/-0.512	0.912	+/-0.512	3.60	pCi/Filter		BYS1	01/17/12	0125	1177988	1
Beta	U	-0.0641	+/-1.36	2.39	+/-1.36	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: Bldg2-Roof2
Sample ID: 293781014
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.084	+/-0.479	0.913	+/-0.479	3.60	pCi/Filter	BYS1	01/17/12	0141	1177988	1
Beta	U	1.20	+/-1.43	2.41	+/-1.43	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: Bldg2-Roof3
Sample ID: 293781015
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.270	+/-0.604	1.03	+/-0.604	3.60	pCi/Filter		BYS1	01/17/12	0157	1177988	1
Beta	U	1.70	+/-1.49	2.45	+/-1.49	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: Bldg2-Roof4
Sample ID: 293781016
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.00281	+/-0.557	1.01	+/-0.557	3.60	pCi/Filter		BYS1	01/17/12	0213	1177988	1
Beta	U	1.73	+/-1.47	2.43	+/-1.47	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-6-1-B1
Sample ID: 293781017
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.120	+/-0.491	0.913	+/-0.491	3.60	pCi/Filter		BYS1	01/17/12	0229	1177988	1
Beta	U	-0.371	+/-1.35	2.41	+/-1.35	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU7-B-6-B1
Sample ID: 293781018
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.266	+/-0.518	0.912	+/-0.518	3.60	pCi/Filter		BYS1	01/17/12	0246	1177988	1
Beta	U	0.245	+/-1.38	2.40	+/-1.38	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU7-B-6-B2
Sample ID: 293781019
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0139	+/-0.478	0.912	+/-0.478	3.60	pCi/Filter		BYS1	01/17/12	0302	1177988	1
Beta	U	0.208	+/-1.37	2.39	+/-1.37	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU7-B-6-B3
Sample ID: 293781020
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.522	+/-0.555	0.912	+/-0.555	3.60	pCi/Filter		BYS1	01/17/12	0318	1177988	1
Beta	U	0.697	+/-1.39	2.38	+/-1.39	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: January 25, 2012

Page 1 of 2

Client : Tidewater, Inc.
7161 Columbia Gateway Drive -

Contact: Columbia, Maryland
Mr. Claude Wiblin

Workorder: 293781

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Liquid Scintillation									
Batch	1177988								
QC1202574819	LCS								
Alpha	21.4		22.1	pCi/Filter		103		BYS1	01/17/1203:50
	Uncert:		+/-1.98						
	TPU:		+/-2.00						
Beta	49.3		54.2	pCi/Filter		110			
	Uncert:		+/-3.18						
	TPU:		+/-3.29						
QC1202574820	LCSD								
Alpha	21.4		21.5	pCi/Filter	2.77	100			01/17/1204:06
	Uncert:		+/-1.96						
	TPU:		+/-1.99						
Beta	49.3		56.0	pCi/Filter	3.2	113			
	Uncert:		+/-3.22						
	TPU:		+/-3.33						
QC1202574818	MB								
Alpha		U	-0.12	pCi/Filter					01/17/1203:34
	Uncert:		+/-0.462						
	TPU:		+/-0.462						
Beta		U	0.372	pCi/Filter					
	Uncert:		+/-1.39						
	TPU:		+/-1.39						
Batch	1181652								
QC1202583576	LCS								
Alpha	21.4		25.6	pCi/Filter		120		BYS1	01/24/1213:58
	Uncert:		+/-2.10						
	TPU:		+/-2.13						
Beta	49.3		51.3	pCi/Filter		104			
	Uncert:		+/-3.15						
	TPU:		+/-3.25						
QC1202583577	LCSD								
Alpha	21.4		24.7	pCi/Filter	3.62	116			01/24/1214:14
	Uncert:		+/-2.07						
	TPU:		+/-2.11						
Beta	49.3		53.3	pCi/Filter	3.82	108			
	Uncert:		+/-3.19						
	TPU:		+/-3.30						
QC1202583575	MB								
Alpha		U	0.146	pCi/Filter					01/24/1213:41
	Uncert:		+/-0.516						
	TPU:		+/-0.516						
Beta		U	-0.739	pCi/Filter					
	Uncert:		+/-1.41						
	TPU:		+/-1.41						

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 293781

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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Notes:

The Qualifiers in this report are defined as follows:

**	Analyte is a surrogate compound
<	Result is less than value reported
>	Result is greater than value reported
A	The TIC is a suspected aldol-condensation product
B	For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD	Results are either below the MDC or tracer recovery is low
C	Analyte has been confirmed by GC/MS analysis
D	Results are reported from a diluted aliquot of the sample
F	Estimated Value
H	Analytical holding time was exceeded
J	Value is estimated
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
M	M if above MDC and less than LLD
M	Matrix Related Failure
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI	Gamma Spectroscopy--Uncertain identification
UJ	Gamma Spectroscopy--Uncertain identification
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	QC Samples were not spiked with this compound
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

DATA EXCEPTION REPORT

Mo.Day Yr. 25-JAN-12	Division: Radiochemistry	Quality Criteria: Specifications	Type: Process
Instrument Type: LSC	Test / Method: EPA 900.0/SW846 9310/SM 7110B Modified	Matrix Type: Filter	Client Code: TIDI
Batch ID: 1181652	Sample Numbers: See Below		

Potentially affected work order(s)(SDG): 293775,293780,293781,293783,293785,293787,293790,293791,293797,294527

Application Issues:

Other

Result is more negative than the three sigma TPU

Specification and Requirements Exception Description:	DER Disposition:
<p>1. The alpha and beta efficiencies and cross-talks for samples 293775017, 293781008(Vac-Bldg-7), 293783002, 293785006, 293787002, 293790012, 293791001, 293791002, 293797006, and 294527004 were determined by extrapolating the quench curves past the calibration quench range. The samples' results are estimates.</p> <p>2. The alpha and beta efficiencies and cross-talks for samples 293791001 and 293791002 were obtained from sample 293781008(Vac-Bldg-7), which had the closest quench value to samples 293791001 and 293791002. The samples' results are estimates.</p> <p>3. Samples 293791001 and 293791002 have negative beta activities that are greater than three times the absolute value of the 1-sigma TPU due to their quench numbers being outside the calibration range.</p>	<p>1. Reporting results.</p> <p>2. Reporting results.</p> <p>3. Reporting results.</p>

Originator's Name:

Jennifer Oliver 25-JAN-12

Data Validator/Group Leader:

Lyndsey Pace 25-JAN-12

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis Report for

TIDI002 Tidewater, Inc.

Client SDG: 293783 GEL Work Order: 293783

The Qualifiers in this report are defined as follows:

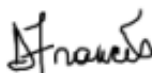
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Edith Kent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: Bunker1-R7
Sample ID: 293783001
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0277	+/-0.550	0.999	+/-0.550	3.60	pCi/Filter	BYS1	01/17/12	0747	1177989	1
Beta	U	1.75	+/-1.44	2.37	+/-1.44	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: Bunker1-R11
Sample ID: 293783002
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	UJ	-0.12	+/-0.804	1.37	+/-0.804	3.60	pCi/Filter	BYS1	01/24/12	1132	1181652	1
Beta	UJ	-0.232	+/-1.72	3.05	+/-1.72	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: Bunker2-R4
Sample ID: 293783003
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.141	+/-0.522	1.01	+/-0.522	3.60	pCi/Filter	BYS1	01/17/12	0819	1177989	1
Beta	U	0.724	+/-1.38	2.35	+/-1.38	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: Bunker2-R8
Sample ID: 293783004
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.191	+/-0.507	1.00	+/-0.507	3.60	pCi/Filter	BYS1	01/17/12	0835	1177989	1
Beta	U	0.00843	+/-1.34	2.36	+/-1.34	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU41-1-R5
Sample ID: 293783005
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.149	+/-0.512	1.00	+/-0.512	3.60	pCi/Filter		BYS1	01/17/12	0851	1177989	1
Beta	U	0.112	+/-1.37	2.40	+/-1.37	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU41-1-R9
Sample ID: 293783006
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.16	+/-0.518	1.00	+/-0.518	3.60	pCi/Filter	BYS1	01/17/12	0907	1177989	1
Beta	U	0.946	+/-1.42	2.41	+/-1.42	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU41-2-R7
Sample ID: 293783007
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0514	+/-0.538	1.00	+/-0.538	3.60	pCi/Filter	BYS1	01/17/12	0923	1177989	1
Beta	U	1.54	+/-1.42	2.36	+/-1.42	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU41-2-R10
Sample ID: 293783008
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.289	+/-0.508	1.00	+/-0.508	3.60	pCi/Filter	BYS1	01/17/12	0939	1177989	1
Beta	U	1.55	+/-1.42	2.35	+/-1.42	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU41-3-R1
Sample ID: 293783009
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.157	+/-0.518	0.999	+/-0.518	3.60	pCi/Filter		BYS1	01/17/12	0955	1177989	1
Beta	U	0.940	+/-1.41	2.39	+/-1.41	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU41-3-R12
Sample ID: 293783010
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0596	+/-0.530	0.999	+/-0.530	3.60	pCi/Filter	BYS1	01/17/12	1011	1177989	1
Beta	U	0.838	+/-1.42	2.41	+/-1.42	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU92-1-R5
Sample ID: 293783011
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.131	+/-0.512	1.00	+/-0.512	3.60	pCi/Filter	BYS1	01/17/12	1027	1177989	1
Beta	U	-0.149	+/-1.36	2.40	+/-1.36	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU92-1-R12
Sample ID: 293783012
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.294	+/-0.499	1.00	+/-0.499	3.60	pCi/Filter		BYS1	01/17/12	1043	1177989	1
Beta	U	0.848	+/-1.42	2.41	+/-1.42	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU7-B-2-B2
Sample ID: 293783013
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.0543	+/-0.537	0.999	+/-0.537	3.60	pCi/Filter		BYS1	01/17/12	1100	1177989	1
Beta	U	-0.107	+/-1.36	2.40	+/-1.36	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU7-B-2-B3
Sample ID: 293783014
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.229	+/-0.505	1.00	+/-0.505	3.60	pCi/Filter	BYS1	01/17/12	1116	1177989	1
Beta	U	0.585	+/-1.40	2.41	+/-1.40	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU7-B-3-B1
Sample ID: 293783015
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.159	+/-0.512	1.00	+/-0.512	3.60	pCi/Filter	BYS1	01/17/12	1132	1177989	1
Beta	U	0.268	+/-1.38	2.40	+/-1.38	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU7-B-3-B2
Sample ID: 293783016
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0223	+/-0.530	0.999	+/-0.530	3.60	pCi/Filter	BYS1	01/17/12	1148	1177989	1
Beta	U	0.314	+/-1.39	2.41	+/-1.39	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU7-B-3-B3
Sample ID: 293783017
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.199	+/-0.512	1.00	+/-0.512	3.60	pCi/Filter	BYS1	01/17/12	1204	1177989	1
Beta	U	0.842	+/-1.41	2.41	+/-1.41	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU7-B-3-B4
Sample ID: 293783018
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0534	+/-0.543	1.00	+/-0.543	3.60	pCi/Filter	BYS1	01/17/12	1220	1177989	1
Beta	U	0.571	+/-1.40	2.41	+/-1.40	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU7-B-4-B1
Sample ID: 293783019
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.362	+/-0.485	1.00	+/-0.485	3.60	pCi/Filter	BYS1	01/17/12	1236	1177989	1
Beta	U	0.488	+/-1.40	2.41	+/-1.40	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU7-B-4-B2

Sample ID: 293783020

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0869	+/-0.543	1.00	+/-0.543	3.60	pCi/Filter	BYS1	01/17/12	1252	1177989	1
Beta	U	0.0994	+/-1.38	2.41	+/-1.38	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1 EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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QC Summary

Report Date: January 25, 2012

Page 1 of 2

Client : Tidewater, Inc.
7161 Columbia Gateway Drive -

Contact: Columbia, Maryland
Mr. Claude Wiblin

Workorder: 293783

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Liquid Scintillation									
Batch	1177989								
QC1202574822	LCS								
Alpha	21.4		22.9	pCi/Filter		107		BYS1	01/17/1213:24
	Uncert:		+/-2.02						
	TPU:		+/-2.05						
Beta	49.3		53.5	pCi/Filter		108			
	Uncert:		+/-3.16						
	TPU:		+/-3.27						
QC1202574823	LCSD								
Alpha	21.4		23.9	pCi/Filter	4.19	112			01/17/1213:40
	Uncert:		+/-2.05						
	TPU:		+/-2.09						
Beta	49.3		54.5	pCi/Filter	1.88	110			
	Uncert:		+/-3.19						
	TPU:		+/-3.30						
QC1202574821	MB								
Alpha		U	-0.356	pCi/Filter					01/17/1213:08
	Uncert:		+/-0.489						
	TPU:		+/-0.489						
Beta		U	1.06	pCi/Filter					
	Uncert:		+/-1.42						
	TPU:		+/-1.42						
Batch	1181652								
QC1202583576	LCS								
Alpha	21.4		25.6	pCi/Filter		120		BYS1	01/24/1213:58
	Uncert:		+/-2.10						
	TPU:		+/-2.13						
Beta	49.3		51.3	pCi/Filter		104			
	Uncert:		+/-3.15						
	TPU:		+/-3.25						
QC1202583577	LCSD								
Alpha	21.4		24.7	pCi/Filter	3.62	116			01/24/1214:14
	Uncert:		+/-2.07						
	TPU:		+/-2.11						
Beta	49.3		53.3	pCi/Filter	3.82	108			
	Uncert:		+/-3.19						
	TPU:		+/-3.30						
QC1202583575	MB								
Alpha		U	0.146	pCi/Filter					01/24/1213:41
	Uncert:		+/-0.516						
	TPU:		+/-0.516						
Beta		U	-0.739	pCi/Filter					
	Uncert:		+/-1.41						
	TPU:		+/-1.41						

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QC Summary

Workorder: 293783

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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Notes:

The Qualifiers in this report are defined as follows:

**	Analyte is a surrogate compound
<	Result is less than value reported
>	Result is greater than value reported
A	The TIC is a suspected aldol-condensation product
B	For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD	Results are either below the MDC or tracer recovery is low
C	Analyte has been confirmed by GC/MS analysis
D	Results are reported from a diluted aliquot of the sample
F	Estimated Value
H	Analytical holding time was exceeded
J	Value is estimated
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
M	M if above MDC and less than LLD
M	Matrix Related Failure
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI	Gamma Spectroscopy--Uncertain identification
UJ	Gamma Spectroscopy--Uncertain identification
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	QC Samples were not spiked with this compound
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

DATA EXCEPTION REPORT			
Mo.Day Yr. 25-JAN-12	Division: Radiochemistry	Quality Criteria: Specifications	Type: Process
Instrument Type: LSC	Test / Method: EPA 900.0/SW846 9310/SM 7110B Modified	Matrix Type: Filter	Client Code: TIDI
Batch ID: 1181652	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 293775,293780,293781,293783,293785,293787,293790,293791,293797,294527 Application Issues: Other Result is more negative than the three sigma TPU			
Specification and Requirements		DER Disposition:	
Exception Description:			
1. The alpha and beta efficiencies and cross-talks for samples 293775017, 293781008, 293783002(Bunker1-R11), 293785006, 293787002, 293790012, 293791001, 293791002, 293797006, and 294527004 were determined by extrapolating the quench curves past the calibration quench range. The samples' results are estimates. 2. The alpha and beta efficiencies and cross-talks for samples 293791001 and 293791002 were obtained from sample 293781008, which had the closest quench value to samples 293791001 and 293791002. The samples' results are estimates. 3. Samples 293791001 and 293791002 have negative beta activities that are greater than three times the absolute value of the 1-sigma TPU due to their quench numbers being outside the calibration range.		1. Reporting results. 2. Reporting results. 3. Reporting results.	

Originator's Name:

Jennifer Oliver 25-JAN-12

Data Validator/Group Leader:

Lyndsey Pace 25-JAN-12

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis Report for

TIDI002 Tidewater, Inc.

Client SDG: 293791 GEL Work Order: 293791

The Qualifiers in this report are defined as follows:

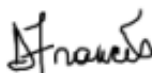
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Edith Kent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU41-3-B1
Sample ID: 293791001
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	UJ	-2.22	+/-2.32	3.56	+/-2.32	3.60	pCi/Filter	BYS1	01/25/12	0726	1181652	1
Beta	UJ	-4.6	+/-2.64	6.50	+/-2.64	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU41-3-B2
Sample ID: 293791002
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	UJ	-0.592	+/-2.62	3.41	+/-2.62	3.60	pCi/Filter		BYS1	01/24/12	1253	1181652	1
Beta	UJ	-5.73	+/-3.03	7.07	+/-3.03	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-4-B1
Sample ID: 293791003
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.288	+/-0.432	0.761	+/-0.432	3.60	pCi/Filter	BYS1	01/13/12	0439	1177993	1
Beta	U	-0.118	+/-1.44	2.53	+/-1.44	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-4-B2
Sample ID: 293791004
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.229	+/-0.419	0.762	+/-0.419	3.60	pCi/Filter	BYS1	01/13/12	0456	1177993	1
Beta	U	-0.586	+/-1.42	2.54	+/-1.42	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Address : 7161 Columbia Gateway Drive - Suite C

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Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-4-B3
Sample ID: 293791005
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.0251	+/-0.395	0.762	+/-0.395	3.60	pCi/Filter		BYS1	01/13/12	0512	1177993	1
Beta	U	0.311	+/-1.46	2.54	+/-1.46	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-4-B4
Sample ID: 293791006
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.112	+/-0.401	0.762	+/-0.402	3.60	pCi/Filter	BYS1	01/13/12	0528	1177993	1
Beta	U	-0.267	+/-1.43	2.54	+/-1.43	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-3-B1
Sample ID: 293791007
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.0396	+/-0.395	0.762	+/-0.395	3.60	pCi/Filter		BYS1	01/13/12	0544	1177993	1
Beta	U	0.102	+/-1.45	2.54	+/-1.45	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-2-B1
Sample ID: 293791008
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.174	+/-0.412	0.762	+/-0.412	3.60	pCi/Filter	BYS1	01/13/12	0600	1177993	1
Beta	U	-0.477	+/-1.42	2.54	+/-1.42	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-2-B2
Sample ID: 293791009
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.174	+/-0.410	0.762	+/-0.411	3.60	pCi/Filter		BYS1	01/13/12	0616	1177993	1
Beta	U	-0.479	+/-1.42	2.54	+/-1.42	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

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Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-2-B3
Sample ID: 293791010
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0691	+/-0.395	0.762	+/-0.395	3.60	pCi/Filter	BYS1	01/13/12	0632	1177993	1
Beta	U	-0.316	+/-1.43	2.54	+/-1.43	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-2-B4
Sample ID: 293791011
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0899	+/-0.402	0.762	+/-0.402	3.60	pCi/Filter	BYS1	01/13/12	0649	1177993	1
Beta	U	0.0478	+/-1.45	2.54	+/-1.45	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-2-B5
Sample ID: 293791012
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.132	+/-0.419	0.762	+/-0.419	3.60	pCi/Filter	BYS1	01/13/12	0705	1177993	1
Beta	U	0.776	+/-1.49	2.54	+/-1.49	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-2-B6
Sample ID: 293791013
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.273	+/-0.331	0.762	+/-0.331	3.60	pCi/Filter	BYS1	01/13/12	0721	1177993	1
Beta	U	-0.193	+/-1.41	2.49	+/-1.41	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-2-B7
Sample ID: 293791014
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.398	+/-0.455	0.761	+/-0.455	3.60	pCi/Filter	BYS1	01/13/12	0737	1177993	1
Beta	U	0.295	+/-1.46	2.54	+/-1.46	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-2-B8
Sample ID: 293791015
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.0302	+/-0.378	0.760	+/-0.378	3.60	pCi/Filter		BYS1	01/13/12	0753	1177993	1
Beta	U	-0.257	+/-1.42	2.51	+/-1.42	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-2-B9
Sample ID: 293791016
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0325	+/-0.378	0.762	+/-0.378	3.60	pCi/Filter	BYS1	01/13/12	0810	1177993	1
Beta	U	-0.206	+/-1.44	2.54	+/-1.44	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

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Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-2-B10
Sample ID: 293791017
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.105	+/-0.401	0.761	+/-0.401	3.60	pCi/Filter	BYS1	01/13/12	0826	1177993	1
Beta	U	-0.162	+/-1.44	2.54	+/-1.44	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-2-B11
Sample ID: 293791018
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0631	+/-0.408	0.760	+/-0.408	3.60	pCi/Filter	BYS1	01/13/12	0842	1177993	1
Beta	U	1.04	+/-1.49	2.53	+/-1.49	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-2-B12
Sample ID: 293791019
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0321	+/-0.395	0.762	+/-0.395	3.60	pCi/Filter	BYS1	01/13/12	0858	1177993	1
Beta	U	0.207	+/-1.46	2.54	+/-1.46	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-2-B13
Sample ID: 293791020
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.202	+/-0.418	0.762	+/-0.418	3.60	pCi/Filter	BYS1	01/13/12	0914	1177993	1
Beta	U	-0.219	+/-1.44	2.54	+/-1.44	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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QC Summary

Report Date: January 25, 2012

Page 1 of 2

Client : Tidewater, Inc.
7161 Columbia Gateway Drive -

Contact: Columbia, Maryland
Mr. Claude Wiblin

Workorder: 293791

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Liquid Scintillation									
Batch	1177993								
QC1202574834	LCS								
Alpha	21.4		17.7	pCi/Filter		82.6		BYS1	01/13/1209:46
	Uncert:		+/-1.79						
	TPU:		+/-1.81						
Beta	49.3		55.7	pCi/Filter		113			
	Uncert:		+/-3.24						
	TPU:		+/-3.35						
QC1202574835	LCSD								
Alpha	21.4		19.5	pCi/Filter	9.92	91.2			01/13/1210:03
	Uncert:		+/-1.86						
	TPU:		+/-1.89						
Beta	49.3		55.5	pCi/Filter	.352	113			
	Uncert:		+/-3.23						
	TPU:		+/-3.35						
QC1202574833	MB								
Alpha		U	0.248	pCi/Filter					01/13/1209:30
	Uncert:		+/-0.417						
	TPU:		+/-0.417						
Beta		U	-0.848	pCi/Filter					
	Uncert:		+/-1.40						
	TPU:		+/-1.40						
Batch	1181652								
QC1202583576	LCS								
Alpha	21.4		25.6	pCi/Filter		120		BYS1	01/24/1213:58
	Uncert:		+/-2.10						
	TPU:		+/-2.13						
Beta	49.3		51.3	pCi/Filter		104			
	Uncert:		+/-3.15						
	TPU:		+/-3.25						
QC1202583577	LCSD								
Alpha	21.4		24.7	pCi/Filter	3.62	116			01/24/1214:14
	Uncert:		+/-2.07						
	TPU:		+/-2.11						
Beta	49.3		53.3	pCi/Filter	3.82	108			
	Uncert:		+/-3.19						
	TPU:		+/-3.30						
QC1202583575	MB								
Alpha		U	0.146	pCi/Filter					01/24/1213:41
	Uncert:		+/-0.516						
	TPU:		+/-0.516						
Beta		U	-0.739	pCi/Filter					
	Uncert:		+/-1.41						
	TPU:		+/-1.41						

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QC Summary

Workorder: 293791

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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Notes:

The Qualifiers in this report are defined as follows:

**	Analyte is a surrogate compound
<	Result is less than value reported
>	Result is greater than value reported
A	The TIC is a suspected aldol-condensation product
B	For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD	Results are either below the MDC or tracer recovery is low
C	Analyte has been confirmed by GC/MS analysis
D	Results are reported from a diluted aliquot of the sample
F	Estimated Value
H	Analytical holding time was exceeded
J	Value is estimated
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
M	M if above MDC and less than LLD
M	Matrix Related Failure
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI	Gamma Spectroscopy--Uncertain identification
UJ	Gamma Spectroscopy--Uncertain identification
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	QC Samples were not spiked with this compound
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

DATA EXCEPTION REPORT

Mo.Day Yr. 25-JAN-12	Division: Radiochemistry	Quality Criteria: Specifications	Type: Process
Instrument Type: LSC	Test / Method: EPA 900.0/SW846 9310/SM 7110B Modified	Matrix Type: Filter	Client Code: TIDI
Batch ID: 1181652	Sample Numbers: See Below		

Potentially affected work order(s)(SDG): 293775,293780,293781,293783,293785,293787,293790,293791,293797,294527

Application Issues:

Other

Result is more negative than the three sigma TPU

Specification and Requirements Exception Description:	DER Disposition:
<p>1. The alpha and beta efficiencies and cross-talks for samples 293775017, 293781008, 293783002, 293785006, 293787002, 293790012, 293791001(SU41-3-B1), 293791002(SU41-3-B2), 293797006, and 294527004 were determined by extrapolating the quench curves past the calibration quench range. The samples' results are estimates.</p> <p>2. The alpha and beta efficiencies and cross-talks for samples 293791001(SU41-3-B1) and 293791002(SU41-3-B2) were obtained from sample 293781008, which had the closest quench value to samples 293791001(SU41-3-B1) and 293791002(SU41-3-B2). The samples' results are estimates.</p> <p>3. Samples 293791001(SU41-3-B1) and 293791002(SU41-3-B2) have negative beta activities that are greater than three times the absolute value of the 1-sigma TPU due to their quench numbers being outside the calibration range.</p>	<p>1. Reporting results.</p> <p>2. Reporting results.</p> <p>3. Reporting results.</p>

Originator's Name:

Jennifer Oliver

25-JAN-12

Data Validator/Group Leader:

Lyndsey Pace

25-JAN-12

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis Report for

TIDI002 Tidewater, Inc.

Client SDG: 293750 GEL Work Order: 293750

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Edith Kent.



Reviewed by

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-4-R10
Sample ID: 293750001
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.119	+/-0.486	0.935	+/-0.486	3.60	pCi/Filter	BYS1	01/14/12	1616	1177965	1
Beta	U	1.05	+/-1.43	2.41	+/-1.43	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-5-R4
Sample ID: 293750002
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.278	+/-0.450	0.935	+/-0.450	3.60	pCi/Filter	BYS1	01/14/12	1632	1177965	1
Beta	U	-0.0899	+/-1.34	2.37	+/-1.34	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-5-R9
Sample ID: 293750003
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.262	+/-0.464	0.934	+/-0.464	3.60	pCi/Filter	BYS1	01/14/12	1648	1177965	1
Beta	U	1.10	+/-1.42	2.39	+/-1.42	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-6-R1
Sample ID: 293750004
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0616	+/-0.485	0.935	+/-0.485	3.60	pCi/Filter	BYS1	01/14/12	1704	1177965	1
Beta	U	0.211	+/-1.38	2.41	+/-1.38	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-6-R3
Sample ID: 293750005
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.421	+/-0.450	0.935	+/-0.450	3.60	pCi/Filter	BYS1	01/14/12	1720	1177965	1
Beta	U	2.04	+/-1.47	2.40	+/-1.47	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-1-R3
Sample ID: 293750006
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.263	+/-0.530	0.935	+/-0.530	3.60	pCi/Filter		BYS1	01/14/12	1736	1177965	1
Beta	U	0.247	+/-1.39	2.41	+/-1.39	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-1-R11
Sample ID: 293750007
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0806	+/-0.484	0.934	+/-0.484	3.60	pCi/Filter	BYS1	01/14/12	1752	1177965	1
Beta	U	0.474	+/-1.40	2.41	+/-1.40	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-2-R5
Sample ID: 293750008
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.105	+/-0.478	0.935	+/-0.478	3.60	pCi/Filter	BYS1	01/14/12	1808	1177965	1
Beta	U	0.162	+/-1.38	2.41	+/-1.38	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-2-R9
Sample ID: 293750009
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.288	+/-0.441	0.935	+/-0.441	3.60	pCi/Filter		BYS1	01/14/12	1824	1177965	1
Beta	U	-0.559	+/-1.34	2.41	+/-1.34	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-R1
Sample ID: 293750010
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.135	+/-0.476	0.934	+/-0.476	3.60	pCi/Filter	BYS1	01/14/12	1841	1177965	1
Beta	U	0.581	+/-1.40	2.41	+/-1.40	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-R7
Sample ID: 293750011
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.438	+/-0.436	0.938	+/-0.436	3.60	pCi/Filter	BYS1	01/14/12	1857	1177965	1
Beta	U	0.892	+/-1.39	2.36	+/-1.39	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-5-R6
Sample ID: 293750012
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.121	+/-0.485	0.935	+/-0.485	3.60	pCi/Filter	BYS1	01/14/12	1913	1177965	1
Beta	U	1.05	+/-1.43	2.41	+/-1.43	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-5-R10
Sample ID: 293750013
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.00709	+/-0.499	0.934	+/-0.499	3.60	pCi/Filter	BYS1	01/14/12	1929	1177965	1
Beta	U	0.826	+/-1.40	2.38	+/-1.40	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-1-R1
Sample ID: 293750014
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.197	+/-0.465	0.936	+/-0.465	3.60	pCi/Filter	BYS1	01/14/12	1945	1177965	1
Beta	U	0.112	+/-1.35	2.36	+/-1.35	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-1-R10
Sample ID: 293750015
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0473	+/-0.485	0.934	+/-0.485	3.60	pCi/Filter	BYS1	01/14/12	2001	1177965	1
Beta	U	0.00239	+/-1.36	2.39	+/-1.36	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-2-R7
Sample ID: 293750016
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.319	+/-0.450	0.935	+/-0.450	3.60	pCi/Filter	BYS1	01/14/12	2017	1177965	1
Beta	U	0.538	+/-1.40	2.41	+/-1.40	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-2-R9
Sample ID: 293750017
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.315	+/-0.450	0.935	+/-0.450	3.60	pCi/Filter	BYS1	01/14/12	2033	1177965	1
Beta	U	0.486	+/-1.40	2.41	+/-1.40	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-3-R4
Sample ID: 293750018
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0507	+/-0.498	0.935	+/-0.498	3.60	pCi/Filter	BYS1	01/14/12	2049	1177965	1
Beta	U	-0.0548	+/-1.37	2.41	+/-1.37	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-3-R8
Sample ID: 293750019
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.319	+/-0.457	0.935	+/-0.457	3.60	pCi/Filter	BYS1	01/14/12	2105	1177965	1
Beta	U	1.21	+/-1.43	2.41	+/-1.43	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B2
Sample ID: 293750020
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.159	+/-0.469	0.933	+/-0.469	3.60	pCi/Filter	BYS1	01/14/12	2121	1177965	1
Beta	U	0.269	+/-1.38	2.41	+/-1.38	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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QC Summary

Client : Tidewater, Inc.
7161 Columbia Gateway Drive -

Report Date: January 16, 2012
Page 1 of 2

Contact: Columbia, Maryland
Mr. Claude Wiblin

Workorder: 293750

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Liquid Scintillation										
Batch	1177965									
QC1202574756	LCS									
Alpha	21.4		20.5	pCi/Filter		95.7		BYS1	01/14/1221:53	
	Uncert:		+/-1.93							
	TPU:		+/-1.95							
Beta	49.3		56.8	pCi/Filter		115				
	Uncert:		+/-3.23							
	TPU:		+/-3.35							
QC1202574757	LCSD									
Alpha	21.4		21.7	pCi/Filter	5.58	101			01/14/1222:09	
	Uncert:		+/-1.97							
	TPU:		+/-2.00							
Beta	49.3		56.5	pCi/Filter	.443	115				
	Uncert:		+/-3.23							
	TPU:		+/-3.35							
QC1202574755	MB									
Alpha		U	-0.244	pCi/Filter					01/14/1221:37	
	Uncert:		+/-0.461							
	TPU:		+/-0.461							
Beta		U	0.796	pCi/Filter						
	Uncert:		+/-1.41							
	TPU:		+/-1.41							

Notes:

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- M M if above MDC and less than LLD
- M Matrix Related Failure

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QC Summary

Workorder: 293750

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
N/A	RPD or %Recovery limits do not apply.									
N1	See case narrative									
ND	Analyte concentration is not detected above the detection limit									
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.									
R	Sample results are rejected									
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.									
UI	Gamma Spectroscopy--Uncertain identification									
UJ	Gamma Spectroscopy--Uncertain identification									
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.									
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Y	QC Samples were not spiked with this compound									
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.									
h	Preparation or preservation holding time was exceeded									

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

There are no "Data Exception Reports" associated with this analytical report.

GEL LABORATORIES LLC

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Certificate of Analysis Report for

TIDI002 Tidewater, Inc.

Client SDG: 293753 GEL Work Order: 293753

The Qualifiers in this report are defined as follows:

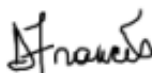
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Edith Kent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-2-B1
Sample ID: 293753001
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.145	+/-0.377	0.701	+/-0.377	3.60	pCi/Filter	BYS1	01/14/12	2242	1177966	1
Beta	U	-0.0596	+/-1.36	2.39	+/-1.36	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-2-B2
Sample ID: 293753002
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.406	+/-0.432	0.699	+/-0.432	3.60	pCi/Filter		BYS1	01/14/12	2258	1177966	1
Beta	U	0.818	+/-1.40	2.39	+/-1.40	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-2-B3
Sample ID: 293753003
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.371	+/-0.422	0.703	+/-0.422	3.60	pCi/Filter		BYS1	01/14/12	2314	1177966	1
Beta	U	0.189	+/-1.34	2.33	+/-1.34	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-2-B5
Sample ID: 293753004
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.382	+/-0.417	0.700	+/-0.417	3.60	pCi/Filter		BYS1	01/14/12	2331	1177966	1
Beta	U	-0.123	+/-1.35	2.39	+/-1.35	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-2-B6
Sample ID: 293753005
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.419	+/-0.446	0.714	+/-0.446	3.60	pCi/Filter		BYS1	01/14/12	2347	1177966	1
Beta	U	1.10	+/-1.38	2.33	+/-1.38	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-2-B7
Sample ID: 293753006
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.188	+/-0.478	0.958	+/-0.478	3.60	pCi/Filter		BYS1	01/17/12	0553	1177966	1
Beta	U	0.0101	+/-1.41	2.48	+/-1.41	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-2-B8
Sample ID: 293753007
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.0981	+/-0.374	0.699	+/-0.374	3.60	pCi/Filter		BYS1	01/15/12	0019	1177966	1
Beta	U	0.571	+/-1.39	2.38	+/-1.39	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-2-B10
Sample ID: 293753008
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0921	+/-0.394	0.710	+/-0.394	3.60	pCi/Filter	BYS1	01/15/12	0035	1177966	1
Beta	U	1.63	+/-1.41	2.33	+/-1.41	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU54-B-2-B11

Sample ID: 293753009

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.242	+/-0.400	0.699	+/-0.400	3.60	pCi/Filter	BYS1	01/15/12	0051	1177966	1
Beta	U	0.512	+/-1.38	2.38	+/-1.38	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1 EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU54-B-2-B13

Sample ID: 293753010

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.00117	+/-0.357	0.699	+/-0.357	3.60	pCi/Filter		BYS1	01/15/12	0107	1177966	1
Beta	U	0.628	+/-1.39	2.39	+/-1.39	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
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1 EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-2-B14
Sample ID: 293753011
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.541	+/-0.450	0.700	+/-0.450	3.60	pCi/Filter		BYS1	01/15/12	0124	1177966	1
Beta	U	0.335	+/-1.38	2.39	+/-1.38	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Notes:				

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU54-B-2-B16

Sample ID: 293753012

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.128	+/-0.369	0.700	+/-0.369	3.60	pCi/Filter	BYS1	01/15/12	0140	1177966	1
Beta	U	-0.52	+/-1.30	2.34	+/-1.30	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU54-B-2-B17

Sample ID: 293753013

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.272	+/-0.411	0.699	+/-0.411	3.60	pCi/Filter		BYS1	01/15/12	0156	1177966	1
Beta	U	0.915	+/-1.39	2.35	+/-1.39	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU54-B-2-B18

Sample ID: 293753014

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	UJ	-0.711	+/-0.852	1.51	+/-0.852	3.60	pCi/Filter		BYS1	01/24/12	1503	1181650	1
Beta	UJ	1.78	+/-1.80	2.97	+/-1.80	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-2-B19
Sample ID: 293753015
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.0221	+/-0.356	0.699	+/-0.356	3.60	pCi/Filter		BYS1	01/15/12	0228	1177966	1
Beta	U	0.943	+/-1.40	2.38	+/-1.40	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-2-B21
Sample ID: 293753016
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.189	+/-0.386	0.700	+/-0.386	3.60	pCi/Filter	BYS1	01/15/12	0244	1177966	1
Beta	U	-0.0102	+/-1.36	2.39	+/-1.36	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-2-B22
Sample ID: 293753017
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.301	+/-0.409	0.700	+/-0.409	3.60	pCi/Filter		BYS1	01/15/12	0301	1177966	1
Beta	U	0.351	+/-1.38	2.39	+/-1.38	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-2-B24
Sample ID: 293753018
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.220	+/-0.401	0.700	+/-0.401	3.60	pCi/Filter		BYS1	01/15/12	0317	1177966	1
Beta	U	0.826	+/-1.40	2.39	+/-1.40	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-2-B25
Sample ID: 293753019
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.187	+/-0.395	0.699	+/-0.395	3.60	pCi/Filter	BYS1	01/15/12	0333	1177966	1
Beta	U	0.764	+/-1.38	2.35	+/-1.38	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-3-B1
Sample ID: 293753020
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.588	+/-0.464	0.701	+/-0.464	3.60	pCi/Filter		BYS1	01/15/12	0349	1177966	1
Beta	U	0.959	+/-1.41	2.39	+/-1.41	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: January 25, 2012

Page 1 of 2

Client : Tidewater, Inc.
7161 Columbia Gateway Drive -

Contact: Columbia, Maryland
Mr. Claude Wiblin

Workorder: 293753

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Liquid Scintillation									
Batch	1177966								
QC1202574759	LCS								
Alpha	21.4		22.1	pCi/Filter		103		BYS1	01/15/1207:01
	Uncert:		+/-1.95						
	TPU:		+/-1.98						
Beta	49.3		55.3	pCi/Filter		112			
	Uncert:		+/-3.20						
	TPU:		+/-3.31						
QC1202574760	LCSD								
Alpha	21.4		20.4	pCi/Filter	7.88	95.5			01/15/1207:17
	Uncert:		+/-1.90						
	TPU:		+/-1.92						
Beta	49.3		58.0	pCi/Filter	4.82	118			
	Uncert:		+/-3.26						
	TPU:		+/-3.38						
QC1202574758	MB								
Alpha		U	0.330	pCi/Filter					01/15/1206:45
	Uncert:		+/-0.407						
	TPU:		+/-0.407						
Beta		U	-0.0669	pCi/Filter					
	Uncert:		+/-1.35						
	TPU:		+/-1.35						
Batch	1181650								
QC1202583569	LCS								
Alpha	21.4		23.9	pCi/Filter		112		BYS1	01/24/1219:38
	Uncert:		+/-2.04						
	TPU:		+/-2.08						
Beta	49.3		53.1	pCi/Filter		108			
	Uncert:		+/-3.14						
	TPU:		+/-3.25						
QC1202583570	LCSD								
Alpha	21.4		23.8	pCi/Filter	.245	111			01/24/1219:54
	Uncert:		+/-2.04						
	TPU:		+/-2.07						
Beta	49.3		50.6	pCi/Filter	4.72	103			
	Uncert:		+/-3.08						
	TPU:		+/-3.18						
QC1202583568	MB								
Alpha		U	-0.0468	pCi/Filter					01/24/1219:21
	Uncert:		+/-0.522						
	TPU:		+/-0.522						
Beta		U	0.00227	pCi/Filter					
	Uncert:		+/-1.35						
	TPU:		+/-1.35						

GEL LABORATORIES LLC

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QC Summary

Workorder: 293753

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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Notes:

The Qualifiers in this report are defined as follows:

**	Analyte is a surrogate compound
<	Result is less than value reported
>	Result is greater than value reported
A	The TIC is a suspected aldol-condensation product
B	For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD	Results are either below the MDC or tracer recovery is low
C	Analyte has been confirmed by GC/MS analysis
D	Results are reported from a diluted aliquot of the sample
F	Estimated Value
H	Analytical holding time was exceeded
J	Value is estimated
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
M	M if above MDC and less than LLD
M	Matrix Related Failure
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI	Gamma Spectroscopy--Uncertain identification
UJ	Gamma Spectroscopy--Uncertain identification
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	QC Samples were not spiked with this compound
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

DATA EXCEPTION REPORT			
Mo.Day Yr. 25-JAN-12	Division: Radiochemistry	Quality Criteria: Specifications	Type: Process
Instrument Type: LSC	Test / Method: EPA 900.0/SW846 9310/SM 7110B Modified	Matrix Type: Filter	Client Code: TIDI
Batch ID: 1181650	Sample Numbers: see below		
Potentially affected work order(s)(SDG): 293744,293753,293758,293763,293765,293767,293768,293769,293770,293771,293772,293773 Application Issues: RDL less than MDA Other			
Specification and Requirements Exception Description:		DER Disposition:	
<p>1. The alpha and beta efficiencies and crosstalks for samples 293744002, 293753014(SU54-B-2-B18), 293758003, 293763002, 293765009, 293765017, 293767006, 293767008, 293767017, 293767019, 293768004, 293769009, 293770005, 293771005, 293772018, 293773014, and 293773018 were determined by extrapolating the quench curves past the calibration quench range. The samples' results are estimates.</p> <p>2. The alpha and beta efficiencies and crosstalks for sample 293773014 were obtained from sample 293744002, which had the closest quench value to sample 293773014. The sample's results are estimates.</p> <p>3. Samples 293744002, 293758003, 293773014 did not meet the alpha or beta required detection limits due to the quench numbers being outside the calibration range.</p>		<p>1. Reporting results.</p> <p>2. Reporting results.</p> <p>3. Reporting results.</p>	

Originator's Name:

Jennifer Oliver 25-JAN-12

Data Validator/Group Leader:

Lyndsey Pace 25-JAN-12

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis Report for

TIDI002 Tidewater, Inc.

Client SDG: 293757 GEL Work Order: 293757

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Edith Kent.



Reviewed by

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-3-B2
Sample ID: 293757001
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0278	+/-0.409	0.815	+/-0.409	3.60	pCi/Filter	BYS1	01/12/12	1911	1177967	1
Beta	U	-0.26	+/-1.44	2.55	+/-1.44	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-3-B3
Sample ID: 293757002
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.326	+/-0.360	0.817	+/-0.360	3.60	pCi/Filter	BYS1	01/12/12	1927	1177967	1
Beta	U	-0.0347	+/-1.46	2.56	+/-1.46	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-3-B5
Sample ID: 293757003
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.137	+/-0.395	0.817	+/-0.395	3.60	pCi/Filter		BYS1	01/12/12	1943	1177967	1
Beta	U	-0.0448	+/-1.46	2.56	+/-1.46	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-3-B6
Sample ID: 293757004
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.258	+/-0.387	0.815	+/-0.387	3.60	pCi/Filter		BYS1	01/12/12	1959	1177967	1
Beta	U	1.05	+/-1.50	2.54	+/-1.50	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-3-B7
Sample ID: 293757005
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.121	+/-0.403	0.831	+/-0.403	3.60	pCi/Filter	BYS1	01/12/12	2015	1177967	1
Beta	U	-0.403	+/-1.40	2.49	+/-1.40	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-3-B9
Sample ID: 293757006
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.104	+/-0.409	0.815	+/-0.409	3.60	pCi/Filter	BYS1	01/12/12	2032	1177967	1
Beta	U	0.789	+/-1.49	2.55	+/-1.49	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-3
Sample ID: 293757007
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.301	+/-0.369	0.817	+/-0.369	3.60	pCi/Filter		BYS1	01/12/12	2048	1177967	1
Beta	U	0.276	+/-1.47	2.56	+/-1.47	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-3-B10
Sample ID: 293757008
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.120	+/-0.435	0.817	+/-0.435	3.60	pCi/Filter	BYS1	01/12/12	2104	1177967	1
Beta	U	-0.371	+/-1.44	2.56	+/-1.44	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU54-B-3-B12

Sample ID: 293757009

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.214	+/-0.385	0.816	+/-0.385	3.60	pCi/Filter	BYS1	01/12/12	2120	1177967	1
Beta	U	0.376	+/-1.48	2.56	+/-1.48	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1 EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU54-B-3-B13

Sample ID: 293757010

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.00687	+/-0.428	0.817	+/-0.428	3.60	pCi/Filter	BYS1	01/12/12	2136	1177967	1
Beta	U	0.780	+/-1.50	2.55	+/-1.50	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-3-B14
Sample ID: 293757011
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0461	+/-0.420	0.816	+/-0.420	3.60	pCi/Filter	BYS1	01/12/12	2152	1177967	1
Beta	U	-0.677	+/-1.42	2.55	+/-1.42	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-3-B15
Sample ID: 293757012
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.103	+/-0.451	0.879	+/-0.451	3.60	pCi/Filter	BYS1	01/12/12	2209	1177967	1
Beta	U	0.820	+/-1.49	2.54	+/-1.49	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-M-1-B1
Sample ID: 293757013
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.0388	+/-0.418	0.826	+/-0.418	3.60	pCi/Filter		BYS1	01/12/12	2225	1177967	1
Beta	U	-0.152	+/-1.41	2.49	+/-1.41	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-M-1-B2
Sample ID: 293757014
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0486	+/-0.435	0.816	+/-0.435	3.60	pCi/Filter	BYS1	01/12/12	2241	1177967	1
Beta	U	0.718	+/-1.47	2.51	+/-1.47	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-M-1-B3
Sample ID: 293757015
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.0654	+/-0.421	0.818	+/-0.421	3.60	pCi/Filter		BYS1	01/12/12	2257	1177967	1
Beta	U	-1.03	+/-1.37	2.50	+/-1.37	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-M-1-B4
Sample ID: 293757016
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0943	+/-0.435	0.817	+/-0.435	3.60	pCi/Filter	BYS1	01/12/12	2313	1177967	1
Beta	U	-0.00508	+/-1.46	2.56	+/-1.46	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-M-1-B5
Sample ID: 293757017
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.0874	+/-0.444	0.817	+/-0.444	3.60	pCi/Filter		BYS1	01/12/12	2329	1177967	1
Beta	U	0.869	+/-1.47	2.50	+/-1.47	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-M-1-B6
Sample ID: 293757018
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.0903	+/-0.429	0.819	+/-0.429	3.60	pCi/Filter		BYS1	01/12/12	2346	1177967	1
Beta	U	-0.671	+/-1.39	2.50	+/-1.39	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-M-1-B7
Sample ID: 293757019
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0809	+/-0.427	0.815	+/-0.427	3.60	pCi/Filter	BYS1	01/13/12	0002	1177967	1
Beta	U	-0.519	+/-1.41	2.51	+/-1.41	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-M-1-B8
Sample ID: 293757020
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.075	+/-0.435	0.815	+/-0.435	3.60	pCi/Filter		BYS1	01/13/12	0018	1177967	1
Beta	U	0.305	+/-1.45	2.51	+/-1.45	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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QC Summary

Client : Tidewater, Inc.
7161 Columbia Gateway Drive -

Report Date: January 16, 2012
Page 1 of 2

Contact: Columbia, Maryland
Mr. Claude Wiblin

Workorder: 293757

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Liquid Scintillation									
Batch	1177967								
QC1202574762	LCS								
Alpha	21.4		20.9	pCi/Filter		97.7		BYS1	01/13/1200:50
	Uncert:		+/-1.93						
	TPU:		+/-1.95						
Beta	49.3		56.6	pCi/Filter		115			
	Uncert:		+/-3.27						
	TPU:		+/-3.39						
QC1202574763	LCSD								
Alpha	21.4		19.1	pCi/Filter	8.78	89.4			01/13/1201:06
	Uncert:		+/-1.86						
	TPU:		+/-1.89						
Beta	49.3		58.2	pCi/Filter	2.81	118			
	Uncert:		+/-3.30						
	TPU:		+/-3.42						
QC1202574761	MB								
Alpha		U	-0.0961	pCi/Filter					01/13/1200:34
	Uncert:		+/-0.409						
	TPU:		+/-0.409						
Beta		U	0.685	pCi/Filter					
	Uncert:		+/-1.49						
	TPU:		+/-1.49						

Notes:

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- M M if above MDC and less than LLD
- M Matrix Related Failure

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QC Summary

Workorder: 293757

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
N/A	RPD or %Recovery limits do not apply.									
N1	See case narrative									
ND	Analyte concentration is not detected above the detection limit									
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.									
R	Sample results are rejected									
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.									
UI	Gamma Spectroscopy--Uncertain identification									
UJ	Gamma Spectroscopy--Uncertain identification									
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.									
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Y	QC Samples were not spiked with this compound									
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.									
h	Preparation or preservation holding time was exceeded									

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

There are no "Data Exception Reports" associated with this analytical report.

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis Report for

TIDI002 Tidewater, Inc.

Client SDG: 293758 GEL Work Order: 293758

The Qualifiers in this report are defined as follows:

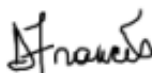
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Edith Kent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-M-1-B9
Sample ID: 293758001
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.161	+/-0.351	0.678	+/-0.351	3.60	pCi/Filter	BYS1	01/12/12	1242	1177968	1
Beta	U	-0.948	+/-1.60	2.86	+/-1.60	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU54-M-1-B10

Sample ID: 293758002

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.409	+/-0.388	0.677	+/-0.388	3.60	pCi/Filter	BYS1	01/12/12	1259	1177968	1
Beta	U	-1.84	+/-1.55	2.86	+/-1.55	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-M-1-B11
Sample ID: 293758003
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	UJ	3.60	+/-6.42	5.36	+/-6.42	3.60	pCi/Filter		BYS1	01/24/12	1519	1181650	1
Beta	UJ	2.97	+/-6.52	9.95	+/-6.52	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

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Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU54-M-1-B16

Sample ID: 293758004

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.416	+/-0.396	0.677	+/-0.396	3.60	pCi/Filter	BYS1	01/12/12	1331	1177968	1
Beta	U	-1.27	+/-1.58	2.85	+/-1.58	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1 EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU54-M-1-B12

Sample ID: 293758005

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.462	+/-0.404	0.685	+/-0.404	3.60	pCi/Filter		BYS1	01/12/12	1347	1177968	1
Beta	U	-1.96	+/-1.51	2.78	+/-1.51	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

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Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-M-1
Sample ID: 293758006
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.214	+/-0.402	0.840	+/-0.402	3.60	pCi/Filter		BYS1	01/13/12	1035	1177968	1
Beta	U	0.376	+/-1.44	2.49	+/-1.44	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU54-M-1-B13

Sample ID: 293758007

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0149	+/-0.434	0.841	+/-0.434	3.60	pCi/Filter	BYS1	01/13/12	1051	1177968	1
Beta	U	-0.21	+/-1.41	2.50	+/-1.41	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1 EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU54-M-1-B15

Sample ID: 293758008

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.609	+/-0.428	0.678	+/-0.428	3.60	pCi/Filter	BYS1	01/12/12	1436	1177968	1
Beta	U	-1.33	+/-1.58	2.86	+/-1.58	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1 EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-M-2-B1
Sample ID: 293758009
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.444	+/-0.395	0.678	+/-0.395	3.60	pCi/Filter		BYS1	01/12/12	1452	1177968	1
Beta	U	-1.64	+/-1.56	2.86	+/-1.56	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU54-M-2

Sample ID: 293758010

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.478	+/-0.394	0.678	+/-0.394	3.60	pCi/Filter	BYS1	01/12/12	1508	1177968	1
Beta	U	-2.11	+/-1.54	2.85	+/-1.54	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-M-2-B2
Sample ID: 293758011
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.135	+/-0.347	0.684	+/-0.347	3.60	pCi/Filter		BYS1	01/12/12	1524	1177968	1
Beta	U	-1.39	+/-1.53	2.78	+/-1.53	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Notes:				

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU54-G-1

Sample ID: 293758012

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0205	+/-0.441	0.840	+/-0.441	3.60	pCi/Filter		BYS1	01/13/12	1108	1177968	1
Beta	U	0.365	+/-1.44	2.49	+/-1.44	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
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1 EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-G-1-B1
Sample ID: 293758013
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.382	+/-0.379	0.678	+/-0.379	3.60	pCi/Filter		BYS1	01/12/12	1556	1177968	1
Beta	U	-2.1	+/-1.54	2.86	+/-1.54	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-G-1-B2
Sample ID: 293758014
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.182	+/-0.465	0.841	+/-0.465	3.60	pCi/Filter		BYS1	01/13/12	1124	1177968	1
Beta	U	0.0941	+/-1.42	2.48	+/-1.42	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-G-2-B1
Sample ID: 293758015
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.118	+/-0.321	0.678	+/-0.321	3.60	pCi/Filter		BYS1	01/12/12	1629	1177968	1
Beta	U	-2.3	+/-1.53	2.86	+/-1.53	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

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Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-G-2
Sample ID: 293758016
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.251	+/-0.368	0.678	+/-0.368	3.60	pCi/Filter		BYS1	01/12/12	1645	1177968	1
Beta	U	-0.901	+/-1.60	2.86	+/-1.60	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

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Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-G-2-B2
Sample ID: 293758017
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.252	+/-0.361	0.677	+/-0.361	3.60	pCi/Filter		BYS1	01/12/12	1701	1177968	1
Beta	U	-1.62	+/-1.56	2.85	+/-1.56	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

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Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-G-2A
Sample ID: 293758018
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.293	+/-0.368	0.678	+/-0.368	3.60	pCi/Filter		BYS1	01/12/12	1717	1177968	1
Beta	U	-1.48	+/-1.57	2.85	+/-1.57	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

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Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU54-G-2A-B1

Sample ID: 293758019

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.115	+/-0.371	0.731	+/-0.371	3.60	pCi/Filter	BYS1	01/12/12	1733	1177968	1
Beta	U	-1.84	+/-1.55	2.85	+/-1.55	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU54-G-2A-B2

Sample ID: 293758020

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.225	+/-0.361	0.678	+/-0.361	3.60	pCi/Filter	BYS1	01/12/12	1750	1177968	1
Beta	U	-1.21	+/-1.58	2.86	+/-1.58	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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QC Summary

Report Date: January 25, 2012

Page 1 of 2

Client : Tidewater, Inc.
7161 Columbia Gateway Drive -

Contact: Columbia, Maryland
Mr. Claude Wiblin

Workorder: 293758

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Liquid Scintillation									
Batch	1177968								
QC1202574765	LCS								
Alpha	21.4		20.8	pCi/Filter		97.1		BYS1	01/12/1218:22
	Uncert:		+/-1.90						
	TPU:		+/-1.93						
Beta	49.3		55.5	pCi/Filter		113			
	Uncert:		+/-3.33						
	TPU:		+/-3.44						
QC1202574766	LCSD								
Alpha	21.4		21.0	pCi/Filter	.978	98			01/12/1218:38
	Uncert:		+/-1.91						
	TPU:		+/-1.94						
Beta	49.3		56.9	pCi/Filter	2.52	115			
	Uncert:		+/-3.36						
	TPU:		+/-3.47						
QC1202574764	MB								
Alpha		U	0.479	pCi/Filter					01/12/1218:06
	Uncert:		+/-0.393						
	TPU:		+/-0.393						
Beta		U	-2.11	pCi/Filter					
	Uncert:		+/-1.54						
	TPU:		+/-1.54						
Batch	1181650								
QC1202583569	LCS								
Alpha	21.4		23.9	pCi/Filter		112		BYS1	01/24/1219:38
	Uncert:		+/-2.04						
	TPU:		+/-2.08						
Beta	49.3		53.1	pCi/Filter		108			
	Uncert:		+/-3.14						
	TPU:		+/-3.25						
QC1202583570	LCSD								
Alpha	21.4		23.8	pCi/Filter	.245	111			01/24/1219:54
	Uncert:		+/-2.04						
	TPU:		+/-2.07						
Beta	49.3		50.6	pCi/Filter	4.72	103			
	Uncert:		+/-3.08						
	TPU:		+/-3.18						
QC1202583568	MB								
Alpha		U	-0.0468	pCi/Filter					01/24/1219:21
	Uncert:		+/-0.522						
	TPU:		+/-0.522						
Beta		U	0.00227	pCi/Filter					
	Uncert:		+/-1.35						
	TPU:		+/-1.35						

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QC Summary

Workorder: 293758

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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Notes:

The Qualifiers in this report are defined as follows:

**	Analyte is a surrogate compound
<	Result is less than value reported
>	Result is greater than value reported
A	The TIC is a suspected aldol-condensation product
B	For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD	Results are either below the MDC or tracer recovery is low
C	Analyte has been confirmed by GC/MS analysis
D	Results are reported from a diluted aliquot of the sample
F	Estimated Value
H	Analytical holding time was exceeded
J	Value is estimated
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
M	M if above MDC and less than LLD
M	Matrix Related Failure
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI	Gamma Spectroscopy--Uncertain identification
UJ	Gamma Spectroscopy--Uncertain identification
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	QC Samples were not spiked with this compound
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

DATA EXCEPTION REPORT			
Mo.Day Yr. 25-JAN-12	Division: Radiochemistry	Quality Criteria: Specifications	Type: Process
Instrument Type: LSC	Test / Method: EPA 900.0/SW846 9310/SM 7110B Modified	Matrix Type: Filter	Client Code: TIDI
Batch ID: 1181650	Sample Numbers: see below		
Potentially affected work order(s)(SDG): 293744,293753,293758,293763,293765,293767,293768,293769,293770,293771,293772,293773 Application Issues: RDL less than MDA Other			
Specification and Requirements		DER Disposition:	
Exception Description:			
<p>1. The alpha and beta efficiencies and crosstalks for samples 293744002, 293753014, 293758003(SU54-M-1-B11), 293763002, 293765009, 293765017, 293767006, 293767008, 293767017, 293767019, 293768004, 293769009, 293770005, 293771005, 293772018, 293773014, and 293773018 were determined by extrapolating the quench curves past the calibration quench range. The samples' results are estimates.</p> <p>2. The alpha and beta efficiencies and crosstalks for sample 293773014 were obtained from sample 293744002, which had the closest quench value to sample 293773014. The sample's results are estimates.</p> <p>3. Samples 293744002, 293758003(SU54-M-1-B11), 293773014 did not meet the alpha or beta required detection limits due to the quench numbers being outside the calibration range.</p>		<p>1. Reporting results.</p> <p>2. Reporting results.</p> <p>3. Reporting results.</p>	

Originator's Name:

Jennifer Oliver 25-JAN-12

Data Validator/Group Leader:

Lyndsey Pace 25-JAN-12

GEL LABORATORIES LLC

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Certificate of Analysis Report for

TIDI002 Tidewater, Inc.

Client SDG: 293760 GEL Work Order: 293760

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Edith Kent.



Reviewed by

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-2-B26
Sample ID: 293760001
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0792	+/-0.402	0.815	+/-0.402	3.60	pCi/Filter	BYS1	01/13/12	1825	1177969	1
Beta	U	-0.204	+/-1.36	2.41	+/-1.36	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-2-B27
Sample ID: 293760002
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.158	+/-0.457	0.815	+/-0.457	3.60	pCi/Filter	BYS1	01/13/12	1841	1177969	1
Beta	U	1.09	+/-1.43	2.41	+/-1.43	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-2-B35
Sample ID: 293760003
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.144	+/-0.411	0.813	+/-0.411	3.60	pCi/Filter	BYS1	01/13/12	1857	1177969	1
Beta	U	1.45	+/-1.43	2.39	+/-1.43	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-2-B29
Sample ID: 293760004
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.0731	+/-0.410	0.814	+/-0.410	3.60	pCi/Filter		BYS1	01/13/12	1913	1177969	1
Beta	U	0.369	+/-1.39	2.41	+/-1.39	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-2-B30
Sample ID: 293760005
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.286	+/-0.464	0.815	+/-0.464	3.60	pCi/Filter	BYS1	01/13/12	1929	1177969	1
Beta	U	-0.0674	+/-1.37	2.41	+/-1.37	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-2-B32
Sample ID: 293760006
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0308	+/-0.434	0.815	+/-0.434	3.60	pCi/Filter	BYS1	01/13/12	1945	1177969	1
Beta	U	0.885	+/-1.42	2.41	+/-1.42	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-2-B40
Sample ID: 293760007
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.122	+/-0.450	0.892	+/-0.450	3.60	pCi/Filter	BYS1	01/13/12	2001	1177969	1
Beta	U	0.263	+/-1.39	2.41	+/-1.39	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-2-B33
Sample ID: 293760008
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.248	+/-0.464	0.815	+/-0.464	3.60	pCi/Filter	BYS1	01/13/12	2017	1177969	1
Beta	U	0.456	+/-1.40	2.41	+/-1.40	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-2-B37
Sample ID: 293760009
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.220	+/-0.456	0.814	+/-0.456	3.60	pCi/Filter	BYS1	01/13/12	2033	1177969	1
Beta	U	0.197	+/-1.38	2.41	+/-1.38	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-2-B36
Sample ID: 293760010
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.0426	+/-0.435	0.815	+/-0.435	3.60	pCi/Filter		BYS1	01/13/12	2049	1177969	1
Beta	U	0.727	+/-1.41	2.41	+/-1.41	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-B-2-B39
Sample ID: 293760011
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0653	+/-0.411	0.815	+/-0.411	3.60	pCi/Filter	BYS1	01/13/12	2105	1177969	1
Beta	U	0.264	+/-1.39	2.41	+/-1.39	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-G-3-B1
Sample ID: 293760012
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.408	+/-0.492	0.813	+/-0.492	3.60	pCi/Filter		BYS1	01/13/12	2122	1177969	1
Beta	U	1.01	+/-1.40	2.37	+/-1.40	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-G-3
Sample ID: 293760013
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0264	+/-0.417	0.813	+/-0.417	3.60	pCi/Filter		BYS1	01/13/12	2138	1177969	1
Beta	U	0.367	+/-1.39	2.41	+/-1.39	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-G-3-B2
Sample ID: 293760014
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0437	+/-0.411	0.814	+/-0.411	3.60	pCi/Filter		BYS1	01/13/12	2154	1177969	1
Beta	U	-0.0496	+/-1.36	2.40	+/-1.36	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-G-3-B3
Sample ID: 293760015
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0187	+/-0.418	0.814	+/-0.418	3.60	pCi/Filter		BYS1	01/13/12	2210	1177969	1
Beta	U	0.262	+/-1.39	2.41	+/-1.39	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
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1 EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-G-3-B5
Sample ID: 293760016
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0184	+/-0.427	0.815	+/-0.427	3.60	pCi/Filter	BYS1	01/13/12	2226	1177969	1
Beta	U	0.938	+/-1.42	2.41	+/-1.42	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-G-3-B7
Sample ID: 293760017
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.187	+/-0.395	0.813	+/-0.395	3.60	pCi/Filter	BYS1	01/13/12	2242	1177969	1
Beta	U	0.682	+/-1.40	2.39	+/-1.40	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-G-3-B8
Sample ID: 293760018
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.133	+/-0.441	0.814	+/-0.441	3.60	pCi/Filter		BYS1	01/13/12	2258	1177969	1
Beta	U	0.0976	+/-1.38	2.41	+/-1.38	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-1-1-B1
Sample ID: 293760019
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.155	+/-0.411	0.828	+/-0.411	3.60	pCi/Filter	BYS1	01/13/12	2314	1177969	1
Beta	U	0.926	+/-1.38	2.35	+/-1.38	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 16, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-1-1
Sample ID: 293760020
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.00175	+/-0.431	0.812	+/-0.431	3.60	pCi/Filter		BYS1	01/13/12	2330	1177969	1
Beta	U	1.26	+/-1.43	2.40	+/-1.43	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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QC Summary

Report Date: January 16, 2012

Page 1 of 2

Client : Tidewater, Inc.
7161 Columbia Gateway Drive -

Contact: Columbia, Maryland
Mr. Claude Wiblin

Workorder: 293760

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Liquid Scintillation										
Batch	1177969									
QC1202574768	LCS									
Alpha	21.4		21.4	pCi/Filter		99.8		BYS1	01/14/1200:02	
	Uncert:		+/-1.94							
	TPU:		+/-1.97							
Beta	49.3		55.8	pCi/Filter		113				
	Uncert:		+/-3.21							
	TPU:		+/-3.33							
QC1202574769	LCSD									
Alpha	21.4		20.4	pCi/Filter	4.78	95.2			01/14/1200:18	
	Uncert:		+/-1.91							
	TPU:		+/-1.93							
Beta	49.3		57.2	pCi/Filter	2.43	116				
	Uncert:		+/-3.24							
	TPU:		+/-3.36							
QC1202574767	MB									
Alpha		U	0.168	pCi/Filter					01/13/1223:46	
	Uncert:		+/-0.447							
	TPU:		+/-0.447							
Beta		U	0.253	pCi/Filter						
	Uncert:		+/-1.38							
	TPU:		+/-1.38							

Notes:

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- M M if above MDC and less than LLD
- M Matrix Related Failure

GEL LABORATORIES LLC

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QC Summary

Workorder: 293760

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
N/A	RPD or %Recovery limits do not apply.									
N1	See case narrative									
ND	Analyte concentration is not detected above the detection limit									
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.									
R	Sample results are rejected									
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.									
UI	Gamma Spectroscopy--Uncertain identification									
UJ	Gamma Spectroscopy--Uncertain identification									
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.									
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Y	QC Samples were not spiked with this compound									
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.									
h	Preparation or preservation holding time was exceeded									

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

There are no "Data Exception Reports" associated with this analytical report.

GEL LABORATORIES LLC

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Certificate of Analysis Report for

TIDI002 Tidewater, Inc.

Client SDG: 293763 GEL Work Order: 293763

The Qualifiers in this report are defined as follows:

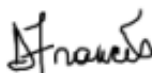
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Edith Kent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-1-3-B15
Sample ID: 293763001
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.17	+/-0.427	0.858	+/-0.427	3.60	pCi/Filter	BYS1	01/18/12	1229	1177972	1
Beta	U	1.05	+/-1.46	2.46	+/-1.46	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-1-3-B23
Sample ID: 293763002
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	UJ	-0.483	+/-0.587	1.20	+/-0.587	3.60	pCi/Filter	BYS1	01/24/12	1535	1181650	1
Beta	UJ	-0.505	+/-1.39	2.50	+/-1.39	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-1-3-B22
Sample ID: 293763003
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.22	+/-0.419	0.857	+/-0.419	3.60	pCi/Filter	BYS1	01/18/12	1302	1177972	1
Beta	U	1.11	+/-1.46	2.46	+/-1.46	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-1-3-B24
Sample ID: 293763004
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.154	+/-0.462	0.925	+/-0.462	3.60	pCi/Filter		BYS1	01/18/12	1318	1177972	1
Beta	U	0.0093	+/-1.40	2.47	+/-1.40	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU54-2-1

Sample ID: 293763005

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0719	+/-0.452	0.853	+/-0.452	3.60	pCi/Filter	BYS1	01/18/12	1334	1177972	1
Beta	U	0.261	+/-1.41	2.44	+/-1.41	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-2-1-B1
Sample ID: 293763006
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.00667	+/-0.432	0.854	+/-0.432	3.60	pCi/Filter	BYS1	01/18/12	1350	1177972	1
Beta	U	-0.525	+/-1.37	2.45	+/-1.37	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-2-2
Sample ID: 293763007
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0237	+/-0.437	0.851	+/-0.437	3.60	pCi/Filter	BYS1	01/18/12	1406	1177972	1
Beta	U	-0.316	+/-1.37	2.44	+/-1.37	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-2-2-B1
Sample ID: 293763008
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.346	+/-0.480	0.865	+/-0.480	3.60	pCi/Filter	BYS1	01/18/12	1422	1177972	1
Beta		8.21	+/-1.77	2.46	+/-1.78	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-2-2-B2
Sample ID: 293763009
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.0276	+/-0.437	0.852	+/-0.437	3.60	pCi/Filter		BYS1	01/18/12	1438	1177972	1
Beta	U	0.368	+/-1.41	2.44	+/-1.41	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-2-2-B4
Sample ID: 293763010
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.0659	+/-0.459	0.861	+/-0.459	3.60	pCi/Filter		BYS1	01/18/12	1454	1177972	1
Beta	U	0.364	+/-1.43	2.48	+/-1.43	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-2-2-B6
Sample ID: 293763011
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.148	+/-0.440	0.875	+/-0.440	3.60	pCi/Filter		BYS1	01/18/12	1510	1177972	1
Beta	U	0.825	+/-1.43	2.43	+/-1.43	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-2-2-B7
Sample ID: 293763012
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.147	+/-0.459	0.921	+/-0.459	3.60	pCi/Filter	BYS1	01/18/12	1526	1177972	1
Beta	U	-0.0931	+/-1.40	2.46	+/-1.40	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-2-2-B8
Sample ID: 293763013
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.323	+/-0.505	0.886	+/-0.505	3.60	pCi/Filter		BYS1	01/18/12	1542	1177972	1
Beta	U	-0.474	+/-1.36	2.43	+/-1.36	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-2-2-B9
Sample ID: 293763014
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.283	+/-0.481	0.855	+/-0.481	3.60	pCi/Filter	BYS1	01/18/12	1558	1177972	1
Beta	U	-0.113	+/-1.39	2.45	+/-1.39	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-2-2-B11
Sample ID: 293763015
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.133	+/-0.413	0.849	+/-0.413	3.60	pCi/Filter		BYS1	01/18/12	1614	1177972	1
Beta	U	-0.0503	+/-1.38	2.43	+/-1.38	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-2-3
Sample ID: 293763016
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.180	+/-0.468	0.855	+/-0.468	3.60	pCi/Filter		BYS1	01/18/12	1630	1177972	1
Beta	U	0.0475	+/-1.40	2.45	+/-1.40	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-2-3-B1
Sample ID: 293763017
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0515	+/-0.465	0.866	+/-0.465	3.60	pCi/Filter		BYS1	01/18/12	1647	1177972	1
Beta	U	0.621	+/-1.45	2.49	+/-1.45	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-2-3-B3
Sample ID: 293763018
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.206	+/-0.475	0.863	+/-0.475	3.60	pCi/Filter	BYS1	01/18/12	1703	1177972	1
Beta	U	-0.271	+/-1.40	2.49	+/-1.40	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-2-3-B7
Sample ID: 293763019
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.00381	+/-0.458	0.860	+/-0.458	3.60	pCi/Filter	BYS1	01/18/12	1719	1177972	1
Beta	U	1.21	+/-1.47	2.47	+/-1.47	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-2-3-B5
Sample ID: 293763020
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.135	+/-0.477	0.865	+/-0.477	3.60	pCi/Filter		BYS1	01/18/12	1735	1177972	1
Beta	U	0.725	+/-1.46	2.49	+/-1.46	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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QC Summary

Report Date: January 25, 2012

Page 1 of 2

Client : Tidewater, Inc.
7161 Columbia Gateway Drive -

Contact: Columbia, Maryland
Mr. Claude Wiblin

Workorder: 293763

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Liquid Scintillation									
Batch	1177972								
QC1202574777	LCS								
Alpha	21.4		21.5	pCi/Filter		100		BYS1	01/18/1218:07
	Uncert:		+/-1.95						
	TPU:		+/-1.98						
Beta	49.3		54.7	pCi/Filter		111			
	Uncert:		+/-3.21						
	TPU:		+/-3.32						
QC1202574778	LCSD								
Alpha	21.4		22.0	pCi/Filter	2.25	103			01/18/1218:23
	Uncert:		+/-1.97						
	TPU:		+/-2.00						
Beta	49.3		56.6	pCi/Filter	3.39	115			
	Uncert:		+/-3.25						
	TPU:		+/-3.37						
QC1202574776	MB								
Alpha		U	0.230	pCi/Filter					01/18/1217:51
	Uncert:		+/-0.482						
	TPU:		+/-0.482						
Beta		U	0.0417	pCi/Filter					
	Uncert:		+/-1.42						
	TPU:		+/-1.42						
Batch	1181650								
QC1202583569	LCS								
Alpha	21.4		23.9	pCi/Filter		112		BYS1	01/24/1219:38
	Uncert:		+/-2.04						
	TPU:		+/-2.08						
Beta	49.3		53.1	pCi/Filter		108			
	Uncert:		+/-3.14						
	TPU:		+/-3.25						
QC1202583570	LCSD								
Alpha	21.4		23.8	pCi/Filter	.245	111			01/24/1219:54
	Uncert:		+/-2.04						
	TPU:		+/-2.07						
Beta	49.3		50.6	pCi/Filter	4.72	103			
	Uncert:		+/-3.08						
	TPU:		+/-3.18						
QC1202583568	MB								
Alpha		U	-0.0468	pCi/Filter					01/24/1219:21
	Uncert:		+/-0.522						
	TPU:		+/-0.522						
Beta		U	0.00227	pCi/Filter					
	Uncert:		+/-1.35						
	TPU:		+/-1.35						

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QC Summary

Workorder: 293763

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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Notes:

The Qualifiers in this report are defined as follows:

**	Analyte is a surrogate compound
<	Result is less than value reported
>	Result is greater than value reported
A	The TIC is a suspected aldol-condensation product
B	For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD	Results are either below the MDC or tracer recovery is low
C	Analyte has been confirmed by GC/MS analysis
D	Results are reported from a diluted aliquot of the sample
F	Estimated Value
H	Analytical holding time was exceeded
J	Value is estimated
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
M	M if above MDC and less than LLD
M	Matrix Related Failure
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI	Gamma Spectroscopy--Uncertain identification
UJ	Gamma Spectroscopy--Uncertain identification
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	QC Samples were not spiked with this compound
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

DATA EXCEPTION REPORT			
Mo.Day Yr. 25-JAN-12	Division: Radiochemistry	Quality Criteria: Specifications	Type: Process
Instrument Type: LSC	Test / Method: EPA 900.0/SW846 9310/SM 7110B Modified	Matrix Type: Filter	Client Code: TIDI
Batch ID: 1181650	Sample Numbers: see below		
Potentially affected work order(s)(SDG): 293744,293753,293758,293763,293765,293767,293768,293769,293770,293771,293772,293773 Application Issues: RDL less than MDA Other			
Specification and Requirements		DER Disposition:	
Exception Description:			
<p>1. The alpha and beta efficiencies and crosstalks for samples 293744002, 293753014, 293758003, 293763002(SU54-1-3-B23), 293765009, 293765017, 293767006, 293767008, 293767017, 293767019, 293768004, 293769009, 293770005, 293771005, 293772018, 293773014, and 293773018 were determined by extrapolating the quench curves past the calibration quench range. The samples' results are estimates.</p> <p>2. The alpha and beta efficiencies and crosstalks for sample 293773014 were obtained from sample 293744002, which had the closest quench value to sample 293773014. The sample's results are estimates.</p> <p>3. Samples 293744002, 293758003, 293773014 did not meet the alpha or beta required detection limits due to the quench numbers being outside the calibration range.</p>		<p>1. Reporting results.</p> <p>2. Reporting results.</p> <p>3. Reporting results.</p>	

Originator's Name:

Jennifer Oliver 25-JAN-12

Data Validator/Group Leader:

Lyndsey Pace 25-JAN-12

GEL LABORATORIES LLC

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Certificate of Analysis Report for

TIDI002 Tidewater, Inc.

Client SDG: 293767 GEL Work Order: 293767

The Qualifiers in this report are defined as follows:

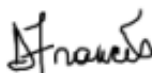
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Edith Kent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-5-B5
Sample ID: 293767001
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.257	+/-0.536	0.958	+/-0.537	3.60	pCi/Filter		BYS1	01/15/12	0750	1177974	1
Beta	U	-0.326	+/-1.37	2.43	+/-1.37	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Notes:				

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-5
Sample ID: 293767002
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.247	+/-0.462	0.956	+/-0.462	3.60	pCi/Filter	BYS1	01/15/12	0806	1177974	1
Beta	U	-0.458	+/-1.36	2.43	+/-1.36	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-5-B1
Sample ID: 293767003
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.499	+/-0.427	0.957	+/-0.427	3.60	pCi/Filter		BYS1	01/15/12	0822	1177974	1
Beta	U	-0.285	+/-1.36	2.42	+/-1.36	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU54-3-6

Sample ID: 293767004

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.323	+/-0.454	0.954	+/-0.454	3.60	pCi/Filter	BYS1	01/15/12	0838	1177974	1
Beta	U	-0.0374	+/-1.38	2.42	+/-1.38	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU54-3-6-B1

Sample ID: 293767005

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.265	+/-0.464	0.958	+/-0.464	3.60	pCi/Filter	BYS1	01/15/12	0854	1177974	1
Beta	U	-0.297	+/-1.34	2.39	+/-1.34	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-6-B5
Sample ID: 293767006
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	UJ	-0.376	+/-0.570	1.13	+/-0.570	3.60	pCi/Filter	BYS1	01/24/12	1624	1181650	1
Beta	UJ	0.793	+/-1.42	2.42	+/-1.42	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-6-B10
Sample ID: 293767007
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.169	+/-0.502	1.00	+/-0.502	3.60	pCi/Filter		BYS1	01/15/12	0926	1177974	1
Beta	U	-0.50	+/-1.33	2.38	+/-1.33	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-6-B9
Sample ID: 293767008
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	UJ	-0.507	+/-0.654	1.30	+/-0.654	3.60	pCi/Filter		BYS1	01/24/12	1640	1181650	1
Beta	UJ	-0.739	+/-1.45	2.64	+/-1.45	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-6-B6
Sample ID: 293767009
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.349	+/-0.487	1.01	+/-0.487	3.60	pCi/Filter		BYS1	01/15/12	0958	1177974	1
Beta	U	-0.0823	+/-1.35	2.39	+/-1.35	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-6-B4
Sample ID: 293767010
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.178	+/-0.484	0.957	+/-0.484	3.60	pCi/Filter		BYS1	01/15/12	1014	1177974	1
Beta	U	0.531	+/-1.41	2.43	+/-1.41	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-4-B33
Sample ID: 293767011
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.387	+/-0.449	0.957	+/-0.449	3.60	pCi/Filter	BYS1	01/15/12	1030	1177974	1
Beta	U	0.177	+/-1.39	2.43	+/-1.39	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

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Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU54-3-4-B32

Sample ID: 293767012

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.304	+/-0.464	0.958	+/-0.464	3.60	pCi/Filter	BYS1	01/15/12	1046	1177974	1
Beta	U	0.329	+/-1.40	2.43	+/-1.40	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-4-B34
Sample ID: 293767013
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.395	+/-0.450	0.958	+/-0.450	3.60	pCi/Filter		BYS1	01/15/12	1102	1177974	1
Beta	U	0.281	+/-1.40	2.43	+/-1.40	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-4-B35
Sample ID: 293767014
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.202	+/-0.482	0.964	+/-0.482	3.60	pCi/Filter		BYS1	01/15/12	1119	1177974	1
Beta	U	0.162	+/-1.36	2.37	+/-1.36	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-4-B36
Sample ID: 293767015
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.517	+/-0.451	0.974	+/-0.451	3.60	pCi/Filter		BYS1	01/15/12	1135	1177974	1
Beta	U	1.30	+/-1.41	2.37	+/-1.41	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-4-B30
Sample ID: 293767016
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.452	+/-0.449	0.970	+/-0.449	3.60	pCi/Filter		BYS1	01/15/12	1151	1177974	1
Beta	U	0.275	+/-1.36	2.37	+/-1.36	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU54-3-4-B27

Sample ID: 293767017

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	UJ	-0.344	+/-0.894	1.52	+/-0.894	3.60	pCi/Filter		BYS1	01/24/12	1656	1181650	1
Beta	UJ	0.684	+/-1.74	3.00	+/-1.74	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-4-B28
Sample ID: 293767018
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.293	+/-0.464	0.958	+/-0.464	3.60	pCi/Filter		BYS1	01/15/12	1223	1177974	1
Beta	U	0.172	+/-1.39	2.43	+/-1.39	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU54-3-4-B26

Sample ID: 293767019

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	UJ	-0.736	+/-0.706	1.38	+/-0.706	3.60	pCi/Filter		BYS1	01/24/12	1712	1181650	1
Beta	UJ	0.127	+/-1.57	2.78	+/-1.57	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-4-B24
Sample ID: 293767020
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.286	+/-0.469	0.966	+/-0.469	3.60	pCi/Filter		BYS1	01/15/12	1255	1177974	1
Beta	U	-0.0389	+/-1.34	2.37	+/-1.34	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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QC Summary

Report Date: January 25, 2012

Page 1 of 2

Client : Tidewater, Inc.
7161 Columbia Gateway Drive -

Contact: Columbia, Maryland
Mr. Claude Wiblin

Workorder: 293767

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Liquid Scintillation									
Batch	1177974								
QC1202574783	LCS								
Alpha	21.4		22.0	pCi/Filter		103		BYS1	01/15/1213:27
	Uncert:		+/-1.98						
	TPU:		+/-2.01						
Beta	49.3		55.8	pCi/Filter		113			
	Uncert:		+/-3.22						
	TPU:		+/-3.33						
QC1202574784	LCSD								
Alpha	21.4		22.4	pCi/Filter	1.92	105			01/15/1213:43
	Uncert:		+/-1.99						
	TPU:		+/-2.02						
Beta	49.3		54.6	pCi/Filter	2.15	111			
	Uncert:		+/-3.19						
	TPU:		+/-3.30						
QC1202574782	MB								
Alpha		U	0.149	pCi/Filter					01/15/1213:11
	Uncert:		+/-0.528						
	TPU:		+/-0.528						
Beta		U	0.516	pCi/Filter					
	Uncert:		+/-1.41						
	TPU:		+/-1.41						
Batch	1181650								
QC1202583569	LCS								
Alpha	21.4		23.9	pCi/Filter		112		BYS1	01/24/1219:38
	Uncert:		+/-2.04						
	TPU:		+/-2.08						
Beta	49.3		53.1	pCi/Filter		108			
	Uncert:		+/-3.14						
	TPU:		+/-3.25						
QC1202583570	LCSD								
Alpha	21.4		23.8	pCi/Filter	.245	111			01/24/1219:54
	Uncert:		+/-2.04						
	TPU:		+/-2.07						
Beta	49.3		50.6	pCi/Filter	4.72	103			
	Uncert:		+/-3.08						
	TPU:		+/-3.18						
QC1202583568	MB								
Alpha		U	-0.0468	pCi/Filter					01/24/1219:21
	Uncert:		+/-0.522						
	TPU:		+/-0.522						
Beta		U	0.00227	pCi/Filter					
	Uncert:		+/-1.35						
	TPU:		+/-1.35						

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QC Summary

Workorder: 293767

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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Notes:

The Qualifiers in this report are defined as follows:

**	Analyte is a surrogate compound
<	Result is less than value reported
>	Result is greater than value reported
A	The TIC is a suspected aldol-condensation product
B	For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD	Results are either below the MDC or tracer recovery is low
C	Analyte has been confirmed by GC/MS analysis
D	Results are reported from a diluted aliquot of the sample
F	Estimated Value
H	Analytical holding time was exceeded
J	Value is estimated
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
M	M if above MDC and less than LLD
M	Matrix Related Failure
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI	Gamma Spectroscopy--Uncertain identification
UJ	Gamma Spectroscopy--Uncertain identification
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	QC Samples were not spiked with this compound
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

DATA EXCEPTION REPORT			
Mo.Day Yr. 25-JAN-12	Division: Radiochemistry	Quality Criteria: Specifications	Type: Process
Instrument Type: LSC	Test / Method: EPA 900.0/SW846 9310/SM 7110B Modified	Matrix Type: Filter	Client Code: TIDI
Batch ID: 1181650	Sample Numbers: see below		
Potentially affected work order(s)(SDG): 293744,293753,293758,293763,293765,293767,293768,293769,293770,293771,293772,293773 Application Issues: RDL less than MDA Other			
Specification and Requirements		DER Disposition:	
Exception Description:			
1. The alpha and beta efficiencies and crosstalks for samples 293744002, 293753014, 293758003, 293763002, 293765009, 293765017, 293767006(SU54-3-6-B5), 293767008(SU54-3-6-B9), 293767017(SU54-3-4-B27), 293767019(SU54-3-4-B26), 293768004, 293769009, 293770005, 293771005, 293772018, 293773014, and 293773018 were determined by extrapolating the quench curves past the calibration quench range. The samples' results are estimates. 2. The alpha and beta efficiencies and crosstalks for sample 293773014 were obtained from sample 293744002, which had the closest quench value to sample 293773014. The sample's results are estimates. 3. Samples 293744002, 293758003, 293773014 did not meet the alpha or beta required detection limits due to the quench numbers being outside the calibration range.		1. Reporting results. 2. Reporting results. 3. Reporting results.	

Originator's Name:

Jennifer Oliver 25-JAN-12

Data Validator/Group Leader:

Lyndsey Pace 25-JAN-12

GEL LABORATORIES LLC

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Certificate of Analysis Report for

TIDI002 Tidewater, Inc.

Client SDG: 293768 GEL Work Order: 293768

The Qualifiers in this report are defined as follows:

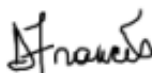
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Edith Kent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-2-B1
Sample ID: 293768001
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.223	+/-0.392	0.724	+/-0.392	3.60	pCi/Filter	BYS1	01/18/12	1856	1177975	1
Beta	U	-0.531	+/-1.39	2.49	+/-1.39	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-2-B3
Sample ID: 293768002
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.234	+/-0.546	1.07	+/-0.546	3.60	pCi/Filter	BYS1	01/21/12	0038	1177975	1
Beta	U	0.472	+/-1.40	2.41	+/-1.40	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-2-B4
Sample ID: 293768003
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.242	+/-0.411	0.733	+/-0.411	3.60	pCi/Filter		BYS1	01/18/12	1928	1177975	1
Beta	U	-0.117	+/-1.44	2.54	+/-1.44	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Company : Tidewater, Inc.
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Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-2-B5
Sample ID: 293768004
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	UJ	-0.20	+/-0.933	1.49	+/-0.933	3.60	pCi/Filter		BYS1	01/24/12	1728	1181650	1
Beta	J	3.55	+/-1.90	2.95	+/-1.90	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Address : 7161 Columbia Gateway Drive - Suite C

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Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU54-3-3

Sample ID: 293768005

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.139	+/-0.374	0.722	+/-0.374	3.60	pCi/Filter	BYS1	01/18/12	2000	1177975	1
Beta	U	-0.633	+/-1.38	2.48	+/-1.38	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1 EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

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Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-3-B1
Sample ID: 293768006
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.406	+/-0.441	0.726	+/-0.441	3.60	pCi/Filter		BYS1	01/18/12	2016	1177975	1
Beta	U	0.722	+/-1.46	2.50	+/-1.46	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-3-B2
Sample ID: 293768007
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.458	+/-0.447	0.725	+/-0.447	3.60	pCi/Filter		BYS1	01/18/12	2032	1177975	1
Beta	U	0.617	+/-1.45	2.50	+/-1.45	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-3-B3
Sample ID: 293768008
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.283	+/-0.422	0.730	+/-0.422	3.60	pCi/Filter		BYS1	01/18/12	2048	1177975	1
Beta	U	0.564	+/-1.47	2.52	+/-1.47	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Address : 7161 Columbia Gateway Drive - Suite C

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Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-4-
Sample ID: 293768009
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.377	+/-0.422	0.722	+/-0.422	3.60	pCi/Filter		BYS1	01/18/12	2104	1177975	1
Beta	U	-0.165	+/-1.41	2.48	+/-1.41	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

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Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-4-B10
Sample ID: 293768010
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.273	+/-0.417	0.732	+/-0.417	3.60	pCi/Filter	BYS1	01/18/12	2120	1177975	1
Beta	U	0.0917	+/-1.45	2.53	+/-1.45	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-4-B9
Sample ID: 293768011
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.237	+/-0.415	0.737	+/-0.415	3.60	pCi/Filter		BYS1	01/18/12	2136	1177975	1
Beta	U	0.041	+/-1.41	2.48	+/-1.41	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-4-B13
Sample ID: 293768012
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0367	+/-0.388	0.733	+/-0.388	3.60	pCi/Filter	BYS1	01/18/12	2153	1177975	1
Beta	U	0.922	+/-1.46	2.48	+/-1.46	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-4-B1
Sample ID: 293768013
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.182	+/-0.412	0.732	+/-0.412	3.60	pCi/Filter		BYS1	01/18/12	2209	1177975	1
Beta	U	0.866	+/-1.46	2.49	+/-1.46	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
---------------------------	------	----------	-----------	-------------------

Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-4-B6
Sample ID: 293768014
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.375	+/-0.422	0.730	+/-0.422	3.60	pCi/Filter		BYS1	01/18/12	2225	1177975	1
Beta	U	-0.697	+/-1.40	2.52	+/-1.40	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-4-B3
Sample ID: 293768015
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0583	+/-0.414	0.788	+/-0.414	3.60	pCi/Filter	BYS1	01/18/12	2241	1177975	1
Beta	U	-0.105	+/-1.43	2.52	+/-1.43	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

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Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-4-B8
Sample ID: 293768016
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.431	+/-0.443	0.733	+/-0.443	3.60	pCi/Filter		BYS1	01/18/12	2257	1177975	1
Beta	U	-0.127	+/-1.44	2.54	+/-1.44	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-4-B5
Sample ID: 293768017
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.474	+/-0.456	0.733	+/-0.456	3.60	pCi/Filter		BYS1	01/18/12	2313	1177975	1
Beta	U	0.551	+/-1.48	2.54	+/-1.48	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-4-B15
Sample ID: 293768018
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.0719	+/-0.378	0.732	+/-0.378	3.60	pCi/Filter		BYS1	01/18/12	2329	1177975	1
Beta	U	-0.367	+/-1.42	2.53	+/-1.42	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-4-B14
Sample ID: 293768019
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.221	+/-0.412	0.733	+/-0.412	3.60	pCi/Filter		BYS1	01/18/12	2345	1177975	1
Beta	U	0.196	+/-1.46	2.54	+/-1.46	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-4-B12
Sample ID: 293768020
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.125	+/-0.392	0.732	+/-0.392	3.60	pCi/Filter		BYS1	01/19/12	0001	1177975	1
Beta	U	0.204	+/-1.45	2.53	+/-1.45	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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QC Summary

Report Date: January 25, 2012

Page 1 of 2

Client : Tidewater, Inc.
7161 Columbia Gateway Drive -

Contact: Columbia, Maryland
Mr. Claude Wiblin

Workorder: 293768

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Liquid Scintillation									
Batch	1177975								
QC1202574786	LCS								
Alpha	21.4		22.0	pCi/Filter		103		BYS1	01/19/1200:33
	Uncert:		+/-1.95						
	TPU:		+/-1.98						
Beta	49.3		55.2	pCi/Filter		112			
	Uncert:		+/-3.23						
	TPU:		+/-3.34						
QC1202574787	LCSD								
Alpha	21.4		23.0	pCi/Filter	4.13	107			01/19/1200:50
	Uncert:		+/-1.99						
	TPU:		+/-2.02						
Beta	49.3		55.4	pCi/Filter	.372	112			
	Uncert:		+/-3.24						
	TPU:		+/-3.35						
QC1202574785	MB								
Alpha		U	0.514	pCi/Filter					01/19/1200:17
	Uncert:		+/-0.455						
	TPU:		+/-0.455						
Beta		U	-0.0246	pCi/Filter					
	Uncert:		+/-1.45						
	TPU:		+/-1.45						
Batch	1181650								
QC1202583569	LCS								
Alpha	21.4		23.9	pCi/Filter		112		BYS1	01/24/1219:38
	Uncert:		+/-2.04						
	TPU:		+/-2.08						
Beta	49.3		53.1	pCi/Filter		108			
	Uncert:		+/-3.14						
	TPU:		+/-3.25						
QC1202583570	LCSD								
Alpha	21.4		23.8	pCi/Filter	.245	111			01/24/1219:54
	Uncert:		+/-2.04						
	TPU:		+/-2.07						
Beta	49.3		50.6	pCi/Filter	4.72	103			
	Uncert:		+/-3.08						
	TPU:		+/-3.18						
QC1202583568	MB								
Alpha		U	-0.0468	pCi/Filter					01/24/1219:21
	Uncert:		+/-0.522						
	TPU:		+/-0.522						
Beta		U	0.00227	pCi/Filter					
	Uncert:		+/-1.35						
	TPU:		+/-1.35						

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QC Summary

Workorder: 293768

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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Notes:

The Qualifiers in this report are defined as follows:

**	Analyte is a surrogate compound
<	Result is less than value reported
>	Result is greater than value reported
A	The TIC is a suspected aldol-condensation product
B	For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD	Results are either below the MDC or tracer recovery is low
C	Analyte has been confirmed by GC/MS analysis
D	Results are reported from a diluted aliquot of the sample
F	Estimated Value
H	Analytical holding time was exceeded
J	Value is estimated
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
M	M if above MDC and less than LLD
M	Matrix Related Failure
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI	Gamma Spectroscopy--Uncertain identification
UJ	Gamma Spectroscopy--Uncertain identification
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	QC Samples were not spiked with this compound
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

DATA EXCEPTION REPORT			
Mo.Day Yr. 25-JAN-12	Division: Radiochemistry	Quality Criteria: Specifications	Type: Process
Instrument Type: LSC	Test / Method: EPA 900.0/SW846 9310/SM 7110B Modified	Matrix Type: Filter	Client Code: TIDI
Batch ID: 1181650	Sample Numbers: see below		
Potentially affected work order(s)(SDG): 293744,293753,293758,293763,293765,293767,293768,293769,293770,293771,293772,293773 Application Issues: RDL less than MDA Other			
Specification and Requirements		DER Disposition:	
Exception Description:			
<p>1. The alpha and beta efficiencies and crosstalks for samples 293744002, 293753014, 293758003, 293763002, 293765009, 293765017, 293767006, 293767008, 293767017, 293767019, 293768004(SU54-3-2-B5), 293769009, 293770005, 293771005, 293772018, 293773014, and 293773018 were determined by extrapolating the quench curves past the calibration quench range. The samples' results are estimates.</p> <p>2. The alpha and beta efficiencies and crosstalks for sample 293773014 were obtained from sample 293744002, which had the closest quench value to sample 293773014. The sample's results are estimates.</p> <p>3. Samples 293744002, 293758003, 293773014 did not meet the alpha or beta required detection limits due to the quench numbers being outside the calibration range.</p>		<p>1. Reporting results.</p> <p>2. Reporting results.</p> <p>3. Reporting results.</p>	

Originator's Name:
Jennifer Oliver 25-JAN-12

Data Validator/Group Leader:
Lyndsey Pace 25-JAN-12

GEL LABORATORIES LLC

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Certificate of Analysis Report for

TIDI002 Tidewater, Inc.

Client SDG: 293769 GEL Work Order: 293769

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a surrogate compound

J Value is estimated

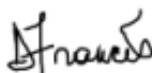
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Edith Kent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-4-B25
Sample ID: 293769001
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.207	+/-0.387	0.816	+/-0.387	3.60	pCi/Filter	BYS1	01/15/12	2044	1177976	1
Beta	U	0.270	+/-1.48	2.58	+/-1.48	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU54-3-4-B23

Sample ID: 293769002

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.236	+/-0.442	0.816	+/-0.442	3.60	pCi/Filter	BYS1	01/15/12	2100	1177976	1
Beta	U	-1.45	+/-1.38	2.55	+/-1.38	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1 EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-4-B21
Sample ID: 293769003
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.313	+/-0.422	0.922	+/-0.422	3.60	pCi/Filter		BYS1	01/15/12	2117	1177976	1
Beta	U	-1.04	+/-1.45	2.64	+/-1.45	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-4-B18
Sample ID: 293769004
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.0879	+/-0.427	0.816	+/-0.427	3.60	pCi/Filter		BYS1	01/15/12	2133	1177976	1
Beta	U	-0.623	+/-1.43	2.55	+/-1.43	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-4-B20
Sample ID: 293769005
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.0477	+/-0.412	0.818	+/-0.412	3.60	pCi/Filter		BYS1	01/15/12	2149	1177976	1
Beta	U	-1.49	+/-1.37	2.54	+/-1.37	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-4-B19
Sample ID: 293769006
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.162	+/-0.435	0.816	+/-0.435	3.60	pCi/Filter		BYS1	01/15/12	2205	1177976	1
Beta	U	-1.04	+/-1.40	2.55	+/-1.40	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-4-B17
Sample ID: 293769007
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.298	+/-0.455	0.816	+/-0.455	3.60	pCi/Filter	BYS1	01/15/12	2221	1177976	1
Beta	U	-0.903	+/-1.43	2.59	+/-1.43	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-5-B3
Sample ID: 293769008
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.00181	+/-0.412	0.817	+/-0.412	3.60	pCi/Filter	BYS1	01/15/12	2237	1177976	1
Beta	U	-0.771	+/-1.41	2.54	+/-1.41	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-5-B4
Sample ID: 293769009
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	UJ	-0.446	+/-0.940	1.60	+/-0.940	3.60	pCi/Filter		BYS1	01/24/12	1744	1181650	1
Beta	UJ	-0.152	+/-1.75	3.13	+/-1.75	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-5-B6
Sample ID: 293769010
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.259	+/-0.397	0.868	+/-0.397	3.60	pCi/Filter		BYS1	01/15/12	2310	1177976	1
Beta	U	-0.747	+/-1.42	2.56	+/-1.42	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-6-B3
Sample ID: 293769011
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.00114	+/-0.411	0.817	+/-0.411	3.60	pCi/Filter		BYS1	01/15/12	2326	1177976	1
Beta	U	-0.678	+/-1.45	2.59	+/-1.45	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-3-6-B7
Sample ID: 293769012
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0379	+/-0.411	0.817	+/-0.411	3.60	pCi/Filter	BYS1	01/15/12	2342	1177976	1
Beta	U	-1.2	+/-1.42	2.59	+/-1.42	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU54-4-1

Sample ID: 293769013

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.226	+/-0.376	0.816	+/-0.376	3.60	pCi/Filter		BYS1	01/15/12	2358	1177976	1
Beta	U	-0.0937	+/-1.47	2.59	+/-1.47	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-1-B1
Sample ID: 293769014
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.154	+/-0.377	0.817	+/-0.377	3.60	pCi/Filter		BYS1	01/16/12	0014	1177976	1
Beta	U	-1.14	+/-1.42	2.59	+/-1.42	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-1-B3
Sample ID: 293769015
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.150	+/-0.435	0.816	+/-0.435	3.60	pCi/Filter		BYS1	01/16/12	0031	1177976	1
Beta	U	-0.835	+/-1.42	2.57	+/-1.42	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-1-B4
Sample ID: 293769016
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.272	+/-0.450	0.817	+/-0.450	3.60	pCi/Filter		BYS1	01/16/12	0047	1177976	1
Beta	U	-1.21	+/-1.42	2.59	+/-1.42	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-2-B15
Sample ID: 293769017
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.0917	+/-0.403	0.816	+/-0.403	3.60	pCi/Filter		BYS1	01/16/12	0103	1177976	1
Beta	U	-0.0472	+/-1.45	2.55	+/-1.45	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-2
Sample ID: 293769018
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.076	+/-0.416	0.815	+/-0.416	3.60	pCi/Filter		BYS1	01/16/12	0119	1177976	1
Beta	U	-1.05	+/-1.42	2.59	+/-1.42	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-2-B35
Sample ID: 293769019
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.302	+/-0.464	0.816	+/-0.464	3.60	pCi/Filter		BYS1	01/16/12	0135	1177976	1
Beta	U	-0.272	+/-1.44	2.55	+/-1.44	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU54-4-2-B16

Sample ID: 293769020

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.182	+/-0.435	0.817	+/-0.435	3.60	pCi/Filter	BYS1	01/16/12	0151	1177976	1
Beta	U	-1.26	+/-1.42	2.59	+/-1.42	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1 EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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QC Summary

Client : Tidewater, Inc.
7161 Columbia Gateway Drive -

Report Date: January 25, 2012
Page 1 of 2

Contact: Columbia, Maryland
Mr. Claude Wiblin

Workorder: 293769

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Liquid Scintillation									
Batch	1177976								
QC1202574789	LCS								
Alpha	21.4		21.1	pCi/Filter		98.4		BYS1	01/16/1202:23
	Uncert:		+/-1.93						
	TPU:		+/-1.95						
Beta	49.3		53.9	pCi/Filter		109			
	Uncert:		+/-3.22						
	TPU:		+/-3.32						
QC1202574790	LCSD								
Alpha	21.4		21.7	pCi/Filter	2.92	101			01/16/1202:40
	Uncert:		+/-1.94						
	TPU:		+/-1.97						
Beta	49.3		52.8	pCi/Filter	2.09	107			
	Uncert:		+/-3.19						
	TPU:		+/-3.30						
QC1202574788	MB								
Alpha		U	0.300	pCi/Filter					01/16/1202:07
	Uncert:		+/-0.469						
	TPU:		+/-0.469						
Beta		U	0.352	pCi/Filter					
	Uncert:		+/-1.49						
	TPU:		+/-1.49						
Batch	1181650								
QC1202583569	LCS								
Alpha	21.4		23.9	pCi/Filter		112		BYS1	01/24/1219:38
	Uncert:		+/-2.04						
	TPU:		+/-2.08						
Beta	49.3		53.1	pCi/Filter		108			
	Uncert:		+/-3.14						
	TPU:		+/-3.25						
QC1202583570	LCSD								
Alpha	21.4		23.8	pCi/Filter	.245	111			01/24/1219:54
	Uncert:		+/-2.04						
	TPU:		+/-2.07						
Beta	49.3		50.6	pCi/Filter	4.72	103			
	Uncert:		+/-3.08						
	TPU:		+/-3.18						
QC1202583568	MB								
Alpha		U	-0.0468	pCi/Filter					01/24/1219:21
	Uncert:		+/-0.522						
	TPU:		+/-0.522						
Beta		U	0.00227	pCi/Filter					
	Uncert:		+/-1.35						
	TPU:		+/-1.35						

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QC Summary

Workorder: 293769

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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Notes:

The Qualifiers in this report are defined as follows:

**	Analyte is a surrogate compound
<	Result is less than value reported
>	Result is greater than value reported
A	The TIC is a suspected aldol-condensation product
B	For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD	Results are either below the MDC or tracer recovery is low
C	Analyte has been confirmed by GC/MS analysis
D	Results are reported from a diluted aliquot of the sample
F	Estimated Value
H	Analytical holding time was exceeded
J	Value is estimated
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
M	M if above MDC and less than LLD
M	Matrix Related Failure
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI	Gamma Spectroscopy--Uncertain identification
UJ	Gamma Spectroscopy--Uncertain identification
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	QC Samples were not spiked with this compound
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

DATA EXCEPTION REPORT			
Mo.Day Yr. 25-JAN-12	Division: Radiochemistry	Quality Criteria: Specifications	Type: Process
Instrument Type: LSC	Test / Method: EPA 900.0/SW846 9310/SM 7110B Modified	Matrix Type: Filter	Client Code: TIDI
Batch ID: 1181650	Sample Numbers: see below		
Potentially affected work order(s)(SDG): 293744,293753,293758,293763,293765,293767,293768,293769,293770,293771,293772,293773 Application Issues: RDL less than MDA Other			
Specification and Requirements		DER Disposition:	
Exception Description:			
1. The alpha and beta efficiencies and crosstalks for samples 293744002, 293753014, 293758003, 293763002, 293765009, 293765017, 293767006, 293767008, 293767017, 293767019, 293768004, 293769009(SU54-3-5-B4), 293770005, 293771005, 293772018, 293773014, and 293773018 were determined by extrapolating the quench curves past the calibration quench range. The samples' results are estimates. 2. The alpha and beta efficiencies and crosstalks for sample 293773014 were obtained from sample 293744002, which had the closest quench value to sample 293773014. The sample's results are estimates. 3. Samples 293744002, 293758003, 293773014 did not meet the alpha or beta required detection limits due to the quench numbers being outside the calibration range.		1. Reporting results. 2. Reporting results. 3. Reporting results.	

Originator's Name:

Jennifer Oliver 25-JAN-12

Data Validator/Group Leader:

Lyndsey Pace 25-JAN-12

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis Report for

TIDI002 Tidewater, Inc.

Client SDG: 293770 GEL Work Order: 293770

The Qualifiers in this report are defined as follows:

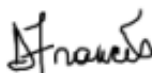
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Edith Kent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-2-B37
Sample ID: 293770001
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.186	+/-0.564	1.00	+/-0.564	3.60	pCi/Filter		BYS1	01/19/12	0656	1177977	1
Beta	U	0.813	+/-1.49	2.54	+/-1.49	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-2-B23
Sample ID: 293770002
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.227	+/-0.484	0.992	+/-0.484	3.60	pCi/Filter		BYS1	01/19/12	0712	1177977	1
Beta	U	-0.674	+/-1.43	2.56	+/-1.43	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-2-B5
Sample ID: 293770003
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.0331	+/-0.612	1.10	+/-0.612	3.60	pCi/Filter		BYS1	01/19/12	0728	1177977	1
Beta	U	1.98	+/-1.58	2.59	+/-1.58	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-2-B11
Sample ID: 293770004
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.00287	+/-0.505	0.985	+/-0.505	3.60	pCi/Filter		BYS1	01/19/12	0744	1177977	1
Beta	U	-1.26	+/-1.39	2.54	+/-1.39	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-2-B30
Sample ID: 293770005
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	UJ	0.343	+/-1.81	2.16	+/-1.81	3.60	pCi/Filter		BYS1	01/24/12	1801	1181650	1
Beta	J	5.64	+/-2.80	4.09	+/-2.80	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-2-B9
Sample ID: 293770006
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.209	+/-0.492	1.00	+/-0.492	3.60	pCi/Filter		BYS1	01/19/12	0816	1177977	1
Beta	U	-1.13	+/-1.40	2.56	+/-1.40	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-2-B4
Sample ID: 293770007
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.424	+/-0.460	0.986	+/-0.460	3.60	pCi/Filter		BYS1	01/19/12	0833	1177977	1
Beta	U	0.168	+/-1.46	2.54	+/-1.46	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-2-B32
Sample ID: 293770008
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.402	+/-0.462	0.989	+/-0.462	3.60	pCi/Filter		BYS1	01/19/12	0849	1177977	1
Beta	U	-0.145	+/-1.45	2.55	+/-1.45	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-2-B18
Sample ID: 293770009
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.421	+/-0.651	1.09	+/-0.651	3.60	pCi/Filter		BYS1	01/19/12	0905	1177977	1
Beta	U	1.60	+/-1.56	2.58	+/-1.56	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3
Sample ID: 293770010
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.16	+/-0.482	0.979	+/-0.482	3.60	pCi/Filter		BYS1	01/19/12	0921	1177977	1
Beta	U	-0.891	+/-1.39	2.52	+/-1.39	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B16
Sample ID: 293770011
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.244	+/-0.492	1.00	+/-0.492	3.60	pCi/Filter	BYS1	01/19/12	0937	1177977	1
Beta	U	-0.558	+/-1.45	2.59	+/-1.45	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B15
Sample ID: 293770012
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.112	+/-0.512	0.995	+/-0.512	3.60	pCi/Filter		BYS1	01/19/12	0954	1177977	1
Beta	U	0.266	+/-1.48	2.57	+/-1.48	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B54
Sample ID: 293770013
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.188	+/-0.532	1.05	+/-0.532	3.60	pCi/Filter	BYS1	01/19/12	1010	1177977	1
Beta	U	-0.194	+/-1.44	2.54	+/-1.44	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B39
Sample ID: 293770014
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0691	+/-0.510	0.992	+/-0.510	3.60	pCi/Filter	BYS1	01/19/12	1026	1177977	1
Beta	U	-0.312	+/-1.45	2.56	+/-1.45	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B53
Sample ID: 293770015
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0735	+/-0.519	1.00	+/-0.519	3.60	pCi/Filter	BYS1	01/19/12	1042	1177977	1
Beta	U	-0.307	+/-1.46	2.58	+/-1.46	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B12
Sample ID: 293770016
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.123	+/-0.512	1.00	+/-0.512	3.60	pCi/Filter		BYS1	01/19/12	1058	1177977	1
Beta	U	-0.254	+/-1.47	2.59	+/-1.47	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B13
Sample ID: 293770017
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.35	+/-0.482	1.02	+/-0.482	3.60	pCi/Filter		BYS1	01/19/12	1114	1177977	1
Beta	U	-1.41	+/-1.37	2.53	+/-1.37	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B14
Sample ID: 293770018
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.0851	+/-0.512	0.996	+/-0.512	3.60	pCi/Filter		BYS1	01/19/12	1130	1177977	1
Beta	U	-0.101	+/-1.46	2.57	+/-1.46	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B33
Sample ID: 293770019
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.489	+/-0.447	1.00	+/-0.447	3.60	pCi/Filter		BYS1	01/19/12	1147	1177977	1
Beta	U	-0.97	+/-1.43	2.59	+/-1.43	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B38
Sample ID: 293770020
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.162	+/-0.498	0.994	+/-0.498	3.60	pCi/Filter		BYS1	01/19/12	1203	1177977	1
Beta	U	-0.309	+/-1.45	2.57	+/-1.45	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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QC Summary

Report Date: January 25, 2012

Page 1 of 2

Client : Tidewater, Inc.
7161 Columbia Gateway Drive -

Contact: Columbia, Maryland
Mr. Claude Wiblin

Workorder: 293770

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Liquid Scintillation									
Batch	1177977								
QC1202574792	LCS								
Alpha	21.4		22.7	pCi/Filter		106		BYS1	01/19/1212:35
	Uncert:		+/-2.01						
	TPU:		+/-2.05						
Beta	49.3		54.9	pCi/Filter		111			
	Uncert:		+/-3.24						
	TPU:		+/-3.35						
QC1202574793	LCSD								
Alpha	21.4		23.1	pCi/Filter	1.52	108			01/19/1212:51
	Uncert:		+/-2.02						
	TPU:		+/-2.05						
Beta	49.3		51.3	pCi/Filter	6.82	104			
	Uncert:		+/-3.16						
	TPU:		+/-3.26						
QC1202574791	MB								
Alpha		U	0.200	pCi/Filter					01/19/1212:19
	Uncert:		+/-0.540						
	TPU:		+/-0.540						
Beta		U	-1.47	pCi/Filter					
	Uncert:		+/-1.40						
	TPU:		+/-1.40						
Batch	1181650								
QC1202583569	LCS								
Alpha	21.4		23.9	pCi/Filter		112		BYS1	01/24/1219:38
	Uncert:		+/-2.04						
	TPU:		+/-2.08						
Beta	49.3		53.1	pCi/Filter		108			
	Uncert:		+/-3.14						
	TPU:		+/-3.25						
QC1202583570	LCSD								
Alpha	21.4		23.8	pCi/Filter	.245	111			01/24/1219:54
	Uncert:		+/-2.04						
	TPU:		+/-2.07						
Beta	49.3		50.6	pCi/Filter	4.72	103			
	Uncert:		+/-3.08						
	TPU:		+/-3.18						
QC1202583568	MB								
Alpha		U	-0.0468	pCi/Filter					01/24/1219:21
	Uncert:		+/-0.522						
	TPU:		+/-0.522						
Beta		U	0.00227	pCi/Filter					
	Uncert:		+/-1.35						
	TPU:		+/-1.35						

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QC Summary

Workorder: 293770

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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Notes:

The Qualifiers in this report are defined as follows:

**	Analyte is a surrogate compound
<	Result is less than value reported
>	Result is greater than value reported
A	The TIC is a suspected aldol-condensation product
B	For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD	Results are either below the MDC or tracer recovery is low
C	Analyte has been confirmed by GC/MS analysis
D	Results are reported from a diluted aliquot of the sample
F	Estimated Value
H	Analytical holding time was exceeded
J	Value is estimated
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
M	M if above MDC and less than LLD
M	Matrix Related Failure
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI	Gamma Spectroscopy--Uncertain identification
UJ	Gamma Spectroscopy--Uncertain identification
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	QC Samples were not spiked with this compound
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

DATA EXCEPTION REPORT			
Mo.Day Yr. 25-JAN-12	Division: Radiochemistry	Quality Criteria: Specifications	Type: Process
Instrument Type: LSC	Test / Method: EPA 900.0/SW846 9310/SM 7110B Modified	Matrix Type: Filter	Client Code: TIDI
Batch ID: 1181650	Sample Numbers: see below		
Potentially affected work order(s)(SDG): 293744,293753,293758,293763,293765,293767,293768,293769,293770,293771,293772,293773 Application Issues: RDL less than MDA Other			
Specification and Requirements		DER Disposition:	
Exception Description:			
1. The alpha and beta efficiencies and crosstalks for samples 293744002, 293753014, 293758003, 293763002, 293765009, 293765017, 293767006, 293767008, 293767017, 293767019, 293768004, 293769009, 293770005(SU54-4-2-B30), 293771005, 293772018, 293773014, and 293773018 were determined by extrapolating the quench curves past the calibration quench range. The samples' results are estimates. 2. The alpha and beta efficiencies and crosstalks for sample 293773014 were obtained from sample 293744002, which had the closest quench value to sample 293773014. The sample's results are estimates. 3. Samples 293744002, 293758003, 293773014 did not meet the alpha or beta required detection limits due to the quench numbers being outside the calibration range.		1. Reporting results. 2. Reporting results. 3. Reporting results.	

Originator's Name:

Jennifer Oliver 25-JAN-12

Data Validator/Group Leader:

Lyndsey Pace 25-JAN-12

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis Report for

TIDI002 Tidewater, Inc.

Client SDG: 293771 GEL Work Order: 293771

The Qualifiers in this report are defined as follows:

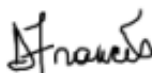
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Edith Kent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU-54-4-2-B19
Sample ID: 293771001
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha		0.890	+/-0.558	0.805	+/-0.558	3.60	pCi/Filter		BYS1	01/15/12	1416	1177978	1
Beta	U	1.39	+/-1.44	2.40	+/-1.44	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Notes:				

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU-54-4-2-B29

Sample ID: 293771002

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0598	+/-0.402	0.788	+/-0.402	3.60	pCi/Filter	BYS1	01/15/12	1432	1177978	1
Beta	U	0.838	+/-1.45	2.47	+/-1.45	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU-54-4-2-B34

Sample ID: 293771003

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0918	+/-0.394	0.788	+/-0.394	3.60	pCi/Filter		BYS1	01/15/12	1448	1177978	1
Beta	U	0.631	+/-1.44	2.47	+/-1.44	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU-54-4-2-B31

Sample ID: 293771004

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.142	+/-0.427	0.788	+/-0.427	3.60	pCi/Filter	BYS1	01/15/12	1505	1177978	1
Beta	U	-0.0075	+/-1.40	2.46	+/-1.40	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU-54-4-2-B22

Sample ID: 293771005

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	UJ	0.222	+/-0.791	1.32	+/-0.791	3.60	pCi/Filter	BYS1	01/24/12	1817	1181650	1
Beta	UJ	1.34	+/-1.60	2.68	+/-1.61	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1 EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU-54-4-2-B7
Sample ID: 293771006
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.330	+/-0.464	0.787	+/-0.464	3.60	pCi/Filter		BYS1	01/15/12	1537	1177978	1
Beta	U	0.707	+/-1.43	2.44	+/-1.43	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
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Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU-54-4-2-B13

Sample ID: 293771007

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.601	+/-0.499	0.787	+/-0.499	3.60	pCi/Filter	BYS1	01/15/12	1553	1177978	1
Beta	U	0.230	+/-1.39	2.42	+/-1.39	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1 EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU-54-4-2-B20

Sample ID: 293771008

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.00744	+/-0.402	0.789	+/-0.402	3.60	pCi/Filter	BYS1	01/15/12	1609	1177978	1
Beta	U	0.105	+/-1.41	2.47	+/-1.41	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1 EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU-54-4-2-B8
Sample ID: 293771009
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.497	+/-0.485	0.786	+/-0.485	3.60	pCi/Filter		BYS1	01/15/12	1625	1177978	1
Beta	U	0.337	+/-1.41	2.43	+/-1.41	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU-54-4-2-B27

Sample ID: 293771010

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.171	+/-0.426	0.789	+/-0.426	3.60	pCi/Filter	BYS1	01/15/12	1641	1177978	1
Beta	U	-0.426	+/-1.38	2.47	+/-1.38	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU-54-4-2-B36
Sample ID: 293771011
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.291	+/-0.457	0.787	+/-0.457	3.60	pCi/Filter	BYS1	01/15/12	1658	1177978	1
Beta	U	0.605	+/-1.42	2.44	+/-1.42	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU-54-4-2-B12

Sample ID: 293771012

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.0416	+/-0.401	0.787	+/-0.401	3.60	pCi/Filter		BYS1	01/15/12	1714	1177978	1
Beta	U	0.577	+/-1.43	2.46	+/-1.43	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU-54-4-2-B14

Sample ID: 293771013

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0214	+/-0.404	0.788	+/-0.404	3.60	pCi/Filter	BYS1	01/15/12	1730	1177978	1
Beta	U	0.313	+/-1.42	2.46	+/-1.42	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1 EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU-54-4-2-B3
Sample ID: 293771014
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.178	+/-0.425	0.788	+/-0.425	3.60	pCi/Filter	BYS1	01/15/12	1746	1177978	1
Beta	U	-0.531	+/-1.38	2.47	+/-1.38	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU-54-4-2-B38

Sample ID: 293771015

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0819	+/-0.427	0.788	+/-0.427	3.60	pCi/Filter	BYS1	01/15/12	1802	1177978	1
Beta	U	0.877	+/-1.44	2.45	+/-1.44	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
--------	-------------

1 EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

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Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU-54-4-2-B25

Sample ID: 293771016

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.0812	+/-0.428	0.788	+/-0.428	3.60	pCi/Filter		BYS1	01/15/12	1818	1177978	1
Beta	U	0.878	+/-1.45	2.46	+/-1.45	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

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Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU-54-4-2-B39

Sample ID: 293771017

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0939	+/-0.427	0.786	+/-0.427	3.60	pCi/Filter	BYS1	01/15/12	1835	1177978	1
Beta	U	0.719	+/-1.43	2.44	+/-1.43	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1 EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

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Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU-54-4-2-B26

Sample ID: 293771018

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.288	+/-0.458	0.788	+/-0.458	3.60	pCi/Filter	BYS1	01/15/12	1851	1177978	1
Beta	U	0.608	+/-1.43	2.46	+/-1.43	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
--------	-------------

1 EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

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Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU-54-4-2-B1
Sample ID: 293771019
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.438	+/-0.471	0.789	+/-0.471	3.60	pCi/Filter		BYS1	01/15/12	1907	1177978	1
Beta	U	-0.232	+/-1.39	2.47	+/-1.39	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU-54-4-2-B6
Sample ID: 293771020
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.434	+/-0.479	0.787	+/-0.479	3.60	pCi/Filter		BYS1	01/15/12	1923	1177978	1
Beta	U	0.598	+/-1.41	2.43	+/-1.41	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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QC Summary

Report Date: January 25, 2012

Page 1 of 2

Client : Tidewater, Inc.
7161 Columbia Gateway Drive -

Contact: Columbia, Maryland
Mr. Claude Wiblin

Workorder: 293771

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Liquid Scintillation									
Batch	1177978								
QC1202574795	LCS								
Alpha	21.4		19.9	pCi/Filter		93		BYS1	01/15/1219:55
	Uncert:		+/-1.88						
	TPU:		+/-1.91						
Beta	49.3		55.2	pCi/Filter		112			
	Uncert:		+/-3.21						
	TPU:		+/-3.32						
QC1202574796	LCSD								
Alpha	21.4		20.9	pCi/Filter	4.9	97.7			01/15/1220:12
	Uncert:		+/-1.92						
	TPU:		+/-1.95						
Beta	49.3		56.3	pCi/Filter	1.96	114			
	Uncert:		+/-3.24						
	TPU:		+/-3.35						
QC1202574794	MB								
Alpha		U	0.00882	pCi/Filter					01/15/1219:39
	Uncert:		+/-0.409						
	TPU:		+/-0.409						
Beta		U	0.523	pCi/Filter					
	Uncert:		+/-1.43						
	TPU:		+/-1.43						
Batch	1181650								
QC1202583569	LCS								
Alpha	21.4		23.9	pCi/Filter		112		BYS1	01/24/1219:38
	Uncert:		+/-2.04						
	TPU:		+/-2.08						
Beta	49.3		53.1	pCi/Filter		108			
	Uncert:		+/-3.14						
	TPU:		+/-3.25						
QC1202583570	LCSD								
Alpha	21.4		23.8	pCi/Filter	.245	111			01/24/1219:54
	Uncert:		+/-2.04						
	TPU:		+/-2.07						
Beta	49.3		50.6	pCi/Filter	4.72	103			
	Uncert:		+/-3.08						
	TPU:		+/-3.18						
QC1202583568	MB								
Alpha		U	-0.0468	pCi/Filter					01/24/1219:21
	Uncert:		+/-0.522						
	TPU:		+/-0.522						
Beta		U	0.00227	pCi/Filter					
	Uncert:		+/-1.35						
	TPU:		+/-1.35						

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QC Summary

Workorder: 293771

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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Notes:

The Qualifiers in this report are defined as follows:

**	Analyte is a surrogate compound
<	Result is less than value reported
>	Result is greater than value reported
A	The TIC is a suspected aldol-condensation product
B	For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD	Results are either below the MDC or tracer recovery is low
C	Analyte has been confirmed by GC/MS analysis
D	Results are reported from a diluted aliquot of the sample
F	Estimated Value
H	Analytical holding time was exceeded
J	Value is estimated
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
M	M if above MDC and less than LLD
M	Matrix Related Failure
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI	Gamma Spectroscopy--Uncertain identification
UJ	Gamma Spectroscopy--Uncertain identification
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	QC Samples were not spiked with this compound
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

DATA EXCEPTION REPORT			
Mo.Day Yr. 25-JAN-12	Division: Radiochemistry	Quality Criteria: Specifications	Type: Process
Instrument Type: LSC	Test / Method: EPA 900.0/SW846 9310/SM 7110B Modified	Matrix Type: Filter	Client Code: TIDI
Batch ID: 1181650	Sample Numbers: see below		
Potentially affected work order(s)(SDG): 293744,293753,293758,293763,293765,293767,293768,293769,293770,293771,293772,293773 Application Issues: RDL less than MDA Other			
Specification and Requirements		DER Disposition:	
Exception Description:			
1. The alpha and beta efficiencies and crosstalks for samples 293744002, 293753014, 293758003, 293763002, 293765009, 293765017, 293767006, 293767008, 293767017, 293767019, 293768004, 293769009, 293770005, 293771005(SU-54-4-2-B22), 293772018, 293773014, and 293773018 were determined by extrapolating the quench curves past the calibration quench range. The samples' results are estimates. 2. The alpha and beta efficiencies and crosstalks for sample 293773014 were obtained from sample 293744002, which had the closest quench value to sample 293773014. The sample's results are estimates. 3. Samples 293744002, 293758003, 293773014 did not meet the alpha or beta required detection limits due to the quench numbers being outside the calibration range.		1. Reporting results. 2. Reporting results. 3. Reporting results.	

Originator's Name:
Jennifer Oliver 25-JAN-12

Data Validator/Group Leader:
Lyndsey Pace 25-JAN-12

GEL LABORATORIES LLC

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Certificate of Analysis Report for

TIDI002 Tidewater, Inc.

Client SDG: 293772 GEL Work Order: 293772

The Qualifiers in this report are defined as follows:

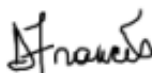
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Edith Kent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B35
Sample ID: 293772001
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.679	+/-0.485	0.730	+/-0.485	3.60	pCi/Filter	BYS1	01/19/12	1324	1177980	1
Beta	U	0.379	+/-1.38	2.39	+/-1.38	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-4-B5
Sample ID: 293772002
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.085	+/-0.386	0.730	+/-0.386	3.60	pCi/Filter	BYS1	01/19/12	1340	1177980	1
Beta	U	0.150	+/-1.34	2.35	+/-1.34	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-4-B13
Sample ID: 293772003
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.0708	+/-0.386	0.729	+/-0.386	3.60	pCi/Filter		BYS1	01/19/12	1356	1177980	1
Beta	U	0.358	+/-1.36	2.36	+/-1.36	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

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Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-4
Sample ID: 293772004
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.0543	+/-0.375	0.730	+/-0.375	3.60	pCi/Filter		BYS1	01/19/12	1412	1177980	1
Beta	U	-0.107	+/-1.35	2.39	+/-1.35	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-4-B11
Sample ID: 293772005
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.206	+/-0.411	0.731	+/-0.411	3.60	pCi/Filter		BYS1	01/19/12	1429	1177980	1
Beta	U	0.405	+/-1.38	2.39	+/-1.38	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-4-B10
Sample ID: 293772006
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.0141	+/-0.378	0.731	+/-0.378	3.60	pCi/Filter		BYS1	01/19/12	1445	1177980	1
Beta	U	0.468	+/-1.39	2.39	+/-1.39	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-4-B12
Sample ID: 293772007
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.342	+/-0.443	0.731	+/-0.443	3.60	pCi/Filter		BYS1	01/19/12	1501	1177980	1
Beta	U	1.18	+/-1.42	2.39	+/-1.42	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-4-B9
Sample ID: 293772008
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.00185	+/-0.386	0.731	+/-0.386	3.60	pCi/Filter	BYS1	01/19/12	1517	1177980	1
Beta	U	1.30	+/-1.43	2.39	+/-1.43	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-4-B8
Sample ID: 293772009
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.257	+/-0.411	0.731	+/-0.411	3.60	pCi/Filter		BYS1	01/19/12	1533	1177980	1
Beta	U	-0.326	+/-1.34	2.39	+/-1.34	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-4-B4
Sample ID: 293772010
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.0214	+/-0.386	0.729	+/-0.386	3.60	pCi/Filter		BYS1	01/19/12	1549	1177980	1
Beta	U	1.13	+/-1.40	2.35	+/-1.40	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-4-B7
Sample ID: 293772011
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.491	+/-0.449	0.729	+/-0.449	3.60	pCi/Filter	BYS1	01/19/12	1606	1177980	1
Beta	U	-0.281	+/-1.33	2.36	+/-1.33	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-4-B2
Sample ID: 293772012
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.109	+/-0.364	0.737	+/-0.364	3.60	pCi/Filter		BYS1	01/19/12	1622	1177980	1
Beta	U	0.977	+/-1.38	2.33	+/-1.38	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-4-B1
Sample ID: 293772013
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.132	+/-0.350	0.729	+/-0.350	3.60	pCi/Filter		BYS1	01/19/12	1638	1177980	1
Beta	U	0.573	+/-1.37	2.36	+/-1.37	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-4-B6
Sample ID: 293772014
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.144	+/-0.393	0.730	+/-0.393	3.60	pCi/Filter		BYS1	01/19/12	1654	1177980	1
Beta	U	-0.0594	+/-1.36	2.39	+/-1.36	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-4-B3
Sample ID: 293772015
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.0201	+/-0.386	0.731	+/-0.386	3.60	pCi/Filter		BYS1	01/19/12	1710	1177980	1
Beta	U	1.04	+/-1.42	2.39	+/-1.42	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B6
Sample ID: 293772016
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.0719	+/-0.397	0.733	+/-0.397	3.60	pCi/Filter		BYS1	01/19/12	1726	1177980	1
Beta	U	1.13	+/-1.39	2.34	+/-1.39	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B55
Sample ID: 293772017
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.221	+/-0.420	0.731	+/-0.420	3.60	pCi/Filter		BYS1	01/19/12	1743	1177980	1
Beta	U	0.872	+/-1.41	2.39	+/-1.41	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B48
Sample ID: 293772018
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	UJ	-1.45	+/-2.16	2.75	+/-2.16	3.60	pCi/Filter		BYS1	01/24/12	1833	1181650	1
Beta	UJ	1.44	+/-2.99	5.15	+/-3.00	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B41
Sample ID: 293772019
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.253	+/-0.410	0.731	+/-0.410	3.60	pCi/Filter		BYS1	01/19/12	1815	1177980	1
Beta	U	-0.274	+/-1.35	2.39	+/-1.35	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B2
Sample ID: 293772020
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.244	+/-0.411	0.729	+/-0.411	3.60	pCi/Filter		BYS1	01/19/12	1831	1177980	1
Beta	U	-0.114	+/-1.33	2.35	+/-1.33	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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QC Summary

Report Date: January 25, 2012

Page 1 of 2

Client : Tidewater, Inc.
7161 Columbia Gateway Drive -

Contact: Columbia, Maryland
Mr. Claude Wiblin

Workorder: 293772

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Liquid Scintillation									
Batch	1177980								
QC1202574798	LCS								
Alpha	21.4		23.5	pCi/Filter		110		BYS1	01/19/1219:03
	Uncert:		+/-2.01						
	TPU:		+/-2.04						
Beta	49.3		55.6	pCi/Filter		113			
	Uncert:		+/-3.21						
	TPU:		+/-3.32						
QC1202574799	LCSD								
Alpha	21.4		23.1	pCi/Filter	1.67	108			01/19/1219:19
	Uncert:		+/-1.99						
	TPU:		+/-2.02						
Beta	49.3		55.5	pCi/Filter	.291	112			
	Uncert:		+/-3.20						
	TPU:		+/-3.32						
QC1202574797	MB								
Alpha		U	0.339	pCi/Filter					01/19/1218:47
	Uncert:		+/-0.448						
	TPU:		+/-0.448						
Beta		U	1.76	pCi/Filter					
	Uncert:		+/-1.45						
	TPU:		+/-1.45						
Batch	1181650								
QC1202583569	LCS								
Alpha	21.4		23.9	pCi/Filter		112		BYS1	01/24/1219:38
	Uncert:		+/-2.04						
	TPU:		+/-2.08						
Beta	49.3		53.1	pCi/Filter		108			
	Uncert:		+/-3.14						
	TPU:		+/-3.25						
QC1202583570	LCSD								
Alpha	21.4		23.8	pCi/Filter	.245	111			01/24/1219:54
	Uncert:		+/-2.04						
	TPU:		+/-2.07						
Beta	49.3		50.6	pCi/Filter	4.72	103			
	Uncert:		+/-3.08						
	TPU:		+/-3.18						
QC1202583568	MB								
Alpha		U	-0.0468	pCi/Filter					01/24/1219:21
	Uncert:		+/-0.522						
	TPU:		+/-0.522						
Beta		U	0.00227	pCi/Filter					
	Uncert:		+/-1.35						
	TPU:		+/-1.35						

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QC Summary

Workorder: 293772

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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Notes:

The Qualifiers in this report are defined as follows:

**	Analyte is a surrogate compound
<	Result is less than value reported
>	Result is greater than value reported
A	The TIC is a suspected aldol-condensation product
B	For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD	Results are either below the MDC or tracer recovery is low
C	Analyte has been confirmed by GC/MS analysis
D	Results are reported from a diluted aliquot of the sample
F	Estimated Value
H	Analytical holding time was exceeded
J	Value is estimated
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
M	M if above MDC and less than LLD
M	Matrix Related Failure
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI	Gamma Spectroscopy--Uncertain identification
UJ	Gamma Spectroscopy--Uncertain identification
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	QC Samples were not spiked with this compound
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

DATA EXCEPTION REPORT			
Mo.Day Yr. 25-JAN-12	Division: Radiochemistry	Quality Criteria: Specifications	Type: Process
Instrument Type: LSC	Test / Method: EPA 900.0/SW846 9310/SM 7110B Modified	Matrix Type: Filter	Client Code: TIDI
Batch ID: 1181650	Sample Numbers: see below		
Potentially affected work order(s)(SDG): 293744,293753,293758,293763,293765,293767,293768,293769,293770,293771,293772,293773 Application Issues: RDL less than MDA Other			
Specification and Requirements		DER Disposition:	
Exception Description:			
1. The alpha and beta efficiencies and crosstalks for samples 293744002, 293753014, 293758003, 293763002, 293765009, 293765017, 293767006, 293767008, 293767017, 293767019, 293768004, 293769009, 293770005, 293771005, 293772018(SU54-4-3-B48), 293773014, and 293773018 were determined by extrapolating the quench curves past the calibration quench range. The samples' results are estimates. 2. The alpha and beta efficiencies and crosstalks for sample 293773014 were obtained from sample 293744002, which had the closest quench value to sample 293773014. The sample's results are estimates. 3. Samples 293744002, 293758003, 293773014 did not meet the alpha or beta required detection limits due to the quench numbers being outside the calibration range.		1. Reporting results. 2. Reporting results. 3. Reporting results.	

Originator's Name:

Jennifer Oliver 25-JAN-12

Data Validator/Group Leader:

Lyndsey Pace 25-JAN-12

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis Report for

TIDI002 Tidewater, Inc.

Client SDG: 293773 GEL Work Order: 293773

The Qualifiers in this report are defined as follows:

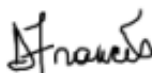
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Edith Kent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B7
Sample ID: 293773001
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.232	+/-0.490	0.865	+/-0.490	3.60	pCi/Filter		BYS1	01/19/12	1952	1177982	1
Beta	U	0.668	+/-1.44	2.47	+/-1.44	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B34
Sample ID: 293773002
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.312	+/-0.535	0.910	+/-0.535	3.60	pCi/Filter	BYS1	01/19/12	2009	1177982	1
Beta	U	1.46	+/-1.46	2.43	+/-1.46	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B36
Sample ID: 293773003
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.109	+/-0.464	0.866	+/-0.464	3.60	pCi/Filter	BYS1	01/19/12	2025	1177982	1
Beta	U	-0.214	+/-1.40	2.48	+/-1.40	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B5
Sample ID: 293773004
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0153	+/-0.445	0.862	+/-0.445	3.60	pCi/Filter	BYS1	01/19/12	2041	1177982	1
Beta	U	0.210	+/-1.41	2.46	+/-1.41	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B3
Sample ID: 293773005
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.112	+/-0.464	0.866	+/-0.464	3.60	pCi/Filter		BYS1	01/19/12	2057	1177982	1
Beta	U	-0.266	+/-1.40	2.48	+/-1.40	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B1
Sample ID: 293773006
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.163	+/-0.425	0.865	+/-0.425	3.60	pCi/Filter	BYS1	01/19/12	2113	1177982	1
Beta	U	0.322	+/-1.42	2.47	+/-1.42	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B56

Sample ID: 293773007

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0468	+/-0.441	0.865	+/-0.441	3.60	pCi/Filter	BYS1	01/19/12	2129	1177982	1
Beta	U	0.00234	+/-1.41	2.47	+/-1.41	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1 EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B49
Sample ID: 293773008
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.000121	+/-0.458	0.866	+/-0.458	3.60	pCi/Filter		BYS1	01/19/12	2145	1177982	1
Beta	U	0.676	+/-1.44	2.47	+/-1.44	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B8
Sample ID: 293773009
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.0958	+/-0.441	0.865	+/-0.441	3.60	pCi/Filter		BYS1	01/19/12	2202	1177982	1
Beta	U	0.684	+/-1.44	2.47	+/-1.44	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B43
Sample ID: 293773010
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.254	+/-0.485	0.866	+/-0.485	3.60	pCi/Filter		BYS1	01/19/12	2218	1177982	1
Beta	U	-0.274	+/-1.40	2.47	+/-1.40	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B57
Sample ID: 293773011
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.177	+/-0.442	0.892	+/-0.442	3.60	pCi/Filter		BYS1	01/19/12	2234	1177982	1
Beta	U	0.467	+/-1.40	2.42	+/-1.40	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Notes:				

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-5-B1
Sample ID: 293773012
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.120	+/-0.472	0.866	+/-0.472	3.60	pCi/Filter		BYS1	01/19/12	2250	1177982	1
Beta	U	0.305	+/-1.42	2.47	+/-1.42	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-5-B6
Sample ID: 293773013
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.229	+/-0.419	0.866	+/-0.419	3.60	pCi/Filter		BYS1	01/19/12	2306	1177982	1
Beta	U	0.585	+/-1.44	2.48	+/-1.44	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-5-B9
Sample ID: 293773014
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	UJ	-7.47	+/-21.3	19.7	+/-21.3	3.60	pCi/Filter		BYS1	01/24/12	1849	1181650	1
Beta	UJ	1.52	+/-17.9	36.4	+/-17.9	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-5-B5
Sample ID: 293773015
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0396	+/-0.471	0.888	+/-0.471	3.60	pCi/Filter		BYS1	01/19/12	2339	1177982	1
Beta	U	0.151	+/-1.38	2.41	+/-1.38	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-5-B8
Sample ID: 293773016
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.0793	+/-0.443	0.866	+/-0.443	3.60	pCi/Filter		BYS1	01/19/12	2355	1177982	1
Beta	U	0.472	+/-1.43	2.47	+/-1.43	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-5-B10
Sample ID: 293773017
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.0877	+/-0.464	0.865	+/-0.464	3.60	pCi/Filter		BYS1	01/20/12	0011	1177982	1
Beta	U	0.099	+/-1.40	2.45	+/-1.40	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-5-B11
Sample ID: 293773018
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	UJ	-0.586	+/-0.825	1.49	+/-0.825	3.60	pCi/Filter		BYS1	01/24/12	1905	1181650	1
Beta	UJ	0.221	+/-1.68	2.95	+/-1.68	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-5-B3
Sample ID: 293773019
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.102	+/-0.435	0.866	+/-0.435	3.60	pCi/Filter		BYS1	01/20/12	0043	1177982	1
Beta	U	0.107	+/-1.39	2.43	+/-1.39	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-5-B4
Sample ID: 293773020
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.061	+/-0.461	0.872	+/-0.461	3.60	pCi/Filter		BYS1	01/20/12	0059	1177982	1
Beta	U	-0.208	+/-1.36	2.41	+/-1.36	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: January 25, 2012

Page 1 of 2

Client : Tidewater, Inc.
7161 Columbia Gateway Drive -

Contact: Columbia, Maryland
Mr. Claude Wiblin

Workorder: 293773

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Liquid Scintillation									
Batch	1177982								
QC1202574801	LCS								
Alpha	21.4		22.0	pCi/Filter		103		BYS1	01/20/1201:32
	Uncert:		+/-1.97						
	TPU:		+/-2.00						
Beta	49.3		57.4	pCi/Filter		116			
	Uncert:		+/-3.27						
	TPU:		+/-3.38						
QC1202574802	LCSD								
Alpha	21.4		22.7	pCi/Filter	3.3	106			01/20/1201:48
	Uncert:		+/-1.99						
	TPU:		+/-2.02						
Beta	49.3		53.4	pCi/Filter	7.21	108			
	Uncert:		+/-3.18						
	TPU:		+/-3.28						
QC1202574800	MB								
Alpha		U	-0.0856	pCi/Filter					01/20/1201:16
	Uncert:		+/-0.431						
	TPU:		+/-0.431						
Beta		U	-0.101	pCi/Filter					
	Uncert:		+/-1.40						
	TPU:		+/-1.40						
Batch	1181650								
QC1202583569	LCS								
Alpha	21.4		23.9	pCi/Filter		112		BYS1	01/24/1219:38
	Uncert:		+/-2.04						
	TPU:		+/-2.08						
Beta	49.3		53.1	pCi/Filter		108			
	Uncert:		+/-3.14						
	TPU:		+/-3.25						
QC1202583570	LCSD								
Alpha	21.4		23.8	pCi/Filter	.245	111			01/24/1219:54
	Uncert:		+/-2.04						
	TPU:		+/-2.07						
Beta	49.3		50.6	pCi/Filter	4.72	103			
	Uncert:		+/-3.08						
	TPU:		+/-3.18						
QC1202583568	MB								
Alpha		U	-0.0468	pCi/Filter					01/24/1219:21
	Uncert:		+/-0.522						
	TPU:		+/-0.522						
Beta		U	0.00227	pCi/Filter					
	Uncert:		+/-1.35						
	TPU:		+/-1.35						

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QC Summary

Workorder: 293773

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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Notes:

The Qualifiers in this report are defined as follows:

**	Analyte is a surrogate compound
<	Result is less than value reported
>	Result is greater than value reported
A	The TIC is a suspected aldol-condensation product
B	For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD	Results are either below the MDC or tracer recovery is low
C	Analyte has been confirmed by GC/MS analysis
D	Results are reported from a diluted aliquot of the sample
F	Estimated Value
H	Analytical holding time was exceeded
J	Value is estimated
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
M	M if above MDC and less than LLD
M	Matrix Related Failure
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI	Gamma Spectroscopy--Uncertain identification
UJ	Gamma Spectroscopy--Uncertain identification
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	QC Samples were not spiked with this compound
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

DATA EXCEPTION REPORT			
Mo.Day Yr. 25-JAN-12	Division: Radiochemistry	Quality Criteria: Specifications	Type: Process
Instrument Type: LSC	Test / Method: EPA 900.0/SW846 9310/SM 7110B Modified	Matrix Type: Filter	Client Code: TIDI
Batch ID: 1181650	Sample Numbers: see below		
Potentially affected work order(s)(SDG): 293744,293753,293758,293763,293765,293767,293768,293769,293770,293771,293772,293773 Application Issues: RDL less than MDA Other			
Specification and Requirements		DER Disposition:	
Exception Description:			
<p>1. The alpha and beta efficiencies and crosstalks for samples 293744002, 293753014, 293758003, 293763002, 293765009, 293765017, 293767006, 293767008, 293767017, 293767019, 293768004, 293769009, 293770005, 293771005, 293772018, 293773014(SU54-4-5-B9), and 293773018(SU54-4-5-B11) were determined by extrapolating the quench curves past the calibration quench range. The samples' results are estimates.</p> <p>2. The alpha and beta efficiencies and crosstalks for sample 293773014(SU54-4-5-B9) were obtained from sample 293744002, which had the closest quench value to sample 293773014(SU54-4-5-B9). The sample's results are estimates.</p> <p>3. Samples 293744002, 293758003, 293773014(SU54-4-5-B9) did not meet the alpha or beta required detection limits due to the quench numbers being outside the calibration range.</p>		<p>1. Reporting results.</p> <p>2. Reporting results.</p> <p>3. Reporting results.</p>	

Originator's Name:

Jennifer Oliver 25-JAN-12

Data Validator/Group Leader:

Lyndsey Pace 25-JAN-12

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis Report for

TIDI002 Tidewater, Inc.

Client SDG: 293775 GEL Work Order: 293775

The Qualifiers in this report are defined as follows:

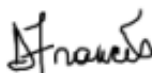
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Edith Kent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-3-B28
Sample ID: 293775001
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.195	+/-0.424	0.857	+/-0.424	3.60	pCi/Filter		BYS1	01/20/12	1002	1177983	1
Beta	U	-0.0387	+/-1.28	2.25	+/-1.28	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-3-B29
Sample ID: 293775002
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.0534	+/-0.487	0.920	+/-0.487	3.60	pCi/Filter		BYS1	01/20/12	1018	1177983	1
Beta	U	0.0497	+/-1.34	2.34	+/-1.34	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-3-B21
Sample ID: 293775003
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.725	+/-0.544	0.851	+/-0.544	3.60	pCi/Filter		BYS1	01/20/12	1034	1177983	1
Beta	U	0.113	+/-1.29	2.24	+/-1.29	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-3-B35
Sample ID: 293775004
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.00625	+/-0.447	0.846	+/-0.447	3.60	pCi/Filter	BYS1	01/20/12	1233	1177983	1
Beta	U	-0.322	+/-1.26	2.24	+/-1.26	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-3-B32
Sample ID: 293775005
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.247	+/-0.492	0.864	+/-0.492	3.60	pCi/Filter		BYS1	01/20/12	1249	1177983	1
Beta	U	-0.0561	+/-1.29	2.26	+/-1.29	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-3-B34
Sample ID: 293775006
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.152	+/-0.466	0.844	+/-0.466	3.60	pCi/Filter	BYS1	01/20/12	1306	1177983	1
Beta	U	-0.419	+/-1.25	2.23	+/-1.25	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU54-5-3-B33

Sample ID: 293775007

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0598	+/-0.462	0.860	+/-0.462	3.60	pCi/Filter	BYS1	01/20/12	1322	1177983	1
Beta	U	-0.554	+/-1.26	2.25	+/-1.26	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-5-1-B16
Sample ID: 293775008
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.283	+/-0.410	0.858	+/-0.410	3.60	pCi/Filter		BYS1	01/20/12	1338	1177983	1
Beta	U	-0.541	+/-1.26	2.25	+/-1.26	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU54-5-1-B14

Sample ID: 293775009

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.126	+/-0.430	0.854	+/-0.430	3.60	pCi/Filter	BYS1	01/20/12	1354	1177983	1
Beta	U	-1.01	+/-1.23	2.24	+/-1.23	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU54-5-1

Sample ID: 293775010

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.139	+/-0.462	0.837	+/-0.462	3.60	pCi/Filter	BYS1	01/20/12	1410	1177983	1
Beta	U	0.226	+/-1.28	2.23	+/-1.28	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B17
Sample ID: 293775011
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.107	+/-0.462	0.849	+/-0.462	3.60	pCi/Filter	BYS1	01/20/12	1426	1177983	1
Beta	U	-0.51	+/-1.25	2.24	+/-1.25	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B22
Sample ID: 293775012
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.202	+/-0.505	0.894	+/-0.505	3.60	pCi/Filter		BYS1	01/20/12	1442	1177983	1
Beta	U	0.0808	+/-1.32	2.30	+/-1.32	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B26
Sample ID: 293775013
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.184	+/-0.425	0.857	+/-0.425	3.60	pCi/Filter	BYS1	01/20/12	1458	1177983	1
Beta	U	-0.591	+/-1.25	2.25	+/-1.25	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B27
Sample ID: 293775014
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.278	+/-0.554	0.952	+/-0.554	3.60	pCi/Filter	BYS1	01/20/12	1514	1177983	1
Beta	U	-0.346	+/-1.34	2.39	+/-1.34	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B23
Sample ID: 293775015
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.14	+/-0.432	0.857	+/-0.432	3.60	pCi/Filter		BYS1	01/20/12	1530	1177983	1
Beta	U	-0.317	+/-1.27	2.25	+/-1.27	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B19

Sample ID: 293775016

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0396	+/-0.507	0.949	+/-0.507	3.60	pCi/Filter	BYS1	01/20/12	1546	1177983	1
Beta	U	-0.734	+/-1.32	2.38	+/-1.32	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1 EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B20
Sample ID: 293775017
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	UJ	0.0798	+/-0.875	1.42	+/-0.875	3.60	pCi/Filter	BYS1	01/24/12	0955	1181652	1
Beta	UJ	-0.118	+/-1.78	3.14	+/-1.78	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B21
Sample ID: 293775018
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.189	+/-0.423	0.855	+/-0.423	3.60	pCi/Filter		BYS1	01/20/12	1619	1177983	1
Beta	U	-0.315	+/-1.27	2.25	+/-1.27	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B24
Sample ID: 293775019
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.066	+/-0.453	0.844	+/-0.453	3.60	pCi/Filter		BYS1	01/20/12	1635	1177983	1
Beta	U	-0.922	+/-1.23	2.23	+/-1.23	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU54-4-3-B30
Sample ID: 293775020
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha		1.01	+/-0.627	0.911	+/-0.627	3.60	pCi/Filter		BYS1	01/20/12	1651	1177983	1
Beta		4.40	+/-1.54	2.33	+/-1.54	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: January 25, 2012

Page 1 of 2

Client : Tidewater, Inc.
7161 Columbia Gateway Drive -

Contact: Columbia, Maryland
Mr. Claude Wiblin

Workorder: 293775

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Liquid Scintillation									
Batch	1177983								
QC1202574804	LCS								
Alpha	21.4		22.0	pCi/Filter		103		BYS1	01/21/1218:36
	Uncert:		+/-1.98						
	TPU:		+/-2.01						
Beta	49.3		54.7	pCi/Filter		111			
	Uncert:		+/-3.20						
	TPU:		+/-3.31						
QC1202574805	LCSD								
Alpha	21.4		26.4	pCi/Filter	18.3	123			01/20/1217:39
	Uncert:		+/-1.94						
	TPU:		+/-1.98						
Beta	49.3		47.7	pCi/Filter	13.7	96.7			
	Uncert:		+/-2.80						
	TPU:		+/-2.89						
QC1202574803	MB								
Alpha		U	0.239	pCi/Filter					01/20/1217:07
	Uncert:		+/-0.476						
	TPU:		+/-0.476						
Beta		U	-0.00707	pCi/Filter					
	Uncert:		+/-1.27						
	TPU:		+/-1.27						
Batch	1181652								
QC1202583576	LCS								
Alpha	21.4		25.6	pCi/Filter		120		BYS1	01/24/1213:58
	Uncert:		+/-2.10						
	TPU:		+/-2.13						
Beta	49.3		51.3	pCi/Filter		104			
	Uncert:		+/-3.15						
	TPU:		+/-3.25						
QC1202583577	LCSD								
Alpha	21.4		24.7	pCi/Filter	3.62	116			01/24/1214:14
	Uncert:		+/-2.07						
	TPU:		+/-2.11						
Beta	49.3		53.3	pCi/Filter	3.82	108			
	Uncert:		+/-3.19						
	TPU:		+/-3.30						
QC1202583575	MB								
Alpha		U	0.146	pCi/Filter					01/24/1213:41
	Uncert:		+/-0.516						
	TPU:		+/-0.516						
Beta		U	-0.739	pCi/Filter					
	Uncert:		+/-1.41						
	TPU:		+/-1.41						

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QC Summary

Workorder: 293775

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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Notes:

The Qualifiers in this report are defined as follows:

**	Analyte is a surrogate compound
<	Result is less than value reported
>	Result is greater than value reported
A	The TIC is a suspected aldol-condensation product
B	For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD	Results are either below the MDC or tracer recovery is low
C	Analyte has been confirmed by GC/MS analysis
D	Results are reported from a diluted aliquot of the sample
F	Estimated Value
H	Analytical holding time was exceeded
J	Value is estimated
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
M	M if above MDC and less than LLD
M	Matrix Related Failure
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI	Gamma Spectroscopy--Uncertain identification
UJ	Gamma Spectroscopy--Uncertain identification
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	QC Samples were not spiked with this compound
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

DATA EXCEPTION REPORT			
Mo.Day Yr. 25-JAN-12	Division: Radiochemistry	Quality Criteria: Specifications	Type: Process
Instrument Type: LSC	Test / Method: EPA 900.0/SW846 9310/SM 7110B Modified	Matrix Type: Filter	Client Code: TIDI
Batch ID: 1181652	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 293775,293780,293781,293783,293785,293787,293790,293791,293797,294527			
Application Issues: Other Result is more negative than the three sigma TPU			
Specification and Requirements Exception Description:		DER Disposition:	
1. The alpha and beta efficiencies and cross-talks for samples 293775017(SU54-4-3-B20), 293781008, 293783002, 293785006, 293787002, 293790012, 293791001, 293791002, 293797006, and 294527004 were determined by extrapolating the quench curves past the calibration quench range. The samples' results are estimates. 2. The alpha and beta efficiencies and cross-talks for samples 293791001 and 293791002 were obtained from sample 293781008, which had the closest quench value to samples 293791001 and 293791002. The samples' results are estimates. 3. Samples 293791001 and 293791002 have negative beta activities that are greater than three times the absolute value of the 1-sigma TPU due to their quench numbers being outside the calibration range.		1. Reporting results. 2. Reporting results. 3. Reporting results.	

Originator's Name:

Jennifer Oliver 25-JAN-12

Data Validator/Group Leader:

Lyndsey Pace 25-JAN-12

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Certificate of Analysis Report for

TIDI002 Tidewater, Inc.

Client SDG: 293785 GEL Work Order: 293785

The Qualifiers in this report are defined as follows:

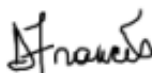
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Edith Kent.

Reviewed by



GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU7-B-4-B3
Sample ID: 293785001
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.417	+/-0.432	0.701	+/-0.432	3.60	pCi/Filter		BYS1	01/18/12	0601	1177990	1
Beta	U	0.661	+/-1.45	2.49	+/-1.45	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU7-2-3-B1
Sample ID: 293785002
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.402	+/-0.422	0.692	+/-0.422	3.60	pCi/Filter		BYS1	01/18/12	0617	1177990	1
Beta	U	0.727	+/-1.43	2.44	+/-1.43	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU7-2-3-B2
Sample ID: 293785003
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.147	+/-0.369	0.701	+/-0.369	3.60	pCi/Filter		BYS1	01/18/12	0634	1177990	1
Beta	U	-0.786	+/-1.37	2.48	+/-1.37	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

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Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU7-2-3-B3
Sample ID: 293785004
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0204	+/-0.393	0.694	+/-0.393	3.60	pCi/Filter		BYS1	01/18/12	0650	1177990	1
Beta		3.41	+/-1.56	2.45	+/-1.56	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU7-2-4-B1

Sample ID: 293785005

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.308	+/-0.412	0.697	+/-0.412	3.60	pCi/Filter		BYS1	01/18/12	0706	1177990	1
Beta	U	0.828	+/-1.45	2.47	+/-1.45	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU7-2-4-B2
Sample ID: 293785006
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	UJ	-0.253	+/-0.582	1.12	+/-0.582	3.60	pCi/Filter		BYS1	01/24/12	1148	1181652	1
Beta	UJ	0.431	+/-1.53	2.64	+/-1.53	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU7-2-4-B3
Sample ID: 293785007
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.439	+/-0.424	0.694	+/-0.424	3.60	pCi/Filter		BYS1	01/18/12	0738	1177990	1
Beta	U	0.251	+/-1.41	2.45	+/-1.41	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU7-2-2-B1
Sample ID: 293785008
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.376	+/-0.414	0.700	+/-0.414	3.60	pCi/Filter		BYS1	01/18/12	0754	1177990	1
Beta	U	-0.0679	+/-1.41	2.48	+/-1.41	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

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Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU7-2-2-B2

Sample ID: 293785009

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.287	+/-0.399	0.700	+/-0.399	3.60	pCi/Filter	BYS1	01/18/12	0810	1177990	1
Beta	U	-0.117	+/-1.41	2.48	+/-1.41	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

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Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU7-2-2-B3
Sample ID: 293785010
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.489	+/-0.427	0.697	+/-0.427	3.60	pCi/Filter		BYS1	01/18/12	0826	1177990	1
Beta	U	-0.384	+/-1.39	2.47	+/-1.39	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU7-B-5-B1
Sample ID: 293785011
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.0946	+/-0.341	0.702	+/-0.341	3.60	pCi/Filter		BYS1	01/18/12	0843	1177990	1
Beta	U	0.682	+/-1.46	2.50	+/-1.46	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Notes:				

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU7-B-5-B2

Sample ID: 293785012

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.233	+/-0.384	0.693	+/-0.384	3.60	pCi/Filter	BYS1	01/18/12	0859	1177990	1
Beta	U	-0.0584	+/-1.39	2.45	+/-1.39	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
---	--

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU7-B-5-B3
Sample ID: 293785013
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.280	+/-0.400	0.701	+/-0.400	3.60	pCi/Filter		BYS1	01/18/12	0915	1177990	1
Beta	U	-0.013	+/-1.42	2.49	+/-1.42	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU7-B-5-B4
Sample ID: 293785014
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.300	+/-0.402	0.702	+/-0.402	3.60	pCi/Filter		BYS1	01/18/12	0931	1177990	1
Beta	U	-0.276	+/-1.41	2.49	+/-1.41	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU7-1-1-B1
Sample ID: 293785015
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.0768	+/-0.361	0.697	+/-0.361	3.60	pCi/Filter		BYS1	01/18/12	0947	1177990	1
Beta	U	0.207	+/-1.41	2.46	+/-1.41	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU7-1-1-B2

Sample ID: 293785016

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.527	+/-0.450	0.703	+/-0.450	3.60	pCi/Filter	BYS1	01/18/12	1004	1177990	1
Beta	U	0.494	+/-1.45	2.50	+/-1.45	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU7-1-1-B3
Sample ID: 293785017
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.025	+/-0.341	0.703	+/-0.341	3.60	pCi/Filter		BYS1	01/18/12	1020	1177990	1
Beta	U	-0.311	+/-1.41	2.50	+/-1.41	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU7-2-1-B1

Sample ID: 293785018

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0387	+/-0.345	0.698	+/-0.345	3.60	pCi/Filter	BYS1	01/18/12	1036	1177990	1
Beta	U	0.526	+/-1.44	2.47	+/-1.44	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU7-2-1-B2
Sample ID: 293785019
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.395	+/-0.422	0.699	+/-0.422	3.60	pCi/Filter		BYS1	01/18/12	1052	1177990	1
Beta	U	0.298	+/-1.43	2.48	+/-1.43	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU38-B1
Sample ID: 293785020
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.0618	+/-0.363	0.699	+/-0.363	3.60	pCi/Filter		BYS1	01/18/12	1108	1177990	1
Beta	U	0.417	+/-1.43	2.47	+/-1.43	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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GEL LABORATORIES LLC

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QC Summary

Report Date: January 25, 2012

Page 1 of 2

Client : Tidewater, Inc.
7161 Columbia Gateway Drive -

Contact: Columbia, Maryland
Mr. Claude Wiblin

Workorder: 293785

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Liquid Scintillation									
Batch	1177990								
QC1202574825	LCS								
Alpha	21.4		25.0	pCi/Filter		117		BYS1	01/18/1211:41
	Uncert:		+/-2.06						
	TPU:		+/-2.10						
Beta	49.3		57.0	pCi/Filter		116			
	Uncert:		+/-3.27						
	TPU:		+/-3.38						
QC1202574826	LCSD								
Alpha	21.4		20.5	pCi/Filter	20	95.6			01/18/1211:57
	Uncert:		+/-1.90						
	TPU:		+/-1.92						
Beta	49.3		57.5	pCi/Filter	.823	117			
	Uncert:		+/-3.27						
	TPU:		+/-3.39						
QC1202574824	MB								
Alpha			0.713	pCi/Filter					01/18/1211:24
	Uncert:		+/-0.460						
	TPU:		+/-0.460						
Beta		U	-0.869	pCi/Filter					
	Uncert:		+/-1.37						
	TPU:		+/-1.37						
Batch	1181652								
QC1202583576	LCS								
Alpha	21.4		25.6	pCi/Filter		120		BYS1	01/24/1213:58
	Uncert:		+/-2.10						
	TPU:		+/-2.13						
Beta	49.3		51.3	pCi/Filter		104			
	Uncert:		+/-3.15						
	TPU:		+/-3.25						
QC1202583577	LCSD								
Alpha	21.4		24.7	pCi/Filter	3.62	116			01/24/1214:14
	Uncert:		+/-2.07						
	TPU:		+/-2.11						
Beta	49.3		53.3	pCi/Filter	3.82	108			
	Uncert:		+/-3.19						
	TPU:		+/-3.30						
QC1202583575	MB								
Alpha		U	0.146	pCi/Filter					01/24/1213:41
	Uncert:		+/-0.516						
	TPU:		+/-0.516						
Beta		U	-0.739	pCi/Filter					
	Uncert:		+/-1.41						
	TPU:		+/-1.41						

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QC Summary

Workorder: 293785

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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Notes:

The Qualifiers in this report are defined as follows:

**	Analyte is a surrogate compound
<	Result is less than value reported
>	Result is greater than value reported
A	The TIC is a suspected aldol-condensation product
B	For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD	Results are either below the MDC or tracer recovery is low
C	Analyte has been confirmed by GC/MS analysis
D	Results are reported from a diluted aliquot of the sample
F	Estimated Value
H	Analytical holding time was exceeded
J	Value is estimated
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
M	M if above MDC and less than LLD
M	Matrix Related Failure
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI	Gamma Spectroscopy--Uncertain identification
UJ	Gamma Spectroscopy--Uncertain identification
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	QC Samples were not spiked with this compound
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

DATA EXCEPTION REPORT			
Mo.Day Yr. 25-JAN-12	Division: Radiochemistry	Quality Criteria: Specifications	Type: Process
Instrument Type: LSC	Test / Method: EPA 900.0/SW846 9310/SM 7110B Modified	Matrix Type: Filter	Client Code: TIDI
Batch ID: 1181652	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 293775,293780,293781,293783,293785,293787,293790,293791,293797,294527			
Application Issues: Other Result is more negative than the three sigma TPU			
Specification and Requirements		DER Disposition:	
Exception Description:			
1. The alpha and beta efficiencies and cross-talks for samples 293775017, 293781008, 293783002, 293785006(SU7-2-4-B2), 293787002, 293790012, 293791001, 293791002, 293797006, and 294527004 were determined by extrapolating the quench curves past the calibration quench range. The samples' results are estimates. 2. The alpha and beta efficiencies and cross-talks for samples 293791001 and 293791002 were obtained from sample 293781008, which had the closest quench value to samples 293791001 and 293791002. The samples' results are estimates. 3. Samples 293791001 and 293791002 have negative beta activities that are greater than three times the absolute value of the 1-sigma TPU due to their quench numbers being outside the calibration range.		1. Reporting results. 2. Reporting results. 3. Reporting results.	

Originator's Name:

Jennifer Oliver 25-JAN-12

Data Validator/Group Leader:

Lyndsey Pace 25-JAN-12

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis Report for

TIDI002 Tidewater, Inc.

Client SDG: 293787 GEL Work Order: 293787

The Qualifiers in this report are defined as follows:

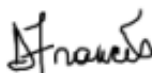
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Edith Kent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU38-B2
Sample ID: 293787001
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.218	+/-0.485	0.979	+/-0.485	3.60	pCi/Filter	BYS1	01/16/12	0312	1177991	1
Beta	U	-0.248	+/-1.36	2.41	+/-1.36	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU38-B3

Sample ID: 293787002

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	UJ	0.163	+/-0.745	1.29	+/-0.745	3.60	pCi/Filter	BYS1	01/24/12	1204	1181652	1
Beta	UJ	-1.4	+/-1.57	2.90	+/-1.57	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU1-B-1-B1
Sample ID: 293787003
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.266	+/-0.471	0.979	+/-0.471	3.60	pCi/Filter		BYS1	01/16/12	0344	1177991	1
Beta	U	-0.92	+/-1.32	2.40	+/-1.32	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU1-B-1-B2
Sample ID: 293787004
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.282	+/-0.493	1.01	+/-0.493	3.60	pCi/Filter	BYS1	01/16/12	0401	1177991	1
Beta	U	-0.191	+/-1.33	2.35	+/-1.33	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU1-B-1-B3
Sample ID: 293787005
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.00912	+/-0.509	0.977	+/-0.509	3.60	pCi/Filter		BYS1	01/16/12	0417	1177991	1
Beta	U	-0.522	+/-1.34	2.41	+/-1.34	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU92-G-1-B1
Sample ID: 293787006
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.312	+/-0.468	0.976	+/-0.468	3.60	pCi/Filter		BYS1	01/16/12	0433	1177991	1
Beta	U	-0.195	+/-1.36	2.41	+/-1.36	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU92-G-1-B2
Sample ID: 293787007
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.0992	+/-0.499	0.979	+/-0.499	3.60	pCi/Filter		BYS1	01/16/12	0449	1177991	1
Beta	U	-0.617	+/-1.33	2.40	+/-1.33	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU92-G-1-B3

Sample ID: 293787008

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.189	+/-0.483	0.977	+/-0.483	3.60	pCi/Filter		BYS1	01/16/12	0505	1177991	1
Beta	U	-0.618	+/-1.34	2.41	+/-1.34	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU92-G-3-B1
Sample ID: 293787009
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.343	+/-0.469	0.977	+/-0.469	3.60	pCi/Filter		BYS1	01/16/12	0521	1177991	1
Beta	U	0.226	+/-1.38	2.41	+/-1.38	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU91-1-1-B1
Sample ID: 293787010
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.223	+/-0.498	1.00	+/-0.498	3.60	pCi/Filter	BYS1	01/16/12	0537	1177991	1
Beta	U	-0.347	+/-1.32	2.35	+/-1.32	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU92-G-2-B1
Sample ID: 293787011
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0789	+/-0.512	0.978	+/-0.512	3.60	pCi/Filter		BYS1	01/16/12	0553	1177991	1
Beta	U	0.471	+/-1.39	2.40	+/-1.39	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU92-G-2-B2
Sample ID: 293787012
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.0283	+/-0.523	0.978	+/-0.523	3.60	pCi/Filter		BYS1	01/16/12	0609	1177991	1
Beta	U	0.260	+/-1.39	2.41	+/-1.39	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU92-G-2-B3
Sample ID: 293787013
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.225	+/-0.492	0.979	+/-0.492	3.60	pCi/Filter		BYS1	01/16/12	0625	1177991	1
Beta	U	0.533	+/-1.40	2.41	+/-1.40	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU91-G-1-B1
Sample ID: 293787014
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.23	+/-0.477	0.979	+/-0.477	3.60	pCi/Filter		BYS1	01/16/12	0641	1177991	1
Beta	U	-0.718	+/-1.33	2.41	+/-1.33	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU91-G-1-B2
Sample ID: 293787015
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.259	+/-0.477	0.978	+/-0.477	3.60	pCi/Filter		BYS1	01/16/12	0657	1177991	1
Beta	U	-0.30	+/-1.35	2.41	+/-1.35	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU91-G-1-B3
Sample ID: 293787016
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.318	+/-0.489	0.998	+/-0.489	3.60	pCi/Filter		BYS1	01/16/12	0713	1177991	1
Beta	U	0.423	+/-1.36	2.35	+/-1.36	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU91-1-2-B1
Sample ID: 293787017
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.382	+/-0.475	1.00	+/-0.475	3.60	pCi/Filter	BYS1	01/16/12	0729	1177991	1
Beta	U	-0.136	+/-1.33	2.35	+/-1.33	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU41-1-B1

Sample ID: 293787018

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.279	+/-0.485	0.979	+/-0.485	3.60	pCi/Filter		BYS1	01/16/12	0746	1177991	1
Beta	U	0.640	+/-1.41	2.41	+/-1.41	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU41-1-B2
Sample ID: 293787019
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.493	+/-0.492	1.03	+/-0.492	3.60	pCi/Filter	BYS1	01/16/12	0802	1177991	1
Beta	U	1.45	+/-1.42	2.37	+/-1.42	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU41-1-B3

Sample ID: 293787020

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.234	+/-0.580	0.998	+/-0.580	3.60	pCi/Filter	BYS1	01/16/12	0818	1177991	1
Beta		2.49	+/-1.46	2.35	+/-1.46	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1	EPA 900.0/SW846 9310/SM 7110B Modified
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Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: January 25, 2012

Page 1 of 2

Client : Tidewater, Inc.
7161 Columbia Gateway Drive -

Contact: Columbia, Maryland
Mr. Claude Wiblin

Workorder: 293787

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Liquid Scintillation									
Batch	1177991								
QC1202574828	LCS								
Alpha	21.4		22.8	pCi/Filter		106		BYS1	01/16/1208:50
	Uncert:		+/-2.02						
	TPU:		+/-2.05						
Beta	49.3		56.5	pCi/Filter		115			
	Uncert:		+/-3.23						
	TPU:		+/-3.35						
QC1202574829	LCSD								
Alpha	21.4		21.6	pCi/Filter	5.49	101			01/16/1209:06
	Uncert:		+/-1.97						
	TPU:		+/-2.00						
Beta	49.3		54.9	pCi/Filter	2.93	111			
	Uncert:		+/-3.19						
	TPU:		+/-3.30						
QC1202574827	MB								
Alpha		U	-0.253	pCi/Filter					01/16/1208:34
	Uncert:		+/-0.482						
	TPU:		+/-0.482						
Beta		U	0.273	pCi/Filter					
	Uncert:		+/-1.38						
	TPU:		+/-1.38						
Batch	1181652								
QC1202583576	LCS								
Alpha	21.4		25.6	pCi/Filter		120		BYS1	01/24/1213:58
	Uncert:		+/-2.10						
	TPU:		+/-2.13						
Beta	49.3		51.3	pCi/Filter		104			
	Uncert:		+/-3.15						
	TPU:		+/-3.25						
QC1202583577	LCSD								
Alpha	21.4		24.7	pCi/Filter	3.62	116			01/24/1214:14
	Uncert:		+/-2.07						
	TPU:		+/-2.11						
Beta	49.3		53.3	pCi/Filter	3.82	108			
	Uncert:		+/-3.19						
	TPU:		+/-3.30						
QC1202583575	MB								
Alpha		U	0.146	pCi/Filter					01/24/1213:41
	Uncert:		+/-0.516						
	TPU:		+/-0.516						
Beta		U	-0.739	pCi/Filter					
	Uncert:		+/-1.41						
	TPU:		+/-1.41						

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 293787

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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Notes:

The Qualifiers in this report are defined as follows:

**	Analyte is a surrogate compound
<	Result is less than value reported
>	Result is greater than value reported
A	The TIC is a suspected aldol-condensation product
B	For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD	Results are either below the MDC or tracer recovery is low
C	Analyte has been confirmed by GC/MS analysis
D	Results are reported from a diluted aliquot of the sample
F	Estimated Value
H	Analytical holding time was exceeded
J	Value is estimated
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
M	M if above MDC and less than LLD
M	Matrix Related Failure
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI	Gamma Spectroscopy--Uncertain identification
UJ	Gamma Spectroscopy--Uncertain identification
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	QC Samples were not spiked with this compound
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

DATA EXCEPTION REPORT			
Mo.Day Yr. 25-JAN-12	Division: Radiochemistry	Quality Criteria: Specifications	Type: Process
Instrument Type: LSC	Test / Method: EPA 900.0/SW846 9310/SM 7110B Modified	Matrix Type: Filter	Client Code: TIDI
Batch ID: 1181652	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 293775,293780,293781,293783,293785,293787,293790,293791,293797,294527			
Application Issues: Other Result is more negative than the three sigma TPU			
Specification and Requirements		DER Disposition:	
Exception Description:			
1. The alpha and beta efficiencies and cross-talks for samples 293775017, 293781008, 293783002, 293785006, 293787002(SU38-B3), 293790012, 293791001, 293791002, 293797006, and 294527004 were determined by extrapolating the quench curves past the calibration quench range. The samples' results are estimates. 2. The alpha and beta efficiencies and cross-talks for samples 293791001 and 293791002 were obtained from sample 293781008, which had the closest quench value to samples 293791001 and 293791002. The samples' results are estimates. 3. Samples 293791001 and 293791002 have negative beta activities that are greater than three times the absolute value of the 1-sigma TPU due to their quench numbers being outside the calibration range.		1. Reporting results. 2. Reporting results. 3. Reporting results.	

Originator's Name:

Jennifer Oliver 25-JAN-12

Data Validator/Group Leader:

Lyndsey Pace 25-JAN-12

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis Report for

TIDI002 Tidewater, Inc.

Client SDG: 293790 GEL Work Order: 293790

The Qualifiers in this report are defined as follows:

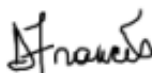
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Edith Kent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-2-B14
Sample ID: 293790001
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	-0.0859	+/-0.372	0.747	+/-0.372	3.60	pCi/Filter		BYS1	01/16/12	1513	1177992	1
Beta	U	-0.549	+/-1.23	2.21	+/-1.23	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-2-B15
Sample ID: 293790002
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0398	+/-0.392	0.740	+/-0.392	3.60	pCi/Filter	BYS1	01/16/12	1529	1177992	1
Beta	U	0.413	+/-1.27	2.20	+/-1.27	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-2-B16
Sample ID: 293790003
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.139	+/-0.407	0.740	+/-0.407	3.60	pCi/Filter		BYS1	01/16/12	1545	1177992	1
Beta	U	0.226	+/-1.26	2.20	+/-1.26	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-2-B17
Sample ID: 293790004
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.369	+/-0.476	0.797	+/-0.476	3.60	pCi/Filter		BYS1	01/16/12	1601	1177992	1
Beta	U	-0.437	+/-1.28	2.28	+/-1.28	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-2-B19
Sample ID: 293790005
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.266	+/-0.490	0.834	+/-0.490	3.60	pCi/Filter		BYS1	01/16/12	1617	1177992	1
Beta	U	0.163	+/-1.35	2.35	+/-1.35	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-1-B1
Sample ID: 293790006
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.250	+/-0.428	0.750	+/-0.428	3.60	pCi/Filter	BYS1	01/16/12	1633	1177992	1
Beta	U	-0.423	+/-1.24	2.21	+/-1.24	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-1-B2
Sample ID: 293790007
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.133	+/-0.422	0.763	+/-0.422	3.60	pCi/Filter		BYS1	01/16/12	1649	1177992	1
Beta	U	0.776	+/-1.31	2.23	+/-1.31	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-1-B3
Sample ID: 293790008
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-2.66	+/-0.736	0.761	+/-0.736	3.60	pCi/Filter		BYS1	01/17/12	0642	1177992	1
Beta		78.7	+/-3.69	2.54	+/-3.89	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-1-B4
Sample ID: 293790009
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.291	+/-0.441	0.758	+/-0.441	3.60	pCi/Filter	BYS1	01/16/12	1722	1177992	1
Beta	U	0.127	+/-1.27	2.22	+/-1.27	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-1-B5
Sample ID: 293790010
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.113	+/-0.480	0.761	+/-0.480	3.60	pCi/Filter	BYS1	01/17/12	0658	1177992	1
Beta		6.77	+/-1.76	2.54	+/-1.76	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-1-B6
Sample ID: 293790011
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.215	+/-0.458	0.804	+/-0.458	3.60	pCi/Filter	BYS1	01/16/12	1754	1177992	1
Beta	U	-0.336	+/-1.29	2.29	+/-1.29	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-1-B7
Sample ID: 293790012
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	UJ	0.127	+/-0.752	1.29	+/-0.752	3.60	pCi/Filter		BYS1	01/24/12	1221	1181652	1
Beta	UJ	-0.884	+/-1.61	2.91	+/-1.61	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-1-B8
Sample ID: 293790013
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.0644	+/-0.390	0.762	+/-0.390	3.60	pCi/Filter		BYS1	01/16/12	1826	1177992	1
Beta	U	0.785	+/-1.31	2.23	+/-1.31	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-1-B9
Sample ID: 293790014
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.163	+/-0.435	0.782	+/-0.435	3.60	pCi/Filter		BYS1	01/16/12	1842	1177992	1
Beta	U	-0.561	+/-1.26	2.26	+/-1.26	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-1-B10
Sample ID: 293790015
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.644	+/-0.488	0.757	+/-0.488	3.60	pCi/Filter		BYS1	01/16/12	1858	1177992	1
Beta	U	-0.439	+/-1.24	2.22	+/-1.24	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-1-S6
Sample ID: 293790016
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.145	+/-0.405	0.736	+/-0.405	3.60	pCi/Filter		BYS1	01/16/12	1914	1177992	1
Beta	U	-0.142	+/-1.24	2.19	+/-1.24	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-1-S18
Sample ID: 293790017
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.304	+/-0.477	0.807	+/-0.477	3.60	pCi/Filter	BYS1	01/16/12	1930	1177992	1
Beta	U	0.486	+/-1.34	2.30	+/-1.34	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-2-R4
Sample ID: 293790018
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.0586	+/-0.418	0.781	+/-0.418	3.60	pCi/Filter	BYS1	01/16/12	1946	1177992	1
Beta	U	-0.417	+/-1.27	2.26	+/-1.27	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin

Project: Walter Reed Hospital

Client Sample ID: SU2-7-2-R12

Sample ID: 293790019

Matrix: Swipe

Collect Date: 30-DEC-11

Receive Date: 11-JAN-12

Collector: Client

Project: TIDIWRH

Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.398	+/-0.447	0.746	+/-0.447	3.60	pCi/Filter	BYS1	01/16/12	2002	1177992	1
Beta	U	-0.611	+/-1.23	2.21	+/-1.23	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
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1 EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-7-3-R1
Sample ID: 293790020
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.498	+/-0.449	0.729	+/-0.449	3.60	pCi/Filter		BYS1	01/16/12	2019	1177992	1
Beta	U	-1.35	+/-1.18	2.20	+/-1.18	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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QC Summary

Report Date: January 25, 2012

Page 1 of 2

Client : Tidewater, Inc.
7161 Columbia Gateway Drive -

Contact: Columbia, Maryland
Mr. Claude Wiblin

Workorder: 293790

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Liquid Scintillation									
Batch	1177992								
QC1202574831	LCS								
Alpha	21.4		23.0	pCi/Filter		107		BYS1	01/17/1207:14
	Uncert:		+/-1.99						
	TPU:		+/-2.02						
Beta	49.3		55.1	pCi/Filter		112			
	Uncert:		+/-3.24						
	TPU:		+/-3.35						
QC1202574832	LCSD								
Alpha	21.4		25.5	pCi/Filter	10.3	119			01/16/1221:07
	Uncert:		+/-1.90						
	TPU:		+/-1.94						
Beta	49.3		46.0	pCi/Filter	18	93.3			
	Uncert:		+/-2.76						
	TPU:		+/-2.85						
QC1202574830	MB								
Alpha		U	0.110	pCi/Filter					01/16/1220:35
	Uncert:		+/-0.398						
	TPU:		+/-0.398						
Beta		U	-0.739	pCi/Filter					
	Uncert:		+/-1.21						
	TPU:		+/-1.21						
Batch	1181652								
QC1202583576	LCS								
Alpha	21.4		25.6	pCi/Filter		120		BYS1	01/24/1213:58
	Uncert:		+/-2.10						
	TPU:		+/-2.13						
Beta	49.3		51.3	pCi/Filter		104			
	Uncert:		+/-3.15						
	TPU:		+/-3.25						
QC1202583577	LCSD								
Alpha	21.4		24.7	pCi/Filter	3.62	116			01/24/1214:14
	Uncert:		+/-2.07						
	TPU:		+/-2.11						
Beta	49.3		53.3	pCi/Filter	3.82	108			
	Uncert:		+/-3.19						
	TPU:		+/-3.30						
QC1202583575	MB								
Alpha		U	0.146	pCi/Filter					01/24/1213:41
	Uncert:		+/-0.516						
	TPU:		+/-0.516						
Beta		U	-0.739	pCi/Filter					
	Uncert:		+/-1.41						
	TPU:		+/-1.41						

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QC Summary

Workorder: 293790

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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Notes:

The Qualifiers in this report are defined as follows:

**	Analyte is a surrogate compound
<	Result is less than value reported
>	Result is greater than value reported
A	The TIC is a suspected aldol-condensation product
B	For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD	Results are either below the MDC or tracer recovery is low
C	Analyte has been confirmed by GC/MS analysis
D	Results are reported from a diluted aliquot of the sample
F	Estimated Value
H	Analytical holding time was exceeded
J	Value is estimated
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
M	M if above MDC and less than LLD
M	Matrix Related Failure
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI	Gamma Spectroscopy--Uncertain identification
UJ	Gamma Spectroscopy--Uncertain identification
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	QC Samples were not spiked with this compound
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

DATA EXCEPTION REPORT			
Mo.Day Yr. 24-JAN-12	Division: Radiochemistry	Quality Criteria: Specifications	Type: Process
Instrument Type: LSC	Test / Method: EPA 900.0/SW846 9310/SM 7110B Modified	Matrix Type: Filter	Client Code: TIDI
Batch ID: 1177992	Sample Numbers: see below		
Potentially affected work order(s)(SDG): 293790 Application Issues: Result is more negative than the three sigma TPU			
Specification and Requirements		DER Disposition:	
Exception Description:			
1. Sample 293790008(SU2-7-1-B3) has a negative alpha activity that is greater than three times the absolute value of the 1-sigma TPU.		1. The sample was recounted for verification. The recount result confirms the negative activity. Reporting results.	

Originator's Name:

Jennifer Oliver 24-JAN-12

Data Validator/Group Leader:

Lyndsey Pace 24-JAN-12

DATA EXCEPTION REPORT			
Mo.Day Yr. 25-JAN-12	Division: Radiochemistry	Quality Criteria: Specifications	Type: Process
Instrument Type: LSC	Test / Method: EPA 900.0/SW846 9310/SM 7110B Modified	Matrix Type: Filter	Client Code: TIDI
Batch ID: 1181652	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 293775,293780,293781,293783,293785,293787,293790,293791,293797,294527			
Application Issues: Other Result is more negative than the three sigma TPU			
Specification and Requirements		DER Disposition:	
Exception Description:			
1. The alpha and beta efficiencies and cross-talks for samples 293775017, 293781008, 293783002, 293785006, 293787002, 293790012(SU2-7-1-B7), 293791001, 293791002, 293797006, and 294527004 were determined by extrapolating the quench curves past the calibration quench range. The samples' results are estimates. 2. The alpha and beta efficiencies and cross-talks for samples 293791001 and 293791002 were obtained from sample 293781008, which had the closest quench value to samples 293791001 and 293791002. The samples' results are estimates. 3. Samples 293791001 and 293791002 have negative beta activities that are greater than three times the absolute value of the 1-sigma TPU due to their quench numbers being outside the calibration range.		1. Reporting results. 2. Reporting results. 3. Reporting results.	

Originator's Name:

Jennifer Oliver 25-JAN-12

Data Validator/Group Leader:

Lyndsey Pace 25-JAN-12

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis Report for

TIDI002 Tidewater, Inc.

Client SDG: 293797 GEL Work Order: 293797

The Qualifiers in this report are defined as follows:

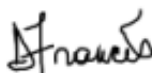
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Edith Kent.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-1-1-R11
Sample ID: 293797001
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.379	+/-0.562	1.00	+/-0.562	3.60	pCi/Filter		BYS1	01/19/12	0326	1177995	1
Beta	U	-2.1	+/-1.44	2.70	+/-1.44	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-1-3-R15
Sample ID: 293797002
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Liquid Scintillation Analysis

LSCC, Gross A/B, filter "As Received"

Alpha	U	0.211	+/-0.550	1.00	+/-0.550	3.60	pCi/Filter	BYS1	01/19/12	0342	1177995	1
Beta	U	-1.0	+/-1.50	2.70	+/-1.50	9.00	pCi/Filter					

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-1-3-R20
Sample ID: 293797003
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.056	+/-0.504	1.00	+/-0.504	3.60	pCi/Filter		BYS1	01/19/12	0358	1177995	1
Beta	U	-1.83	+/-1.46	2.70	+/-1.46	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-1-2-R2
Sample ID: 293797004
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.0653	+/-0.524	1.00	+/-0.524	3.60	pCi/Filter		BYS1	01/19/12	0414	1177995	1
Beta	U	-1.57	+/-1.47	2.70	+/-1.47	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-1-2-R4
Sample ID: 293797005
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	0.212	+/-0.551	1.00	+/-0.551	3.60	pCi/Filter		BYS1	01/19/12	0430	1177995	1
Beta	U	-1.09	+/-1.46	2.65	+/-1.46	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-2-3-R8
Sample ID: 293797006
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	UJ	-0.198	+/-0.761	1.35	+/-0.761	3.60	pCi/Filter		BYS1	01/24/12	1309	1181652	1
Beta	UJ	-0.981	+/-1.65	3.02	+/-1.65	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Tidewater, Inc.
Address : 7161 Columbia Gateway Drive - Suite C

Columbia, Maryland 21046

Report Date: January 25, 2012

Contact: Mr. Claude Wiblin
Project: Walter Reed Hospital

Client Sample ID: SU2-2-3-R9
Sample ID: 293797007
Matrix: Swipe
Collect Date: 30-DEC-11
Receive Date: 11-JAN-12
Collector: Client

Project: TIDIWRH
Client ID: TIDI002

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Liquid Scintillation Analysis													
<i>LSCC, Gross A/B, filter "As Received"</i>													
Alpha	U	-0.0226	+/-0.517	1.00	+/-0.517	3.60	pCi/Filter		BYS1	01/19/12	0502	1177995	1
Beta	U	-0.991	+/-1.50	2.70	+/-1.50	9.00	pCi/Filter						

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: January 25, 2012

Page 1 of 2

Client : Tidewater, Inc.
7161 Columbia Gateway Drive -

Contact: Columbia, Maryland
Mr. Claude Wiblin

Workorder: 293797

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Liquid Scintillation									
Batch	1177995								
QC1202574840	LCS								
Alpha	21.4		23.1	pCi/Filter		108		BYS1	01/19/1205:34
	Uncert:		+/-2.03						
	TPU:		+/-2.06						
Beta	49.3		55.8	pCi/Filter		113			
	Uncert:		+/-3.29						
	TPU:		+/-3.40						
QC1202574841	LCSD								
Alpha	21.4		23.1	pCi/Filter	.0124	108			01/19/1205:50
	Uncert:		+/-2.03						
	TPU:		+/-2.06						
Beta	49.3		55.0	pCi/Filter	1.31	112			
	Uncert:		+/-3.27						
	TPU:		+/-3.38						
QC1202574839	MB								
Alpha		U	0.426	pCi/Filter					01/19/1205:18
	Uncert:		+/-0.570						
	TPU:		+/-0.570						
Beta		U	-1.38	pCi/Filter					
	Uncert:		+/-1.48						
	TPU:		+/-1.48						
Batch	1181652								
QC1202583576	LCS								
Alpha	21.4		25.6	pCi/Filter		120		BYS1	01/24/1213:58
	Uncert:		+/-2.10						
	TPU:		+/-2.13						
Beta	49.3		51.3	pCi/Filter		104			
	Uncert:		+/-3.15						
	TPU:		+/-3.25						
QC1202583577	LCSD								
Alpha	21.4		24.7	pCi/Filter	3.62	116			01/24/1214:14
	Uncert:		+/-2.07						
	TPU:		+/-2.11						
Beta	49.3		53.3	pCi/Filter	3.82	108			
	Uncert:		+/-3.19						
	TPU:		+/-3.30						
QC1202583575	MB								
Alpha		U	0.146	pCi/Filter					01/24/1213:41
	Uncert:		+/-0.516						
	TPU:		+/-0.516						
Beta		U	-0.739	pCi/Filter					
	Uncert:		+/-1.41						
	TPU:		+/-1.41						

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QC Summary

Workorder: 293797

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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Notes:

The Qualifiers in this report are defined as follows:

**	Analyte is a surrogate compound
<	Result is less than value reported
>	Result is greater than value reported
A	The TIC is a suspected aldol-condensation product
B	For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
BD	Results are either below the MDC or tracer recovery is low
C	Analyte has been confirmed by GC/MS analysis
D	Results are reported from a diluted aliquot of the sample
F	Estimated Value
H	Analytical holding time was exceeded
J	Value is estimated
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
M	M if above MDC and less than LLD
M	Matrix Related Failure
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
UI	Gamma Spectroscopy--Uncertain identification
UJ	Gamma Spectroscopy--Uncertain identification
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	QC Samples were not spiked with this compound
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

** Indicates analyte is a surrogate compound.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

DATA EXCEPTION REPORT			
Mo.Day Yr. 25-JAN-12	Division: Radiochemistry	Quality Criteria: Specifications	Type: Process
Instrument Type: LSC	Test / Method: EPA 900.0/SW846 9310/SM 7110B Modified	Matrix Type: Filter	Client Code: TIDI
Batch ID: 1181652	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 293775,293780,293781,293783,293785,293787,293790,293791,293797,294527			
Application Issues: Other Result is more negative than the three sigma TPU			
Specification and Requirements		DER Disposition:	
Exception Description:			
1. The alpha and beta efficiencies and cross-talks for samples 293775017, 293781008, 293783002, 293785006, 293787002, 293790012, 293791001, 293791002, 293797006(SU2-2-3-R8), and 294527004 were determined by extrapolating the quench curves past the calibration quench range. The samples' results are estimates. 2. The alpha and beta efficiencies and cross-talks for samples 293791001 and 293791002 were obtained from sample 293781008, which had the closest quench value to samples 293791001 and 293791002. The samples' results are estimates. 3. Samples 293791001 and 293791002 have negative beta activities that are greater than three times the absolute value of the 1-sigma TPU due to their quench numbers being outside the calibration range.		1. Reporting results. 2. Reporting results. 3. Reporting results.	

Originator's Name:

Jennifer Oliver 25-JAN-12

Data Validator/Group Leader:

Lyndsey Pace 25-JAN-12

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

GEL Work Order:	293750	Work Order Due Date:	01-FEB-12	Collector:	C
SDG:	293750	Package Due Date:	29-JAN-12	Prelogin #:	20120186950
Project Manager:	Edith Kent	EDD Due Date:		Project ID:	1291340
Project Name:	TIDIWRH	Fax Due Date:	25-JAN-12	SDG Status:	Closed
	Walter Reed Hospital			Logged By:	EOS1
Purchase Order:	N300-300				
Package Level:	LEVEL5				
EDD Name:		Days to Process:	21		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		293750001	SU54-3-4-R10		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293750002	SU54-3-5-R4		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293750003	SU54-3-5-R9		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293750004	SU54-3-6-R1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293750005	SU54-3-6-R3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293750006	SU54-4-1-R3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293750007	SU54-4-1-R11		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293750008	SU54-4-2-R5		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293750009	SU54-4-2-R9		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293750010	SU54-4-3-R1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293750011	SU54-4-3-R7		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293750012	SU54-4-5-R6		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293750013	SU54-4-5-R10		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293750014	SU54-5-1-R1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

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Prelogin Group QC Requirements			GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1			293750015	SU54-5-1-R10		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293750016	SU54-5-2-R7		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293750017	SU54-5-2-R9		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293750018	SU54-5-3-R4		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293750019	SU54-5-3-R8		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293750020	SU54-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

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N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	Path 1
		14 day TAT		
293750001	SU54-3-4-R10		N	
293750002	SU54-3-5-R4		N	
293750003	SU54-3-5-R9		N	
293750004	SU54-3-6-R1		N	
293750005	SU54-3-6-R3		N	
293750006	SU54-4-1-R3		N	
293750007	SU54-4-1-R11		N	
293750008	SU54-4-2-R5		N	
293750009	SU54-4-2-R9		N	
293750010	SU54-4-3-R1		N	
293750011	SU54-4-3-R7		N	
293750012	SU54-4-5-R6		N	
293750013	SU54-4-5-R10		N	
293750014	SU54-5-1-R1		N	
293750015	SU54-5-1-R10		N	
293750016	SU54-5-2-R7		N	
293750017	SU54-5-2-R9		N	
293750018	SU54-5-3-R4		N	

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	14 day TAT	Path 1
293750019	SU54-5-3-R8			Z	
293750020	SU54-B2			Z	

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
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Work Order: 293750 Client SDG: 293750

GEL ID: Client Sample ID:	293750001 SU54-3-4-R10	293750002 SU54-3-5-R4	293750003 SU54-3-5-R9	293750004 SU54-3-6-R1	293750005 SU54-3-6-R3	293750006 SU54-4-1-R3	293750007 SU54-4-1-R11	293750008 SU54-4-2-R5
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

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Work Order: 293750 Client SDG: 293750

GEL ID: Client Sample ID:	293750009 SU54-4-2-R9	293750010 SU54-4-3-R1	293750011 SU54-4-3-R7	293750012 SU54-4-5-R6	293750013 SU54-4-5-R10	293750014 SU54-5-1-R1	293750015 SU54-5-1-R10	293750016 SU54-5-2-R7
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293750 Client SDG: 293750

GEL ID: Client Sample ID:	293750017 SU54-5-2-R9	293750018 SU54-5-3-R4	293750019 SU54-5-3-R8	293750020 SU54-B2
Cooler Seal Undisturbed	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y
Temperature (C)	18	18	18	18

Work Order: 293750

Report Date: 20 JAN 2012

Product: LSC_GABF
LSCC, Gross A/B, filter

Workdef ID: 1291480

In Product Group? No

Group Name: N/A

Group Reference: N/A

Method: EPA 900.0/SW846 9310/SM 7110B Modified

Path: Standard

Samples: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020

Product Reference: 14 day TAT

Parmname Check: All parmnames scheduled properly

Moisture Correction: "As Received"

Status: NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
12587-46-1	ALPHA	3.6	pCi/Filter	REG	Y	Y	Yes
12587-47-2	BETA	9	pCi/Filter	REG	Y	Y	

Login Requirements:

Requirement	Include?	Comments
Calculate collection date using the midpoint between Monitoring Start Date and Monitoring End Date?	N	
Has the chain of custody number been recorded?	N	
Is the SDG number different from the work order number?	N	
Is there a fax date?	Y	fax date is either 7 or 14 days
Is there a purchase order number?	Y	N300-300

Peer Review by: _____

Work Order (SDG#), PO# Checked? _____

C of C signed in receiver location? _____

Page: 5 of 59
Project #: GEL P11-0988
GEL Quote #:
COC Number (1):
PO Number:
GEL Work Order Number: 293750
GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Tidewater
Project/Site Name: WLAMC
Address:
Phone #: 410-997-4458
Fax #: 410-997-9713

Collected by: Angel Reyes
Sample ID
* For composites - indicate start and stop date/time
Send Results To: [REDACTED]

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Radioactive	TSCA Regulated	Should this sample be considered:	Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test)	<-- Preservative Type (6)	Comments
SU54-3-4-R10	12-30-11	1600	N		P	/			1	Alpha		Note: extra sample is required for sample specific QC
SU54-3-5-R4					P	/			1			
SU54-3-5-R9					P	/			1			
SU54-3-6-R1					P	/			1			
SU54-3-6-R3					P	/			1			
SU54-4-1-R3					P	/			1			
SU54-4-1-R11					P	/			1			
SU54-4-2-R5					P	/			1			
SU54-4-2-R9					P	/			1			
SU54-4-3-R1					P	/			1			

PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.

TAT Requested: Normal: Rush: Specify: (Subject to Surcharge) Fax Results: Yes / No
Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4
Sample Collection Time Zone: Eastern Pacific Other Mountain

Chain of Custody Signatures
Relinquished By (Signed) Date Time Received by (signed) Date Time
1 Angel Reyes 1/9/12 1 Daniel Leal 11/12 0935
2
3
GEL PM: Method of Shipment: Date Shipped:
Airbill #: Airbill #:

Sample Shipping and Delivery Details
For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: C
1.) Chain of Custody Number = Client Determined
2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal
5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank
WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

Page: 6 of 59
Project #: GEL P11-0980
GEL Quote #: GEL P11-0980
COC Number (1):
PO Number:
GEL Chain of Custody and Analytical Request
GEL Work Order Number:
GIEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Tide water
Phone #: 410-997-4458
Project/Site Name: WRAMC
Fax #: 410-997-8713
Address:
Sample ID
* For composites - indicate start and stop date/time

Sample Analysis Requested (5) (Fill in the number of containers for each test)		Should this sample be considered:		Total number of containers		Comments	
Sample ID		*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (a)	Field Filtered (b)	Sample Matrix (4)	Preservative Type (6)
SU54-4-3-R7		12-30-11	1600	N		P	
SU54-4-5-R6						P	
SU54-4-5-R10						P	
SU54-5-1-R1						P	
SU54-5-1-R10						P	
SU54-5-2-R7						P	
SU54-5-2-R9						P	
SU54-5-3-R4						P	
SU54-5-3-R8						P	
SU54-62						P	

TAT Requested: Normal: ☒ Rush: ☐
Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards
Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4
Sample Collection Time Zone: Eastern Pacific Central Other

Chain of Custody Signatures
Relinquished By (Signed) Date Time
Received by (signed) Date Time
GEL PM:
Method of Shipment:
Date Shipped:
Airbill #:
Airbill #:

For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: C
Chain of Custody Number = Client Determined
1.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
2.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
3.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal
4.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/740A) and number of containers provided for each (i.e. 8260B - 3, 6010B/740A - 1).
5.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
6.)



SAMPLE RECEIPT & REVIEW FORM

Client: TIDWRH		SDG/AR/COC/Work Order: 293750 293750	
Received By: DBL		Date Received: VII/12 Dec VII/12	
Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 cpm
Classified Radioactive II or III by RSO?		X	
COC/Samples marked containing PCBs?		X	
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		X	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		X		Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius 18°
2a Daily check performed and passed on IR temperature gun?	X			Temperature Device Serial #: 4150218 Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	X			
4 Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7 Are Encore containers present?		X		(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	X			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?			X	Sample ID's affected: No data and times on samples
11 Number of containers received match number indicated on COC?			X	Sample ID's affected: * See attached
12 Are sample containers identifiable as GEL provided?			X	
13 COC form is properly signed in relinquished/received sections?	X			
14 Carrier and tracking number.	X			Circle Applicable: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other 8758 6234 0517

Comments (Use Continuation Form if needed):



SAMPLE RECEIPT & REVIEW FORM CONTINUATION FORM

Client: TIDI

Date Received:

1/11/12

Page 2 of 2

Received Samples: SU54 5-3 B10, SU54 5-3 B12, SU54 5-3 B17, SU54 5-3 B31, SU54 5-2 B16, SU54 B2 B-9, and SU-2-7-2 B8 that were not on chain.

Samples SU54-5-2-B6 and SU54-5-2-B21 appeared on chain twice, but only received one container for each.

Received sample SU54-5-2-B27 that was not on COC

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

GEL Work Order:	293753	Work Order Due Date:	01-FEB-12	Collector:	C
SDG:	293753	Package Due Date:	29-JAN-12	Prelogin #:	20120186950
Project Manager:	Edith Kent	EDD Due Date:		Project ID:	1291340
Project Name:	TIDIWRH	Fax Due Date:	25-JAN-12	SDG Status:	Closed
	Walter Reed Hospital			Logged By:	EMK
Purchase Order:	N300-300				
Package Level:	LEVEL5				
EDD Name:		Days to Process:	21		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		293753001	SU54-B-2-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293753002	SU54-B-2-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293753003	SU54-B-2-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293753004	SU54-B-2-B5		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293753005	SU54-B-2-B6		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293753006	SU54-B-2-B7		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293753007	SU54-B-2-B8		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293753008	SU54-B-2-B10		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293753009	SU54-B-2-B11		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293753010	SU54-B-2-B13		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293753011	SU54-B-2-B14		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293753012	SU54-B-2-B16		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293753013	SU54-B-2-B17		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293753014	SU54-B-2-B18		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
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Prelogin Group QC Requirements			GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1			293753015	SU54-B-2-B19		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293753016	SU54-B-2-B21		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293753017	SU54-B-2-B22		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293753018	SU54-B-2-B24		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293753019	SU54-B-2-B25		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293753020	SU54-B-3-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	Path 1
		14 day TAT		
293753001	SU54-B-2-B1		N	
293753002	SU54-B-2-B2		N	
293753003	SU54-B-2-B3		N	
293753004	SU54-B-2-B5		N	
293753005	SU54-B-2-B6		N	
293753006	SU54-B-2-B7		N	
293753007	SU54-B-2-B8		N	
293753008	SU54-B-2-B10		N	
293753009	SU54-B-2-B11		N	
293753010	SU54-B-2-B13		N	
293753011	SU54-B-2-B14		N	
293753012	SU54-B-2-B16		N	
293753013	SU54-B-2-B17		N	
293753014	SU54-B-2-B18		N	
293753015	SU54-B-2-B19		N	
293753016	SU54-B-2-B21		N	
293753017	SU54-B-2-B22		N	
293753018	SU54-B-2-B24		N	

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	14 day TAT	Path 1
293753019	SU54-B-2-B25			Z	
293753020	SU54-B-3-B1			Z	

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293753 Client SDG: 293753

GEL ID: Client Sample ID:	293753001 SU54-B-2-B1	293753002 SU54-B-2-B2	293753003 SU54-B-2-B3	293753004 SU54-B-2-B5	293753005 SU54-B-2-B6	293753006 SU54-B-2-B7	293753007 SU54-B-2-B8	293753008 SU54-B-2-B10
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293753 Client SDG: 293753

GEL ID: Client Sample ID:	293753009 SU54-B-2-B11	293753010 SU54-B-2-B13	293753011 SU54-B-2-B14	293753012 SU54-B-2-B16	293753013 SU54-B-2-B17	293753014 SU54-B-2-B18	293753015 SU54-B-2-B19	293753016 SU54-B-2-B21
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293753 Client SDG: 293753

GEL ID:	293753017	293753018	293753019	293753020
Client Sample ID:	SU54-B-2-B22	SU54-B-2-B24	SU54-B-2-B25	SU54-B-3-B1
Cooler Seal Undisturbed	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y
Temperature (C)	18	18	18	18

Work Order: 293753

Report Date: 19 JAN 2012

Product: LSC_GABF
LSCC, Gross A/B, filter

Workdef ID: 1291480

In Product Group? No

Group Name: N/A

Group Reference: N/A

Method: EPA 900.0/SW846 9310/SM 7110B Modified

Path: Standard

Samples: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020

Product Reference: 14 day TAT

Parmname Check: All parmnames scheduled properly

Moisture Correction: "As Received"

Status: NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
12587-46-1	ALPHA	3.6	pCi/Filter	REG	Y	Y	Yes
12587-47-2	BETA	9	pCi/Filter	REG	Y	Y	

Login Requirements:

Requirement	Include?	Comments
Calculate collection date using the midpoint between Monitoring Start Date and Monitoring End Date?	N	
Has the chain of custody number been recorded?	N	
Is the SDG number different from the work order number?	N	
Is there a fax date?	Y	fax date is either 7 or 14 days
Is there a purchase order number?	Y	N300-300

Peer Review by: _____

Work Order (SDG#), PO# Checked? _____

C of C signed in receiver location? _____

Client Name: Tide water

Phone #: 410-997-4458

Project/Site Name: WRAMC

Fax #: 410-997-8713

Address:

Collected by: Angel Reyes		Send Results To	
Sample ID		Sample Matrix	
* For composites - indicate start and stop date/time		Sample Matrix (4)	
Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)
12-30-11 1600	N		P
SU54-B-2-B1			P
SU54-B-2-B2			P
SU54-B-2-B3			P
SU54-B-2-B5			P
SU54-B-2-B6			P
SU54-B-2-B7			P
SU54-B-2-B8			P
SU54-B-2-B10			P
SU54-B-2-B11			P
SU54-B-2-B13			P

PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.

TAT Requested: Normal: ☒ Rush: ☐

Specify: (Subject to Surcharges)

Fax Results: Yes / No

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Chain of Custody Signatures		Sample Shipping and Delivery Details	
Relinquished By (Signed)	Date	Received by (Signed)	Date
1 Angel Reyes	1/9/12	1 David Loebe	1/12/09
2		2	
3		3	

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: C

Page: 8 of 59

Project #: GEL PI-0988

GEL Quote #: GEL PI-0988

COC Number (1):

PO Number:

GEL Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Laboratories, LLC

2040 Savage Road

Charleston, SC 29407

Phone: (843) 556-8171

Fax: (843) 766-1178

Client Name: Tidewater

Phone #: 410-997-4458

Project/Site Name: WRAMC

Fax #: 410-997-8713

Address:

Collected by: Aspel Reyes

Send Results To: [REDACTED]

Sample ID

* For composites - Indicate start and stop date/time

Sample ID	* Date Collected (mm-dd-yy)	* Time Collected (Military) (hhmm)	QC Code (a)	Field Filtered (b)	Sample Matrix (c)	Radioactive	TSCA Regulated	Should this sample be considered:	Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test)	Preservative Type (6)	Comments
SU54-B-2-B14	12-30-11	1600	N		P							
SU54-B-2-B16					P							
SU54-B-2-B17					P							
SU54-B-2-B18					P							
SU54-B-2-B19					P							
SU54-B-2-B21					P							
SU54-B-2-B22					P							
SU54-B-2-B24					P							
SU54-B-2-B25					P							
SU54-B-3-B1					P							

PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.

TAT Requested: Normal: ☒ Rush: ☐

Specify: (Subject to Surcharge)

Fax Results: Yes / No

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Chain of Custody Signatures

Received by (signed) Date Time

Relinquished By (Signed) Date Time

1 Aspel Reyes 1/9/12

2 David Beebe 1/11/12

3

Sample Shipping and Delivery Details

GEL PM:

Method of Shipment:

Date Shipped:

Airbill #:

Airbill #:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Feecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

For Lab Receiving Use Only

Custody Seal Intact?

YES NO

Cooler Temp:

C

WHITE = LABORATORY

YELLOW = FILE

PINK = CLIENT



SAMPLE RECEIPT & REVIEW FORM

Client: TID1WRH		SDG/AR/COC/Work Order: 293753	
Received By: DBL		Date Received: V1/12	
Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 cpm
Classified Radioactive II or III by RSO?		X	
COC/Samples marked containing PCBs?		X	
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		X	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		X		Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius 18°
2a Daily check performed and passed on IR temperature gun?	X			Temperature Device Serial #: 41502182 Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	X			
4 Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7 Are Encore containers present?		X		(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	X			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?			X	Sample ID's affected: No data and times on samples
11 Number of containers received match number indicated on COC?			X	Sample ID's affected: * See attached
12 Are sample containers identifiable as GEL provided?		X		
13 COC form is properly signed in relinquished/received sections?	X			
14 Carrier and tracking number.	X			Circle Applicable: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other 8758 6234 0517

Comments (Use Continuation Form if needed):



SAMPLE RECEIPT & REVIEW FORM CONTINUATION FORM

Client: TIDI

Date Received:

1/11/12

Page 2 of 2

Received Samples: SU54 5-3 B10, SU54 5-3 B12, SU54 5-3 B17, SU54 5-3 B31, SU54 5-2 B16, SU54 B2 B-9, and SU-2-7-2 B8 that were not on chain.

Samples SU54-5-2-B6 and SU54-5-2-B21 appeared on chain twice, but only received one container for each.

Received sample SU54-5-2-B27 that was not on COC

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

GEL Work Order:	293757	Work Order Due Date:	01-FEB-12	Collector:	C
SDG:	293757	Package Due Date:	29-JAN-12	Prelogin #:	20120186950
Project Manager:	Edith Kent	EDD Due Date:		Project ID:	1291340
Project Name:	TIDIWRH	Fax Due Date:	25-JAN-12	SDG Status:	Closed
	Walter Reed Hospital			Logged By:	EOS1
Purchase Order:	N300-300				
Package Level:	LEVEL5				
EDD Name:		Days to Process:	21		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		293757001	SU54-B-3-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293757002	SU54-B-3-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293757003	SU54-B-3-B5		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293757004	SU54-B-3-B6		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293757005	SU54-B-3-B7		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293757006	SU54-B-3-B9		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293757007	SU54-B-3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293757008	SU54-B-3-B10		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293757009	SU54-B-3-B12		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293757010	SU54-B-3-B13		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293757011	SU54-B-3-B14		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293757012	SU54-B-3-B15		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293757013	SU54-M-1-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293757014	SU54-M-1-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

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Prelogin Group QC Requirements			GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1			293757015	SU54-M-1-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293757016	SU54-M-1-B4		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293757017	SU54-M-1-B5		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293757018	SU54-M-1-B6		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293757019	SU54-M-1-B7		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293757020	SU54-M-1-B8		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

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N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	Path 1
		14 day TAT		
293757001	SU54-B-3-B2		N	
293757002	SU54-B-3-B3		N	
293757003	SU54-B-3-B5		N	
293757004	SU54-B-3-B6		N	
293757005	SU54-B-3-B7		N	
293757006	SU54-B-3-B9		N	
293757007	SU54-B-3		N	
293757008	SU54-B-3-B10		N	
293757009	SU54-B-3-B12		N	
293757010	SU54-B-3-B13		N	
293757011	SU54-B-3-B14		N	
293757012	SU54-B-3-B15		N	
293757013	SU54-M-1-B1		N	
293757014	SU54-M-1-B2		N	
293757015	SU54-M-1-B3		N	
293757016	SU54-M-1-B4		N	
293757017	SU54-M-1-B5		N	
293757018	SU54-M-1-B6		N	

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	14 day TAT	Path 1
293757019	SU54-M-1-B7			Z	
293757020	SU54-M-1-B8			Z	

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
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Work Order: 293757 Client SDG: 293757

GEL ID: Client Sample ID:	293757001 SU54-B-3-B2	293757002 SU54-B-3-B3	293757003 SU54-B-3-B5	293757004 SU54-B-3-B6	293757005 SU54-B-3-B7	293757006 SU54-B-3-B9	293757007 SU54-B-3	293757008 SU54-B-3-B10
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293757 Client SDG: 293757

GEL ID: Client Sample ID:	293757009 SU54-B-3-B12	293757010 SU54-B-3-B13	293757011 SU54-B-3-B14	293757012 SU54-B-3-B15	293757013 SU54-M-1-B1	293757014 SU54-M-1-B2	293757015 SU54-M-1-B3	293757016 SU54-M-1-B4
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
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Work Order: 293757 Client SDG: 293757

GEL ID: Client Sample ID:	293757017 SU54-M-1-B5	293757018 SU54-M-1-B6	293757019 SU54-M-1-B7	293757020 SU54-M-1-B8
Cooler Seal Undisturbed	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y
Temperature (C)	18	18	18	18

Work Order: 293757

Report Date: 20 JAN 2012

Product: LSC_GABF
LSCC, Gross A/B, filter

Workdef ID: 1291480

In Product Group? No

Group Name: N/A

Group Reference: N/A

Method: EPA 900.0/SW846 9310/SM 7110B Modified

Path: Standard

Samples: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020

Product Reference: 14 day TAT

Parmname Check: All parmnames scheduled properly

Moisture Correction: "As Received"

Status: NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
12587-46-1	ALPHA	3.6	pCi/Filter	REG	Y	Y	Yes
12587-47-2	BETA	9	pCi/Filter	REG	Y	Y	

Login Requirements:

Requirement	Include?	Comments
Calculate collection date using the midpoint between Monitoring Start Date and Monitoring End Date?	N	
Has the chain of custody number been recorded?	N	
Is the SDG number different from the work order number?	N	
Is there a fax date?	Y	fax date is either 7 or 14 days
Is there a purchase order number?	Y	N300-300

Peer Review by: _____

Work Order (SDG#), PO# Checked? _____

C of C signed in receiver location? _____

Page: <u>10</u> of <u>5-4</u>	GEL Chain of Custody and Analytical Request	GEL Laboratories, LLC 2040 Savage Road Charleston, SC 29407 Phone: (843) 556-8171 Fax: (843) 766-1178
Project #:		
GEL Quote #: <u>GEL11-0988</u>		
COC Number ⁽¹⁾ :		
PO Number:		
GEL Work Order Number:		

Client Name:	TideWater	Phone #:	410-997-4458
Project/Site Name:	WOLANC	Fax #:	410-997-8713
Address:			

Collected by:	Send Results To:	Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (4)	Field Filtered (3)	Sample Matrix (4)	Radioactive	TSCA Regulated	Total number of Assays	Comments
Angel Reyes	PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.	10-30-11	1600	N		P	1		1	Note: extra sample is required for sample specific QC
SU54-B-3-B14				N		P	1		1	
SU54-B-3-B15				N		P	1		1	
SU54-M-1-B1				N		P	1		1	
SU54-M-1-B2				N		P	1		1	
SU54-M-1-B3				N		P	1		1	
SU54-M-1-B4				N		P	1		1	
SU54-M-1-B5				N		P	1		1	
SU54-M-1-B6				N		P	1		1	
SU54-M-1-B7				N		P	1		1	
SU54-M-1-B8				N		P	1		1	

TAT Requested: Normal: <input checked="" type="checkbox"/> Rush: <input type="checkbox"/>	Specify: _____ (Subject to Surcharge)	Fax Results: Yes / No	Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4
Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards			<u>Sample Collection Time Zone</u> Eastern Pacific Central Other _____ Mountain

Chain of Custody Signatures			Sample Shipping and Delivery Details	
Relinquished By (Signed)	Date	Time	Received by (signed)	Date
1 <i>Joseph Thompson</i>	1/9/12		1 <i>David L. Loe</i>	
2			2	
3			3	

GEL PM:	
Method of Shipment:	Date Shipped:
Airbill #:	
Airbill #:	

1.) Chain of Custody Number = Client Determined	
2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite	
3.) Field Filters: For liquid matrices, indicate with a -Y for yes the sample was field filtered or a -N for sample was not field filtered.	
4.) Matrix Codes: DW =Drinking Water, GW =Groundwater, SW =Surface Water, WW =Waste Water, W =Water, SO =Soil, SD =Sediment, SL =Sludge, SS =Solid Waste, O =Oil, F =Filter, P =Wipe, U =Urine, F =Fecal, N =Nasal	
5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B , 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3 , 6010B/7470A - 1).	
6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Ascorbic Acid, AA = Sulfuric Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank	
	<i>For Lab Receiving Use Only</i>
	<i>Custody Seal Intact?</i>
	<i>YES NO</i>
	<i>Cooler Temp: °C</i>

1.) Chain of Custody Number = Client Determined
2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite
3.) Field Filtered: For liquid matrices, indicate with a **-Y-** for yes the sample was field filtered or a **-N-** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Pipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. **8260B** - 3, **6010B/7470A** - 1).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate. If no preservative is added = leave field blank

WHITE = LABORATORY
YELLOW = FILE
PINK = CLIENT



SAMPLE RECEIPT & REVIEW FORM

Client: <u>TIDWRH</u>		SDG/AR/COC/Work Order: <u>293757</u>	
Received By: <u>DBL</u>		Date Received: <u>1/11/12</u>	
Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0 cpm</u>
Classified Radioactive II or III by RSO?		X	
COC/Samples marked containing PCBs?		X	
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		X	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		X		Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius <u>18°</u>
2a Daily check performed and passed on IR temperature gun?	X			Temperature Device Serial #: <u>41502182</u> Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	X			
4 Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7 Are Encore containers present?		X		(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	X			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?			X	Sample ID's affected: <u>No date and times on samples</u>
11 Number of containers received match number indicated on COC?			X	Sample ID's affected: <u>* See attached</u>
12 Are sample containers identifiable as GEL provided?			X	
13 COC form is properly signed in relinquished/received sections?	X			
14 Carrier and tracking number.	X			Circle Applicable: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other <u>8758 6234 0517</u>

Comments (Use Continuation Form if needed):



SAMPLE RECEIPT & REVIEW FORM CONTINUATION FORM

Client:

TIDI

Date Received:

1/11/12

Page 2 of 2

Received Samples: SU54 5-3 B10, SU54 5-3 B12, SU54 5-3 B17, SU54 5-3 B31, SU54 5-2 B16, SU54 B2 B-9, and SU-2-7-2 B8 that were not on chain.

Samples SU54-5-2-B6 and SU54-5-2-B21 appeared on chain twice, but only received one container for each.

Received sample SU54-5-2-B27 that was not on COC

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
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GEL Work Order:	293758	Work Order Due Date:	01-FEB-12	Collector:	C
SDG:	293758	Package Due Date:	29-JAN-12	Prelogin #:	20120186950
Project Manager:	Edith Kent	EDD Due Date:		Project ID:	1291340
Project Name:	TIDIWRH	Fax Due Date:	25-JAN-12	SDG Status:	Closed
	Walter Reed Hospital			Logged By:	EMK
Purchase Order:	N300-300				
Package Level:	LEVEL5				
EDD Name:		Days to Process:	21		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		293758001	SU54-M-1-B9		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293758002	SU54-M-1-B10		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293758003	SU54-M-1-B11		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293758004	SU54-M-1-B16		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293758005	SU54-M-1-B12		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293758006	SU54-M-1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293758007	SU54-M-1-B13		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293758008	SU54-M-1-B15		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293758009	SU54-M-2-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293758010	SU54-M-2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293758011	SU54-M-2-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293758012	SU54-G-1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293758013	SU54-G-1-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293758014	SU54-G-1-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

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Prelogin Group QC Requirements			GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1			293758015	SU54-G-2-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293758016	SU54-G-2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293758017	SU54-G-2-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293758018	SU54-G-2A		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293758019	SU54-G-2A-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293758020	SU54-G-2A-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
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N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	Path 1
		14 day TAT		
293758001	SU54-M-1-B9		N	
293758002	SU54-M-1-B10		N	
293758003	SU54-M-1-B11		N	
293758004	SU54-M-1-B16		N	
293758005	SU54-M-1-B12		N	
293758006	SU54-M-1		N	
293758007	SU54-M-1-B13		N	
293758008	SU54-M-1-B15		N	
293758009	SU54-M-2-B1		N	
293758010	SU54-M-2		N	
293758011	SU54-M-2-B2		N	
293758012	SU54-G-1		N	
293758013	SU54-G-1-B1		N	
293758014	SU54-G-1-B2		N	
293758015	SU54-G-2-B1		N	
293758016	SU54-G-2		N	
293758017	SU54-G-2-B2		N	
293758018	SU54-G-2A		N	

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	14 day TAT	Path 1
293758019	SU54-G-2A-B1			Z	
293758020	SU54-G-2A-B2			Z	

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293758 Client SDG: 293758

GEL ID: Client Sample ID:	293758001 SU54-M-1-B9	293758002 SU54-M-1-B10	293758003 SU54-M-1-B11	293758004 SU54-M-1-B16	293758005 SU54-M-1-B12	293758006 SU54-M-1	293758007 SU54-M-1-B13	293758008 SU54-M-1-B15
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

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Work Order: 293758 Client SDG: 293758

GEL ID: Client Sample ID:	293758009 SU54-M-2-B1	293758010 SU54-M-2	293758011 SU54-M-2-B2	293758012 SU54-G-1	293758013 SU54-G-1-B1	293758014 SU54-G-1-B2	293758015 SU54-G-2-B1	293758016 SU54-G-2
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
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Work Order: 293758 Client SDG: 293758

GEL ID: Client Sample ID:	293758017 SU54-G-2-B2	293758018 SU54-G-2A	293758019 SU54-G-2A-B1	293758020 SU54-G-2A-B2
Cooler Seal Undisturbed	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y
Temperature (C)	18	18	18	18

Work Order: 293758

Report Date: 19 JAN 2012

Product: LSC_GABF
LSCC, Gross A/B, filter

Workdef ID: 1291480

In Product Group? No

Group Name: N/A

Group Reference: N/A

Method: EPA 900.0/SW846 9310/SM 7110B Modified

Path: Standard

Samples: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020

Product Reference: 14 day TAT

Parmname Check: All parmnames scheduled properly

Moisture Correction: "As Received"

Status: NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
12587-46-1	ALPHA	3.6	pCi/Filter	REG	Y	Y	Yes
12587-47-2	BETA	9	pCi/Filter	REG	Y	Y	

Login Requirements:

Requirement	Include?	Comments
Calculate collection date using the midpoint between Monitoring Start Date and Monitoring End Date?	N	
Has the chain of custody number been recorded?	N	
Is the SDG number different from the work order number?	N	
Is there a fax date?	Y	fax date is either 7 or 14 days
Is there a purchase order number?	Y	N300-300

Peer Review by: _____

Work Order (SDG#), PO# Checked? _____

C of C signed in receiver location? _____

GEL Chain of Custody and Analytical Request

Page: 11 of 59
Project #: GELP11-0988
GEL Quote #: GELP11-0988
COC Number (1):
PO Number:

GEL Work Order Number: 293758

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Tidelwater
Phone #: 410-997-4458

Project/Site Name: WRAMC
Fax #: 410-997-8713

Address:

Collected by: Angel Reyes
Send Results To:

Sample ID

* For composites - indicate start and stop date/time

PERSONAL INFORMATION
WAS REMOVED BY NRC. NO
COPY OF THIS INFORMATION
WAS RETAINED BY THE NRC.

Sample ID	*Date Collected (mm-dd-yy)	Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Radiation Regulated	Should this sample be considered:	Total number of containers	Comments
SU54-M-1-B9	12-30-11	1600	N		P	1			
SU54-M-1-B10					P	1			
SU54-M-1-B11					P	1			
SU54-M-1-B16					P	1			
SU54-M-1-B12					P	1			
SU54-M-1					P	1			
SU54-M-1-B13					P	1			
SU54-M-1-B15					P	1			
SU54-M-2-B1					P	1			
SU54-M-2					P	1			

TAT Requested: Normal: ☒ Rush: ☐ Specify: (Subject to Surcharge) Fax Results: Yes / No Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone
Eastern Pacific
Central Mountain
Other

Chain of Custody Signatures
Relinquished By (Signed) Date Time Received by (signed) Date Time

1 Angel Reyes 1/9/12 David Lopez 1/11/12
2
3

GEL PM: Method of Shipment: Date Shipped:
Airbill #: Airbill #:

For Lab Receiving Use Only
Custody Seal Intact?
YES NO
Cooler Temp: C

1.) Chain of Custody Number = Client Determined
2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal
5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
WHITE = LABORATORY YELLOW = FILE PINK = CLIENT



SAMPLE RECEIPT & REVIEW FORM

Client: <u>TID1WRH</u>			SDG/AR/COC/Work Order: <u>293758</u>		
Received By: <u>DBL</u>			Date Received: <u>1/11/12</u>		
Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.		
COC/Samples marked as radioactive?		<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0 cpm</u>		
Classified Radioactive II or III by RSO?		<input checked="" type="checkbox"/>			
COC/Samples marked containing PCBs?		<input checked="" type="checkbox"/>			
Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____		
Samples identified as Foreign Soil?		<input checked="" type="checkbox"/>			

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		<input checked="" type="checkbox"/>		Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius <u>18°</u>
2a Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>			Temperature Device Serial #: <u>41502182</u> Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>			
4 Sample containers intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?		<input checked="" type="checkbox"/>		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?		<input checked="" type="checkbox"/>		Sample ID's and containers affected:
7 Are Encore containers present?		<input checked="" type="checkbox"/>		(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	<input checked="" type="checkbox"/>			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?			<input checked="" type="checkbox"/>	Sample ID's affected: <u>No date and times on samples</u>
11 Number of containers received match number indicated on COC?			<input checked="" type="checkbox"/>	Sample ID's affected: <u>* See attached</u>
12 Are sample containers identifiable as GEL provided?		<input checked="" type="checkbox"/>		
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>			
14 Carrier and tracking number.	<input checked="" type="checkbox"/>			Circle Applicable: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other <u>8758 6234 0517</u>

Comments (Use Continuation Form if needed):



SAMPLE RECEIPT & REVIEW FORM CONTINUATION FORM

Client: TIDI

Date Received: 1/11/12

Page 2 of 2

Received Samples: SU54 5-3 B10, SU54 5-3 B12, SU54 5-3 B17, SU54 5-3 B31, SU54 5-2 B16, SU54 B2 B-9, and SU-2-7-2 B8 that were not on chain.

Samples SU54-5-2-B6 and SU54-5-2-B21 appeared on chain twice, but only received one container for each.

Received sample SU54-5-2-B27 that was not on COC

GEL Laboratories LLC - Login Review Report - Chain of Custody

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GEL Work Order:	293760	Work Order Due Date:	01-FEB-12	Collector:	C
SDG:	293760	Package Due Date:	29-JAN-12	Prelogin #:	20120186950
Project Manager:	Edith Kent	EDD Due Date:		Project ID:	1291340
Project Name:	TIDIWRH	Fax Due Date:	25-JAN-12	SDG Status:	Closed
	Walter Reed Hospital			Logged By:	EMK
Purchase Order:	N300-300				
Package Level:	LEVEL5				
EDD Name:		Days to Process:	21		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		293760001	SU54-B-2-B26		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293760002	SU54-B-2-B27		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293760003	SU54-B-2-B35		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293760004	SU54-B-2-B29		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293760005	SU54-B-2-B30		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293760006	SU54-B-2-B32		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293760007	SU54-B-2-B40		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293760008	SU54-B-2-B33		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293760009	SU54-B-2-B37		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293760010	SU54-B-2-B36		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293760011	SU54-B-2-B39		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293760012	SU54-G-3-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293760013	SU54-G-3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293760014	SU54-G-3-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
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Prelogin Group QC Requirements			GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1			293760015	SU54-G-3-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293760016	SU54-G-3-B5		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293760017	SU54-G-3-B7		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293760018	SU54-G-3-B8		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293760019	SU54-1-1-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293760020	SU54-1-1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
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N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	Path 1
		14 day TAT		
293760001	SU54-B-2-B26		N	
293760002	SU54-B-2-B27		N	
293760003	SU54-B-2-B35		N	
293760004	SU54-B-2-B29		N	
293760005	SU54-B-2-B30		N	
293760006	SU54-B-2-B32		N	
293760007	SU54-B-2-B40		N	
293760008	SU54-B-2-B33		N	
293760009	SU54-B-2-B37		N	
293760010	SU54-B-2-B36		N	
293760011	SU54-B-2-B39		N	
293760012	SU54-G-3-B1		N	
293760013	SU54-G-3		N	
293760014	SU54-G-3-B2		N	
293760015	SU54-G-3-B3		N	
293760016	SU54-G-3-B5		N	
293760017	SU54-G-3-B7		N	
293760018	SU54-G-3-B8		N	

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	14 day TAT	Path 1
293760019	SU54-1-1-B1			Z	
293760020	SU54-1-1			Z	

GEL Laboratories LLC - Login Review Report - Auxiliary Data

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Work Order: 293760 Client SDG: 293760

GEL ID: Client Sample ID:	293760001 SU54-B-2-B26	293760002 SU54-B-2-B27	293760003 SU54-B-2-B35	293760004 SU54-B-2-B29	293760005 SU54-B-2-B30	293760006 SU54-B-2-B32	293760007 SU54-B-2-B40	293760008 SU54-B-2-B33
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293760 Client SDG: 293760

GEL ID: Client Sample ID:	293760009 SU54-B-2-B37	293760010 SU54-B-2-B36	293760011 SU54-B-2-B39	293760012 SU54-G-3-B1	293760013 SU54-G-3	293760014 SU54-G-3-B2	293760015 SU54-G-3-B3	293760016 SU54-G-3-B5
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293760 Client SDG: 293760

GEL ID: Client Sample ID:	293760017 SU54-G-3-B7	293760018 SU54-G-3-B8	293760019 SU54-1-1-B1	293760020 SU54-1-1
Cooler Seal Undisturbed	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y
Temperature (C)	18	18	18	18

Work Order: 293760

Report Date: 20 JAN 2012

Product: LSC_GABF
LSCC, Gross A/B, filter

Workdef ID: 1291480

In Product Group? No

Group Name: N/A

Group Reference: N/A

Method: EPA 900.0/SW846 9310/SM 7110B Modified

Path: Standard

Samples: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020

Product Reference: 14 day TAT

Parmname Check: All parmnames scheduled properly

Moisture Correction: "As Received"

Status: NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
12587-46-1	ALPHA	3.6	pCi/Filter	REG	Y	Y	Yes
12587-47-2	BETA	9	pCi/Filter	REG	Y	Y	

Login Requirements:

Requirement	Include?	Comments
Calculate collection date using the midpoint between Monitoring Start Date and Monitoring End Date?	N	
Has the chain of custody number been recorded?	N	
Is the SDG number different from the work order number?	N	
Is there a fax date?	Y	fax date is either 7 or 14 days
Is there a purchase order number?	Y	N300-300

Peer Review by: _____

Work Order (SDG#), PO# Checked? _____

C of C signed in receiver location? _____

Client Name: Tidewater

Phone #: 410-997-4458

Project/Site Name: WRAMC

Fax #: 410-997-8713

Address:

Collected by: <i>Angel Reyes</i>		Send Results To: <div></div>		Sample ID		Total number of										Comments	
* For composites - indicate start and stop date/time		Date Collected (mm-dd-yy)	Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Radioactive		TSCA Regulated		Alpha		Beta		Gamma		
		12-30-11	1600	N		P	1										
SU54-B-2-B26						P	1										
SU54-B-2-B27						P	1										
SU54-B-2-B35						P	1										
SU54-B-2-B29						P	1										
SU54-B-2-B30						P	1										
SU54-B-2-B32						P	1										
SU54-B-2-B40						P	1										
SU54-B-2-B33						P	1										
SU54-B-2-B37						P	1										
SU54-B-2-B36						P	1										

PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.

TAT Requested: Normal: ☒ Rush: ☐ Specify: (Subject to Surcharge)

Fax Results: Yes / No

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Chain of Custody Signatures			Sample Shipping and Delivery Details		
Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
Angel Reyes	1-9-12		David Lee	1/12/2012	

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: C

Page: 14 of 59

Project #: GELP11-0988

GEL Quote #: GELP11-0988

COC Number (1):

PO Number:

GEL Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Laboratories, LLC

2040 Savage Road

Charleston, SC 29407

Phone: (843) 556-8171

Fax: (843) 766-1178

Client Name: Tidewater

Phone #: 410-997-4458

Project/Site Name: WRAMC

Fax #: 410-997-8713

Address:

Collected by: Angel Reyes

Send Results To:

Sample ID

* For composites - indicate start and stop date/time

Sample ID	Date Collected (mm-dd-yy)	Time Collected (Military) (hhmm)	QC Code (b)	Field Filtered (a)	Sample Matrix (a)	Radioactive	TSCA Regulated	Should this sample be considered:	Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test)	Comments
SU54-B-2-B39	12-30-11	1600	N		P	1			Alpha Beta Gross		
SU54-G-3-B1					P	1					
SU54-G-3					P	1					
SU54-G-3-B2					P	1					
SU54-G-3-B3					P	1					
SU54-G-3-B5					P	1					
SU54-G-3-B7					P	1					
SU54-G-3-B8					P	1					
SU54-1-1-B1					P	1					
SU54-1-1					P	1					

PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.

TAT Requested: Normal: ☒ Rush: ☐ Specify: ☐ (Subject to Surcharge)

Fax Results: Yes / No

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Chain of Custody Signatures

Received by (signed) Date Time

1 Angel Reyes 1-9-12

2

3

Sample Shipping and Delivery Details

GEL PM: Method of Shipment: Date Shipped:

Airbill #: Airbill #:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: C



SAMPLE RECEIPT & REVIEW FORM

Client: <u>TID1WRH</u>		SDG/AR/COC/Work Order: <u>293766</u>	
Received By: <u>DBL</u>		Date Received: <u>1/11/12</u>	
Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0 cpm</u>
Classified Radioactive II or III by RSO?		X	
COC/Samples marked containing PCBs?		X	
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: _____ UN#: _____
Samples identified as Foreign Soil?		X	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		X		Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius <u>18°</u>
2a Daily check performed and passed on IR temperature gun?	X			Temperature Device Serial #: <u>41502182</u> Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	X			
4 Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7 Are Encore containers present?		X		(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	X			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?			X	Sample ID's affected: <u>No date and times on samples</u>
11 Number of containers received match number indicated on COC?			X	Sample ID's affected: <u>* See attached</u>
12 Are sample containers identifiable as GEL provided?			X	
13 COC form is properly signed in relinquished/received sections?	X			
14 Carrier and tracking number.	X			Circle Applicable: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other <u>8758 6234 0517</u>

Comments (Use Continuation Form if needed):



SAMPLE RECEIPT & REVIEW FORM CONTINUATION FORM

Client: TIDI

Date Received:

1/11/12

Page 2 of 2

Received Samples: SU54 5-3 B10, SU54 5-3 B12, SU54 5-3 B17, SU54 5-3 B31, SU54 5-2 B16, SU54 B2 B-9, and SU-2-7-2 B8 that were not on chain.

Samples SU54-5-2-B6 and SU54-5-2-B21 appeared on chain twice, but only received one container for each.

Received sample SU54-5-2-B27 that was not on COC

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

GEL Work Order:	293761	Work Order Due Date:	01-FEB-12	Collector:	C
SDG:	293761	Package Due Date:	29-JAN-12	Prelogin #:	20120186950
Project Manager:	Edith Kent	EDD Due Date:		Project ID:	1291340
Project Name:	TIDIWRH	Fax Due Date:	25-JAN-12	SDG Status:	Closed
	Walter Reed Hospital			Logged By:	RXA2
Purchase Order:	N300-300				
Package Level:	LEVEL5				
EDD Name:		Days to Process:	21		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		293761001	SU54-G3-R6		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293761002	SU54-1-1-R5		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293761003	SU54-1-1-R8		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293761004	SU54-1-2-R6		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293761005	SU54-1-2-R8		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293761006	SU54-1-3-R5		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293761007	SU54-1-3-R9		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293761008	SU54-2-1-R1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293761009	SU54-2-1-R9		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293761010	SU54-2-2-R1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293761011	SU54-2-2-R5		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293761012	SU54-2-3-R7		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293761013	SU54-2-3-R11		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293761014	SU54-3-1-R1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
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Prelogin Group QC Requirements			GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1			293761015	SU54-3-1-R3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293761016	SU54-3-2-R7		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293761017	SU54-3-2-R11		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293761018	SU54-3-3-R10		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293761019	SU54-3-3-R13		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293761020	SU54-3-4-R7		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
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N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	Path 1
		14 day TAT		
293761001	SU54-G3-R6		Z	
293761002	SU54-1-1-R5		N	
293761003	SU54-1-1-R8		N	
293761004	SU54-1-2-R6		N	
293761005	SU54-1-2-R8		N	
293761006	SU54-1-3-R5		N	
293761007	SU54-1-3-R9		N	
293761008	SU54-2-1-R1		N	
293761009	SU54-2-1-R9		N	
293761010	SU54-2-2-R1		N	
293761011	SU54-2-2-R5		N	
293761012	SU54-2-3-R7		N	
293761013	SU54-2-3-R11		N	
293761014	SU54-3-1-R1		N	
293761015	SU54-3-1-R3		N	
293761016	SU54-3-2-R7		N	
293761017	SU54-3-2-R11		N	
293761018	SU54-3-3-R10		N	

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	14 day TAT	Path 1
293761019	SU54-3-3-R13			Z	
293761020	SU54-3-4-R7			Z	

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
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Work Order: 293761 Client SDG: 293761

GEL ID: Client Sample ID:	293761001 SU54-G3-R6	293761002 SU54-1-1-R5	293761003 SU54-1-1-R8	293761004 SU54-1-2-R6	293761005 SU54-1-2-R8	293761006 SU54-1-3-R5	293761007 SU54-1-3-R9	293761008 SU54-2-1-R1
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293761 Client SDG: 293761

GEL ID: Client Sample ID:	293761009 SU54-2-1-R9	293761010 SU54-2-2-R1	293761011 SU54-2-2-R5	293761012 SU54-2-3-R7	293761013 SU54-2-3-R11	293761014 SU54-3-1-R1	293761015 SU54-3-1-R3	293761016 SU54-3-2-R7
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293761 Client SDG: 293761

GEL ID: Client Sample ID:	293761017 SU54-3-2-R11	293761018 SU54-3-3-R10	293761019 SU54-3-3-R13	293761020 SU54-3-4-R7
Cooler Seal Undisturbed	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y
Temperature (C)	18	18	18	18

GEL Laboratories LLC - Login Review Report - Products

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293761

Report Date: 20 JAN 2012

Product: LSC_GABF

Workdef ID: 1291480

In Product Group? No

Group Name: N/A

Group Reference: N/A

LSCC, Gross A/B, filter

Method: EPA 900.0/SW846 9310/SM 7110B Modified

Path: Standard

Samples: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020

Product Reference: 14 day TAT

Parmname Check: All parmnames scheduled properly

Moisture Correction: "As Received"

Status: NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
12587-46-1	ALPHA	3.6	pCi/Filter	REG	Y	Y	Yes
12587-47-2	BETA	9	pCi/Filter	REG	Y	Y	

Login Requirements:

Requirement	Include?	Comments
Calculate collection date using the midpoint between Monitoring Start Date and Monitoring End Date?	N	
Has the chain of custody number been recorded?	N	
Is the SDG number different from the work order number?	N	
Is there a fax date?	Y	fax date is either 7 or 14 days
Is there a purchase order number?	Y	N300-300

Peer Review by:_____

Work Order (SDG#), PO# Checked?_____

C of C signed in receiver location? _____

Page: 3 of 59

Project #: GELP11-0988

GEL Quote #: GELP11-0988

COC Number ⁽¹⁾: _____

PO Number: _____

GEL Chain of Custody and Analytical Request

GEL Work Order Number: 293761

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: TideWater

Project/Site Name: WRAMC

Address: _____

Phone #: 410-997-4458

Fax #: 410-997-8713

Collected by: <u>Angel Reyes</u>		Send Results To: <u>[REDACTED]</u>		Sample ID										Total number of <i>App Cross Re</i>	Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
* For composites - indicate start and stop date/time		*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered ⁽³⁾	Sample Matrix ⁽⁴⁾	Radioactive	TSCA Regulated																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.

TAT Requested: Normal: ☒ Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: Yes / No

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone
Eastern Pacific
Central Other _____
Mountain

Chain of Custody Signatures

Relinquished By (Signed) _____ Date _____ Time _____

Received by (signed) _____ Date _____ Time _____

1 Angel Reyes 12/12 _____

2 _____

3 _____

Sample Shipping and Delivery Details

GEL PM: _____

Method of Shipment: _____ Date Shipped: _____

Airbill #: _____

Airbill #: _____

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: C

Client Name: Tidewater

Phone #: 410-997-4458

Project/Site Name: WLRMC

Fax #: 410-997-8713

Address: _____

Collected by: Angel Reyes

Send Results To: _____

Sample ID

* For composites - indicate start and stop date/time

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (a)	Field Filtered (b)	Sample Matrix (c)	Radioactive	Should this sample be considered:	Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test)	Preservative Type (6)	Comments
SU54-2-2-R5	12-30-11	1600	N		P	/		1			
SU54-2-3-R7					P	/		1			
SU54-2-3-R11					P	/		1			
SU54-3-1-R1					P	/		1			
SU54-3-1-R3					P	/		1			
SU54-3-2-R7					P	/		1			
SU54-3-2-R11					P	/		1			
SU54-3-3-R10					P	/		1			
SU54-3-3-R13					P	/		1			
SU54-3-4-R7					P	/		1			

TAT Requested: Normal: ☒ Rush: _____

Specify: (Subject to Surcharge) Yes / No

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Chain of Custody Signatures				Sample Shipping and Delivery Details			
Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time	GEL PM:	
Angel Reyes	1/9/12		Daniel Loeble	1/11/12	0930		
						Method of Shipment:	Date Shipped:
						Airbill #:	
						Airbill #:	

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Feecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: C

PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.



SAMPLE RECEIPT & REVIEW FORM

Client: <u>TIDWRH</u>		SDG/AR/COC/Work Order: <u>293761</u>	
Received By: <u>DBL</u>		Date Received: <u>1/11/12</u>	
Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0 cpm</u>
Classified Radioactive II or III by RSO?		X	
COC/Samples marked containing PCBs?		X	
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		X	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		X		Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius <u>18°</u>
2a Daily check performed and passed on IR temperature gun?	X			Temperature Device Serial #: <u>41502182</u> Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	X			
4 Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7 Are Encore containers present?		X		(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	X			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?			X	Sample ID's affected: <u>No date and times on samples</u>
11 Number of containers received match number indicated on COC?			X	Sample ID's affected: <u>* See attached</u>
12 Are sample containers identifiable as GEL provided?			X	
13 COC form is properly signed in relinquished/received sections?	X			
14 Carrier and tracking number.	X			Circle Applicable: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other <u>8758 6234 0517</u>

Comments (Use Continuation Form if needed):



SAMPLE RECEIPT & REVIEW FORM CONTINUATION FORM

Client: TIDI

Date Received: 1/11/12

Page 2 of 2

Received Samples: SU54 5-3 B10, SU54 5-3 B12, SU54 5-3 B17, SU54 5-3 B31, SU54 5-2 B16, SU54 B2 B-9, and SU-2-7-2 B8 that were not on chain.

Samples SU54-5-2-B6 and SU54-5-2-B21 appeared on chain twice, but only received one container for each.

Received sample SU54-5-2-B27 that was not on COC

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

GEL Work Order:	293762	Work Order Due Date:	01-FEB-12	Collector:	C
SDG:	293762	Package Due Date:	29-JAN-12	Prelogin #:	20120186950
Project Manager:	Edith Kent	EDD Due Date:		Project ID:	1291340
Project Name:	TIDIWRH	Fax Due Date:	25-JAN-12	SDG Status:	Closed
	Walter Reed Hospital			Logged By:	EOS1
Purchase Order:	N300-300				
Package Level:	LEVEL5				
EDD Name:		Days to Process:	21		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		293762001	SU54-1-2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293762002	SU54-1-2-B-1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293762003	SU54-1-2-B-2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293762004	SU54-1-3-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293762005	SU54-1-3-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293762006	SU54-1-3-B4		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293762007	SU54-1-3-B5		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293762008	SU54-1-3-B6		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293762009	SU54-1-3-B8		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293762010	SU54-1-3-B9		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293762011	SU54-1-3-B11		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293762012	SU54-1-3-B12		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293762013	SU54-1-3-B13		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293762014	SU54-1-3-B14		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Prelogin Group QC Requirements			GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1			293762015	SU54-1-3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293762016	SU54-1-3-B25		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293762017	SU54-1-3-B20		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293762018	SU54-1-3-B19		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293762019	SU54-1-3-B17		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293762020	SU54-1-3-B27		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

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N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	Path 1
		14 day TAT		
293762001	SU54-1-2		N	
293762002	SU54-1-2-B-1		N	
293762003	SU54-1-2-B-2		N	
293762004	SU54-1-3-B1		N	
293762005	SU54-1-3-B3		N	
293762006	SU54-1-3-B4		N	
293762007	SU54-1-3-B5		N	
293762008	SU54-1-3-B6		N	
293762009	SU54-1-3-B8		N	
293762010	SU54-1-3-B9		N	
293762011	SU54-1-3-B11		N	
293762012	SU54-1-3-B12		N	
293762013	SU54-1-3-B13		N	
293762014	SU54-1-3-B14		N	
293762015	SU54-1-3		N	
293762016	SU54-1-3-B25		N	
293762017	SU54-1-3-B20		N	
293762018	SU54-1-3-B19		N	

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	14 day TAT	Path 1
293762019	SU54-1-3-B17			Z	
293762020	SU54-1-3-B27			Z	

GEL Laboratories LLC - Login Review Report - Auxiliary Data

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Work Order: 293762 Client SDG: 293762

GEL ID: Client Sample ID:	293762001 SU54-1-2	293762002 SU54-1-2-B-1	293762003 SU54-1-2-B-2	293762004 SU54-1-3-B1	293762005 SU54-1-3-B3	293762006 SU54-1-3-B4	293762007 SU54-1-3-B5	293762008 SU54-1-3-B6
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

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Work Order: 293762 Client SDG: 293762

GEL ID: Client Sample ID:	293762009 SU54-1-3-B8	293762010 SU54-1-3-B9	293762011 SU54-1-3-B11	293762012 SU54-1-3-B12	293762013 SU54-1-3-B13	293762014 SU54-1-3-B14	293762015 SU54-1-3	293762016 SU54-1-3-B25
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

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Work Order: 293762 Client SDG: 293762

GEL ID:	293762017	293762018	293762019	293762020
Client Sample ID:	SU54-1-3-B20	SU54-1-3-B19	SU54-1-3-B17	SU54-1-3-B27
Cooler Seal Undisturbed	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y
Temperature (C)	18	18	18	18

Work Order: 293762

Report Date: 19 JAN 2012

Product: LSC_GABF
LSCC, Gross A/B, filter

Workdef ID: 1291480

In Product Group? No

Group Name: N/A

Group Reference: N/A

Method: EPA 900.0/SW846 9310/SM 7110B Modified

Path: Standard

Samples: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020

Product Reference: 14 day TAT

Parmname Check: All parmnames scheduled properly

Moisture Correction: "As Received"

Status: NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
12587-46-1	ALPHA	3.6	pCi/Filter	REG	Y	Y	Yes
12587-47-2	BETA	9	pCi/Filter	REG	Y	Y	

Login Requirements:

Requirement	Include?	Comments
Calculate collection date using the midpoint between Monitoring Start Date and Monitoring End Date?	N	
Has the chain of custody number been recorded?	N	
Is the SDG number different from the work order number?	N	
Is there a fax date?	Y	fax date is either 7 or 14 days
Is there a purchase order number?	Y	N300-300

Peer Review by:_____

Work Order (SDG#), PO# Checked?_____

C of C signed in receiver location? _____

Page: 15 of 59

Project #: GELP11-0988

GEL Quote #: GELP11-0988

COC Number (1):

PO Number:

GEL Chain of Custody and Analytical Request

GEL Work Order Number: 293762

GEL Laboratories, LLC

2040 Savage Road

Charleston, SC 29407

Phone: (843) 556-8171

Fax: (843) 766-1178

Client Name: Tidewater

Project/Site Name: WRMC

Address:

Phone #: 40-997-4458

Fax #: 40-997-8713

Collected by: Angel Reyes	Send Results To:	
Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)
* For composites - indicate start and stop date/time		
SU54-1-2	12-30-11	1600
SU54-1-2-B-1		
SU54-1-2-B-2		
SU54-1-3-B1		
SU54-1-3-B3		
SU54-1-3-B4		
SU54-1-3-B5		
SU54-1-3-B6		
SU54-1-3-B8		
SU54-1-3-B9		

PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.

TAT Requested: Normal: ☒ Rush: ☐

Specify: (Subject to Surcharge)

Fax Results: Yes / No

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Chain of Custody Signatures		
Relinquished By (Signed)	Date	Time
1 Angel Reyes	1-9-12	
2		
3		

Received by (signed)

Date

Time

GEL PM:

Method of Shipment:

Date Shipped:

Airbill #:

Airbill #:

1. Chain of Custody Number = Client Determined

2. QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3. Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4. Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5. Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6. Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sulfuric Acid, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: C

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

Page: 16 of 59

Project #: GELP11-0988

COC Number (1):

PO Number:

GEL Chain of Custody and Analytical Request

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

GEL Work Order Number:

Client Name: Tidewater

Project/Site Name: WRAMC

Address:

Phone #: 410-997-4458

Fax #: 410-997-8713

Collected by: Angel Reyes

Send Results To: [REDACTED]

Sample ID

*For composites - indicate start and stop date/time

12-30-11

1600 N

QC Code (a)

Field Filtered (b)

Sample Matrix (c)

TSCA Regulated

Should this sample be considered:

Total number of containers

Alpha Beta Gross

Comments

Note: extra sample is required for sample specific QC

SW54-1-3-B11

SW54-1-3-B12

SW54-1-3-B13

SW54-1-3-B14

SW54-1-3

SW54-1-3-B25

SW54-1-3-B20

SW54-1-3-B19

SW54-1-3-B17

SW54-1-3-B27

PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.

TAT Requested: Normal: ☒ Rush:

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Sample Collection Time Zone

Eastern Pacific Central Mountain

Chain of Custody Signatures

Received by (signed) Date Time

Relinquished By (Signed) Date Time

1 Angel Reyes 1-9-12

2 David Lopez 1/11/12

3

Sample Shipping and Delivery Details

Date Shipped:

Airbill #:

Airbill #:

For Lab Receiving Use Only

Custody Seal Intact?

YES NO

Cooler Temp:

C

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

WHITE = LABORATORY

YELLOW = FILE

PINK = CLIENT



SAMPLE RECEIPT & REVIEW FORM

Client: <u>TID1WRH</u>		SDG/AR/COC/Work Order: <u>293762</u>	
Received By: <u>DBL</u>		Date Received: <u>V11/12</u>	
Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0 cpm</u>
Classified Radioactive II or III by RSO?		X	
COC/Samples marked containing PCBs?		X	
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: _____ UN#: _____
Samples identified as Foreign Soil?		X	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		X		Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius <u>18°</u>
2a Daily check performed and passed on IR temperature gun?	X			Temperature Device Serial #: <u>41502182</u> Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	X			
4 Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7 Are Encore containers present?		X		(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	X			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?			X	Sample ID's affected: <u>No date and times on samples</u>
11 Number of containers received match number indicated on COC?			X	Sample ID's affected: <u>* See attached</u>
12 Are sample containers identifiable as GEL provided?			X	
13 COC form is properly signed in relinquished/received sections?	X			
14 Carrier and tracking number.	X			Circle Applicable: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other <u>8758 6234 0517</u>

Comments (Use Continuation Form if needed):



SAMPLE RECEIPT & REVIEW FORM CONTINUATION FORM

Client: TIDI

Date Received:

1/11/12

Page 2 of 2

Received Samples: SU54 5-3 B10, SU54 5-3 B12, SU54 5-3 B17, SU54 5-3 B31, SU54 5-2 B16, SU54 B2 B-9, and SU-2-7-2 B8 that were not on chain.

Samples SU54-5-2-B6 and SU54-5-2-B21 appeared on chain twice, but only received one container for each.

Received sample SU54-5-2-B27 that was not on COC

GEL Laboratories LLC - Login Review Report - Chain of Custody

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GEL Work Order:	293763	Work Order Due Date:	01-FEB-12	Collector:	C
SDG:	293763	Package Due Date:	29-JAN-12	Prelogin #:	20120186950
Project Manager:	Edith Kent	EDD Due Date:		Project ID:	1291340
Project Name:	TIDIWRH	Fax Due Date:	25-JAN-12	SDG Status:	Closed
	Walter Reed Hospital			Logged By:	EMK
Purchase Order:	N300-300				
Package Level:	LEVEL5				
EDD Name:		Days to Process:	21		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		293763001	SU54-1-3-B15		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293763002	SU54-1-3-B23		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293763003	SU54-1-3-B22		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293763004	SU54-1-3-B24		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293763005	SU54-2-1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293763006	SU54-2-1-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293763007	SU54-2-2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293763008	SU54-2-2-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293763009	SU54-2-2-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293763010	SU54-2-2-B4		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293763011	SU54-2-2-B6		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293763012	SU54-2-2-B7		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293763013	SU54-2-2-B8		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293763014	SU54-2-2-B9		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

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Prelogin Group QC Requirements			GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1			293763015	SU54-2-2-B11		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293763016	SU54-2-3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293763017	SU54-2-3-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293763018	SU54-2-3-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293763019	SU54-2-3-B7		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293763020	SU54-2-3-B5		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

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N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	Path 1
		14 day TAT		
293763001	SU54-1-3-B15		Z	
293763002	SU54-1-3-B23		N	
293763003	SU54-1-3-B22		N	
293763004	SU54-1-3-B24		N	
293763005	SU54-2-1		N	
293763006	SU54-2-1-B1		N	
293763007	SU54-2-2		N	
293763008	SU54-2-2-B1		N	
293763009	SU54-2-2-B2		N	
293763010	SU54-2-2-B4		N	
293763011	SU54-2-2-B6		N	
293763012	SU54-2-2-B7		N	
293763013	SU54-2-2-B8		N	
293763014	SU54-2-2-B9		N	
293763015	SU54-2-2-B11		N	
293763016	SU54-2-3		N	
293763017	SU54-2-3-B1		N	
293763018	SU54-2-3-B3		N	

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	14 day TAT	Path 1
293763019	SU54-2-3-B7			Z	
293763020	SU54-2-3-B5			Z	

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
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Work Order: 293763 Client SDG: 293763

GEL ID: Client Sample ID:	293763001 SU54-1-3-B15	293763002 SU54-1-3-B23	293763003 SU54-1-3-B22	293763004 SU54-1-3-B24	293763005 SU54-2-1	293763006 SU54-2-1-B1	293763007 SU54-2-2	293763008 SU54-2-2-B1
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293763 Client SDG: 293763

GEL ID: Client Sample ID:	293763009 SU54-2-2-B2	293763010 SU54-2-2-B4	293763011 SU54-2-2-B6	293763012 SU54-2-2-B7	293763013 SU54-2-2-B8	293763014 SU54-2-2-B9	293763015 SU54-2-2-B11	293763016 SU54-2-3
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293763 Client SDG: 293763

GEL ID: Client Sample ID:	293763017 SU54-2-3-B1	293763018 SU54-2-3-B3	293763019 SU54-2-3-B7	293763020 SU54-2-3-B5
Cooler Seal Undisturbed	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y
Temperature (C)	18	18	18	18

Work Order: 293763

Report Date: 19 JAN 2012

Product: LSC_GABF
LSCC, Gross A/B, filter

Workdef ID: 1291480

In Product Group? No

Group Name: N/A

Group Reference: N/A

Method: EPA 900.0/SW846 9310/SM 7110B Modified

Path: Standard

Samples: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020

Product Reference: 14 day TAT

Parmname Check: All parmnames scheduled properly

Moisture Correction: "As Received"

Status: NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
12587-46-1	ALPHA	3.6	pCi/Filter	REG	Y	Y	Yes
12587-47-2	BETA	9	pCi/Filter	REG	Y	Y	

Login Requirements:

Requirement	Include?	Comments
Calculate collection date using the midpoint between Monitoring Start Date and Monitoring End Date?	N	
Has the chain of custody number been recorded?	N	
Is the SDG number different from the work order number?	N	
Is there a fax date?	Y	fax date is either 7 or 14 days
Is there a purchase order number?	Y	N300-300

Peer Review by:_____

Work Order (SDG#), PO# Checked?_____

C of C signed in receiver location? _____

Page: 17 of 59

Project #: GELP11-0988

GEL Quote #: GELP11-0988

COC Number (1):

PO Number:

GEL Chain of Custody and Analytical Request

GEL Work Order Number: 29363

GEL Laboratories, LLC

2040 Savage Road

Charleston, SC 29407

Phone: (843) 556-8171

Fax: (843) 766-1178

Client Name: Tidewater

Phone #: 410-997-4458

Project/Site Name: WDRMC

Fax #: 410-997-8713

Address:

Collected by: Angel Reyes

Send Results To: [REDACTED]

Sample ID	* For composites - indicate start and stop date/time	* Date Collected (mm-dd-yy)	Time		QC Code (b)	Field Filtered (d)	Sample Matrix (a)	Should this sample be considered:		Total number of containers	Preservative Type (6)	Comments
			(Military) (hhmm)	(hhmm)				Radioactive	TSCA Regulated			
SU54-1-3-B15		12-30-11	1600		N		P			1		
SU54-1-3-B23							P			1		
SU54-1-3-B22							P			1		
SU54-1-3-B24							P			1		
SU54-2-1							P			1		
SU54-2-1-B1							P			1		
SU54-2-2							P			1		
SU54-2-2-B1							P			1		
SU54-2-2-B2							P			1		
SU54-2-2-B4							P			1		

PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.

TAT Requested: Normal: ☒ Rush: ☐ Specify: ☐

(Subject to Surcharge)

Fax Results: Yes / No

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone
Eastern Pacific
Central Other
Mountain

Chain of Custody Signatures			Sample Shipping and Delivery Details		
Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
Angel Reyes	1-9-12		Donnell	1/12	0935

GEL PM:

Method of Shipment:

Date Shipped:

Airbill #:

Airbill #:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

For Lab Receiving Use Only

Custody Seal Intact?
YES NO

Cooler Temp:
C

Page: 18 of 59

Project #: GEL P11-0988

GEL Quote #: GEL P11-0988

COC Number (1):

PO Number:

GEL Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Laboratories, LLC

2040 Savage Road

Charleston, SC 29407

Phone: (843) 556-8171

Fax: (843) 766-1178

Client Name: Tidewater

Project/Site Name: WRAMC

Address:

Phone #: 410-997-4458

Fax #: 410-997-8713

Collected by: Angel Reyes

Send Results To:

Sample ID

* For composites - indicate start and stop date/time

Date Collected (mm-dd-yy)	Collected (Military) (hhmm)	QC Code (a)	Field Filtered (b)	Sample Matrix (c)	TSCA Regulated	Should this sample be considered:	Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test)	Preservative Type (6)	Comments
12-30-11	1600	N		P			1			Note: extra sample is required for sample specific QC
SU54-2-2-B6				P			1			
SU54-2-2-B7				P			1			
SU54-2-2-B8				P			1			
SU54-2-2-B9				P			1			
SU54-2-2-B11				P			1			
SU54-2-3				P			1			
SU54-2-3-B1				P			1			
SU54-2-3-B3				P			1			
SU54-2-3-B7				P			1			
SU54-2-3-B5				P			1			

TAT Requested: Normal: ☒ Rush: ☐

(Subject to Surcharge) Fax Results: Yes / No

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Chain of Custody Signatures

Received by (signed) Date Time

Relinquished By (Signed) Date Time

1 Angel Reyes 1-9-12

2

3

Sample Shipping and Delivery Details

GEL PM:

Date Shipped:

Method of Shipment:

Airbill #:

Airbill #:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

For Lab Receiving Use Only

Custody Seal Intact?

YES NO

Cooler Temp:

C

PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.



SAMPLE RECEIPT & REVIEW FORM

Client: <u>TID1WRH</u>		SDG/AR/COC/Work Order: <u>293763</u>	
Received By: <u>DBL</u>		Date Received: <u>V11/12</u>	
Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0 cpm</u>
Classified Radioactive II or III by RSO?		X	
COC/Samples marked containing PCBs?		X	
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		X	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		X		Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius <u>18°</u>
2a Daily check performed and passed on IR temperature gun?	X			Temperature Device Serial #: <u>41502182</u> Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	X			
4 Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7 Are Encore containers present?		X		(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	X			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?			X	Sample ID's affected: <u>No date and times on samples</u>
11 Number of containers received match number indicated on COC?			X	Sample ID's affected: <u>* See attached</u>
12 Are sample containers identifiable as GEL provided?			X	
13 COC form is properly signed in relinquished/received sections?	X			
14 Carrier and tracking number.	X			Circle Applicable: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other <u>8758 6234 0517</u>

Comments (Use Continuation Form if needed):



SAMPLE RECEIPT & REVIEW FORM CONTINUATION FORM

Client: TIDI

Date Received:

1/11/12

Page 2 of 2

Received Samples: SU54 5-3 B10, SU54 5-3 B12, SU54 5-3 B17, SU54 5-3 B31, SU54 5-2 B16, SU54 B2 B-9, and SU-2-7-2 B8 that were not on chain.

Samples SU54-5-2-B6 and SU54-5-2-B21 appeared on chain twice, but only received one container for each.

Received sample SU54-5-2-B27 that was not on COC

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

GEL Work Order:	293767	Work Order Due Date:	01-FEB-12	Collector:	C
SDG:	293767	Package Due Date:	29-JAN-12	Prelogin #:	20120186950
Project Manager:	Edith Kent	EDD Due Date:		Project ID:	1291340
Project Name:	TIDIWRH	Fax Due Date:	25-JAN-12	SDG Status:	Closed
	Walter Reed Hospital			Logged By:	RXA2
Purchase Order:	N300-300				
Package Level:	LEVEL5				
EDD Name:		Days to Process:	21		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		293767001	SU54-3-5-B5		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293767002	SU54-3-5		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293767003	SU54-3-5-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293767004	SU54-3-6		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293767005	SU54-3-6-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293767006	SU54-3-6-B5		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293767007	SU54-3-6-B10		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293767008	SU54-3-6-B9		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293767009	SU54-3-6-B6		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293767010	SU54-3-6-B4		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293767011	SU54-3-4-B33		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293767012	SU54-3-4-B32		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293767013	SU54-3-4-B34		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293767014	SU54-3-4-B35		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Prelogin Group QC Requirements			GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1			293767015	SU54-3-4-B36		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293767016	SU54-3-4-B30		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293767017	SU54-3-4-B27		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293767018	SU54-3-4-B28		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293767019	SU54-3-4-B26		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293767020	SU54-3-4-B24		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	Path 1
		14 day TAT		
293767001	SU54-3-5-B5		Z	
293767002	SU54-3-5		N	
293767003	SU54-3-5-B1		N	
293767004	SU54-3-6		N	
293767005	SU54-3-6-B1		N	
293767006	SU54-3-6-B5		N	
293767007	SU54-3-6-B10		N	
293767008	SU54-3-6-B9		N	
293767009	SU54-3-6-B6		N	
293767010	SU54-3-6-B4		N	
293767011	SU54-3-4-B33		N	
293767012	SU54-3-4-B32		N	
293767013	SU54-3-4-B34		N	
293767014	SU54-3-4-B35		N	
293767015	SU54-3-4-B36		N	
293767016	SU54-3-4-B30		N	
293767017	SU54-3-4-B27		N	
293767018	SU54-3-4-B28		N	

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	14 day TAT	Path 1
293767019	SU54-3-4-B26			Z	
293767020	SU54-3-4-B24			Z	

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293767 Client SDG: 293767

GEL ID: Client Sample ID:	293767001 SU54-3-5-B5	293767002 SU54-3-5	293767003 SU54-3-5-B1	293767004 SU54-3-6	293767005 SU54-3-6-B1	293767006 SU54-3-6-B5	293767007 SU54-3-6-B10	293767008 SU54-3-6-B9
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293767 Client SDG: 293767

GEL ID: Client Sample ID:	293767009 SU54-3-6-B6	293767010 SU54-3-6-B4	293767011 SU54-3-4-B33	293767012 SU54-3-4-B32	293767013 SU54-3-4-B34	293767014 SU54-3-4-B35	293767015 SU54-3-4-B36	293767016 SU54-3-4-B30
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293767 Client SDG: 293767

GEL ID: Client Sample ID:	293767017 SU54-3-4-B27	293767018 SU54-3-4-B28	293767019 SU54-3-4-B26	293767020 SU54-3-4-B24
Cooler Seal Undisturbed	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y
Temperature (C)	18	18	18	18

Work Order: 293767

Report Date: 19 JAN 2012

Product: LSC_GABF
LSCC, Gross A/B, filter

Workdef ID: 1291480

In Product Group? No

Group Name: N/A

Group Reference: N/A

Method: EPA 900.0/SW846 9310/SM 7110B Modified

Path: Standard

Samples: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020

Product Reference: 14 day TAT

Parmname Check: All parmnames scheduled properly

Moisture Correction: "As Received"

Status: NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
12587-46-1	ALPHA	3.6	pCi/Filter	REG	Y	Y	Yes
12587-47-2	BETA	9	pCi/Filter	REG	Y	Y	

Login Requirements:

Requirement	Include?	Comments
Calculate collection date using the midpoint between Monitoring Start Date and Monitoring End Date?	N	
Has the chain of custody number been recorded?	N	
Is the SDG number different from the work order number?	N	
Is there a fax date?	Y	fax date is either 7 or 14 days
Is there a purchase order number?	Y	N300-300

Peer Review by:_____

Work Order (SDG#), PO# Checked?_____

C of C signed in receiver location? _____

Page: 23 of 59
Project #: GELP11-0988
GEL Quote #: GELP11-0988
COC Number (1):
PO Number:
GEL Chain of Custody and Analytical Request
GEL Work Order Number: 293767
GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Tidewater
Project/Site Name: WRPMC
Address:
Phone #: 410-997-4458
Fax #: 410-997-8713
Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Total number of containers										Should this sample be considered:	Comments
SU54-3-5-B5	12-30-11	1600	N		P												
SU54-3-5					P												
SU54-3-5-B1					P												
SU54-3-6					P												
SU54-3-6-B1					P												
SU54-3-6-B5					P												
SU54-3-6-B10					P												
SU54-3-6-B9					P												
SU54-3-6-B6					P												
SU54-3-6-B4					P												

PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.

TAT Requested: Normal: ☒ Rush: ☐ Specify: ☐ (Subject to Surcharge) Fax Results: Yes / No
Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4
Sample Collection Time Zone: Eastern Pacific Other Mountain
Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Chain of Custody Signatures			Sample Shipping and Delivery Details		
Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. [Signature]	1-9-12		1. [Signature]	1/12	0935
2.			2.		
3.			3.		

1.) Chain of Custody Number = Client Determined
2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal
5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank
For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: C

Client Name: Tide water

Phone #: 410-997-4458

Project/Site Name: WELAMC

Fax #: 410-997-8713

Address:

Collected by: <i>Angel Reyes</i>	Send Results To: <div></div>	Sample ID										Comments Note: extra sample is required for sample specific QC
* For composites - indicate start and stop date/time												
<i>S054-3-4-B33</i>	<i>12-30-11</i>	<i>1600</i>	<i>N</i>		<i>P</i>	<i>1</i>				<i>1</i>		
<i>S054-3-4-B32</i>					<i>P</i>	<i>1</i>				<i>1</i>		
<i>S054-3-4-B34</i>					<i>P</i>	<i>1</i>				<i>1</i>		
<i>S054-3-4-B35</i>					<i>P</i>	<i>1</i>				<i>1</i>		
<i>S054-3-4-B36</i>					<i>P</i>	<i>1</i>				<i>1</i>		
<i>S054-3-4-B30</i>					<i>P</i>	<i>1</i>				<i>1</i>		
<i>S054-3-4-B27</i>					<i>P</i>	<i>1</i>				<i>1</i>		
<i>S054-3-4-B28</i>					<i>P</i>	<i>1</i>				<i>1</i>		
<i>S054-3-4-B26</i>					<i>P</i>	<i>1</i>				<i>1</i>		
<i>S054-3-4-B24</i>					<i>P</i>	<i>1</i>				<i>1</i>		

TAT Requested: Normal: ☒ Rush: ☐ Specify: ☐

(Subject to Surcharges)

Fax Results: Yes / No

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Chain of Custody Signatures		Sample Shipping and Delivery Details	
Relinquished By (Signed)	Date	Received by (signed)	Date
Angel Reyes	1-9-12	David Lee	1/11/12

GEL PM: 0935

Method of Shipment: 1

Date Shipped:

Airbill #: 2

Airbill #: 3

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Feecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: C

PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.



SAMPLE RECEIPT & REVIEW FORM

Client: TIDWRH			SDG/AR/COC/Work Order: 293767		
Received By: DBL			Date Received: V1/V12		
Suspected Hazard Information		Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.	
COC/Samples marked as radioactive?			X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 cpm	
Classified Radioactive II or III by RSO?			X		
COC/Samples marked containing PCBs?			X		
Shipped as a DOT Hazardous?			X	Hazard Class Shipped: UN#:	
Samples identified as Foreign Soil?			X		
Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		X		Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius 18°
2a	Daily check performed and passed on IR temperature gun?	X			Temperature Device Serial #: 41502185 Secondary Temperature Device Serial # (If Applicable):
3	Chain of custody documents included with shipment?	X			
4	Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7	Are Encore containers present?		X		(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	X			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?		X		Sample ID's affected: No date and times on samples
11	Number of containers received match number indicated on COC?		X		Sample ID's affected: * See attached
12	Are sample containers identifiable as GEL provided?		X		
13	COC form is properly signed in relinquished/received sections?	X			
14	Carrier and tracking number.	X			Circle Applicable: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other 8758 6234 0517

Comments (Use Continuation Form if needed):



SAMPLE RECEIPT & REVIEW FORM CONTINUATION FORM

Client: TIDI

Date Received:

1/11/12

Page 2 of 2

Received Samples: SU54 5-3 B10, SU54 5-3 B12, SU54 5-3 B17, SU54 5-3 B31, SU54 5-2 B16, SU54 B2 B-9, and SU-2-7-2 B8 that were not on chain.

Samples SU54-5-2-B6 and SU54-5-2-B21 appeared on chain twice, but only received one container for each.

Received sample SU54-5-2-B27 that was not on COC

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
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GEL Work Order:	293768	Work Order Due Date:	01-FEB-12	Collector:	C
SDG:	293768	Package Due Date:	29-JAN-12	Prelogin #:	20120186950
Project Manager:	Edith Kent	EDD Due Date:		Project ID:	1291340
Project Name:	TIDIWRH	Fax Due Date:	25-JAN-12	SDG Status:	Closed
	Walter Reed Hospital			Logged By:	EOS1
Purchase Order:	N300-300				
Package Level:	LEVEL5				
EDD Name:		Days to Process:	21		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		293768001	SU54-3-2-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293768002	SU54-3-2-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293768003	SU54-3-2-B4		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293768004	SU54-3-2-B5		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293768005	SU54-3-3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293768006	SU54-3-3-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293768007	SU54-3-3-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293768008	SU54-3-3-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293768009	SU54-3-4-		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293768010	SU54-3-4-B10		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293768011	SU54-3-4-B9		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293768012	SU54-3-4-B13		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293768013	SU54-3-4-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293768014	SU54-3-4-B6		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

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Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		293768015	SU54-3-4-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293768016	SU54-3-4-B8		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293768017	SU54-3-4-B5		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293768018	SU54-3-4-B15		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293768019	SU54-3-4-B14		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293768020	SU54-3-4-B12		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

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N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	Path 1
		14 day TAT		
293768001	SU54-3-2-B1		N	
293768002	SU54-3-2-B3		N	
293768003	SU54-3-2-B4		N	
293768004	SU54-3-2-B5		N	
293768005	SU54-3-3		N	
293768006	SU54-3-3-B1		N	
293768007	SU54-3-3-B2		N	
293768008	SU54-3-3-B3		N	
293768009	SU54-3-4-		N	
293768010	SU54-3-4-B10		N	
293768011	SU54-3-4-B9		N	
293768012	SU54-3-4-B13		N	
293768013	SU54-3-4-B1		N	
293768014	SU54-3-4-B6		N	
293768015	SU54-3-4-B3		N	
293768016	SU54-3-4-B8		N	
293768017	SU54-3-4-B5		N	
293768018	SU54-3-4-B15		N	

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	14 day TAT	Path 1
293768019	SU54-3-4-B14			Z	
293768020	SU54-3-4-B12			Z	

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
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Work Order: 293768 Client SDG: 293768

GEL ID: Client Sample ID:	293768001 SU54-3-2-B1	293768002 SU54-3-2-B3	293768003 SU54-3-2-B4	293768004 SU54-3-2-B5	293768005 SU54-3-3	293768006 SU54-3-3-B1	293768007 SU54-3-3-B2	293768008 SU54-3-3-B3
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
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Work Order: 293768 Client SDG: 293768

GEL ID: Client Sample ID:	293768009 SU54-3-4-	293768010 SU54-3-4-B10	293768011 SU54-3-4-B9	293768012 SU54-3-4-B13	293768013 SU54-3-4-B1	293768014 SU54-3-4-B6	293768015 SU54-3-4-B3	293768016 SU54-3-4-B8
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
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Work Order: 293768 Client SDG: 293768

GEL ID: Client Sample ID:	293768017 SU54-3-4-B5	293768018 SU54-3-4-B15	293768019 SU54-3-4-B14	293768020 SU54-3-4-B12
Cooler Seal Undisturbed	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y
Temperature (C)	18	18	18	18

Work Order: 293768

Report Date: 19 JAN 2012

Product: LSC_GABF
LSCC, Gross A/B, filter

Workdef ID: 1291480

In Product Group? No

Group Name: N/A

Group Reference: N/A

Method: EPA 900.0/SW846 9310/SM 7110B Modified

Path: Standard

Samples: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020

Product Reference: 14 day TAT

Parmname Check: All parmnames scheduled properly

Moisture Correction: "As Received"

Status: NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
12587-46-1	ALPHA	3.6	pCi/Filter	REG	Y	Y	Yes
12587-47-2	BETA	9	pCi/Filter	REG	Y	Y	

Login Requirements:

Requirement	Include?	Comments
Calculate collection date using the midpoint between Monitoring Start Date and Monitoring End Date?	N	
Has the chain of custody number been recorded?	N	
Is the SDG number different from the work order number?	N	
Is there a fax date?	Y	fax date is either 7 or 14 days
Is there a purchase order number?	Y	N300-300

Peer Review by: _____

Work Order (SDG#), PO# Checked? _____

C of C signed in receiver location? _____

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Page: <u>22</u> of <u>59</u>	<h2 style="text-align: center;">GEL Chain of Custody and Analytical Request</h2> <p style="text-align: right;">GEL Work Order Number: _____</p>
Project #: _____	
GEL Quote #: <u>GEL011-0988</u>	
COC Number ⁽¹⁾ : _____	
PO Number: _____	

Client Name:	Tidewater	Phone #:	410-997-4158
Project/Site Name:	WRAMC	Fax #:	410-997-8713
Address:			

Collected by: <i>Angel Reyes</i>	Send Results To: [REDACTED]	Number of [REDACTED]	Comments Note: extra sample is

[illegible]

SU54-3-4-B9	12-30-11	1600	N	P	1	1
SU54-3-4-B13				P	1	1
SU54-3-4-B1				P	1	1
SU54-3-4-B6				P	1	1
SU54-3-4-B3				P	1	1
SU54-3-4-B8				P	1	1
SU54-3-4-B5				P	1	1
SU54-3-4-B15				P	1	1
SU54-3-4-B14				P	1	1
SU54-3-4-B12				P	1	1

PERSONAL INFORMATION
WAS REMOVED BY NRC. NO
COPY OF THIS INFORMATION
WAS RETAINED BY THE NRC.

TAT Requested: Normal: <input checked="" type="checkbox"/>	Rush: <input type="checkbox"/>	Specify:	Fax Results:	Yes / No	Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4
Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards					Sample Collection Time Zone

	Eastern	Pacific
Central		
Mountain		
Other		

Chain of Custody Signatures			Sample Shipping and Delivery Details					
Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time	GEL PM:	Method of Shipment:	Date Shipped:
1 <i>Angel H. Lopez</i>	1-9-12		1 <i>David L. Loe</i>	1/11/12	0835			
2			2				Airbill #:	
3			3				Airbill #:	

	For Lab Receiving Use Only
1.) Chain of Custody Number = Client Determined	
2.) QC Codes: N = Normal Sample, EB = Equipment Blank, MS = Matrix Spike Duplicate Sample, G = Grab, C = Composite	
3.) Field Filled: For liquid matrices, indicate with a + - for yes the sample was field filtered or - N - for sample was not field filtered.	
4.) Matrix Codes: DW =Drinking Water, GW =Groundwater, SW =Surface Water, WW =Waste Water, W =Water, SO =Soil, SD =Sediment, SL =Sludge, SS =Solid Waste, O =Oil, F =Filter, P =Wipe, U =Urine, F =Fecal, N =Nasal	
5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B , 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3 , 6010B/7470A - 1).	
6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank	
	Cooler Temp: C
	Custody Seal Intact? YES NO
	WHITE = LABORATORY VEILLOW = FIELD PINK = CLIENT



SAMPLE RECEIPT & REVIEW FORM

Client: <u>TID1WRH</u>		SDG/AR/COC/Work Order: <u>293768</u>	
Received By: <u>DBL</u>		Date Received: <u>VIV12</u>	
Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0 cpm</u>
Classified Radioactive II or III by RSO?		X	
COC/Samples marked containing PCBs?		X	
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		X	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		X		Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius <u>18°</u>
2a Daily check performed and passed on IR temperature gun?	X			Temperature Device Serial #: <u>41502182</u> Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	X			
4 Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7 Are Encore containers present?		X		(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	X			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?			X	Sample ID's affected: <u>No date and times on samples</u>
11 Number of containers received match number indicated on COC?			X	Sample ID's affected: <u>* See attached</u>
12 Are sample containers identifiable as GEL provided?			X	
13 COC form is properly signed in relinquished/received sections?	X			
14 Carrier and tracking number.	X			Circle Applicable: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other <u>8758 6234 0517</u>

Comments (Use Continuation Form if needed):



SAMPLE RECEIPT & REVIEW FORM CONTINUATION FORM

Client: TIDI

Date Received:

1/11/12

Page 2 of 2

Received Samples: SU54 5-3 B10, SU54 5-3 B12, SU54 5-3 B17, SU54 5-3 B31, SU54 5-2 B16, SU54 B2 B-9, and SU-2-7-2 B8 that were not on chain.

Samples SU54-5-2-B6 and SU54-5-2-B21 appeared on chain twice, but only received one container for each.

Received sample SU54-5-2-B27 that was not on COC

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

GEL Work Order:	293769	Work Order Due Date:	01-FEB-12	Collector:	C
SDG:	293769	Package Due Date:	29-JAN-12	Prelogin #:	20120186950
Project Manager:	Edith Kent	EDD Due Date:		Project ID:	1291340
Project Name:	TIDIWRH	Fax Due Date:	25-JAN-12	SDG Status:	Closed
	Walter Reed Hospital			Logged By:	EMK
Purchase Order:	N300-300				
Package Level:	LEVEL5				
EDD Name:		Days to Process:	21		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		293769001	SU54-3-4-B25		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293769002	SU54-3-4-B23		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293769003	SU54-3-4-B21		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293769004	SU54-3-4-B18		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293769005	SU54-3-4-B20		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293769006	SU54-3-4-B19		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293769007	SU54-3-4-B17		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293769008	SU54-3-5-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293769009	SU54-3-5-B4		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293769010	SU54-3-5-B6		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293769011	SU54-3-6-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293769012	SU54-3-6-B7		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293769013	SU54-4-1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293769014	SU54-4-1-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

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Prelogin Group QC Requirements			GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1			293769015	SU54-4-1-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293769016	SU54-4-1-B4		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293769017	SU54-4-2-B15		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293769018	SU54-4-2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293769019	SU54-4-2-B35		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293769020	SU54-4-2-B16		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

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N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	Path 1
		14 day TAT		
293769001	SU54-3-4-B25		N	
293769002	SU54-3-4-B23		N	
293769003	SU54-3-4-B21		N	
293769004	SU54-3-4-B18		N	
293769005	SU54-3-4-B20		N	
293769006	SU54-3-4-B19		N	
293769007	SU54-3-4-B17		N	
293769008	SU54-3-5-B3		N	
293769009	SU54-3-5-B4		N	
293769010	SU54-3-5-B6		N	
293769011	SU54-3-6-B3		N	
293769012	SU54-3-6-B7		N	
293769013	SU54-4-1		N	
293769014	SU54-4-1-B1		N	
293769015	SU54-4-1-B3		N	
293769016	SU54-4-1-B4		N	
293769017	SU54-4-2-B15		N	
293769018	SU54-4-2		N	

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	14 day TAT	Path 1
293769019	SU54-4-2-B35			Z	
293769020	SU54-4-2-B16			Z	

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
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Work Order: 293769 Client SDG: 293769

GEL ID: Client Sample ID:	293769001 SU54-3-4-B25	293769002 SU54-3-4-B23	293769003 SU54-3-4-B21	293769004 SU54-3-4-B18	293769005 SU54-3-4-B20	293769006 SU54-3-4-B19	293769007 SU54-3-4-B17	293769008 SU54-3-5-B3
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293769 Client SDG: 293769

GEL ID: Client Sample ID:	293769009 SU54-3-5-B4	293769010 SU54-3-5-B6	293769011 SU54-3-6-B3	293769012 SU54-3-6-B7	293769013 SU54-4-1	293769014 SU54-4-1-B1	293769015 SU54-4-1-B3	293769016 SU54-4-1-B4
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293769 Client SDG: 293769

GEL ID: Client Sample ID:	293769017 SU54-4-2-B15	293769018 SU54-4-2	293769019 SU54-4-2-B35	293769020 SU54-4-2-B16
Cooler Seal Undisturbed	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y
Temperature (C)	18	18	18	18

Work Order: 293769

Report Date: 19 JAN 2012

Product: LSC_GABF

Workdef ID: 1291480

In Product Group? No

Group Name: N/A

Group Reference: N/A

LSCC, Gross A/B, filter

Method: EPA 900.0/SW846 9310/SM 7110B Modified

Path: Standard

Samples: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020

Product Reference: 14 day TAT

Parmname Check: All parmnames scheduled properly

Moisture Correction: "As Received"

Status: NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
12587-46-1	ALPHA	3.6	pCi/Filter	REG	Y	Y	Yes
12587-47-2	BETA	9	pCi/Filter	REG	Y	Y	

Login Requirements:

Requirement	Include?	Comments
Calculate collection date using the midpoint between Monitoring Start Date and Monitoring End Date?	N	
Has the chain of custody number been recorded?	N	
Is the SDG number different from the work order number?	N	
Is there a fax date?	Y	fax date is either 7 or 14 days
Is there a purchase order number?	Y	N300-300

Peer Review by:_____

Work Order (SDG#), PO# Checked?_____

C of C signed in receiver location? _____

Client Name: Tidewater

Phone #: 410-997-4458

Project/Site Name: WRAMC

Fax #: 410-997-8713

Address:

Collected by: <i>Angel Reyes</i>	Sample ID	Send Results To: [REDACTED]					Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
		* For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)		Sample Matrix (4)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.

TAT Requested: Normal: ☒ Rush: ☐ Specify: ☐ (Subject to Surcharge)

Fax Results: Yes / No

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Chain of Custody Signatures				Sample Shipping and Delivery Details			
Relinquished By (Signed)	Date	Time	Received by (Signed)	Date	Time	GEL PM:	
1 Angel Reyes	19-12		1 Daniel Lopez	11/12			
2			2				
3			3				

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

For Lab Receiving Use Only

Custody Seal Intact?

YES NO

Cooler Temp:

C

Client Name: Tidewater

Phone #: 410-997-4458

Project/Site Name: WRAMC

Fax #: 410-997-8713

Address:

Sample ID		Send Results To		Sample Analysis Requested (5) (Fill in the number of containers for each test)		Comments	
* For composites - indicate start and stop date/time		Date Collected (mm-dd-yy)	* Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Total number of containers
SUS4-3-6-B3		12-30-11	1600	N		P	1
SUS4-3-6-B7						P	1
SUS4-4-1						P	1
SUS4-4-1-B1						P	1
SUS4-4-1-B3						P	1
SUS4-4-1-B4						P	1
SUS4-4-2-B15						P	1
SUS4-4-2						P	1
SUS4-4-2-B35						P	1
SUS4-4-2-B16						P	1

PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.

TAT Requested: Normal: ☒ Rush: ☐ Specify: ☐

(Subject to Surcharge)

Fax Results: Yes / No

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Chain of Custody Signatures			Sample Shipping and Delivery Details		
Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Angel Reyes	1-9-12		1 David Lopez	1/11/12	0930
2			2		
3			3		

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: C



SAMPLE RECEIPT & REVIEW FORM

Client: <u>TID1WRH</u>		SDG/AR/COC/Work Order: <u>293769</u>	
Received By: <u>DBL</u>		Date Received: <u>VIV/12</u>	
Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0 cpm</u>
Classified Radioactive II or III by RSO?		X	
COC/Samples marked containing PCBs?		X	
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		X	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		X		Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius <u>18°</u>
2a Daily check performed and passed on IR temperature gun?	X			Temperature Device Serial #: <u>41502182</u> Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	X			
4 Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7 Are Encore containers present?		X		(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	X			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?			X	Sample ID's affected: <u>No date and times on samples</u>
11 Number of containers received match number indicated on COC?			X	Sample ID's affected: <u>* See attached</u>
12 Are sample containers identifiable as GEL provided?			X	
13 COC form is properly signed in relinquished/received sections?	X			
14 Carrier and tracking number.	X			Circle Applicable: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other <u>8758 6234 0517</u>

Comments (Use Continuation Form if needed):



SAMPLE RECEIPT & REVIEW FORM CONTINUATION FORM

Client: TIDI

Date Received:

1/11/12

Page 2 of 2

Received Samples: SU54 5-3 B10, SU54 5-3 B12, SU54 5-3 B17, SU54 5-3 B31, SU54 5-2 B16, SU54 B2 B-9, and SU-2-7-2 B8 that were not on chain.

Samples SU54-5-2-B6 and SU54-5-2-B21 appeared on chain twice, but only received one container for each.

Received sample SU54-5-2-B27 that was not on COC

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

GEL Work Order:	293770	Work Order Due Date:	01-FEB-12	Collector:	C
SDG:	293770	Package Due Date:	29-JAN-12	Prelogin #:	20120186950
Project Manager:	Edith Kent	EDD Due Date:		Project ID:	1291340
Project Name:	TIDIWRH	Fax Due Date:	25-JAN-12	SDG Status:	Closed
	Walter Reed Hospital			Logged By:	EOS1
Purchase Order:	N300-300				
Package Level:	LEVEL5				
EDD Name:		Days to Process:	21		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		293770001	SU54-4-2-B37		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293770002	SU54-4-2-B23		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293770003	SU54-4-2-B5		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293770004	SU54-4-2-B11		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293770005	SU54-4-2-B30		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293770006	SU54-4-2-B9		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293770007	SU54-4-2-B4		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293770008	SU54-4-2-B32		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293770009	SU54-4-2-B18		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293770010	SU54-4-3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293770011	SU54-4-3-B16		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293770012	SU54-4-3-B15		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293770013	SU54-4-3-B54		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293770014	SU54-4-3-B39		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Prelogin Group QC Requirements			GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1			293770015	SU54-4-3-B53		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293770016	SU54-4-3-B12		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293770017	SU54-4-3-B13		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293770018	SU54-4-3-B14		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293770019	SU54-4-3-B33		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293770020	SU54-4-3-B38		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	Path 1
		14 day TAT		
293770001	SU54-4-2-B37		N	
293770002	SU54-4-2-B23		N	
293770003	SU54-4-2-B5		N	
293770004	SU54-4-2-B11		N	
293770005	SU54-4-2-B30		N	
293770006	SU54-4-2-B9		N	
293770007	SU54-4-2-B4		N	
293770008	SU54-4-2-B32		N	
293770009	SU54-4-2-B18		N	
293770010	SU54-4-3		N	
293770011	SU54-4-3-B16		N	
293770012	SU54-4-3-B15		N	
293770013	SU54-4-3-B54		N	
293770014	SU54-4-3-B39		N	
293770015	SU54-4-3-B53		N	
293770016	SU54-4-3-B12		N	
293770017	SU54-4-3-B13		N	
293770018	SU54-4-3-B14		N	

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	14 day TAT	Path 1
293770019	SU54-4-3-B33			Z	
293770020	SU54-4-3-B38			Z	

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293770 Client SDG: 293770

GEL ID: Client Sample ID:	293770001 SU54-4-2-B37	293770002 SU54-4-2-B23	293770003 SU54-4-2-B5	293770004 SU54-4-2-B11	293770005 SU54-4-2-B30	293770006 SU54-4-2-B9	293770007 SU54-4-2-B4	293770008 SU54-4-2-B32
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293770 Client SDG: 293770

GEL ID: Client Sample ID:	293770009 SU54-4-2-B18	293770010 SU54-4-3	293770011 SU54-4-3-B16	293770012 SU54-4-3-B15	293770013 SU54-4-3-B54	293770014 SU54-4-3-B39	293770015 SU54-4-3-B53	293770016 SU54-4-3-B12
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293770 Client SDG: 293770

GEL ID: Client Sample ID:	293770017 SU54-4-3-B13	293770018 SU54-4-3-B14	293770019 SU54-4-3-B33	293770020 SU54-4-3-B38
Cooler Seal Undisturbed	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y
Temperature (C)	18	18	18	18

Work Order: 293770

Report Date: 19 JAN 2012

Product: LSC_GABF
LSCC, Gross A/B, filter

Workdef ID: 1291480

In Product Group? No

Group Name: N/A

Group Reference: N/A

Method: EPA 900.0/SW846 9310/SM 7110B Modified

Path: Standard

Samples: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020

Product Reference: 14 day TAT

Parmname Check: All parmnames scheduled properly

Moisture Correction: "As Received"

Status: NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
12587-46-1	ALPHA	3.6	pCi/Filter	REG	Y	Y	Yes
12587-47-2	BETA	9	pCi/Filter	REG	Y	Y	

Login Requirements:

Requirement	Include?	Comments
Calculate collection date using the midpoint between Monitoring Start Date and Monitoring End Date?	N	
Has the chain of custody number been recorded?	N	
Is the SDG number different from the work order number?	N	
Is there a fax date?	Y	fax date is either 7 or 14 days
Is there a purchase order number?	Y	N300-300

Peer Review by: _____

Work Order (SDG#), PO# Checked? _____

C of C signed in receiver location? _____

Page: 29 of 59

Project #: GELP11-0988

GEL Quote #: GELP11-0988

COC Number (1):

PO Number:

GEL Chain of Custody and Analytical Request

GEL Work Order Number: 293770

GEL Laboratories, LLC

2040 Savage Road

Charleston, SC 29407

Phone: (843) 556-8171

Fax: (843) 766-1178

Client Name: Tidewater

Project/Site Name: WRAMC

Address:

Phone #: 410-997-4458

Fax #: 410-997-8713

Collected by: Angel Reyes

Send Results To: [REDACTED]

Sample ID

*For composites - indicate start and stop date/time

Date Collected (mm-dd-yy)	Collected (Military) (hhmm)	QC Code (h)	Field Filtered (h)	Sample Matrix (h)	Radioactive	TSCA Regulated	Should this sample be considered:	Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test)	Preservative Type (6)	Comments
12/30/11	1600	N		P	✓						
SU54-4-2-B37				P	✓						
SU54-4-2-B23				P	✓						
SU54-4-2-B5				P	✓						
SU54-4-2-B11				P	✓						
SU54-4-2-B30				P	✓						
SU54-4-2-B9				P	✓						
SU54-4-2-B4				P	✓						
SU54-4-2-B32				P	✓						
SU54-4-2-B18				P	✓						
SU54-4-3				P	✓						

TAT Requested: Normal: ✓ Rush: Specify: (Subject to Surcharge)

Fax Results: Yes / No

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Chain of Custody Signatures			Sample Shipping and Delivery Details		
Relinquished By (Signed)	Date	Time	Received by (Signed)	Date	Time
1 Angel Reyes	1-9-12		David Sedice	1/11/12	0135
2					
3					

GEL PM:

Method of Shipment:

Date Shipped:

Airbill #:

Airbill #:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: C

WHITE = LABORATORY

YELLOW = FILE

PINK = CLIENT

GEL Chain of Custody and Analytical Request

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

GEL Work Order Number:

Page: 30 of 59
Project #: GELP11-0988
GEL Quote #: GELP11-0988
COC Number (1):
PO Number:

Client Name: Tidewater		Phone #: 410-997-4458		Sample Analysis Requested (5) (Fill in the number of containers for each test)												Comments Note: extra sample is required for sample specific QC					
Project/Site Name: WRANC		Fax #: 410-997-8713		Should this sample be considered:																	
Address:				Total number of containers																	
Collected by: Angel Reyes	Send Results To	Sample ID	Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Radioactive	TSCA Regulated												Preservative Type (6)
			*For composites - indicate start and stop date/time																		
SU54-4-3-B16			12-30-11	1600	N		P		Alpha Beta Gross												
SU54-4-3-B15							P														
SU54-4-3-B54							P														
SU54-4-3-B39							P														
SU54-4-3-B53							P														
SU54-4-3-B12							P														
SU54-4-3-B13							P														
SU54-4-3-B14							P														
SU54-4-3-B33							P														
SU54-4-3-B38							P														

PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.

TAT Requested: Normal: ☒ Rush: ☐ Specify: (Subject to Surcharge) Fax Results: Yes / No Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Chain of Custody Signatures			Sample Shipping and Delivery Details		
Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Angel Reyes	1-9-12		David Leticia	1/12/2013	
2.					
3.					

GEL PM: Method of Shipment: Date Shipped: Airbill #: Airbill #:

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: C

1.) Chain of Custody Number = Client Determined
2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal
5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT



SAMPLE RECEIPT & REVIEW FORM

Client: <u>TID IWRH</u>		SDG/AR/COC/Work Order: <u>293770</u>
Received By: <u>DBL</u>		Date Received: <u>VIV/2</u>
Suspected Hazard Information	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?	<input type="checkbox"/> <input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0 cpm</u>
Classified Radioactive II or III by RSO?	<input type="checkbox"/> <input checked="" type="checkbox"/>	
COC/Samples marked containing PCBs?	<input type="checkbox"/> <input checked="" type="checkbox"/>	
Shipped as a DOT Hazardous?	<input type="checkbox"/> <input checked="" type="checkbox"/>	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?	<input type="checkbox"/> <input checked="" type="checkbox"/>	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius <u>18°</u>
2a Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>41502182</u> Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and containers affected:
7 Are Encore containers present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sample ID's affected: <u>No date and times on samples</u>
11 Number of containers received match number indicated on COC?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sample ID's affected: <u>* See attached</u>
12 Are sample containers identifiable as GEL provided?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
14 Carrier and tracking number.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other <u>8758 6234 0517</u>

Comments (Use Continuation Form if needed):



SAMPLE RECEIPT & REVIEW FORM CONTINUATION FORM

Client:

TIDI

Date Received:

1/11/12

Page 2 of 2

Received Samples: SU54 5-3 B10, SU54 5-3 B12, SU54 5-3 B17, SU54 5-3 B31, SU54 5-2 B16, SU54 B2 B-9, and SU-2-7-2 B8 that were not on chain.

Samples SU54-5-2-B6 and SU54-5-2-B21 appeared on chain twice, but only received one container for each.

Received sample SU54-5-2-B27 that was not on COC

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

GEL Work Order:	293771	Work Order Due Date:	01-FEB-12	Collector:	C
SDG:	293771	Package Due Date:	29-JAN-12	Prelogin #:	20120186950
Project Manager:	Edith Kent	EDD Due Date:		Project ID:	1291340
Project Name:	TIDIWRH	Fax Due Date:	25-JAN-12	SDG Status:	Closed
	Walter Reed Hospital			Logged By:	RXA2
Purchase Order:	N300-300				
Package Level:	LEVEL5				
EDD Name:		Days to Process:	21		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		293771001	SU-54-4-2-B19		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293771002	SU-54-4-2-B29		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293771003	SU-54-4-2-B34		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293771004	SU-54-4-2-B31		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293771005	SU-54-4-2-B22		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293771006	SU-54-4-2-B7		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293771007	SU-54-4-2-B13		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293771008	SU-54-4-2-B20		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293771009	SU-54-4-2-B8		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293771010	SU-54-4-2-B27		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293771011	SU-54-4-2-B36		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293771012	SU-54-4-2-B12		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293771013	SU-54-4-2-B14		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293771014	SU-54-4-2-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

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Prelogin Group QC Requirements			GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1			293771015	SU-54-4-2-B38		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293771016	SU-54-4-2-B25		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293771017	SU-54-4-2-B39		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293771018	SU-54-4-2-B26		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293771019	SU-54-4-2-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293771020	SU-54-4-2-B6		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
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N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	Path 1
		14 day TAT		
293771001	SU-54-4-2-B19		N	
293771002	SU-54-4-2-B29		N	
293771003	SU-54-4-2-B34		N	
293771004	SU-54-4-2-B31		N	
293771005	SU-54-4-2-B22		N	
293771006	SU-54-4-2-B7		N	
293771007	SU-54-4-2-B13		N	
293771008	SU-54-4-2-B20		N	
293771009	SU-54-4-2-B8		N	
293771010	SU-54-4-2-B27		N	
293771011	SU-54-4-2-B36		N	
293771012	SU-54-4-2-B12		N	
293771013	SU-54-4-2-B14		N	
293771014	SU-54-4-2-B3		N	
293771015	SU-54-4-2-B38		N	
293771016	SU-54-4-2-B25		N	
293771017	SU-54-4-2-B39		N	
293771018	SU-54-4-2-B26		N	

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	14 day TAT	Path 1
293771019	SU-54-4-2-B1			Z	
293771020	SU-54-4-2-B6			Z	

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293771 Client SDG: 293771

GEL ID: Client Sample ID:	293771001 SU-54-4-2-B19	293771002 SU-54-4-2-B29	293771003 SU-54-4-2-B34	293771004 SU-54-4-2-B31	293771005 SU-54-4-2-B22	293771006 SU-54-4-2-B7	293771007 SU-54-4-2-B13	293771008 SU-54-4-2-B20
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293771 Client SDG: 293771

GEL ID: Client Sample ID:	293771009 SU-54-4-2-B8	293771010 SU-54-4-2-B27	293771011 SU-54-4-2-B36	293771012 SU-54-4-2-B12	293771013 SU-54-4-2-B14	293771014 SU-54-4-2-B3	293771015 SU-54-4-2-B38	293771016 SU-54-4-2-B25
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293771 Client SDG: 293771

GEL ID: Client Sample ID:	293771017 SU-54-4-2-B39	293771018 SU-54-4-2-B26	293771019 SU-54-4-2-B1	293771020 SU-54-4-2-B6
Cooler Seal Undisturbed	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y
Temperature (C)	18	18	18	18

Work Order: 293771

Report Date: 19 JAN 2012

Product: LSC_GABF
LSCC, Gross A/B, filter

Workdef ID: 1291480

In Product Group? No

Group Name: N/A

Group Reference: N/A

Method: EPA 900.0/SW846 9310/SM 7110B Modified

Path: Standard

Samples: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020

Product Reference: 14 day TAT

Parmname Check: All parmnames scheduled properly

Moisture Correction: "As Received"

Status: NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
12587-46-1	ALPHA	3.6	pCi/Filter	REG	Y	Y	Yes
12587-47-2	BETA	9	pCi/Filter	REG	Y	Y	

Login Requirements:

Requirement	Include?	Comments
Calculate collection date using the midpoint between Monitoring Start Date and Monitoring End Date?	N	
Has the chain of custody number been recorded?	N	
Is the SDG number different from the work order number?	N	
Is there a fax date?	Y	fax date is either 7 or 14 days
Is there a purchase order number?	Y	N300-300

Peer Review by:_____

Work Order (SDG#), PO# Checked?_____

C of C signed in receiver location? _____

Page: 27 of 59
Project #: GELP11-0988
GEL Quote #: GELP11-0988
COC Number (1):
PO Number:
GEL Work Order Number: 293771

Client Name: Tidewater
Project/Site Name: WPLAMC
Address:
Phone #: 410-997-4458
Fax #: 410-997-9713

Collected by: Angel Reyes
Send Results To: [REDACTED]

Sample ID	*Date Collected (mm-dd-yy)	Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Radioactive	TSCA Regulated	Should this sample be considered:	Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test)	Preservative Type (6)	Comments
SU54-4-2-B19	12-30-11	1600	N		P	1			1			
SU54-4-2-B29					P	1			1			
SU54-4-2-B34					P	1			1			
SU54-4-2-B31					P	1			1			
SU54-4-2-B22					P	1			1			
SU54-4-2-B1					P	1			1			
SU54-4-2-B13					P	1			1			
SU54-4-2-B20					P	1			1			
SU54-4-2-B8					P	1			1			
SU54-4-2-B27					P	1			1			

PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.

TAT Requested: Normal: ☒ Rush: ☐

Remarks: Are there any known hazards associated with these samples? If so, please list the hazards

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Sample Collection Time Zone: Eastern Pacific Other
Sample Shipping and Delivery Details
Relinquished By (Signed) Date Time
1 Angel Reyes 1-9-12
2
3

Chain of Custody Signatures
Received by (signed) Date Time
1 Dan Leduc 1/11/12 0935
2
3
1.) Chain of Custody Number = Client Determined
2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal
5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank
For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: C

Page: 28 of 59
Project #: GELP11-0988
GEL Quote #: GELP11-0988
COC Number (1):
PO Number:
GEL Work Order Number:
GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Tidewater
Phone #: 410-997-4458
Project/Site Name: WRAMC
Fax #: 410-997-8773
Address:

Collected by: Angel Reyes
Sample ID
* For composites - indicate start and stop date/time

Date Collected (mm-dd-yy)	Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	TSCA Regulated	Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test)	Comments
12-30-11	1600	N		P	1		1		Alpha Beta Gross
5054-4-2-B36				P	1		1		
5054-4-2-B12				P	1		1		
5054-4-2-B14				P	1		1		
5054-4-2-B3				P	1		1		
5054-4-2-B38				P	1		1		
5054-4-2-B25				P	1		1		
5054-4-2-B39				P	1		1		
5054-4-2-B26				P	1		1		
5054-4-2-B1				P	1		1		
5054-4-2-B6				P	1		1		

PERSONAL INFORMATION
WAS REMOVED BY NRC. NO
COPY OF THIS INFORMATION
WAS RETAINED BY THE NRC.

TAT Requested: Normal: ☒ Rush:
Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards
Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4
Sample Collection Time Zone
Eastern Pacific
Central Other
Mountain

Chain of Custody Signatures
Relinquished By (Signed) Date Time
1 Angel Reyes 1-9-12
2
3
Received by (signed) Date Time
1 David Ledie 1/12/12
2
3
GEL PM:
Method of Shipment: Date Shipped:
Airbill #: Airbill #:

1.) Chain of Custody Number = Client Determined
2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal
5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank
For Lab Receiving Use Only
Custody Seal Intact?
YES NO
Cooler Temp:
C

WHITE = LABORATORY
YELLOW = FILE
PINK = CLIENT



SAMPLE RECEIPT & REVIEW FORM

Client: <u>TIDWRH</u>		SDG/AR/COC/Work Order: <u>293771</u>	
Received By: <u>DBL</u>		Date Received: <u>VIV12</u>	
Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0 cpm</u>
Classified Radioactive II or III by RSO?		X	
COC/Samples marked containing PCBs?		X	
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		X	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		X		Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius <u>18°</u>
2a Daily check performed and passed on IR temperature gun?	X			Temperature Device Serial #: <u>41502182</u> Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	X			
4 Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7 Are Encore containers present?		X		(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	X			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?			X	Sample ID's affected: <u>No date and times on samples</u>
11 Number of containers received match number indicated on COC?			X	Sample ID's affected: <u>* See attached</u>
12 Are sample containers identifiable as GEL provided?			X	
13 COC form is properly signed in relinquished/received sections?	X			
14 Carrier and tracking number.	X			Circle Applicable: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other <u>8758 6234 0517</u>

Comments (Use Continuation Form if needed):



SAMPLE RECEIPT & REVIEW FORM CONTINUATION FORM

Client:

TIDI

Date Received:

1/11/12

Page 2 of 2

Received Samples: SU54 5-3 B10, SU54 5-3 B12, SU54 5-3 B17, SU54 5-3 B31, SU54 5-2 B16, SU54 B2 B-9, and SU-2-7-2 B8 that were not on chain.

Samples SU54-5-2-B6 and SU54-5-2-B21 appeared on chain twice, but only received one container for each.

Received sample SU54-5-2-B27 that was not on COC

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

GEL Work Order:	293772	Work Order Due Date:	01-FEB-12	Collector:	C
SDG:	293772	Package Due Date:	29-JAN-12	Prelogin #:	20120186950
Project Manager:	Edith Kent	EDD Due Date:		Project ID:	1291340
Project Name:	TIDIWRH	Fax Due Date:	25-JAN-12	SDG Status:	Closed
	Walter Reed Hospital			Logged By:	EMK
Purchase Order:	N300-300				
Package Level:	LEVEL5				
EDD Name:		Days to Process:	21		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		293772001	SU54-4-3-B35		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293772002	SU54-4-4-B5		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293772003	SU54-4-4-B13		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293772004	SU54-4-4		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293772005	SU54-4-4-B11		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293772006	SU54-4-4-B10		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293772007	SU54-4-4-B12		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293772008	SU54-4-4-B9		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293772009	SU54-4-4-B8		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293772010	SU54-4-4-B4		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293772011	SU54-4-4-B7		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293772012	SU54-4-4-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293772013	SU54-4-4-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293772014	SU54-4-4-B6		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

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Prelogin Group QC Requirements			GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1			293772015	SU54-4-4-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293772016	SU54-4-3-B6		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293772017	SU54-4-3-B55		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293772018	SU54-4-3-B48		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293772019	SU54-4-3-B41		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293772020	SU54-4-3-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

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N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	Path 1
		14 day TAT		
293772001	SU54-4-3-B35		N	
293772002	SU54-4-4-B5		N	
293772003	SU54-4-4-B13		N	
293772004	SU54-4-4		N	
293772005	SU54-4-4-B11		N	
293772006	SU54-4-4-B10		N	
293772007	SU54-4-4-B12		N	
293772008	SU54-4-4-B9		N	
293772009	SU54-4-4-B8		N	
293772010	SU54-4-4-B4		N	
293772011	SU54-4-4-B7		N	
293772012	SU54-4-4-B2		N	
293772013	SU54-4-4-B1		N	
293772014	SU54-4-4-B6		N	
293772015	SU54-4-4-B3		N	
293772016	SU54-4-3-B6		N	
293772017	SU54-4-3-B55		N	
293772018	SU54-4-3-B48		N	

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	14 day TAT	Path 1
293772019	SU54-4-3-B41			Z	
293772020	SU54-4-3-B2			Z	

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
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Work Order: 293772 Client SDG: 293772

GEL ID: Client Sample ID:	293772001 SU54-4-3-B35	293772002 SU54-4-4-B5	293772003 SU54-4-4-B13	293772004 SU54-4-4	293772005 SU54-4-4-B11	293772006 SU54-4-4-B10	293772007 SU54-4-4-B12	293772008 SU54-4-4-B9
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
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Work Order: 293772 Client SDG: 293772

GEL ID: Client Sample ID:	293772009 SU54-4-4-B8	293772010 SU54-4-4-B4	293772011 SU54-4-4-B7	293772012 SU54-4-4-B2	293772013 SU54-4-4-B1	293772014 SU54-4-4-B6	293772015 SU54-4-4-B3	293772016 SU54-4-3-B6
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
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Work Order: 293772 Client SDG: 293772

GEL ID:	293772017	293772018	293772019	293772020
Client Sample ID:	SU54-4-3-B55	SU54-4-3-B48	SU54-4-3-B41	SU54-4-3-B2
Cooler Seal Undisturbed	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y
Temperature (C)	18	18	18	18

Work Order: 293772

Report Date: 19 JAN 2012

Product: LSC_GABF

Workdef ID: 1291480

In Product Group? No

Group Name: N/A

Group Reference: N/A

LSCC, Gross A/B, filter

Method: EPA 900.0/SW846 9310/SM 7110B Modified

Path: Standard

Samples: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020

Product Reference: 14 day TAT

Parmname Check: All parmnames scheduled properly

Moisture Correction: "As Received"

Status: NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
12587-46-1	ALPHA	3.6	pCi/Filter	REG	Y	Y	Yes
12587-47-2	BETA	9	pCi/Filter	REG	Y	Y	

Login Requirements:

Requirement	Include?	Comments
Calculate collection date using the midpoint between Monitoring Start Date and Monitoring End Date?	N	
Has the chain of custody number been recorded?	N	
Is the SDG number different from the work order number?	N	
Is there a fax date?	Y	fax date is either 7 or 14 days
Is there a purchase order number?	Y	N300-300

Peer Review by:_____

Work Order (SDG#), PO# Checked?_____

C of C signed in receiver location? _____

GEL Chain of Custody and Analytical Request

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Page: 31 of 59
Project #: GELP11-0988
GEL Quote #: GELP11-0988
COC Number (1):
PO Number:
GEL Work Order Number: 293772

Client Name: Tidewater		Phone #: 410-997-4458		Sample Analysis Requested (5) (Fill in the number of containers for each test)											
Project/Site Name: WRAMC		Fax #: 410-997-8713													
Address:															
Collected by: Angel Reyes	Send Results To:														
Sample ID	*Date Collected (mm-dd-yy)	Collected (Military) (hhmm)	QC Code (a)	Field Filtered (b)	Sample Matrix (d)	Radiative	Should this sample be considered:	Total number of containers					Preservative Type (6)		Comments Note: extra sample is required for sample specific QC
SU54-4-3-B35	12-30-11	1600 N			P	1									
SU54-4-4-B5					P	1									
SU54-4-4-B13					P	1									
SU54-4-4-4					P	1									
SU54-4-4-4-B11					P	1									
SU54-4-4-4-B10					P	1									
SU54-4-4-4-B12					P	1									
SU54-4-4-4-B9					P	1									
SU54-4-4-4-B8					P	1									
SU54-4-4-4-B4					P	1									
TAT Requested: Normal: <input checked="" type="checkbox"/> Rush: <input type="checkbox"/> Specify: (Subject to Surcharge)		Fax Results: Yes / No		Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4											
Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards														Sample Collection Time Zone Eastern Pacific Central Mountain Other	

Chain of Custody Signatures			Sample Shipping and Delivery Details		
Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
Angel Reyes	1-9-12		David Lodie	1/11/12	
1			GEL PM:		
2			Method of Shipment:		
3			Date Shipped:		
			Airbill #:		
			Airbill #:		
1.) Chain of Custody Number = Client Determined					
2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite					
3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.					
4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Feal, N=Nasal					
5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).					
6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank					
For Lab Receiving Use Only					
Custody Seal Intact?					
YES NO					
Cooler Temp: C					

PERSONAL INFORMATION
WAS REMOVED BY NRC. NO
COPY OF THIS INFORMATION
WAS RETAINED BY THE NRC.

PINK = CLIENT

YELLOW = FILE

WHITE = LABORATORY

Page: <u>32</u> of <u>59</u>	GEL Chain of Custody and Analytical Request	GEL Laboratories, LLC 2040 Savage Road Charleston, SC 29407 Phone: (843) 556-8171 Fax: (843) 766-1178
Project #:		
GEL Quote #: <u>GELP11-0988</u>		
COC Number ⁽¹⁾ :		
PO Number:		
GEL Work Order Number:		

54-4-3-B3

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone
 Eastern Pacific
 Central Other _____
 Mountain

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time	GEL PM:
1 <i>Angel D. Reyes</i>	1-9-12		1 <i>Daniel Ledie</i>	1/11/12	0938	Method of Shipment:
2			2			Airbill #:
			3			Airbill #:

PINK = CLIENT

YES NO



SAMPLE RECEIPT & REVIEW FORM

Client: <u>TID1WRH</u>			SDG/AR/COC/Work Order: <u>293772</u>		
Received By: <u>DBL</u>			Date Received: <u>VIV/12</u>		
Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.		
COC/Samples marked as radioactive?		<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0 cpm</u>		
Classified Radioactive II or III by RSO?		<input checked="" type="checkbox"/>			
COC/Samples marked containing PCBs?		<input checked="" type="checkbox"/>			
Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____		
Samples identified as Foreign Soil?		<input checked="" type="checkbox"/>			

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		<input checked="" type="checkbox"/>		Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius
2a Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>			Temperature Device Serial #: <u>41502182</u> Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>			
4 Sample containers intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?		<input checked="" type="checkbox"/>		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?		<input checked="" type="checkbox"/>		Sample ID's and containers affected:
7 Are Encore containers present?		<input checked="" type="checkbox"/>		(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	<input checked="" type="checkbox"/>			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?			<input checked="" type="checkbox"/>	Sample ID's affected: <u>No date and times on samples</u>
11 Number of containers received match number indicated on COC?			<input checked="" type="checkbox"/>	Sample ID's affected: <u>* See attached</u>
12 Are sample containers identifiable as GEL provided?			<input checked="" type="checkbox"/>	
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>			
14 Carrier and tracking number.	<input checked="" type="checkbox"/>			Circle Applicable: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other <u>8758 6234 0517</u>

Comments (Use Continuation Form if needed):



SAMPLE RECEIPT & REVIEW FORM CONTINUATION FORM

Client:

TIDI

Date Received:

1/11/12

Page 2 of 2

Received Samples: SU54 5-3 B10, SU54 5-3 B12, SU54 5-3 B17, SU54 5-3 B31, SU54 5-2 B16, SU54 B2 B-9, and SU-2-7-2 B8 that were not on chain.

Samples SU54-5-2-B6 and SU54-5-2-B21 appeared on chain twice, but only received one container for each.

Received sample SU54-5-2-B27 that was not on COC

GEL Laboratories LLC - Login Review Report - Chain of Custody

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GEL Work Order:	293773	Work Order Due Date:	01-FEB-12	Collector:	C
SDG:	293773	Package Due Date:	29-JAN-12	Prelogin #:	20120186950
Project Manager:	Edith Kent	EDD Due Date:		Project ID:	1291340
Project Name:	TIDIWRH	Fax Due Date:	25-JAN-12	SDG Status:	Closed
	Walter Reed Hospital			Logged By:	RXA2
Purchase Order:	N300-300				
Package Level:	LEVEL5				
EDD Name:		Days to Process:	21		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		293773001	SU54-4-3-B7		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293773002	SU54-4-3-B34		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293773003	SU54-4-3-B36		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293773004	SU54-4-3-B5		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293773005	SU54-4-3-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293773006	SU54-4-3-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293773007	SU54-4-3-B56		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293773008	SU54-4-3-B49		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293773009	SU54-4-3-B8		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293773010	SU54-4-3-B43		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293773011	SU54-4-3-B57		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293773012	SU54-4-5-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293773013	SU54-4-5-B6		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293773014	SU54-4-5-B9		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

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Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		293773015	SU54-4-5-B5		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293773016	SU54-4-5-B8		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293773017	SU54-4-5-B10		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293773018	SU54-4-5-B11		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293773019	SU54-4-5-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293773020	SU54-4-5-B4		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
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N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	Path 1
		14 day TAT		
293773001	SU54-4-3-B7		N	
293773002	SU54-4-3-B34		N	
293773003	SU54-4-3-B36		N	
293773004	SU54-4-3-B5		N	
293773005	SU54-4-3-B3		N	
293773006	SU54-4-3-B1		N	
293773007	SU54-4-3-B56		N	
293773008	SU54-4-3-B49		N	
293773009	SU54-4-3-B8		N	
293773010	SU54-4-3-B43		N	
293773011	SU54-4-3-B57		N	
293773012	SU54-4-5-B1		N	
293773013	SU54-4-5-B6		N	
293773014	SU54-4-5-B9		N	
293773015	SU54-4-5-B5		N	
293773016	SU54-4-5-B8		N	
293773017	SU54-4-5-B10		N	
293773018	SU54-4-5-B11		N	

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	14 day TAT	Path 1
293773019	SU54-4-5-B3			Z	
293773020	SU54-4-5-B4			Z	

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293773 Client SDG: 293773

GEL ID: Client Sample ID:	293773001 SU54-4-3-B7	293773002 SU54-4-3-B34	293773003 SU54-4-3-B36	293773004 SU54-4-3-B5	293773005 SU54-4-3-B3	293773006 SU54-4-3-B1	293773007 SU54-4-3-B56	293773008 SU54-4-3-B49
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293773 Client SDG: 293773

GEL ID: Client Sample ID:	293773009 SU54-4-3-B8	293773010 SU54-4-3-B43	293773011 SU54-4-3-B57	293773012 SU54-4-5-B1	293773013 SU54-4-5-B6	293773014 SU54-4-5-B9	293773015 SU54-4-5-B5	293773016 SU54-4-5-B8
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293773 Client SDG: 293773

GEL ID: Client Sample ID:	293773017	293773018	293773019	293773020
	SU54-4-5-B10	SU54-4-5-B11	SU54-4-5-B3	SU54-4-5-B4
Cooler Seal Undisturbed	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y
Temperature (C)	18	18	18	18

Work Order: 293773

Report Date: 19 JAN 2012

Product: LSC_GABF
LSCC, Gross A/B, filter

Workdef ID: 1291480

In Product Group? No

Group Name: N/A

Group Reference: N/A

Method: EPA 900.0/SW846 9310/SM 7110B Modified

Path: Standard

Samples: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020

Product Reference: 14 day TAT

Parmname Check: All parmnames scheduled properly

Moisture Correction: "As Received"

Status: NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
12587-46-1	ALPHA	3.6	pCi/Filter	REG	Y	Y	Yes
12587-47-2	BETA	9	pCi/Filter	REG	Y	Y	

Login Requirements:

Requirement	Include?	Comments
Calculate collection date using the midpoint between Monitoring Start Date and Monitoring End Date?	N	
Has the chain of custody number been recorded?	N	
Is the SDG number different from the work order number?	N	
Is there a fax date?	Y	fax date is either 7 or 14 days
Is there a purchase order number?	Y	N300-300

Peer Review by: _____

Work Order (SDG#), PO# Checked? _____

C of C signed in receiver location? _____

Client Name: Tidewater

Project/Site Name: WRAMC

Address:

Phone #: 410-997-4458

Fax #: 410-997-8713

Collected by: Angel Reyes

Send Results To: [REDACTED]

Sample ID

* For composites - indicate start and stop date/time

Sample ID	Date Collected (mm-dd-yy)	Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Radioactive	Should this sample be considered:	Total number of containers	Sample Analysis Requested (5)	Preservative Type (6)	Comments
5054-4-3-B7	12/30/11	1600	N		P	1		1			
5054-4-3-B34					P	1		1			
5054-4-3-B36					P	1		1			
5054-4-3-B5					P	1		1			
5054-4-3-B3					P	1		1			
5054-4-3-B1					P	1		1			
5054-4-3-B56					P	1		1			
5054-4-3-B49					P	1		1			
5054-4-3-B8					P	1		1			
5054-4-3-B43					P	1		1			

PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.

TAT Requested: Normal: ☒ Rush: ☐

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Received by (signed) Date Time

Received by (signed) Date Time

Received by (signed) Date Time

Relinquished By (Signed) Date Time

Relinquished By (Signed) Date Time

Relinquished By (Signed) Date Time

For Lab Receiving Use Only

Custody Seal Intact?

Cooler Temp:

For Lab Receiving Use Only

Custody Seal Intact?

Cooler Temp:

Client Name: Tidewater

Phone #: 410-997-4458

Project/Site Name: WRAMC

Fax #: 410-997-8713

Address:

Collected by: Angel Reyes	Send Results To:	
Sample ID	*Date Collected (mm-dd-yy)	Time Collected (Military) (hhmm)
* For composites - indicate start and stop date/time		
5054-4-3-B57	12/30/11	1600
5054-4-5-B1		
5054-4-5-B6		
5054-4-5-B9		
5054-4-5-B5		
5054-4-5-B8		
5054-4-5-B10		
5054-4-5-B11		
5054-4-5-B3		
5054-4-5-B4		

PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.

TAT Requested: Normal: ☒ Rush: ☐ Specify: (Subject to Surcharge)

Fax Results: Yes / No

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Sample Collection Time Zone Eastern Pacific Central Mountain

Chain of Custody Signatures			Sample Shipping and Delivery Details		
Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
Angel Reyes	1-9-12		David Baker	1/11/12	0835

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: C



SAMPLE RECEIPT & REVIEW FORM

Client: <u>TIDWRH</u>		SDG/AR/COC/Work Order: <u>293773</u>	
Received By: <u>DBL</u>		Date Received: <u>VIV/2</u>	
Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0 CPM</u>
Classified Radioactive II or III by RSO?		X	
COC/Samples marked containing PCBs?		X	
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: _____ UN#: _____
Samples identified as Foreign Soil?		X	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		X		Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius <u>18°</u>
2a Daily check performed and passed on IR temperature gun?	X			Temperature Device Serial #: <u>41502182</u> Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	X			
4 Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7 Are Encore containers present?		X		(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	X			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?			X	Sample ID's affected: <u>No date and times on samples</u>
11 Number of containers received match number indicated on COC?			X	Sample ID's affected: <u>* See attached</u>
12 Are sample containers identifiable as GEL provided?			X	
13 COC form is properly signed in relinquished/received sections?	X			
14 Carrier and tracking number.	X			Circle Applicable: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other <u>8758 6234 0517</u>

Comments (Use Continuation Form if needed):



SAMPLE RECEIPT & REVIEW FORM CONTINUATION FORM

Client:

TIDI

Date Received:

1/11/12

Page 2 of 2

Received Samples: SU54 5-3 B10, SU54 5-3 B12, SU54 5-3 B17, SU54 5-3 B31, SU54 5-2 B16, SU54 B2 B-9, and SU-2-7-2 B8 that were not on chain.

Samples SU54-5-2-B6 and SU54-5-2-B21 appeared on chain twice, but only received one container for each.

Received sample SU54-5-2-B27 that was not on COC

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

GEL Work Order:	293775	Work Order Due Date:	01-FEB-12	Collector:	C
SDG:	293775	Package Due Date:	29-JAN-12	Prelogin #:	20120186950
Project Manager:	Edith Kent	EDD Due Date:		Project ID:	1291340
Project Name:	TIDIWRH	Fax Due Date:	25-JAN-12	SDG Status:	Closed
	Walter Reed Hospital			Logged By:	EOS1
Purchase Order:	N300-300				
Package Level:	LEVEL5				
EDD Name:		Days to Process:	21		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		293775001	SU54-5-3-B28		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293775002	SU54-5-3-B29		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293775003	SU54-5-3-B21		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293775004	SU54-5-3-B35		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293775005	SU54-5-3-B32		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293775006	SU54-5-3-B34		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293775007	SU54-5-3-B33		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293775008	SU54-5-1-B16		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293775009	SU54-5-1-B14		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293775010	SU54-5-1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293775011	SU54-4-3-B17		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293775012	SU54-4-3-B22		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293775013	SU54-4-3-B26		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293775014	SU54-4-3-B27		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
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Prelogin Group QC Requirements			GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1			293775015	SU54-4-3-B23		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293775016	SU54-4-3-B19		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293775017	SU54-4-3-B20		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293775018	SU54-4-3-B21		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293775019	SU54-4-3-B24		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293775020	SU54-4-3-B30		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

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N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	Path 1
		14 day TAT		
293775001	SU54-5-3-B28		N	
293775002	SU54-5-3-B29		N	
293775003	SU54-5-3-B21		N	
293775004	SU54-5-3-B35		N	
293775005	SU54-5-3-B32		N	
293775006	SU54-5-3-B34		N	
293775007	SU54-5-3-B33		N	
293775008	SU54-5-1-B16		N	
293775009	SU54-5-1-B14		N	
293775010	SU54-5-1		N	
293775011	SU54-4-3-B17		N	
293775012	SU54-4-3-B22		N	
293775013	SU54-4-3-B26		N	
293775014	SU54-4-3-B27		N	
293775015	SU54-4-3-B23		N	
293775016	SU54-4-3-B19		N	
293775017	SU54-4-3-B20		N	
293775018	SU54-4-3-B21		N	

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	14 day TAT	Path 1
293775019	SU54-4-3-B24			Z	
293775020	SU54-4-3-B30			Z	

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293775 Client SDG: 293775

GEL ID: Client Sample ID:	293775001 SU54-5-3-B28	293775002 SU54-5-3-B29	293775003 SU54-5-3-B21	293775004 SU54-5-3-B35	293775005 SU54-5-3-B32	293775006 SU54-5-3-B34	293775007 SU54-5-3-B33	293775008 SU54-5-1-B16
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293775 Client SDG: 293775

GEL ID: Client Sample ID:	293775009 SU54-5-1-B14	293775010 SU54-5-1	293775011 SU54-4-3-B17	293775012 SU54-4-3-B22	293775013 SU54-4-3-B26	293775014 SU54-4-3-B27	293775015 SU54-4-3-B23	293775016 SU54-4-3-B19
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293775 Client SDG: 293775

GEL ID: Client Sample ID:	293775017 SU54-4-3-B20	293775018 SU54-4-3-B21	293775019 SU54-4-3-B24	293775020 SU54-4-3-B30
Cooler Seal Undisturbed	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y
Temperature (C)	18	18	18	18

Work Order: 293775

Report Date: 19 JAN 2012

Product: LSC_GABF
LSCC, Gross A/B, filter

Workdef ID: 1291480

In Product Group? No

Group Name: N/A

Group Reference: N/A

Method: EPA 900.0/SW846 9310/SM 7110B Modified

Path: Standard

Samples: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020

Product Reference: 14 day TAT

Parmname Check: All parmnames scheduled properly

Moisture Correction: "As Received"

Status: NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
12587-46-1	ALPHA	3.6	pCi/Filter	REG	Y	Y	Yes
12587-47-2	BETA	9	pCi/Filter	REG	Y	Y	

Login Requirements:

Requirement	Include?	Comments
Calculate collection date using the midpoint between Monitoring Start Date and Monitoring End Date?	N	
Has the chain of custody number been recorded?	N	
Is the SDG number different from the work order number?	N	
Is there a fax date?	Y	fax date is either 7 or 14 days
Is there a purchase order number?	Y	N300-300

Peer Review by:_____

Work Order (SDG#), PO# Checked?_____

C of C signed in receiver location? _____

Page: 35 of 59
Project #: GELP11 - 0988
GEL Quote #: GELP11 - 0988
COC Number (1):
PO Number:
GEL Work Order Number: 293775
GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Tidewater
Project/Site Name: WRAMC
Address:
Phone #: 410-997-4458
Fax #: 410-997-8713

Collected by: Angel Reyes
Send Results To: [REDACTED]
Sample ID
* For composites - indicate start and stop date/time

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered:	Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test)	Preservative Type (6)	Comments
SU54-5-3-B28	12/30/11	1600	N		P	Radioactive	1			
SU54-5-3-B29					P		1			
SU54-5-3-B21					P		1			
SU54-5-3-B35					P		1			
SU54-5-3-B32					P		1			
SU54-5-3-B34					P		1			
SU54-5-3-B33					P		1			
SU54-5-1-B14					P		1			
SU54-5-1					P		1			

PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.

TAT Requested: Normal: ☒ Rush:
Specify: (Subject to Surcharge)
Fax Results: Yes / No
Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4
Sample Collection Time Zone: Eastern Pacific Other
Mountain

Chain of Custody Signatures
Relinquished By (Signed) Date Time Received by (signed) Date Time
1. [Signature] 1-9-12 [Signature] 1/11/12
2. [Signature] [Signature]
3. [Signature] [Signature]
GEL PM: [Signature]
Method of Shipment: [Signature]
Date Shipped: [Signature]
Airbill #: [Signature]
Airbill #: [Signature]

1.) Chain of Custody Number = Client Determined
2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal
5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank
For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: C

Page: 36 of 59
Project #: GELP11-0988
GEL Quote #: GELP11-0988
COC Number (1):
PO Number:
GEL Work Order Number:
GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Tidewater
Phone #: 410-997-4458
Project/Site Name: WRAMC
Fax #: 410-997-8713
Address:

Collected by: Angel Reyes
Send Results To: [REDACTED]
Sample ID
* For composites - indicate start and stop date/time

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered:	Total number of containers	Sample Analysis Requested (5)	Preservative Type (6)	Comments
S054-4-3-B17	12/30/11	1600	N		P	Radioactive	1			
S054-4-3-B22					P		1			
S054-4-3-B26					P		1			
S054-4-3-B27					P		1			
S054-4-3-B23					P		1			
S054-4-3-B19					P		1			
S054-4-3-B20					P		1			
S054-4-3-B21					P		1			
S054-4-3-B24					P		1			
S054-4-3-B30					P		1			

PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.

TAT Requested: Normal: ☒ Rush: ☐
(Subject to Surcharge) Fax Results: Yes ☐ No ☐

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Sample Collection Time Zone
Eastern Pacific Other
Central Mountain

Chain of Custody Signatures
Relinquished By (Signed) Date Time
Received by (signed) Date Time
GEL PM:
Method of Shipment: Date Shipped:
Airbill #: Airbill #:

For Lab Receiving Use Only
Custody Seal Intact?
YES NO
Cooler Temp:
C



SAMPLE RECEIPT & REVIEW FORM

Client: TID1WRH		SDG/AR/COC/Work Order: 293775	
Received By: DBL		Date Received: 1/11/12	
Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 cpm
Classified Radioactive II or III by RSO?		X	
COC/Samples marked containing PCBs?		X	
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		X	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		X		Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius 18°
2a Daily check performed and passed on IR temperature gun?	X			Temperature Device Serial #: 41502182 Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	X			
4 Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7 Are Encore containers present?		X		(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	X			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?			X	Sample ID's affected: No date and times on samples
11 Number of containers received match number indicated on COC?			X	Sample ID's affected: * See attached
12 Are sample containers identifiable as GEL provided?			X	
13 COC form is properly signed in relinquished/received sections?	X			
14 Carrier and tracking number.	X			Circle Applicable: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other 8758 6234 0517

Comments (Use Continuation Form if needed):



SAMPLE RECEIPT & REVIEW FORM CONTINUATION FORM

Client:

TIDI

Date Received:

1/11/12

Page 2 of 2

Received Samples: SU54 5-3 B10, SU54 5-3 B12, SU54 5-3 B17, SU54 5-3 B31, SU54 5-2 B16, SU54 B2 B-9, and SU-2-7-2 B8 that were not on chain.

Samples SU54-5-2-B6 and SU54-5-2-B21 appeared on chain twice, but only received one container for each.

Received sample SU54-5-2-B27 that was not on COC

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
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GEL Work Order:	293776	Work Order Due Date:	01-FEB-12	Collector:	C
SDG:	293776	Package Due Date:	29-JAN-12	Prelogin #:	20120186950
Project Manager:	Edith Kent	EDD Due Date:		Project ID:	1291340
Project Name:	TIDIWRH	Fax Due Date:	25-JAN-12	SDG Status:	Closed
	Walter Reed Hospital			Logged By:	EMK
Purchase Order:	N300-300				
Package Level:	LEVEL5				
EDD Name:		Days to Process:	21		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		293776001	SU54-4-3-B29		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293776002	SU54-4-3-B28		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293776003	SU54-4-3-B55		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293776004	SU54-4-3-B32		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293776005	SU54-4-3-B46		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293776006	SU54-4-3-B52		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293776007	SU54-4-3-B37		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293776008	SU54-4-3-B45		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293776009	SU54-4-3-B10		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293776010	SU54-4-3-B59		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293776011	SU54-4-3-B44		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293776012	SU54-4-3-B51		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293776013	SU54-4-3-B58		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293776014	SU54-4-3-B11		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
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Prelogin Group QC Requirements			GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1			293776015	SU54-4-5-B15		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293776016	SU54-4-5-B17		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293776017	SU54-4-5-B12		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293776018	SU54-4-5-B13		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293776019	SU54-4-5		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293776020	SU54-4-5-B18		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

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N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	Path 1
		14 day TAT		
293776001	SU54-4-3-B29		Z	
293776002	SU54-4-3-B28		N	
293776003	SU54-4-3-B55		N	
293776004	SU54-4-3-B32		N	
293776005	SU54-4-3-B46		N	
293776006	SU54-4-3-B52		N	
293776007	SU54-4-3-B37		N	
293776008	SU54-4-3-B45		N	
293776009	SU54-4-3-B10		N	
293776010	SU54-4-3-B59		N	
293776011	SU54-4-3-B44		N	
293776012	SU54-4-3-B51		N	
293776013	SU54-4-3-B58		N	
293776014	SU54-4-3-B11		N	
293776015	SU54-4-5-B15		N	
293776016	SU54-4-5-B17		N	
293776017	SU54-4-5-B12		N	
293776018	SU54-4-5-B13		N	

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	14 day TAT	Path 1
293776019	SU54-4-5			Z	
293776020	SU54-4-5-B18			Z	

GEL Laboratories LLC - Login Review Report - Auxiliary Data

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Work Order: 293776 Client SDG: 293776

GEL ID: Client Sample ID:	293776001 SU54-4-3-B29	293776002 SU54-4-3-B28	293776003 SU54-4-3-B55	293776004 SU54-4-3-B32	293776005 SU54-4-3-B46	293776006 SU54-4-3-B52	293776007 SU54-4-3-B37	293776008 SU54-4-3-B45
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

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Work Order: 293776 Client SDG: 293776

GEL ID: Client Sample ID:	293776009 SU54-4-3-B10	293776010 SU54-4-3-B59	293776011 SU54-4-3-B44	293776012 SU54-4-3-B51	293776013 SU54-4-3-B58	293776014 SU54-4-3-B11	293776015 SU54-4-5-B15	293776016 SU54-4-5-B17
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

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Work Order: 293776 Client SDG: 293776

GEL ID: Client Sample ID:	293776017 SU54-4-5-B12	293776018 SU54-4-5-B13	293776019 SU54-4-5	293776020 SU54-4-5-B18
Cooler Seal Undisturbed	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y
Temperature (C)	18	18	18	18

Work Order: 293776

Report Date: 19 JAN 2012

Product: LSC_GABF
LSCC, Gross A/B, filter

Workdef ID: 1291480

In Product Group? No

Group Name: N/A

Group Reference: N/A

Method: EPA 900.0/SW846 9310/SM 7110B Modified

Path: Standard

Samples: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020

Product Reference: 14 day TAT

Parmname Check: All parmnames scheduled properly

Moisture Correction: "As Received"

Status: NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
12587-46-1	ALPHA	3.6	pCi/Filter	REG	Y	Y	Yes
12587-47-2	BETA	9	pCi/Filter	REG	Y	Y	

Login Requirements:

Requirement	Include?	Comments
Calculate collection date using the midpoint between Monitoring Start Date and Monitoring End Date?	N	
Has the chain of custody number been recorded?	N	
Is the SDG number different from the work order number?	N	
Is there a fax date?	Y	fax date is either 7 or 14 days
Is there a purchase order number?	Y	N300-300

Peer Review by:_____

Work Order (SDG#), PO# Checked?_____

C of C signed in receiver location? _____

Client Name: Tidewater

Phone #: 410-997-8458

Project/Site Name: WRAMC

Fax #: 410-997-8713

Address:

Collected by: Angel Reyes

Send Results To: [REDACTED]

Sample ID

* For composites - indicate start and stop date/time

Sample ID	Date Collected (mm-dd-yy)	Time Collected (Military) (hhmm)	QC Code (a)	Field Filtered (b)	Sample Matrix (c)	Should this sample be considered:		Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test)										Comments
5054-4-3-B29	12/30/11	1600	N		P														
5054-4-3-B28					P														
5054-4-3-B55					P														
5054-4-3-B32					P														
5054-4-3-B46					P														
5054-4-3-B52					P														
5054-4-3-B37					P														
5054-4-3-B45					P														
5054-4-3-B10					P														
5054-4-3-B59					P														

PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.

TAT Requested: Normal: ☒ Rush: ☐ Specify: (Subject to Surcharge)

Fax Results: Yes / No

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Chain of Custody Signatures				Sample Shipping and Delivery Details			
Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time	GEL PM:	
1 Angel Reyes	1-9-12		David Lohie	1/12/2012			
2							
3							

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: C

GEL Chain of Custody and Analytical Request

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Page: 38 of 59
Project #: GELP11-0988
COC Number ⁽¹⁾:
PO Number:

GEL Work Order Number:

Client Name: <u>Tidelwater</u>		Phone #: <u>410-997-4458</u>		Sample Analysis Requested ⁽⁵⁾ (Fill in the number of containers for each test)											
Project/Site Name: <u>WR Amc</u>		Fax #: <u>410-997-8713</u>													
Address:															
Collected by: <u>Angel Reyes</u>	Send Results To: <u>[REDACTED]</u>														
Sample ID	*Time Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (a)	Field Filtered (b)	Sample Matrix (c)	Should this sample be considered:	Total number of containers						Preservative Type (6)		Comments Note: extra sample is required for sample specific QC
						Radioactive	TSCA Regulated								
<u>5054-4-3-B44</u>	<u>12/30/11</u>	<u>1600</u>	<u>N</u>		<u>P</u>	<u>1</u>		<u>1</u>							
<u>5054-4-3-B51</u>					<u>P</u>	<u>1</u>		<u>1</u>							
<u>5054-4-3-B58</u>					<u>P</u>	<u>1</u>		<u>1</u>							
<u>5054-4-3-B11</u>					<u>P</u>	<u>1</u>		<u>1</u>							
<u>5054-4-5-B15</u>					<u>P</u>	<u>1</u>		<u>1</u>							
<u>5054-4-5-B17</u>					<u>P</u>	<u>1</u>		<u>1</u>							
<u>5054-4-5-B12</u>					<u>P</u>	<u>1</u>		<u>1</u>							
<u>5054-4-5-B13</u>					<u>P</u>	<u>1</u>		<u>1</u>							
<u>5054-4-5</u>					<u>P</u>	<u>1</u>		<u>1</u>							
<u>5054-4-5-B18</u>					<u>P</u>	<u>1</u>		<u>1</u>							
TAT Requested: Normal: <input checked="" type="checkbox"/> Rush: <input type="checkbox"/> Specimen: <input type="checkbox"/>		(Subject to Surcharge)		Fax Results: Yes / No		Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4									
Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards														Sample Collection Time Zone Eastern Pacific Other _____ Mountain	

Chain of Custody Signatures

Relinquished By (Signed)	Date	Received by (signed)	Date	Time	GEL PM:
<u>Angel Reyes</u>	<u>1-9-12</u>	<u>David J. Loe</u>	<u>1/12/2013</u>		
					Method of Shipment:
					Date Shipped:
					Airbill #:
					Airbill #:

Sample Shipping and Delivery Details

For Lab Receiving Use Only	
Custody Seal Intact?	YES NO
Cooler Temp:	C

1.) Chain of Custody Number = Client Determined
2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal
5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

WHITE = LABORATORY

YELLOW = FILE

PINK = CLIENT



SAMPLE RECEIPT & REVIEW FORM

Client: <u>TID IWRH</u>		SDG/AR/COC/Work Order: <u>293776</u>	
Received By: <u>DBL</u>		Date Received: <u>V11/12</u>	
Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0 cpm</u>
Classified Radioactive II or III by RSO?		X	
COC/Samples marked containing PCBs?		X	
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		X	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		X		Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius <u>18°</u>
2a Daily check performed and passed on IR temperature gun?	X			Temperature Device Serial #: <u>41502182</u> Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	X			
4 Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7 Are Encore containers present?		X		(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	X			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?			X	Sample ID's affected: <u>No date and times on samples</u>
11 Number of containers received match number indicated on COC?			X	Sample ID's affected: <u>* See attached</u>
12 Are sample containers identifiable as GEL provided?			X	
13 COC form is properly signed in relinquished/received sections?	X			
14 Carrier and tracking number.	X			Circle Applicable: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other <u>8758 6234 0517</u>

Comments (Use Continuation Form if needed):



SAMPLE RECEIPT & REVIEW FORM CONTINUATION FORM

Client:

TIDI

Date Received:

1/11/12

Page 2 of 2

Received Samples: SU54 5-3 B10, SU54 5-3 B12, SU54 5-3 B17, SU54 5-3 B31, SU54 5-2 B16, SU54 B2 B-9, and SU-2-7-2 B8 that were not on chain.

Samples SU54-5-2-B6 and SU54-5-2-B21 appeared on chain twice, but only received one container for each.

Received sample SU54-5-2-B27 that was not on COC

GEL Laboratories LLC - Login Review Report - Chain of Custody

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GEL Work Order:	293778	Work Order Due Date:	01-FEB-12	Collector:	C
SDG:	293778	Package Due Date:	29-JAN-12	Prelogin #:	20120186950
Project Manager:	Edith Kent	EDD Due Date:		Project ID:	1291340
Project Name:	TIDIWRH	Fax Due Date:	25-JAN-12	SDG Status:	Closed
	Walter Reed Hospital			Logged By:	RXA2
Purchase Order:	N300-300				
Package Level:	LEVEL5				
EDD Name:		Days to Process:	21		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		293778001	SU54-5-2-B19		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293778002	SU54-5-2-B28		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293778003	SU54-5-2-B21		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293778004	SU54-5-2-B25		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293778005	SU54-5-2-B24		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293778006	SU54-5-2-B18		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293778007	SU54-5-2-B29		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293778008	SU54-5-2-B22		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293778010	SU54-5-2-B8		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293778011	SU54-5-2-B9		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293778013	SU54-5-2-B7		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293778014	SU54-5-2-B10		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293778015	SU54-5-1-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293778016	SU54-5-1-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

Prelogin Group QC Requirements		GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		293778017	SU54-5-1-B4		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293778018	SU54-5-1-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293778019	SU54-5-1-B6		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293778020	SU54-5-1-B7		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

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N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	Path 1
		14 day TAT		
293778001	SU54-5-2-B19		N	
293778002	SU54-5-2-B28		N	
293778003	SU54-5-2-B21		N	
293778004	SU54-5-2-B25		N	
293778005	SU54-5-2-B24		N	
293778006	SU54-5-2-B18		N	
293778007	SU54-5-2-B29		N	
293778008	SU54-5-2-B22		N	
293778010	SU54-5-2-B8		N	
293778011	SU54-5-2-B9		N	
293778013	SU54-5-2-B7		N	
293778014	SU54-5-2-B10		N	
293778015	SU54-5-1-B2		N	
293778016	SU54-5-1-B1		N	
293778017	SU54-5-1-B4		N	
293778018	SU54-5-1-B3		N	
293778019	SU54-5-1-B6		N	
293778020	SU54-5-1-B7		N	

GEL Laboratories LLC - Login Review Report - Auxiliary Data

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Work Order: 293778 Client SDG: 293778

GEL ID: Client Sample ID:	293778001 SU54-5-2-B19	293778002 SU54-5-2-B28	293778003 SU54-5-2-B21	293778004 SU54-5-2-B25	293778005 SU54-5-2-B24	293778006 SU54-5-2-B18	293778007 SU54-5-2-B29	293778008 SU54-5-2-B22
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

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Work Order: 293778 Client SDG: 293778

GEL ID: Client Sample ID:	293778010 SU54-5-2-B8	293778011 SU54-5-2-B9	293778013 SU54-5-2-B7	293778014 SU54-5-2-B10	293778015 SU54-5-1-B2	293778016 SU54-5-1-B1	293778017 SU54-5-1-B4	293778018 SU54-5-1-B3
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

Work Order: 293778 Client SDG: 293778

GEL ID: Client Sample ID:	293778019	293778020
	SU54-5-1-B6	SU54-5-1-B7
Cooler Seal Undisturbed	Y	Y
Radioactive Sample 1	Y	Y
Temperature (C)	18	18

Work Order: 293778

Report Date: 20 JAN 2012

Product: LSC_GABF
LSCC, Gross A/B, filter

Workdef ID: 1291480

In Product Group? No

Group Name: N/A

Group Reference: N/A

Method: EPA 900.0/SW846 9310/SM 7110B Modified

Path: Standard

Samples: 001, 002, 003, 004, 005, 006, 007, 008, 010, 011, 013, 014, 015, 016, 017, 018, 019, 020

Product Reference: 14 day TAT

Parmname Check: All parmnames scheduled properly

Moisture Correction: "As Received"

Status: NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
12587-46-1	ALPHA	3.6	pCi/Filter	REG	Y	Y	Yes
12587-47-2	BETA	9	pCi/Filter	REG	Y	Y	

Login Requirements:

Requirement	Include?	Comments
Calculate collection date using the midpoint between Monitoring Start Date and Monitoring End Date?	N	
Has the chain of custody number been recorded?	N	
Is the SDG number different from the work order number?	N	
Is there a fax date?	Y	fax date is either 7 or 14 days
Is there a purchase order number?	Y	N300-300

Peer Review by:_____

Work Order (SDG#), PO# Checked?_____

C of C signed in receiver location? _____

Page: 39 of 59		GEL Chain of Custody and Analytical Request		GEL Laboratories, LLC 2040 Savage Road Charleston, SC 29407 Phone: (843) 556-8171 Fax: (843) 766-1178	
Project #: GELP 11 - 0988		GEL Work Order Number: 293778			
COC Number (1):		Phone #: 410-997-4458		Sample Analysis Requested (5) (Fill in the number of containers for each test)	
PO Number:		Fax #: 410-997-8713			
Client Name: Tidewater		Send Results To: [REDACTED]			
Project/Site Name: WRAMC					
Address:					
Collected by: Angel Reyes					
Sample ID		*Date Collected (mm-dd-yy)		*Time Collected (Military) (hhmm)	
* For composites - indicate start and end		QC Code (2)		Field Filtered (3)	
		Sample Matrix (4)		TSCA Regulated	
				Should this sample be considered:	
				Total number of containers	
				Comments	
				Note: extra sample is required for sample specific QC	
SUS4-5-2-B28		12/30/11		1600	
SUS4-5-2-B28					
SUS4-5-2-B28					
SUS4-5-2-B25					
SUS4-5-2-B24					
SUS4-5-2-B18					
SUS4-5-2-B29					
SUS4-5-2-B22					
SUS4-5-2-B21					
SUS4-5-2-B8					
TAT Requested: Normal: <input checked="" type="checkbox"/> Rush: <input type="checkbox"/> Specify: <input type="checkbox"/>		Fax Results: Yes / No		Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4	
Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards					
Chain of Custody Signatures		Sample Shipping and Delivery Details			
Relinquished By (Signed) Date Time		GEL PM: Date Shipped:			
1. [Signature] 1-9-12		1. [Signature] 1/11/12			
2. [Signature]		2. [Signature]			
3. [Signature]		3. [Signature]			
1.) Chain of Custody Number = Client Determined					
2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite					
3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.					
4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal					
5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).					
6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank					
For Lab Receiving Use Only		Custody Seal Intact? YES NO Cooler Temp: C			

Client Name: Tidewater

Phone #: 410-997-4458

Project/Site Name: WRAMC

Fax #: 410-997-8713

Address:

Collected by: Angel Reyes		Send Results To: [REDACTED]																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Sample ID	* For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Radioactive	TSCA Regulated	Total number of	Gross Alpha Beta																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

TAT Requested: Normal: ☒ Rush: ☐

Remarks: Are there any known hazards these samples? If so, please list the hazards

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Sample Collection Time Zone: Eastern Pacific Other Mountain

Chain of Custody Signatures				Sample Shipping and Delivery Details			
Relinquished By (Signed)	Date	Received by (signed)	Date	GEL PM:	Date Shipped:		
1. Angel Reyes	19-12	David Lopez	11/12/2013				
2.							
3.							

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: C

PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.

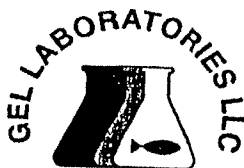


SAMPLE RECEIPT & REVIEW FORM

Client: <u>TIDWRH</u>		SDG/AR/COC/Work Order: <u>293778</u>	
Received By: <u>DBL</u>		Date Received: <u>VIV/12</u>	
Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0 cpm</u>
Classified Radioactive II or III by RSO?		X	
COC/Samples marked containing PCBs?		X	
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		X	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		X		Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius <u>18°</u>
2a Daily check performed and passed on IR temperature gun?	X			Temperature Device Serial #: <u>41502185</u> Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	X			
4 Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7 Are Encore containers present?		X		(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	X			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?			X	Sample ID's affected: <u>No date and times on samples</u>
11 Number of containers received match number indicated on COC?			X	Sample ID's affected: <u>* See attached</u>
12 Are sample containers identifiable as GEL provided?		X		
13 COC form is properly signed in relinquished/received sections?	X			
14 Carrier and tracking number.	X			Circle Applicable: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other <u>8758 6234 0517</u>

Comments (Use Continuation Form if needed):



SAMPLE RECEIPT & REVIEW FORM CONTINUATION FORM

Client: TIDI

Date Received: 1/11/12

Page 2 of 2

Received Samples: SU54 5-3 B10, SU54 5-3 B12, SU54 5-3 B17, SU54 5-3 B31, SU54 5-2 B16, SU54 B2 B-9, and SU-2-7-2 B8 that were not on chain.

Samples SU54-5-2-B6 and SU54-5-2-B21 appeared on chain twice, but only received one container for each.

Received sample SU54-5-2-B27 that was not on COC

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

GEL Work Order:	293779	Work Order Due Date:	01-FEB-12	Collector:	C
SDG:	293779	Package Due Date:	29-JAN-12	Prelogin #:	20120186950
Project Manager:	Edith Kent	EDD Due Date:		Project ID:	1291340
Project Name:	TIDIWRH	Fax Due Date:	25-JAN-12	SDG Status:	Closed
	Walter Reed Hospital			Logged By:	EOS1
Purchase Order:	N300-300				
Package Level:	LEVEL5				
EDD Name:		Days to Process:	21		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		293779001	SU54-5-1-B9		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293779002	SU54-5-1-B10		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293779003	SU54-5-1-B8		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293779004	SU54-5-1-B12		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293779005	SU54-5-2-B6		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293779006	SU54-5-2-B4		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293779007	SU54-5-2-B15		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293779008	SU54-5-2-B13		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293779009	SU54-5-2-B5		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293779010	SU54-5-2-B12		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293779011	SU54-5-2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293779012	SU54-5-2-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293779013	SU54-5-2-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293779014	SU54-5-2-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		293779015	SU54-5-3-B11		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293779016	SU54-5-3-B27		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293779017	SU54-5-3-B25		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293779018	SU54-5-3-B14		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293779019	SU54-5-3-B15		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293779020	SU54-5-3-B19		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	Path 1
		14 day TAT		
293779001	SU54-5-1-B9		Z	
293779002	SU54-5-1-B10		N	
293779003	SU54-5-1-B8		N	
293779004	SU54-5-1-B12		N	
293779005	SU54-5-2-B6		N	
293779006	SU54-5-2-B4		N	
293779007	SU54-5-2-B15		N	
293779008	SU54-5-2-B13		N	
293779009	SU54-5-2-B5		N	
293779010	SU54-5-2-B12		N	
293779011	SU54-5-2		N	
293779012	SU54-5-2-B3		N	
293779013	SU54-5-2-B1		N	
293779014	SU54-5-2-B2		N	
293779015	SU54-5-3-B11		N	
293779016	SU54-5-3-B27		N	
293779017	SU54-5-3-B25		N	
293779018	SU54-5-3-B14		N	

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	14 day TAT	Path 1
293779019	SU54-5-3-B15			Z	
293779020	SU54-5-3-B19			Z	

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293779 Client SDG: 293779

GEL ID: Client Sample ID:	293779001 SU54-5-1-B9	293779002 SU54-5-1-B10	293779003 SU54-5-1-B8	293779004 SU54-5-1-B12	293779005 SU54-5-2-B6	293779006 SU54-5-2-B4	293779007 SU54-5-2-B15	293779008 SU54-5-2-B13
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293779 Client SDG: 293779

GEL ID: Client Sample ID:	293779009 SU54-5-2-B5	293779010 SU54-5-2-B12	293779011 SU54-5-2	293779012 SU54-5-2-B3	293779013 SU54-5-2-B1	293779014 SU54-5-2-B2	293779015 SU54-5-3-B11	293779016 SU54-5-3-B27
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293779 Client SDG: 293779

GEL ID: Client Sample ID:	293779017 SU54-5-3-B25	293779018 SU54-5-3-B14	293779019 SU54-5-3-B15	293779020 SU54-5-3-B19
Cooler Seal Undisturbed	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y
Temperature (C)	18	18	18	18

Work Order: 293779

Report Date: 19 JAN 2012

Product: LSC_GABF
LSCC, Gross A/B, filter

Workdef ID: 1291480

In Product Group? No

Group Name: N/A

Group Reference: N/A

Method: EPA 900.0/SW846 9310/SM 7110B Modified

Path: Standard

Samples: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020

Product Reference: 14 day TAT

Parmname Check: All parmnames scheduled properly

Moisture Correction: "As Received"

Status: NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
12587-46-1	ALPHA	3.6	pCi/Filter	REG	Y	Y	Yes
12587-47-2	BETA	9	pCi/Filter	REG	Y	Y	

Login Requirements:

Requirement	Include?	Comments
Calculate collection date using the midpoint between Monitoring Start Date and Monitoring End Date?	N	
Has the chain of custody number been recorded?	N	
Is the SDG number different from the work order number?	N	
Is there a fax date?	Y	fax date is either 7 or 14 days
Is there a purchase order number?	Y	N300-300

Peer Review by:_____

Work Order (SDG#), PO# Checked?_____

C of C signed in receiver location? _____

GEL Chain of Custody and Analytical Request

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

GEL Work Order Number: 293779

Page: 41 of 59
Project #: GELP 11-0988
COC Number (1):
PO Number:

Client Name: Tidewater		Phone #: 410-997-4458		Sample Analysis Requested (5) (Fill in the number of containers for each test)															
Project/Site Name: WRMC		Fax #: 410-997-8713																	
Address:																			
Collected by: Angel Reyes		Send Results To: [REDACTED]																	
Sample ID		*Date Collected (mm-dd-yy)		*Time Collected (Military) (hhmm)		QC Code (a)		Field Filtered (b)		Sample Matrix (d)		Should this sample be considered:		Total number of containers		Preservative Type (6)		Comments	
* For composites - indicate start and stop date/time												Radioactive		TSCA Regulated				Note: extra sample is required for sample specific QC	
SU54-5-1-B9		12/30/11		1600		N				P		1		1					
SU54-5-1-B10										P		1		1					
SU54-5-1-B8										P		1		1					
SU54-5-1-B12										P		1		1					
SU54-5-2-B6										P		1		1					
SU54-5-2-B4										P		1		1					
SU54-5-2-B15										P		1		1					
SU54-5-2-B13										P		1		1					
SU54-5-2-B5										P		1		1					
SU54-5-2-B12										P		1		1					

PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.

TAT Requested: Normal: <input checked="" type="checkbox"/> Rush: <input type="checkbox"/> Specify: (Subject to Surcharge)		Fax Results: Yes / No		Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4	
Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards					
Sample Collection Time Zone Eastern Pacific Other					
Sample Shipping and Delivery Details					
Chain of Custody Signatures			GEL PM:		
Relinquished By (Signed)		Date		Time	
1 Angel Reyes 1-9-12		1 David Lodie 11/12/0935		Date Shipped:	
2		2		Method of Shipment:	
3		3		Airbill #:	
3		3		Airbill #:	
For Lab Receiving Use Only					
Custody Seal Intact?					
YES NO					
Cooler Temp: C					

1.) Chain of Custody Number = Client Determined
2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Feal, N=Nasal
5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

PINK = CLIENT

YELLOW = FILE

WHITE = LABORATORY

Page: <u>42</u> of <u>59</u>	GEL Chain of Custody and Analytical Request	GEL Laboratories, LLC 2040 Savage Road Charleston, SC 29407 Phone: (843) 556-8171 Fax: (843) 766-1178
Project #: _____		
GEL Quote #: <u>GELP11-0988</u>		
COC Number ⁽¹⁾ : _____		
PO Number: _____		
GEL Work Order Number: _____		

Project/Site Name: WRAMC Fax #: 410-997-8713

[illegible]

PERSONAL INFORMATION
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COPY OF THIS INFORMATION
WAS RETAINED BY THE NRC.

	12/30/11	1600	N	P	I	I
SU54-5-2				P	I	I
SU54-5-2-B3				P	I	I
SU54-5-2-B1				P	I	I
SU54-5-2-B2				P	I	I
SU54-5-3-B11				P	I	I
SU54-5-3-B27				P	I	I
SU54-5-3-B25				P	I	I
SU54-5-3-B14				P	I	I
SU54-5-3-B15				P	I	I
SU54-5-3-B19				P	I	I

PERSONAL INFORMATION
WAS REMOVED BY NRC. NO
COPY OF THIS INFORMATION
WAS RETAINED BY THE NRC.

TAT Requested: Normal: <input checked="" type="checkbox"/>	Rush: _____	Specify: _____	Fax Results: _____	Yes / No	Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4
Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards					
					Sample Collection Time Zone

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Chain of Custody Signatures				Sample Shipping and Delivery Details	
Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 <i>Angel H. [Signature]</i>	1-9-12		1 <i>David [Signature]</i>	1/11/12	0930
2			2		
3			3		

GEL PM:	
Method of Shipment:	Date Shipped:
Airbill #:	
Airbill #:	

For Lab Receiving Use Only	
Custody Seal Intact?	
YES NO	
Cooler Temp:	
<p>1.) Chain of Custody Number = Client Determined</p> <p>2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite</p> <p>3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.</p> <p>4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Nasal</p> <p>5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).</p> <p>6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank</p>	



SAMPLE RECEIPT & REVIEW FORM

Client: <u>TIDWRH</u>		SDG/AR/COC/Work Order: <u>293779</u>	
Received By: <u>DBL</u>		Date Received: <u>VIV/12</u>	
Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0 cpm</u>
Classified Radioactive II or III by RSO?		X	
COC/Samples marked containing PCBs?		X	
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		X	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		X		Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius <u>18°</u>
2a Daily check performed and passed on IR temperature gun?	X			Temperature Device Serial #: <u>41502182</u> Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	X			
4 Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7 Are Encore containers present?		X		(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	X			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?			X	Sample ID's affected: <u>No date and times on samples</u>
11 Number of containers received match number indicated on COC?			X	Sample ID's affected: <u>* See attached</u>
12 Are sample containers identifiable as GEL provided?			X	
13 COC form is properly signed in relinquished/received sections?	X			
14 Carrier and tracking number.	X			Circle Applicable: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other <u>8758 6234 0517</u>

Comments (Use Continuation Form if needed):



SAMPLE RECEIPT & REVIEW FORM CONTINUATION FORM

Client: TIDI

Date Received:

1/11/12

Page 2 of 2

Received Samples: SU54 5-3 B10, SU54 5-3 B12, SU54 5-3 B17, SU54 5-3 B31, SU54 5-2 B16, SU54 B2 B-9, and SU-2-7-2 B8 that were not on chain.

Samples SU54-5-2-B6 and SU54-5-2-B21 appeared on chain twice, but only received one container for each.

Received sample SU54-5-2-B27 that was not on COC

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

GEL Work Order:	293780	Work Order Due Date:	01-FEB-12	Collector:	C
SDG:	293780	Package Due Date:	29-JAN-12	Prelogin #:	20120186950
Project Manager:	Edith Kent	EDD Due Date:		Project ID:	1291340
Project Name:	TIDIWRH	Fax Due Date:	25-JAN-12	SDG Status:	Closed
	Walter Reed Hospital			Logged By:	EMK
Purchase Order:	N300-300				
Package Level:	LEVEL5				
EDD Name:		Days to Process:	21		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		293780001	SU54-5-3-B26		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293780002	SU54-5-3-B23		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293780003	SU54-5-3-B30		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293780004	SU54-5-3-B7		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293780005	SU54-5-3-B8		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293780006	SU54-5-3-B4		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293780007	SU54-5-3-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293780008	SU54-5-3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293780009	SU54-5-3-B5		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293780010	SU54-5-3-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293780011	SU54-5-3-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293780012	SU7-B-2-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293780013	SU1-1-R1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293780014	SU1-1-R9		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

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Prelogin Group QC Requirements			GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1			293780015	SU7-B-2-R4		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293780016	SU7-B-2-R12		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293780017	SU7-B-1-R6		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293780018	SU7-B-1-R9		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293780019	SU7-B-6-R3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293780020	SU7-B-6-R13		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
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N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	Path 1
		14 day TAT		
293780001	SU54-5-3-B26		Z	
293780002	SU54-5-3-B23		N	
293780003	SU54-5-3-B30		N	
293780004	SU54-5-3-B7		N	
293780005	SU54-5-3-B8		N	
293780006	SU54-5-3-B4		N	
293780007	SU54-5-3-B1		N	
293780008	SU54-5-3		N	
293780009	SU54-5-3-B5		N	
293780010	SU54-5-3-B2		N	
293780011	SU54-5-3-B3		N	
293780012	SU7-B-2-B1		N	
293780013	SU1-1-R1		N	
293780014	SU1-1-R9		N	
293780015	SU7-B-2-R4		N	
293780016	SU7-B-2-R12		N	
293780017	SU7-B-1-R6		N	
293780018	SU7-B-1-R9		N	

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	14 day TAT	Path 1
293780019	SU7-B-6-R3			Z	
293780020	SU7-B-6-R13			Z	

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293780 Client SDG: 293780

GEL ID: Client Sample ID:	293780001 SU54-5-3-B26	293780002 SU54-5-3-B23	293780003 SU54-5-3-B30	293780004 SU54-5-3-B7	293780005 SU54-5-3-B8	293780006 SU54-5-3-B4	293780007 SU54-5-3-B1	293780008 SU54-5-3
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293780 Client SDG: 293780

GEL ID: Client Sample ID:	293780009 SU54-5-3-B5	293780010 SU54-5-3-B2	293780011 SU54-5-3-B3	293780012 SU7-B-2-B1	293780013 SU1-1-R1	293780014 SU1-1-R9	293780015 SU7-B-2-R4	293780016 SU7-B-2-R12
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
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Work Order: 293780 Client SDG: 293780

GEL ID: Client Sample ID:	293780017 SU7-B-1-R6	293780018 SU7-B-1-R9	293780019 SU7-B-6-R3	293780020 SU7-B-6-R13
Cooler Seal Undisturbed	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y
Temperature (C)	18	18	18	18

Work Order: 293780

Report Date: 19 JAN 2012

Product: LSC_GABF
LSCC, Gross A/B, filter

Workdef ID: 1291480

In Product Group? No

Group Name: N/A

Group Reference: N/A

Method: EPA 900.0/SW846 9310/SM 7110B Modified

Path: Standard

Samples: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020

Product Reference: 14 day TAT

Parmname Check: All parmnames scheduled properly

Moisture Correction: "As Received"

Status: NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
12587-46-1	ALPHA	3.6	pCi/Filter	REG	Y	Y	Yes
12587-47-2	BETA	9	pCi/Filter	REG	Y	Y	

Login Requirements:

Requirement	Include?	Comments
Calculate collection date using the midpoint between Monitoring Start Date and Monitoring End Date?	N	
Has the chain of custody number been recorded?	N	
Is the SDG number different from the work order number?	N	
Is there a fax date?	Y	fax date is either 7 or 14 days
Is there a purchase order number?	Y	N300-300

Peer Review by: _____

Work Order (SDG#), PO# Checked? _____

C of C signed in receiver location? _____

GEL Chain of Custody and Analytical Request

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Page: 44 of 59
Project #: GELP11-0988
COC Number (1):
PO Number:

GEL Work Order Number:		Phone #: 410-997-4458		Sample Analysis Requested (5) (Fill in the number of containers for each test)															
Client Name: Tidewater		Fax #: 410-997-8713																	
Project/Site Name: WRAMS																			
Address:																			
Collected by: Angel Reyes		Send Results To: [REDACTED]																	
Sample ID		*Date Collected (mm-dd-yy)		*Time Collected (Military) (hhmm)		QC Code (2)		Field Filtered (3)		Sample Matrix (4)		Should this sample be considered:		Total number of containers		Preservative Type (6)		Comments	
* For composites - indicate start and stop date/time												Radiative		TSCA Regulated				Note: extra sample is required for sample specific QC	
SV54-5-3-B3		12/30/11		1600		N				P		1		1					
SV7-B2-B1										P		1		1					
SV1-1-R1										P		1		1					
SV1-1-R9										P		1		1					
SV7-B-2-R4										P		1		1					
SV7-B-2-R12										P		1		1					
SV7-B-1-R6										P		1		1					
SV7-B-1-R9										P		1		1					
SV7-B6-R3										P		1		1					
SV7-B-6-R13										P		1		1					
TAT Requested: Normal: <input checked="" type="checkbox"/> Rush: <input type="checkbox"/> Specify: (Subject to Surcharge)		Fax Results: Yes / No		Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4															
Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards																			
Chain of Custody Signatures		Sample Shipping and Delivery Details																	
Relinquished By (Signed) Date Time		Received by (signed) Date Time		GEL PM:															
1. Angel Reyes 1-9-12		1. David Bodie 1/12/09		Method of Shipment: Date Shipped:															
2.		2.		Airbill #:															
3.		3.		Airbill #:															
1.) Chain of Custody Number = Client Determined		For Lab Receiving Use Only																	
2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite		Custody Seal Intact?																	
3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.		YES NO																	
4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal		Cooler Temp:																	
5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).		C																	
6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank																			

PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.

PINK = CLIENT

YELLOW = FILE

WHITE = LABORATORY



SAMPLE RECEIPT & REVIEW FORM

Client: <u>TIDWRH</u>			SDG/AR/COC/Work Order: <u>293780</u>		
Received By: <u>DBL</u>			Date Received: <u>VIV/12</u>		
Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.		
COC/Samples marked as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0 cpm</u>		
Classified Radioactive II or III by RSO?		X			
COC/Samples marked containing PCBs?		X			
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:		
Samples identified as Foreign Soil?		X			

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		X		Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius <u>18°</u>
2a Daily check performed and passed on IR temperature gun?	X			Temperature Device Serial #: <u>41502182</u> Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	X			
4 Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7 Are Encore containers present?		X		(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	X			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?			X	Sample ID's affected: <u>No date and times on samples</u>
11 Number of containers received match number indicated on COC?			X	Sample ID's affected: <u>* See attached</u>
12 Are sample containers identifiable as GEL provided?			X	
13 COC form is properly signed in relinquished/received sections?	X			
14 Carrier and tracking number.	X			Circle Applicable: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other <u>8758 6234 0517</u>

Comments (Use Continuation Form if needed):



SAMPLE RECEIPT & REVIEW FORM CONTINUATION FORM

Client:

TIDI

Date Received:

1/11/12

Page 2 of 2

Received Samples: SU54 5-3 B10, SU54 5-3 B12, SU54 5-3 B17, SU54 5-3 B31, SU54 5-2 B16, SU54 B2 B-9, and SU-2-7-2 B8 that were not on chain.

Samples SU54-5-2-B6 and SU54-5-2-B21 appeared on chain twice, but only received one container for each.

Received sample SU54-5-2-B27 that was not on COC

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

GEL Work Order:	293781	Work Order Due Date:	01-FEB-12	Collector:	C
SDG:	293781	Package Due Date:	29-JAN-12	Prelogin #:	20120186950
Project Manager:	Edith Kent	EDD Due Date:		Project ID:	1291340
Project Name:	TIDIWRH	Fax Due Date:	25-JAN-12	SDG Status:	Closed
	Walter Reed Hospital			Logged By:	RXA2
Purchase Order:	N300-300				
Package Level:	LEVEL5				
EDD Name:		Days to Process:	21		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		293781001	SU2-1-1-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293781002	SU2-1-1-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293781003	SU2-1-1-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293781004	SU7-B-1-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293781005	SU7-B-1-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293781006	Vac-Bldg-54		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293781007	Vac-Bldg-2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293781008	Vac-Bldg-7		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293781009	RM 3046		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293781010	54-2093 Chase		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293781011	54-3046-Pipe		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293781012	54-2094-Pipe		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293781013	Bldg2-Roof1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293781014	Bldg2-Roof2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
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Prelogin Group QC Requirements			GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1			293781015	Bldg2-Roof3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293781016	Bldg2-Roof4		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293781017	SU2-6-1-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293781018	SU7-B-6-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293781019	SU7-B-6-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293781020	SU7-B-6-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
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N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	Path 1
		14 day TAT		
293781001	SU2-1-1-B1		N	
293781002	SU2-1-1-B2		N	
293781003	SU2-1-1-B3		N	
293781004	SU7-B-1-B1		N	
293781005	SU7-B-1-B2		N	
293781006	Vac-Bldg-54		N	
293781007	Vac-Bldg-2		N	
293781008	Vac-Bldg-7		N	
293781009	RM 3046		N	
293781010	54-2093 Chase		N	
293781011	54-3046-Pipe		N	
293781012	54-2094-Pipe		N	
293781013	Bldg2-Roof1		N	
293781014	Bldg2-Roof2		N	
293781015	Bldg2-Roof3		N	
293781016	Bldg2-Roof4		N	
293781017	SU2-6-1-B1		N	
293781018	SU7-B-6-B1		N	

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	14 day TAT	Path 1
293781019	SU7-B-6-B2			Z	
293781020	SU7-B-6-B3			Z	

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293781 Client SDG: 293781

GEL ID: Client Sample ID:	293781001 SU2-1-1-B1	293781002 SU2-1-1-B2	293781003 SU2-1-1-B3	293781004 SU7-B-1-B1	293781005 SU7-B-1-B2	293781006 Vac-Bldg-54	293781007 Vac-Bldg-2	293781008 Vac-Bldg-7
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293781 Client SDG: 293781

GEL ID: Client Sample ID:	293781009 RM 3046	293781010 54-2093 Chase	293781011 54-3046-Pipe	293781012 54-2094-Pipe	293781013 Bldg2-Roof1	293781014 Bldg2-Roof2	293781015 Bldg2-Roof3	293781016 Bldg2-Roof4
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293781 Client SDG: 293781

GEL ID: Client Sample ID:	293781017 SU2-6-1-B1	293781018 SU7-B-6-B1	293781019 SU7-B-6-B2	293781020 SU7-B-6-B3
Cooler Seal Undisturbed	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y
Temperature (C)	18	18	18	18

Work Order: 293781

Report Date: 19 JAN 2012

Product: LSC_GABF

Workdef ID: 1291480

In Product Group? No

Group Name: N/A

Group Reference: N/A

LSCC, Gross A/B, filter

Method: EPA 900.0/SW846 9310/SM 7110B Modified

Path: Standard

Samples: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020

Product Reference: 14 day TAT

Parmname Check: All parmnames scheduled properly

Moisture Correction: "As Received"

Status: NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
12587-46-1	ALPHA	3.6	pCi/Filter	REG	Y	Y	Yes
12587-47-2	BETA	9	pCi/Filter	REG	Y	Y	

Login Requirements:

Requirement	Include?	Comments
Calculate collection date using the midpoint between Monitoring Start Date and Monitoring End Date?	N	
Has the chain of custody number been recorded?	N	
Is the SDG number different from the work order number?	N	
Is there a fax date?	Y	fax date is either 7 or 14 days
Is there a purchase order number?	Y	N300-300

Peer Review by:_____

Work Order (SDG#), PO# Checked?_____

C of C signed in receiver location? _____

GEL Chain of Custody and Analytical Request

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Page: 45 of 59
Project #: GELP11-0988
COC Number (1):
PO Number:

GEL Work Order Number: 293781

Client Name: Tidewater		Phone #: 410-997-4458		Sample Analysis Requested (5) (Fill in the number of containers for each test)													
Project/Site Name: WRMC		Fax #: 410-997-8713															
Address:																	
Collected by: Angel Reyes	Send Results To:																
Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (a)	Field Filtered (b)	Sample Matrix (d)	Should this sample be considered:		Total number of containers		TSCA Regulated		Radiative		Comments			
* For composites - indicate start and stop date/time																	
SU2-1-1-B1	12/30/11	1608	N		P												
SU2-1-1-B2					P												
SU2-1-1-B3					P												
SU7-B-1-B1					P												
SU7-B-1-B2					P												
Vac-Bldg 54					P												
Vac-Bldg 2					P												
Vac-Bldg 7					P												
Rm 3046					P												
54-2093 Chase					P												
TAT Requested: Normal: <input checked="" type="checkbox"/> Rush: <input type="checkbox"/> Specify: (Subject to Surcharge)		Fax Results: Yes / No		Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4													
Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards														Sample Collection Time Zone Eastern Pacific Other			
Chain of Custody Signatures														Sample Shipping and Delivery Details			
Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time	GEL PM:											
1 Angel Reyes	1-9-12		1 David Jodie	1/12/12	0133	Method of Shipment:		Date Shipped:									
2			2			Airbill #:											
3			3			Airbill #:											
1.) Chain of Custody Number = Client Determined														For Lab Receiving Use Only			
2.) QC Codes: N = Normal Sample, TB = Trip Blank, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite														Custody Seal Intact?			
3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.														YES NO			
4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal														Cooler Temp:			
5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).														C			
6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank																	

WHITE = LABORATORY

YELLOW = FILE

PINK = CLIENT

Page: 46 of 59

Project #: GELP11-0988

COC Number (1):

PO Number:

GEL Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Laboratories, LLC

2040 Savage Road

Charleston, SC 29407

Phone: (843) 556-8171

Fax: (843) 766-1178

Client Name: Tidewater

Project/Site Name: WRMC

Address:

Phone #: 410-997-4458

Fax #: 410-997-8713

Collected by: Angel Reyes

Send Results To:

Sample ID

* For composites - indicate start and stop date/time

	*Date Collected (mm-dd-yy)	Collected (Military) (hhmm)	QC Code (a)	Field Filtered (b)	Sample Matrix (d)	Should this sample be considered:	Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test)	Comments
						Radioactive	TSCA Regulated	<-- Preservative Type (6)	
54-3046-Pipe	12/30/11	1600	N		P	1			
54-2094-Pipe					P	1			
Bldg 2-Roof 1					P	1			
Bldg 2-Roof 2					P	1			
Bldg 2-Roof 3					P	1			
Bldg 2-Roof 4					P	1			
SU2-6-1-B1					P	1			
SU7-B-6-B1					P	1			
SU7-B-6-B2					P	1			
SU7-B-6-B3					P	1			

PERSONAL INFORMATION
WAS REMOVED BY NRC. NO
COPY OF THIS INFORMATION
WAS RETAINED BY THE NRC.

TAT Requested: Normal: ☒ Rush: ☐ Specify: (Subject to Surcharge)

Fax Results: Yes / No

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Chain of Custody Signatures

Sample Shipping and Delivery Details

Relinquished By (Signed) Date Time

Received by (signed) Date Time

1 Angel Reyes 1-9-12

2 David Jodice 11/16/09

3

GEL PM:

Method of Shipment:

Date Shipped:

Airbill #:

Airbill #:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

For Lab Receiving Use Only

Custody Seal Intact?

YES NO

Cooler Temp:

C

WHITE = LABORATORY

YELLOW = FILE

PINK = CLIENT

SAMPLE RECEIPT & REVIEW FORM

Client: TID1WRH		SDG/AR/COC/Work Order: 293781	
Received By: DBL		Date Received: VIV12	
Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 cpm
Classified Radioactive II or III by RSO?		<input checked="" type="checkbox"/>	
COC/Samples marked containing PCBs?		<input checked="" type="checkbox"/>	
Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		<input checked="" type="checkbox"/>	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		<input checked="" type="checkbox"/>		Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius 18°
2a Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>			Temperature Device Serial #: 41502182 Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>			
4 Sample containers intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?		<input checked="" type="checkbox"/>		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?		<input checked="" type="checkbox"/>		Sample ID's and containers affected:
7 Are Encore containers present?		<input checked="" type="checkbox"/>		(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	<input checked="" type="checkbox"/>			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?			<input checked="" type="checkbox"/>	Sample ID's affected: No date and times on samples
11 Number of containers received match number indicated on COC?			<input checked="" type="checkbox"/>	Sample ID's affected: * See attached
12 Are sample containers identifiable as GEL provided?			<input checked="" type="checkbox"/>	
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>			
14 Carrier and tracking number.	<input checked="" type="checkbox"/>			Circle Applicable: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other 8758 6234 0517

Comments (Use Continuation Form if needed):



SAMPLE RECEIPT & REVIEW FORM CONTINUATION FORM

Client:

TIDI

Date Received:

1/11/12

Page 2 of 2

Received Samples: SU54 5-3 B10, SU54 5-3 B12, SU54 5-3 B17, SU54 5-3 B31, SU54 5-2 B16, SU54 B2 B-9, and SU-2-7-2 B8 that were not on chain.

Samples SU54-5-2-B6 and SU54-5-2-B21 appeared on chain twice, but only received one container for each.

Received sample SU54-5-2-B27 that was not on COC

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

GEL Work Order:	293783	Work Order Due Date:	01-FEB-12	Collector:	C
SDG:	293783	Package Due Date:	29-JAN-12	Prelogin #:	20120186950
Project Manager:	Edith Kent	EDD Due Date:		Project ID:	1291340
Project Name:	TIDIWRH	Fax Due Date:	25-JAN-12	SDG Status:	Closed
	Walter Reed Hospital			Logged By:	EOS1
Purchase Order:	N300-300				
Package Level:	LEVEL5				
EDD Name:		Days to Process:	21		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		293783001	Bunker1-R7		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293783002	Bunker1-R11		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293783003	Bunker2-R4		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293783004	Bunker2-R8		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293783005	SU41-1-R5		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293783006	SU41-1-R9		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293783007	SU41-2-R7		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293783008	SU41-2-R10		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293783009	SU41-3-R1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293783010	SU41-3-R12		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293783011	SU92-1-R5		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293783012	SU92-1-R12		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293783013	SU7-B-2-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293783014	SU7-B-2-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		293783015	SU7-B-3-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293783016	SU7-B-3-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293783017	SU7-B-3-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293783018	SU7-B-3-B4		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293783019	SU7-B-4-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293783020	SU7-B-4-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	Path 1
		14 day TAT		
293783001	Bunker1-R7		N	
293783002	Bunker1-R11		N	
293783003	Bunker2-R4		N	
293783004	Bunker2-R8		N	
293783005	SU41-1-R5		N	
293783006	SU41-1-R9		N	
293783007	SU41-2-R7		N	
293783008	SU41-2-R10		N	
293783009	SU41-3-R1		N	
293783010	SU41-3-R12		N	
293783011	SU92-1-R5		N	
293783012	SU92-1-R12		N	
293783013	SU7-B-2-B2		N	
293783014	SU7-B-2-B3		N	
293783015	SU7-B-3-B1		N	
293783016	SU7-B-3-B2		N	
293783017	SU7-B-3-B3		N	
293783018	SU7-B-3-B4		N	

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	14 day TAT	Path 1
293783019	SU7-B-4-B1			Z	
293783020	SU7-B-4-B2			Z	

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293783 Client SDG: 293783

GEL ID: Client Sample ID:	293783001 Bunker1-R7	293783002 Bunker1-R11	293783003 Bunker2-R4	293783004 Bunker2-R8	293783005 SU41-1-R5	293783006 SU41-1-R9	293783007 SU41-2-R7	293783008 SU41-2-R10
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293783 Client SDG: 293783

GEL ID: Client Sample ID:	293783009 SU41-3-R1	293783010 SU41-3-R12	293783011 SU92-1-R5	293783012 SU92-1-R12	293783013 SU7-B-2-B2	293783014 SU7-B-2-B3	293783015 SU7-B-3-B1	293783016 SU7-B-3-B2
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293783 Client SDG: 293783

GEL ID: Client Sample ID:	293783017 SU7-B-3-B3	293783018 SU7-B-3-B4	293783019 SU7-B-4-B1	293783020 SU7-B-4-B2
Cooler Seal Undisturbed	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y
Temperature (C)	18	18	18	18

Work Order: 293783

Report Date: 19 JAN 2012

Product: LSC_GABF
LSCC, Gross A/B, filter

Workdef ID: 1291480

In Product Group? No

Group Name: N/A

Group Reference: N/A

Method: EPA 900.0/SW846 9310/SM 7110B Modified

Path: Standard

Samples: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020

Product Reference: 14 day TAT

Parmname Check: All parmnames scheduled properly

Moisture Correction: "As Received"

Status: NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
12587-46-1	ALPHA	3.6	pCi/Filter	REG	Y	Y	Yes
12587-47-2	BETA	9	pCi/Filter	REG	Y	Y	

Login Requirements:

Requirement	Include?	Comments
Calculate collection date using the midpoint between Monitoring Start Date and Monitoring End Date?	N	
Has the chain of custody number been recorded?	N	
Is the SDG number different from the work order number?	N	
Is there a fax date?	Y	fax date is either 7 or 14 days
Is there a purchase order number?	Y	N300-300

Peer Review by:_____

Work Order (SDG#), PO# Checked?_____

C of C signed in receiver location? _____

Page: 47 of 59

Project #: GELP11-0988

GEL Quote #: GELP11-0988

COC Number (1):

PO Number:

GEL Chain of Custody and Analytical Request

GEL Work Order Number: 293783

GEL Laboratories, LLC

2040 Savage Road

Charleston, SC 29407

Phone: (843) 556-8171

Fax: (843) 766-1178

Client Name: Tidewater

Project/Site Name: WRBMC

Address:

Phone #: 410-997-4458

Fax #: 410-997-8713

Sample Analysis Requested (6) (Fill in the number of containers for each test)		Should this sample be considered:		Total number of containers		Comments	
Sample ID		Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (a)	Field Filtered (b)	Sample Matrix (c)	Preservative Type (6)
Bunker 1-R7		12/30/11	1600	W		P	
Bunker 1-R11						P	
Bunker 2-R4						P	
Bunker 2-R8						P	
SV54 MSV41-1-R5						P	
SV41-1-R9						P	
SV41-2-R7						P	
SV41-2-R10						P	
SV41-3-R1						P	
SV41-3-R12						P	

PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.

TAT Requested: Normal: ☒ Rush: ☐ Specify: ☐ Fax Results: Yes ☐ No ☐

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Chain of Custody Signatures			Sample Shipping and Delivery Details		
Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Angel Reyes	1-9-12		1. Daniel Lopez	1/11/12	08:30
2.			2.		
3.			3.		

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: C

Page: 48 of 59

Project #: GEL-0988

COC Number (1):

PO Number:

GEL Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Laboratories, LLC

2040 Savage Road

Charleston, SC 29407

Phone: (843) 556-8171

Fax: (843) 766-1178

Client Name: Tidewater

Project/Site Name: WRAMC

Address:

Phone #: 410-997-4458

Fax #: 410-997-8713

Collected by: Angel Reyes	Send Results To: [REDACTED]	Sample Analysis Requested (5) (Fill in the number of containers for each test)									
Sample ID	* For composites - indicate start and stop date/time	Date Collected (mm-dd-yy)	Time Collected (Military) (hhmm)	QC Code (a)	Field Filtered (b)	Sample Matrix (c)	Should this sample be considered:	Total number of containers	<- Preservative Type (6)		
							Radioactive		Comments		
							TSCA Regulated		Note: extra sample is required for sample specific QC		
SU92-1-R5		12/30/11	1600	N		P	1				
SU92-1-R12						P	1				
SU7-B-2-B2						P	1				
SU7-B-2-B3						P	1				
SU7-B-3-B1						P	1				
SU7-B-3-B2						P	1				
SU7-B-3-B3						P	1				
SU7-B-3-B4						P	1				
SU7-B-4-B1						P	1				
SU7-B-4-B2						P	1				

TAT Requested: Normal: ☒ Rush: ☐ Specify: (Subject to Surcharge)

Fax Results: Yes / No

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Chain of Custody Signatures				Sample Shipping and Delivery Details			
Relinquished By (Signed)	Date	Received by (signed)	Date	GEL PM:	Sample Collection Time Zone		
1 Angel Reyes 1-9-12		1 David Jodie VIVERO			Eastern Pacific Other		
2		2			Date Shipped:		
3		3			Airbill #:		
					Airbill #:		

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

For Lab Receiving Use Only

Custody Seal Intact?

YES NO

Cooler Temp:

C

PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.



SAMPLE RECEIPT & REVIEW FORM

Client: <u>TID1WRH</u>		SDG/AR/COC/Work Order: <u>293783</u>	
Received By: <u>DBL</u>		Date Received: <u>V11/12</u>	
Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0 cpm</u>
Classified Radioactive II or III by RSO?		X	
COC/Samples marked containing PCBs?		X	
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		X	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		X		Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius <u>18°</u>
2a Daily check performed and passed on IR temperature gun?	X			Temperature Device Serial #: <u>41502182</u> Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	X			
4 Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7 Are Encore containers present?		X		(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	X			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?			X	Sample ID's affected: <u>No date and times on samples</u>
11 Number of containers received match number indicated on COC?			X	Sample ID's affected: <u>* See attached</u>
12 Are sample containers identifiable as GEL provided?			X	
13 COC form is properly signed in relinquished/received sections?	X			
14 Carrier and tracking number.	X			Circle Applicable: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other <u>8758 6234 0517</u>

Comments (Use Continuation Form if needed):



SAMPLE RECEIPT & REVIEW FORM CONTINUATION FORM

Client: TIDI

Date Received: 1/11/12

Page 2 of 2

Received Samples: SU54 5-3 B10, SU54 5-3 B12, SU54 5-3 B17, SU54 5-3 B31, SU54 5-2 B16, SU54 B2 B-9, and SU-2-7-2 B8 that were not on chain.

Samples SU54-5-2-B6 and SU54-5-2-B21 appeared on chain twice, but only received one container for each.

Received sample SU54-5-2-B27 that was not on COC

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

GEL Work Order:	293785	Work Order Due Date:	01-FEB-12	Collector:	C
SDG:	293785	Package Due Date:	29-JAN-12	Prelogin #:	20120186950
Project Manager:	Edith Kent	EDD Due Date:		Project ID:	1291340
Project Name:	TIDIWRH	Fax Due Date:	25-JAN-12	SDG Status:	Closed
	Walter Reed Hospital			Logged By:	RXA2
Purchase Order:	N300-300				
Package Level:	LEVEL5				
EDD Name:		Days to Process:	21		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		293785001	SU7-B-4-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293785002	SU7-2-3-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293785003	SU7-2-3-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293785004	SU7-2-3-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293785005	SU7-2-4-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293785006	SU7-2-4-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293785007	SU7-2-4-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293785008	SU7-2-2-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293785009	SU7-2-2-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293785010	SU7-2-2-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293785011	SU7-B-5-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293785012	SU7-B-5-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293785013	SU7-B-5-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293785014	SU7-B-5-B4		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Prelogin Group QC Requirements			GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1			293785015	SU7-1-1-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293785016	SU7-1-1-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293785017	SU7-1-1-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293785018	SU7-2-1-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293785019	SU7-2-1-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293785020	SU38-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	Path 1
		14 day TAT		
293785001	SU7-B-4-B3		N	
293785002	SU7-2-3-B1		N	
293785003	SU7-2-3-B2		N	
293785004	SU7-2-3-B3		N	
293785005	SU7-2-4-B1		N	
293785006	SU7-2-4-B2		N	
293785007	SU7-2-4-B3		N	
293785008	SU7-2-2-B1		N	
293785009	SU7-2-2-B2		N	
293785010	SU7-2-2-B3		N	
293785011	SU7-B-5-B1		N	
293785012	SU7-B-5-B2		N	
293785013	SU7-B-5-B3		N	
293785014	SU7-B-5-B4		N	
293785015	SU7-1-1-B1		N	
293785016	SU7-1-1-B2		N	
293785017	SU7-1-1-B3		N	
293785018	SU7-2-1-B1		N	

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	14 day TAT	Path 1
293785019	SU7-2-1-B2			Z	
293785020	SU38-B1			Z	

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293785 Client SDG: 293785

GEL ID: Client Sample ID:	293785001 SU7-B-4-B3	293785002 SU7-2-3-B1	293785003 SU7-2-3-B2	293785004 SU7-2-3-B3	293785005 SU7-2-4-B1	293785006 SU7-2-4-B2	293785007 SU7-2-4-B3	293785008 SU7-2-2-B1
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293785 Client SDG: 293785

GEL ID: Client Sample ID:	293785009 SU7-2-2-B2	293785010 SU7-2-2-B3	293785011 SU7-B-5-B1	293785012 SU7-B-5-B2	293785013 SU7-B-5-B3	293785014 SU7-B-5-B4	293785015 SU7-1-1-B1	293785016 SU7-1-1-B2
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293785 Client SDG: 293785

GEL ID: Client Sample ID:	293785017 SU7-1-1-B3	293785018 SU7-2-1-B1	293785019 SU7-2-1-B2	293785020 SU38-B1
Cooler Seal Undisturbed	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y
Temperature (C)	18	18	18	18

Work Order: 293785

Report Date: 19 JAN 2012

Product: LSC_GABF

Workdef ID: 1291480

In Product Group? No

Group Name: N/A

Group Reference: N/A

LSCC, Gross A/B, filter

Method: EPA 900.0/SW846 9310/SM 7110B Modified

Path: Standard

Samples: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020

Product Reference: 14 day TAT

Parmname Check: All parmnames scheduled properly

Moisture Correction: "As Received"

Status: NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
12587-46-1	ALPHA	3.6	pCi/Filter	REG	Y	Y	Yes
12587-47-2	BETA	9	pCi/Filter	REG	Y	Y	

Login Requirements:

Requirement	Include?	Comments
Calculate collection date using the midpoint between Monitoring Start Date and Monitoring End Date?	N	
Has the chain of custody number been recorded?	N	
Is the SDG number different from the work order number?	N	
Is there a fax date?	Y	fax date is either 7 or 14 days
Is there a purchase order number?	Y	N300-300

Peer Review by:_____

Work Order (SDG#), PO# Checked?_____

C of C signed in receiver location? _____

GEL Chain of Custody and Analytical Request

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Page: 49 of 59
Project #: GELP11-0988
GEL Quote #: GELP11-0988
COC Number ⁽¹⁾:
PO Number:

GEL Work Order Number: 293785

Client Name: <u>Tidewater</u>		Phone #: <u>410-997-4458</u>		Sample Analysis Requested ⁽⁵⁾ (Fill in the number of containers for each test)													
Project/Site Name: <u>WRAMC</u>		Fax #: <u>410-997-8713</u>															
Address:																	
Collected by: <u>Angel Reyes</u>		Send Results To: <u>[REDACTED]</u>															
Sample ID		*Date Collected (mm-dd-yy)		*Time Collected (Military) (hhmm)		QC Code ⁽²⁾		Field Filtered ⁽³⁾		Sample Matrix ⁽⁴⁾		Should this sample be considered:		Total number of containers		Comments	
												Radioactive		TSCA Regulated		Note: extra sample is required for sample specific QC	
<u>SU7-B-4-B3</u>		<u>12/30/11</u>		<u>1600</u>		<u>N</u>				<u>P</u>		<u>1</u>		<u>1</u>		<u>Cross Alpha Beta</u>	
<u>SU7-2-3-B1</u>										<u>P</u>		<u>1</u>		<u>1</u>			
<u>SU7-2-3-B2</u>										<u>P</u>		<u>1</u>		<u>1</u>			
<u>SU7-2-3-B3</u>										<u>P</u>		<u>1</u>		<u>1</u>			
<u>SU7-2-4-B1</u>										<u>P</u>		<u>1</u>		<u>1</u>			
<u>SU7-2-4-B2</u>										<u>P</u>		<u>1</u>		<u>1</u>			
<u>SU7-2-4-B3</u>										<u>P</u>		<u>1</u>		<u>1</u>			
<u>SU7-2-2-B1</u>										<u>P</u>		<u>1</u>		<u>1</u>			
<u>SU7-2-2-B2</u>										<u>P</u>		<u>1</u>		<u>1</u>			
<u>SU7-2-2-B3</u>										<u>P</u>		<u>1</u>		<u>1</u>			
TAT Requested: Normal: <input checked="" type="checkbox"/> Rush: <input type="checkbox"/> Specify: <input type="checkbox"/>		(Subject to Surcharge)		Fax Results: <input type="checkbox"/> Yes <input type="checkbox"/> No		Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4											
Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards																	
Chain of Custody Signatures														Sample Shipping and Delivery Details			
Relinquished By (Signed)		Date		Received by (signed)		Date		Time		GEL PM:		Sample Collection Time Zone		Eastern		Pacific	
<u>Angel Reyes</u>		<u>1-9-12</u>		<u>David Leticia</u>		<u>1-9-12</u>		<u>12:33</u>		<u>Method of Shipment:</u>		Date Shipped:		Central		Other	
1				2						Airbill #:							
2				3						Airbill #:							
1.) Chain of Custody Number = Client Determined																	
2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite																	
3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.																	
4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Faecal, N=Nasal																	
5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).																	
6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank																	
For Lab Receiving Use Only																	
Custody Seal Intact?																	
YES NO																	
Cooler Temp: C																	

PINK = CLIENT

YELLOW = FILE

WHITE = LABORATORY



SAMPLE RECEIPT & REVIEW FORM

Client: <u>TID1WRH</u>			SDG/AR/COC/Work Order: <u>293785</u>		
Received By: <u>DBL</u>			Date Received: <u>1/11/12</u>		
Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.		
COC/Samples marked as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0 cpm</u>		
Classified Radioactive II or III by RSO?		X			
COC/Samples marked containing PCBs?		X			
Shipped as a DOT Hazardous?		X	Hazard Class Shipped:		UN#:
Samples identified as Foreign Soil?		X			

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		X		Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius <u>18°</u>
2a Daily check performed and passed on IR temperature gun?	X			Temperature Device Serial #: <u>41502182</u> Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	X			
4 Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7 Are Encore containers present?		X		(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	X			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?			X	Sample ID's affected: <u>No date and times on samples</u>
11 Number of containers received match number indicated on COC?			X	Sample ID's affected: <u>* See attached</u>
12 Are sample containers identifiable as GEL provided?		X		
13 COC form is properly signed in relinquished/received sections?	X			
14 Carrier and tracking number.	X			Circle Applicable: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other <u>8758 6234 0517</u>

Comments (Use Continuation Form if needed):



SAMPLE RECEIPT & REVIEW FORM CONTINUATION FORM

Client: TIDI

Date Received: 1/11/12

Page 2 of 2

Received Samples: SU54 5-3 B10, SU54 5-3 B12, SU54 5-3 B17, SU54 5-3 B31, SU54 5-2 B16, SU54 B2 B-9, and SU-2-7-2 B8 that were not on chain.

Samples SU54-5-2-B6 and SU54-5-2-B21 appeared on chain twice, but only received one container for each.

Received sample SU54-5-2-B27 that was not on COC

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

GEL Work Order:	293787	Work Order Due Date:	01-FEB-12	Collector:	C
SDG:	293787	Package Due Date:	29-JAN-12	Prelogin #:	20120186950
Project Manager:	Edith Kent	EDD Due Date:		Project ID:	1291340
Project Name:	TIDIWRH	Fax Due Date:	25-JAN-12	SDG Status:	Closed
	Walter Reed Hospital			Logged By:	EMK
Purchase Order:	N300-300				
Package Level:	LEVEL5				
EDD Name:		Days to Process:	21		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		293787001	SU38-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293787002	SU38-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293787003	SU1-B-1-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293787004	SU1-B-1-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293787005	SU1-B-1-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293787006	SU92-G-1-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293787007	SU92-G-1-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293787008	SU92-G-1-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293787009	SU92-G-3-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293787010	SU91-1-1-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293787011	SU92-G-2-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293787012	SU92-G-2-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293787013	SU92-G-2-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293787014	SU91-G-1-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
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Prelogin Group QC Requirements			GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1			293787015	SU91-G-1-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293787016	SU91-G-1-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293787017	SU91-1-2-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293787018	SU41-1-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293787019	SU41-1-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293787020	SU41-1-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	Path 1
		14 day TAT		
293787001	SU38-B2		N	
293787002	SU38-B3		N	
293787003	SU1-B-1-B1		N	
293787004	SU1-B-1-B2		N	
293787005	SU1-B-1-B3		N	
293787006	SU92-G-1-B1		N	
293787007	SU92-G-1-B2		N	
293787008	SU92-G-1-B3		N	
293787009	SU92-G-3-B1		N	
293787010	SU91-1-1-B1		N	
293787011	SU92-G-2-B1		N	
293787012	SU92-G-2-B2		N	
293787013	SU92-G-2-B3		N	
293787014	SU91-G-1-B1		N	
293787015	SU91-G-1-B2		N	
293787016	SU91-G-1-B3		N	
293787017	SU91-1-2-B1		N	
293787018	SU41-1-B1		N	

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	14 day TAT	Path 1
293787019	SU41-1-B2			Z	
293787020	SU41-1-B3			Z	

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Work Order: 293787 Client SDG: 293787

GEL ID: Client Sample ID:	293787001 SU38-B2	293787002 SU38-B3	293787003 SU1-B-1-B1	293787004 SU1-B-1-B2	293787005 SU1-B-1-B3	293787006 SU92-G-1-B1	293787007 SU92-G-1-B2	293787008 SU92-G-1-B3
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

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Work Order: 293787 Client SDG: 293787

GEL ID: Client Sample ID:	293787009 SU92-G-3-B1	293787010 SU91-1-1-B1	293787011 SU92-G-2-B1	293787012 SU92-G-2-B2	293787013 SU92-G-2-B3	293787014 SU91-G-1-B1	293787015 SU91-G-1-B2	293787016 SU91-G-1-B3
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

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Work Order: 293787 Client SDG: 293787

GEL ID: Client Sample ID:	293787017 SU91-1-2-B1	293787018 SU41-1-B1	293787019 SU41-1-B2	293787020 SU41-1-B3
Cooler Seal Undisturbed	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y
Temperature (C)	18	18	18	18

Work Order: 293787

Report Date: 19 JAN 2012

Product: LSC_GABF
LSCC, Gross A/B, filter

Workdef ID: 1291480

In Product Group? No

Group Name: N/A

Group Reference: N/A

Method: EPA 900.0/SW846 9310/SM 7110B Modified

Path: Standard

Samples: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020

Product Reference: 14 day TAT

Parmname Check: All parmnames scheduled properly

Moisture Correction: "As Received"

Status: NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
12587-46-1	ALPHA	3.6	pCi/Filter	REG	Y	Y	Yes
12587-47-2	BETA	9	pCi/Filter	REG	Y	Y	

Login Requirements:

Requirement	Include?	Comments
Calculate collection date using the midpoint between Monitoring Start Date and Monitoring End Date?	N	
Has the chain of custody number been recorded?	N	
Is the SDG number different from the work order number?	N	
Is there a fax date?	Y	fax date is either 7 or 14 days
Is there a purchase order number?	Y	N300-300

Peer Review by: _____

Work Order (SDG#), PO# Checked? _____

C of C signed in receiver location? _____

GEL Chain of Custody and Analytical Request		GEL Laboratories, LLC 2040 Savage Road Charleston, SC 29407 Phone: (843) 556-8171 Fax: (843) 766-1178	
Page: <u>51</u> of <u>59</u> Project #: <u>GELP11-0988</u> GEL Quote #: <u>293787</u> COC Number (1): _____ PO Number: _____		GEL Work Order Number: <u>293787</u> Client Name: <u>Tidewater</u> Project/Site Name: <u>WRMC</u> Address: _____ Phone #: <u>410-997-4458</u> Fax #: <u>410-997-8713</u>	
Sample ID *For composites - indicate start and stop date/time		Sample Analysis Requested (5) (Fill in the number of containers for each test)	
Collected by: <u>Angel Reyes</u>	Send Results To: <u>[REDACTED]</u>	Total number of containers: _____	
Should this sample be considered:		Comments Note: extra sample is required for sample specific QC	
*Date Collected (mm-dd-yy)		Radioactive	
*Time Collected (Military) (hhmm)		TSCA Regulated	
*Field Filtered (a)		Sample	
*QC Code (a)		Field Filtered (b) Matrix (a)	
*Date Collected (mm-dd-yy)		*Time Collected (Military) (hhmm)	
*Field Filtered (a)		Sample	
*QC Code (a)		Field Filtered (b) Matrix (a)	
*Date Collected (mm-dd-yy)		*Time Collected (Military) (hhmm)	
*Field Filtered (a)		Sample	
*QC Code (a)		Field Filtered (b) Matrix (a)	
*Date Collected (mm-dd-yy)		*Time Collected (Military) (hhmm)	
*Field Filtered (a)		Sample	
*QC Code (a)		Field Filtered (b) Matrix (a)	
*Date Collected (mm-dd-yy)		*Time Collected (Military) (hhmm)	
*Field Filtered (a)		Sample	
*QC Code (a)		Field Filtered (b) Matrix (a)	
*Date Collected (mm-dd-yy)		*Time Collected (Military) (hhmm)	
*Field Filtered (a)		Sample	
*QC Code (a)		Field Filtered (b) Matrix (a)	
*Date Collected (mm-dd-yy)		*Time Collected (Military) (hhmm)	
*Field Filtered (a)		Sample	
*QC Code (a)		Field Filtered (b) Matrix (a)	
*Date Collected (mm-dd-yy)		*Time Collected (Military) (hhmm)	
*Field Filtered (a)		Sample	
*QC Code (a)		Field Filtered (b) Matrix (a)	
*Date Collected (mm-dd-yy)		*Time Collected (Military) (hhmm)	
*Field Filtered (a)		Sample	
*QC Code (a)		Field Filtered (b) Matrix (a)	
*Date Collected (mm-dd-yy)		*Time Collected (Military) (hhmm)	
*Field Filtered (a)		Sample	
*QC Code (a)		Field Filtered (b) Matrix (a)	
*Date Collected (mm-dd-yy)		*Time Collected (Military) (hhmm)	
*Field Filtered (a)		Sample	
*QC Code (a)		Field Filtered (b) Matrix (a)	
*Date Collected (mm-dd-yy)		*Time Collected (Military) (hhmm)	
*Field Filtered (a)		Sample	
*QC Code (a)		Field Filtered (b) Matrix (a)	
*Date Collected (mm-dd-yy)		*Time Collected (Military) (hhmm)	
*Field Filtered (a)		Sample	
*QC Code (a)		Field Filtered (b) Matrix (a)	
*Date Collected (mm-dd-yy)		*Time Collected (Military) (hhmm)	
*Field Filtered (a)		Sample	
*QC Code (a)		Field Filtered (b) Matrix (a)	
*Date Collected (mm-dd-yy)		*Time Collected (Military) (hhmm)	
*Field Filtered (a)		Sample	
*QC Code (a)		Field Filtered (b) Matrix (a)	
*Date Collected (mm-dd-yy)		*Time Collected (Military) (hhmm)	
*Field Filtered (a)		Sample	
*QC Code (a)		Field Filtered (b) Matrix (a)	
*Date Collected (mm-dd-yy)		*Time Collected (Military) (hhmm)	
*Field Filtered (a)		Sample	
*QC Code (a)		Field Filtered (b) Matrix (a)	
*Date Collected (mm-dd-yy)		*Time Collected (Military) (hhmm)	
*Field Filtered (a)		Sample	
*QC Code (a)		Field Filtered (b) Matrix (a)	
*Date Collected (mm-dd-yy)		*Time Collected (Military) (hhmm)	
*Field Filtered (a)		Sample	
*QC Code (a)		Field Filtered (b) Matrix (a)	
*Date Collected (mm-dd-yy)		*Time Collected (Military) (hhmm)	
*Field Filtered (a)		Sample	
*QC Code (a)		Field Filtered (b) Matrix (a)	
*Date Collected (mm-dd-yy)		*Time Collected (Military) (hhmm)	
*Field Filtered (a)		Sample	
*QC Code (a)		Field Filtered (b) Matrix (a)	
*Date Collected (mm-dd-yy)		*Time Collected (Military) (hhmm)	
*Field Filtered (a)		Sample	
*QC Code (a)		Field Filtered (b) Matrix (a)	
*Date Collected (mm-dd-yy)		*Time Collected (Military) (hhmm)	
*Field Filtered (a)		Sample	
*QC Code (a)		Field Filtered (b) Matrix (a)	
*Date Collected (mm-dd-yy)		*Time Collected (Military) (hhmm)	
*Field Filtered (a)		Sample	
*QC Code (a)		Field Filtered (b) Matrix (a)	
*Date Collected (mm-dd-yy) </			

GEL Chain of Custody and Analytical Request

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Page: 52 of 59
Project #: GELP11-0988
GEL Quote #: GELP11-0988
COC Number ⁽¹⁾:
PO Number:

GEL Work Order Number:

Client Name: <u>Tidewater</u>		Phone #: <u>410-997-4458</u>		Sample Analysis Requested ⁽⁵⁾ (Fill in the number of containers for each test)															
Project/Site Name: <u>WRMC</u>		Fax #: <u>410-997-8713</u>																	
Address:																			
Collected by: <u>Angel Reyes</u>		Send Results To:																	
Sample ID		*Date Collected (mm-dd-yy)		*Time Collected (Military) (hhmm)		QC Code (a)		Field Filtered (b)		Sample Matrix (a)		Should this sample be considered:		Total number of containers		Preservative Type (6)		Comments	
												Radioactive		TSCA Regulated				Note: extra sample is required for sample specific QC	
<u>SV92-G-2-B1</u>		<u>12/30/11</u>		<u>1600</u>		<u>N</u>				<u>P</u>		<u>1</u>		<u>1</u>					
<u>SV92-G-2-B2</u>										<u>P</u>		<u>1</u>		<u>1</u>					
<u>SV92-G-2-B3</u>										<u>P</u>		<u>1</u>		<u>1</u>					
<u>SV91-G-1-B1</u>										<u>P</u>		<u>1</u>		<u>1</u>					
<u>SV91-G-1-B2</u>										<u>P</u>		<u>1</u>		<u>1</u>					
<u>SV91-G-1-B3</u>										<u>P</u>		<u>1</u>		<u>1</u>					
<u>SV91-1-2-B1</u>										<u>P</u>		<u>1</u>		<u>1</u>					
<u>SV41-1-B1</u>										<u>P</u>		<u>1</u>		<u>1</u>					
<u>SV41-1-B2</u>										<u>P</u>		<u>1</u>		<u>1</u>					
<u>SV41-1-B3</u>										<u>P</u>		<u>1</u>		<u>1</u>					
TAT Requested: Normal: <input checked="" type="checkbox"/> Rush: <input type="checkbox"/> Specify: _____		(Subject to Surcharge)		Fax Results: _____		Yes / No		Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4											
Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards																			
Chain of Custody Signatures		Sample Shipping and Delivery Details																	
Relinquished By (Signed) _____ Date _____		Received by (signed) _____ Date _____		Time _____		GEL PM: _____		Sample Collection Time Zone Eastern Pacific Other _____											
1 <u>Angel Reyes</u> <u>1-9-12</u>		1 <u>Darin Leslie</u> <u>11/12/12</u>				Method of Shipment: _____		Date Shipped: _____											
2 _____		2 _____				Airbill #: _____													
3 _____		3 _____				Airbill #: _____													
1.) Chain of Custody Number = Client Determined																			
2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite																			
3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.																			
4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal																			
5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).																			
6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank																			
For Lab Receiving Use Only																			
Custody Seal Intact?		YES NO																	
Cooler Temp:		C																	

PINK = CLIENT

YELLOW = FILE

WHITE = LABORATORY



SAMPLE RECEIPT & REVIEW FORM

Client: <u>TID1WRH</u>		SDG/AR/COC/Work Order: <u>293787</u>	
Received By: <u>DBL</u>		Date Received: <u>VIV12</u>	
Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0 cpm</u>
Classified Radioactive II or III by RSO?		X	
COC/Samples marked containing PCBs?		X	
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		X	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		X		Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius <u>18°</u>
2a Daily check performed and passed on IR temperature gun?	X			Temperature Device Serial #: <u>41502182</u> Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	X			
4 Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7 Are Encore containers present?		X		(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	X			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?			X	Sample ID's affected: <u>No date and times on samples</u>
11 Number of containers received match number indicated on COC?			X	Sample ID's affected: <u>* See attached</u>
12 Are sample containers identifiable as GEL provided?			X	
13 COC form is properly signed in relinquished/received sections?	X			
14 Carrier and tracking number.	X			Circle Applicable: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other <u>8758 6234 0517</u>

Comments (Use Continuation Form if needed):



SAMPLE RECEIPT & REVIEW FORM CONTINUATION FORM

Client:

TIDI

Date Received:

1/11/12

Page 2 of 2

Received Samples: SU54 5-3 B10, SU54 5-3 B12, SU54 5-3 B17, SU54 5-3 B31, SU54 5-2 B16, SU54 B2 B-9, and SU-2-7-2 B8 that were not on chain.

Samples SU54-5-2-B6 and SU54-5-2-B21 appeared on chain twice, but only received one container for each.

Received sample SU54-5-2-B27 that was not on COC

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GEL Work Order:	293790	Work Order Due Date:	01-FEB-12	Collector:	C
SDG:	293790	Package Due Date:	29-JAN-12	Prelogin #:	20120186950
Project Manager:	Edith Kent	EDD Due Date:		Project ID:	1291340
Project Name:	TIDIWRH	Fax Due Date:	25-JAN-12	SDG Status:	Closed
	Walter Reed Hospital			Logged By:	RXA2
Purchase Order:	N300-300				
Package Level:	LEVEL5				
EDD Name:		Days to Process:	21		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		293790001	SU2-7-2-B14		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293790002	SU2-7-2-B15		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293790003	SU2-7-2-B16		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293790004	SU2-7-2-B17		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293790005	SU2-7-2-B19		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293790006	SU2-7-1-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293790007	SU2-7-1-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293790008	SU2-7-1-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293790009	SU2-7-1-B4		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293790010	SU2-7-1-B5		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293790011	SU2-7-1-B6		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293790012	SU2-7-1-B7		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293790013	SU2-7-1-B8		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293790014	SU2-7-1-B9		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

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Prelogin Group QC Requirements			GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1			293790015	SU2-7-1-B10		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293790016	SU2-7-1-S6		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293790017	SU2-7-1-S18		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293790018	SU2-7-2-R4		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293790019	SU2-7-2-R12		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293790020	SU2-7-3-R1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

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N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	Path 1
		14 day TAT		
293790001	SU2-7-2-B14		Z	
293790002	SU2-7-2-B15		N	
293790003	SU2-7-2-B16		N	
293790004	SU2-7-2-B17		N	
293790005	SU2-7-2-B19		N	
293790006	SU2-7-1-B1		N	
293790007	SU2-7-1-B2		N	
293790008	SU2-7-1-B3		N	
293790009	SU2-7-1-B4		N	
293790010	SU2-7-1-B5		N	
293790011	SU2-7-1-B6		N	
293790012	SU2-7-1-B7		N	
293790013	SU2-7-1-B8		N	
293790014	SU2-7-1-B9		N	
293790015	SU2-7-1-B10		N	
293790016	SU2-7-1-S6		N	
293790017	SU2-7-1-S18		N	
293790018	SU2-7-2-R4		N	

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	14 day TAT	Path 1
293790019	SU2-7-2-R12			Z	
293790020	SU2-7-3-R1			Z	

GEL Laboratories LLC - Login Review Report - Auxiliary Data

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Work Order: 293790 Client SDG: 293790

GEL ID: Client Sample ID:	293790001 SU2-7-2-B14	293790002 SU2-7-2-B15	293790003 SU2-7-2-B16	293790004 SU2-7-2-B17	293790005 SU2-7-2-B19	293790006 SU2-7-1-B1	293790007 SU2-7-1-B2	293790008 SU2-7-1-B3
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

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Work Order: 293790 Client SDG: 293790

GEL ID: Client Sample ID:	293790009 SU2-7-1-B4	293790010 SU2-7-1-B5	293790011 SU2-7-1-B6	293790012 SU2-7-1-B7	293790013 SU2-7-1-B8	293790014 SU2-7-1-B9	293790015 SU2-7-1-B10	293790016 SU2-7-1-S6
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
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Work Order: 293790 Client SDG: 293790

GEL ID: Client Sample ID:	293790017 SU2-7-1-S18	293790018 SU2-7-2-R4	293790019 SU2-7-2-R12	293790020 SU2-7-3-R1
Cooler Seal Undisturbed	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y
Temperature (C)	18	18	18	18

Work Order: 293790

Report Date: 19 JAN 2012

Product: LSC_GABF

Workdef ID: 1291480

In Product Group? No

Group Name: N/A

Group Reference: N/A

LSCC, Gross A/B, filter

Method: EPA 900.0/SW846 9310/SM 7110B Modified

Path: Standard

Samples: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020

Product Reference: 14 day TAT

Parmname Check: All parmnames scheduled properly

Moisture Correction: "As Received"

Status: NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
12587-46-1	ALPHA	3.6	pCi/Filter	REG	Y	Y	Yes
12587-47-2	BETA	9	pCi/Filter	REG	Y	Y	

Login Requirements:

Requirement	Include?	Comments
Calculate collection date using the midpoint between Monitoring Start Date and Monitoring End Date?	N	
Has the chain of custody number been recorded?	N	
Is the SDG number different from the work order number?	N	
Is there a fax date?	Y	fax date is either 7 or 14 days
Is there a purchase order number?	Y	N300-300

Peer Review by:_____

Work Order (SDG#), PO# Checked?_____

C of C signed in receiver location? _____

GEL Work Order Number: 293790

Project/Site Name: WR Amc
Fax #: 410-997-8713

Address:

Collected by: Angel Reyes Send Results To: _____

Sample ID	*Date Collected	Collected	QC Code	Field	Sample
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* For composites - indicate start and stop date/time

	F	V	C	V	N	P
SUB-7-C-6115					12/30/11	✓
H/B-E-L-6115					12/30/11	✓

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OF
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2007-7-2-B15

512-7-2-B12

911-7-7-217

IN
VE
HIS
NE

2019-7-1-01

[illegible][illegible]

1:0-1 L 600

[illegible]

TAT Requested:	Normal:	<input checked="" type="checkbox"/>	Rush:	Specify:	(Subject to Surcharge)	Fax Results:	Yes /
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Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Chain of Custody Signatures

Reinquired by (signed)	Date	Time
		

1/10/2018	1-9-12	1/10/2018
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2	2
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3	1.1 Chain of Custody Number = Client Determined
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2.) QC Codes: **N** = Normal Sample, **1B** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate

4.) Matrix Codes; DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane

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Project #: GELR11-0988

GEL Quote #: GELR11-0988

COC Number (1):

PO Number:

GEL Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Laboratories, LLC

2040 Savage Road

Charleston, SC 29407

Phone: (843) 556-8171

Fax: (843) 766-1178

Client Name: Tidewater

Project/Site Name: WRAMC

Address:

Phone #: 410-997-4458

Fax #: 410-997-8713

Collected by: Angel Reyes

Send Results To:

Sample ID

* For composites - indicate start and stop date/time

Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (a)	Field Filtered (b)	Sample Matrix (d)	Should this sample be considered:	Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test)	Preservative Type (6)	Comments
					Radioactive	TSCA Regulated			
12/30/11	1600	N		P	1		1		
SV2-7-1-B6				P	1		1		
SV2-7-1-B7				P	1		1		
SV2-7-1-B8				P	1		1		
SV2-7-1-B9				P	1		1		
SV2-7-1-B10				P	1		1		
SV2-7-1-S6				P	1		1		
SV2-7-1-S18				P	1		1		
SV2-7-2-R4				P	1		1		
SV2-7-2-R12				P	1		1		
SV2-7-3-R1				P	1		1		

TAT Requested: Normal: ☒ Rush: ☐ Specify: ☐ (Subject to Surcharge)

Fax Results: Yes / No

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Chain of Custody Signatures			Sample Shipping and Delivery Details		
Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. <i>Angel Reyes</i>	1-9-12		1. <i>David Leal</i>	1/11/12	0530
2.			2.		
3.			3.		

GEL PM:

Method of Shipment:

Date Shipped:

Airbill #:

Airbill #:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Urine, U=Urine, F=Filter, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

For Lab Receiving Use Only

Custody Seal Intact?

YES NO

Cooler Temp:

C

PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.



SAMPLE RECEIPT & REVIEW FORM

Client: <u>TID1WRH</u>		SDG/AR/COC/Work Order: <u>293790</u>	
Received By: <u>DBL</u>		Date Received: <u>VIV12</u>	
Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0 cpm</u>
Classified Radioactive II or III by RSO?		X	
COC/Samples marked containing PCBs?		X	
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		X	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		X		Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius <u>18°</u>
2a Daily check performed and passed on IR temperature gun?	X			Temperature Device Serial #: <u>41502182</u> Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	X			
4 Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7 Are Encore containers present?		X		(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	X			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?			X	Sample ID's affected: <u>No date and times on samples</u>
11 Number of containers received match number indicated on COC?			X	Sample ID's affected: <u>* See attached</u>
12 Are sample containers identifiable as GEL provided?			X	
13 COC form is properly signed in relinquished/received sections?	X			
14 Carrier and tracking number.	X			Circle Applicable: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other <u>8758 6234 0517</u>

Comments (Use Continuation Form if needed):



SAMPLE RECEIPT & REVIEW FORM CONTINUATION FORM

Client: TIDI

Date Received:

1/11/12

Page 2 of 2

Received Samples: SU54 5-3 B10, SU54 5-3 B12, SU54 5-3 B17, SU54 5-3 B31, SU54 5-2 B16, SU54 B2 B-9, and SU-2-7-2 B8 that were not on chain.

Samples SU54-5-2-B6 and SU54-5-2-B21 appeared on chain twice, but only received one container for each.

Received sample SU54-5-2-B27 that was not on COC

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
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GEL Work Order:	293791	Work Order Due Date:	01-FEB-12	Collector:	C
SDG:	293791	Package Due Date:	29-JAN-12	Prelogin #:	20120186950
Project Manager:	Edith Kent	EDD Due Date:		Project ID:	1291340
Project Name:	TIDIWRH	Fax Due Date:	25-JAN-12	SDG Status:	Closed
	Walter Reed Hospital			Logged By:	EOS1
Purchase Order:	N300-300				
Package Level:	LEVEL5				
EDD Name:		Days to Process:	21		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		293791001	SU41-3-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293791002	SU41-3-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293791003	SU2-7-4-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293791004	SU2-7-4-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293791005	SU2-7-4-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293791006	SU2-7-4-B4		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293791007	SU2-7-3-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293791008	SU2-7-2-B1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293791009	SU2-7-2-B2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293791010	SU2-7-2-B3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293791011	SU2-7-2-B4		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293791012	SU2-7-2-B5		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293791013	SU2-7-2-B6		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293791014	SU2-7-2-B7		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

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Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		293791015	SU2-7-2-B8		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293791016	SU2-7-2-B9		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293791017	SU2-7-2-B10		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293791018	SU2-7-2-B11		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293791019	SU2-7-2-B12		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293791020	SU2-7-2-B13		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

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N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	Path 1
		14 day TAT		
293791001	SU41-3-B1		N	
293791002	SU41-3-B2		N	
293791003	SU2-7-4-B1		N	
293791004	SU2-7-4-B2		N	
293791005	SU2-7-4-B3		N	
293791006	SU2-7-4-B4		N	
293791007	SU2-7-3-B1		N	
293791008	SU2-7-2-B1		N	
293791009	SU2-7-2-B2		N	
293791010	SU2-7-2-B3		N	
293791011	SU2-7-2-B4		N	
293791012	SU2-7-2-B5		N	
293791013	SU2-7-2-B6		N	
293791014	SU2-7-2-B7		N	
293791015	SU2-7-2-B8		N	
293791016	SU2-7-2-B9		N	
293791017	SU2-7-2-B10		N	
293791018	SU2-7-2-B11		N	

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	14 day TAT	Path 1
293791019	SU2-7-2-B12			Z	
293791020	SU2-7-2-B13			Z	

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
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Work Order: 293791 Client SDG: 293791

GEL ID: Client Sample ID:	293791001 SU41-3-B1	293791002 SU41-3-B2	293791003 SU2-7-4-B1	293791004 SU2-7-4-B2	293791005 SU2-7-4-B3	293791006 SU2-7-4-B4	293791007 SU2-7-3-B1	293791008 SU2-7-2-B1
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293791 Client SDG: 293791

GEL ID: Client Sample ID:	293791009 SU2-7-2-B2	293791010 SU2-7-2-B3	293791011 SU2-7-2-B4	293791012 SU2-7-2-B5	293791013 SU2-7-2-B6	293791014 SU2-7-2-B7	293791015 SU2-7-2-B8	293791016 SU2-7-2-B9
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293791 Client SDG: 293791

GEL ID: Client Sample ID:	293791017 SU2-7-2-B10	293791018 SU2-7-2-B11	293791019 SU2-7-2-B12	293791020 SU2-7-2-B13
Cooler Seal Undisturbed	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y
Temperature (C)	18	18	18	18

Work Order: 293791

Report Date: 19 JAN 2012

Product: LSC_GABF
LSCC, Gross A/B, filter

Workdef ID: 1291480

In Product Group? No

Group Name: N/A

Group Reference: N/A

Method: EPA 900.0/SW846 9310/SM 7110B Modified

Path: Standard

Samples: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020

Product Reference: 14 day TAT

Parmname Check: All parmnames scheduled properly

Moisture Correction: "As Received"

Status: NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
12587-46-1	ALPHA	3.6	pCi/Filter	REG	Y	Y	Yes
12587-47-2	BETA	9	pCi/Filter	REG	Y	Y	

Login Requirements:

Requirement	Include?	Comments
Calculate collection date using the midpoint between Monitoring Start Date and Monitoring End Date?	N	
Has the chain of custody number been recorded?	N	
Is the SDG number different from the work order number?	N	
Is there a fax date?	Y	fax date is either 7 or 14 days
Is there a purchase order number?	Y	N300-300

Peer Review by:_____

Work Order (SDG#), PO# Checked?_____

C of C signed in receiver location? _____

Page: 53 of 59

Project #: GELP11-0988

GEL Quote #: GELP11-0988

COC Number (1):

PO Number:

GEL Chain of Custody and Analytical Request

GEL Work Order Number: 293791

GEL Laboratories, LLC

2040 Savage Road

Charleston, SC 29407

Phone: (843) 556-8171

Fax: (843) 766-1178

Client Name: Tidewater

Phone #: 40-997-4458

Project/Site Name: WR DMC

Fax #: 410-997-8713

Address:

Collected by: <u>Angel Reyes</u>	Send Results To: <div></div>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.

TAT Requested: Normal: ☒ Rush: ☐ Specify: (Subject to Surcharge)

Fax Results: Yes / No

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Chain of Custody Signatures				Sample Shipping and Delivery Details			
Relinquished By (Signed)	Date	Received by (signed)	Date	GEL PM:	Sample Collection Time Zone	Sample Collection Time	Date Shipped:
1 Angel Reyes	1-9-12	1 [Signature]	1/12/2012		Eastern		
2		2		Airbill #:	Central		
3		3		Airbill #:	Mountain		

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Feecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: C

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

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Project #: GELP11-0988

GEL Quote #: GELP11-0988

COC Number (1):

PO Number:

GEL Chain of Custody and Analytical Request

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

GEL Work Order Number:

Client Name: Tidewater

Project/Site Name: WRAMC

Address:

Phone #: 410-997-4458

Fax #: 410-997-8713

Collected by: <u>Angel Reyes</u>	Send Results To: <div></div>	Sample ID				Date Collected (mm-dd-yy)	Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	TSCA Regulated		Total number of c	Gross Alpha Beta					Comments Note: extra sample is required for sample specific QC
		Radiactive																	
<u>SU2-7-2-B4</u>	<div>PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.</div>		<u>12/30/11</u>	<u>1600</u>	<u>N</u>		<u>P</u>	<u>1</u>	<u>1</u>				<u>1</u>						
<u>SU2-7-2-B5</u>							<u>P</u>	<u>1</u>	<u>1</u>				<u>1</u>						
<u>SU2-7-2-B6</u>							<u>P</u>	<u>1</u>	<u>1</u>				<u>1</u>						
<u>SU2-7-2-B7</u>							<u>P</u>	<u>1</u>	<u>1</u>				<u>1</u>						
<u>SU2-7-2-B8</u>							<u>P</u>	<u>1</u>	<u>1</u>				<u>1</u>						
<u>SU2-7-2-B9</u>							<u>P</u>	<u>1</u>	<u>1</u>				<u>1</u>						
<u>SU2-7-2-B10</u>							<u>P</u>	<u>1</u>	<u>1</u>				<u>1</u>						
<u>SU2-7-2-B11</u>							<u>P</u>	<u>1</u>	<u>1</u>				<u>1</u>						
<u>SU2-7-2-B12</u>							<u>P</u>	<u>1</u>	<u>1</u>				<u>1</u>						
<u>SU2-7-2-B13</u>							<u>P</u>	<u>1</u>	<u>1</u>				<u>1</u>						

PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.

TAT Requested: Normal: ☒ Rush: ☐ Specify: ☐ Fax Results: Yes ☐ No ☐

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Chain of Custody Signatures				Sample Shipping and Delivery Details			
Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time	GEL PM:	
1. Angel Reyes	1-9-12		1. David Lopez	1/12/2012			
2.			2.				
3.			3.				

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

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5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: C



SAMPLE RECEIPT & REVIEW FORM

Client: <u>TIDWRH</u>		SDG/AR/COC/Work Order: <u>293791</u>	
Received By: <u>DBL</u>		Date Received: <u>1/11/12</u>	
Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0 cpm</u>
Classified Radioactive II or III by RSO?		X	
COC/Samples marked containing PCBs?		X	
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		X	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		X		Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius <u>18°</u>
2a Daily check performed and passed on IR temperature gun?	X			Temperature Device Serial #: <u>41502182</u> Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	X			
4 Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7 Are Encore containers present?		X		(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	X			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?			X	Sample ID's affected: <u>No date and times on samples</u>
11 Number of containers received match number indicated on COC?			X	Sample ID's affected: <u>* See attached</u>
12 Are sample containers identifiable as GEL provided?			X	
13 COC form is properly signed in relinquished/received sections?	X			
14 Carrier and tracking number.	X			Circle Applicable: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other <u>8758 6234 0517</u>

Comments (Use Continuation Form if needed):



SAMPLE RECEIPT & REVIEW FORM CONTINUATION FORM

Client:

TIDI

Date Received:

1/11/12

Page 2 of 2

Received Samples: SU54 5-3 B10, SU54 5-3 B12, SU54 5-3 B17, SU54 5-3 B31, SU54 5-2 B16, SU54 B2 B-9, and SU-2-7-2 B8 that were not on chain.

Samples SU54-5-2-B6 and SU54-5-2-B21 appeared on chain twice, but only received one container for each.

Received sample SU54-5-2-B27 that was not on COC

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
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GEL Work Order:	293794	Work Order Due Date:	01-FEB-12	Collector:	C
SDG:	293794	Package Due Date:	29-JAN-12	Prelogin #:	20120186950
Project Manager:	Edith Kent	EDD Due Date:		Project ID:	1291340
Project Name:	TIDIWRH	Fax Due Date:	25-JAN-12	SDG Status:	Closed
	Walter Reed Hospital			Logged By:	EOS1
Purchase Order:	N300-300				
Package Level:	LEVEL5				
EDD Name:		Days to Process:	21		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		293794001	SU2-7-3-R6		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293794002	SU2-7-4-S1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293794003	SU2-7-4-S10		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293794004	SU2-7-4-S14		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293794005	SU2-7-4-S19		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293794006	SU2-7-5-S5		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293794007	SU2-7-5-S9		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293794008	SU2-6-1-R6		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293794009	SU2-6-1-R13		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293794010	SU2-5-1-R4		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293794011	SU2-5-1-R14		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293794012	SU2-4-2-R1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293794013	SU2-4-2-R7		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293794014	SU2-4-1-R10		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

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Prelogin Group QC Requirements			GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1			293794015	SU2-4-1-R13		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293794016	SU2-2-1-R3		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293794017	SU2-2-1-R5		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293794018	SU2-2-2-R6		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293794019	SU2-2-2-R12		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1			293794020	SU2-1-1-R1		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

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N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	Path 1
		14 day TAT		
293794001	SU2-7-3-R6		N	
293794002	SU2-7-4-S1		N	
293794003	SU2-7-4-S10		N	
293794004	SU2-7-4-S14		N	
293794005	SU2-7-4-S19		N	
293794006	SU2-7-5-S5		N	
293794007	SU2-7-5-S9		N	
293794008	SU2-6-1-R6		N	
293794009	SU2-6-1-R13		N	
293794010	SU2-5-1-R4		N	
293794011	SU2-5-1-R14		N	
293794012	SU2-4-2-R1		N	
293794013	SU2-4-2-R7		N	
293794014	SU2-4-1-R10		N	
293794015	SU2-4-1-R13		N	
293794016	SU2-2-1-R3		N	
293794017	SU2-2-1-R5		N	
293794018	SU2-2-2-R6		N	

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	14 day TAT	Path 1
293794019	SU2-2-2-R12			Z	
293794020	SU2-1-1-R1			Z	

GEL Laboratories LLC - Login Review Report - Auxiliary Data

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Work Order: 293794 Client SDG: 293794

GEL ID: Client Sample ID:	293794001 SU2-7-3-R6	293794002 SU2-7-4-S1	293794003 SU2-7-4-S10	293794004 SU2-7-4-S14	293794005 SU2-7-4-S19	293794006 SU2-7-5-S5	293794007 SU2-7-5-S9	293794008 SU2-6-1-R6
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293794 Client SDG: 293794

GEL ID: Client Sample ID:	293794009 SU2-6-1-R13	293794010 SU2-5-1-R4	293794011 SU2-5-1-R14	293794012 SU2-4-2-R1	293794013 SU2-4-2-R7	293794014 SU2-4-1-R10	293794015 SU2-4-1-R13	293794016 SU2-2-1-R3
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

GEL Laboratories LLC - Login Review Report - Auxiliary Data

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Work Order: 293794 Client SDG: 293794

GEL ID: Client Sample ID:	293794017 SU2-2-1-R5	293794018 SU2-2-2-R6	293794019 SU2-2-2-R12	293794020 SU2-1-1-R1
Cooler Seal Undisturbed	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y
Temperature (C)	18	18	18	18

Work Order: 293794

Report Date: 20 JAN 2012

Product: LSC_GABF

Workdef ID: 1291480

In Product Group? No

Group Name: N/A

Group Reference: N/A

LSCC, Gross A/B, filter

Method: EPA 900.0/SW846 9310/SM 7110B Modified

Path: Standard

Samples: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020

Product Reference: 14 day TAT

Parmname Check: All parmnames scheduled properly

Moisture Correction: "As Received"

Status: NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
12587-46-1	ALPHA	3.6	pCi/Filter	REG	Y	Y	Yes
12587-47-2	BETA	9	pCi/Filter	REG	Y	Y	

Login Requirements:

Requirement	Include?	Comments
Calculate collection date using the midpoint between Monitoring Start Date and Monitoring End Date?	N	
Has the chain of custody number been recorded?	N	
Is the SDG number different from the work order number?	N	
Is there a fax date?	Y	fax date is either 7 or 14 days
Is there a purchase order number?	Y	N300-300

Peer Review by:_____

Work Order (SDG#), PO# Checked?_____

C of C signed in receiver location? _____

Page: 57 of 59

Project #: GELP11-0988

GEL Quote #: GELP11-0988

COC Number (1):

PO Number:

GEL Chain of Custody and Analytical Request

GEL Work Order Number: 293794

GEL Laboratories, LLC

2040 Savage Road

Charleston, SC 29407

Phone: (843) 556-8171

Fax: (843) 766-1178

Client Name: Tidewater

Project/Site Name: WR Amc

Address:

Phone #: 410-997-4458

Fax #: 410-997-8713

Collected by: Angel Reyes

Send Results To: [REDACTED]

Sample ID

* For composites - indicate start and stop date/time

*Date Collected (mm-dd-yy)

Time Collected (Military) (hhmm)

QC Code (4)

Field Filtered (4)

Sample Matrix (4)

PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.

SV2-7-3-R6

SV2-7-4-S1

SV2-7-4-S10

SV2-7-4-S14

SV2-7-4-S19

SV2-7-5-S5

SV2-7-5-S9

SV2-6-1-R6

SV2-6-1-R13

SV2-5-1-R4

12/30/11

N

P

P

P

P

P

P

P

P

P

P

1

1

1

1

1

1

1

1

1

1

Should this sample be considered:

TSCA Regulated

Radioactive

Total number of containers

Cross Spike

Sample Analysis Requested (5) (Fill in the number of containers for each test)

<-- Preservative Type (6)

Comments

Note: extra sample is required for sample specific QC

TAT Requested: Normal: ☒ Rush: ☐ Specify: (Subject to Surcharge)

Fax Results: Yes / No

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone
Eastern Pacific Other
Central Mountain

Chain of Custody Signatures

Chain of Custody Number = Client Determined

Relinquished By (Signed) Date Time Received by (signed) Date Time

1 Angel Reyes 1-9-12

2 [Signature] 1/11/12 053

3

GEL PM:

Method of Shipment:

Date Shipped:

Airbill #:

Airbill #:

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: C

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

WHITE = LABORATORY

YELLOW = FILE

PINK = CLIENT



SAMPLE RECEIPT & REVIEW FORM

Client: <u>TIDWRH</u>		SDG/AR/COC/Work Order: <u>293794</u>	
Received By: <u>DBL</u>		Date Received: <u>VIV12</u>	
Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0 cpm</u>
Classified Radioactive II or III by RSO?		X	
COC/Samples marked containing PCBs?		X	
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		X	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		X		Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius <u>18°</u>
2a Daily check performed and passed on IR temperature gun?	X			Temperature Device Serial #: <u>4150218</u> Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	X			
4 Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7 Are Encore containers present?		X		(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	X			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?			X	Sample ID's affected: <u>No date and times on samples</u>
11 Number of containers received match number indicated on COC?			X	Sample ID's affected: <u>* See attached</u>
12 Are sample containers identifiable as GEL provided?			X	
13 COC form is properly signed in relinquished/received sections?	X			
14 Carrier and tracking number.	X			Circle Applicable: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other <u>8758 6234 0517</u>

Comments (Use Continuation Form if needed):



SAMPLE RECEIPT & REVIEW FORM CONTINUATION FORM

Client:

TIDI

Date Received:

1/11/12

Page 2 of 2

Received Samples: SU54 5-3 B10, SU54 5-3 B12, SU54 5-3 B17, SU54 5-3 B31, SU54 5-2 B16, SU54 B2 B-9, and SU-2-7-2 B8 that were not on chain.

Samples SU54-5-2-B6 and SU54-5-2-B21 appeared on chain twice, but only received one container for each.

Received sample SU54-5-2-B27 that was not on COC

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
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GEL Work Order:	293797	Work Order Due Date:	01-FEB-12	Collector:	C
SDG:	293797	Package Due Date:	29-JAN-12	Prelogin #:	20120186965
Project Manager:	Edith Kent	EDD Due Date:		Project ID:	1291340
Project Name:	TIDIWRH	Fax Due Date:	25-JAN-12	SDG Status:	Closed
	Walter Reed Hospital			Logged By:	EMK
Purchase Order:	N300-300				
Package Level:	LEVEL5				
EDD Name:		Days to Process:	21		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		293797001	SU2-1-1-R11		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293797002	SU2-1-3-R15		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293797003	SU2-1-3-R20		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293797004	SU2-1-2-R2		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293797005	SU2-1-2-R4		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293797006	SU2-2-3-R8		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		293797007	SU2-2-3-R9		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	Path 1
		14 day TAT		
293797001	SU2-1-1-R11		Z	
293797002	SU2-1-3-R15		N	
293797003	SU2-1-3-R20		N	
293797004	SU2-1-2-R2		N	
293797005	SU2-1-2-R4		N	
293797006	SU2-2-3-R8		N	
293797007	SU2-2-3-R9		N	

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

Work Order: 293797 Client SDG: 293797

GEL ID: Client Sample ID:	293797001 SU2-1-1-R11	293797002 SU2-1-3-R15	293797003 SU2-1-3-R20	293797004 SU2-1-2-R2	293797005 SU2-1-2-R4	293797006 SU2-2-3-R8	293797007 SU2-2-3-R9
Cooler Seal Undisturbed	Y	Y	Y	Y	Y	Y	Y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18

Work Order: 293797

Report Date: 19 JAN 2012

Product: LSC_GABF
LSCC, Gross A/B, filter

Workdef ID: 1291480

In Product Group? No

Group Name: N/A

Group Reference: N/A

Method: EPA 900.0/SW846 9310/SM 7110B Modified

Path: Standard

Samples: 001, 002, 003, 004, 005, 006, 007

Product Reference: 14 day TAT

Parmname Check: All parmnames scheduled properly

Moisture Correction: "As Received"

Status: NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
12587-46-1	ALPHA	3.6	pCi/Filter	REG	Y	Y	Yes
12587-47-2	BETA	9	pCi/Filter	REG	Y	Y	

Login Requirements:

Requirement	Include?	Comments
Calculate collection date using the midpoint between Monitoring Start Date and Monitoring End Date?	N	
Has the chain of custody number been recorded?	N	
Is the SDG number different from the work order number?	N	
Is there a fax date?	Y	fax date is either 7 or 14 days
Is there a purchase order number?	Y	N300-300

Peer Review by: _____

Work Order (SDG#), PO# Checked? _____

C of C signed in receiver location? _____

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Page: 59 of 59
 Project #: _____
 GFL Quote #: GELP11-0988
 COC Number ⁽¹⁾: _____
 PO Number: _____

GEL Work Order Number:

Phone #: 410-997-4458

Fax #: 410-997-8713

Sample Analysis Requested⁽⁵⁾ (Fill in the number of containers for each test)

Phone #: 410-997-4458

Fax #: 410-997-8713

Angel Reyes

Send Results To

Sample ID

* For composites - indicate start and stop date/time

502-1-1-11

SV2-1-3-R15

502-1-3-R20

SV2-1-2-22

502-1-2-24

502-2-3-28

502-2-3-R9

PERSONAL INFORMATION
WAS REMOVED BY NRC. NO
COPY OF THIS INFORMATION
WAS RETAINED BY THE NRC.

TAT Requested: Normal: <input checked="" type="checkbox"/>	Rush: <input type="checkbox"/>
--	--------------------------------

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Shipping and Delivery Details

Relinquished By (Signed)	Date
--------------------------	------

Received by (signed)	Date	Time
----------------------	------	------

Time

GEL. PM:

Prop. / Keynote 1-9-12

16 vi Feb 11/12

Method of Shipment:

Date Shipped:

2

Airhill £.

Airhill £.

3

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, W=Water, SO=Soil, SD=Sediment, SS=Sludge, SL=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate. If no preservative is added == leave field blank

WHITE = LABORATORY

YELLOW = FILE

PINK = CLIENT

SAMPLE RECEIPT & REVIEW FORM

Client: <u>TIDWRH</u>		SDG/AR/COC/Work Order: <u>293797</u>	
Received By: <u>DBL</u>		Date Received: <u>V1/12</u>	
Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0 cpm</u>
Classified Radioactive II or III by RSO?		X	
COC/Samples marked containing PCBs?		X	
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: _____ UN#: _____
Samples identified as Foreign Soil?		X	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		X		Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius <u>18°</u>
2a Daily check performed and passed on IR temperature gun?	X			Temperature Device Serial #: <u>41502182</u> Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	X			
4 Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7 Are Encore containers present?		X		(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	X			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?			X	Sample ID's affected: <u>No date and times on samples</u>
11 Number of containers received match number indicated on COC?			X	Sample ID's affected: <u>* See attached</u>
12 Are sample containers identifiable as GEL provided? —			X	
13 COC form is properly signed in relinquished/received sections?	X			
14 Carrier and tracking number.	X			Circle Applicable: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other <u>8758 6234 0517</u>

Comments (Use Continuation Form if needed):



SAMPLE RECEIPT & REVIEW FORM CONTINUATION FORM

Client: TIDI

Date Received: 1/11/12

Page 2 of 2

Received Samples: SU54 5-3 B10, SU54 5-3 B12, SU54 5-3 B17, SU54 5-3 B31, SU54 5-2 B16, SU54 B2 B-9, and SU-2-7-2 B8 that were not on chain.

Samples SU54-5-2-B6 and SU54-5-2-B21 appeared on chain twice, but only received one container for each.

Received sample SU54-5-2-B27 that was not on COC

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
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GEL Work Order:	294527	Work Order Due Date:	10-FEB-12	Collector:	C
SDG:	294527	Package Due Date:	07-FEB-12	Prelogin #:	20120187368
Project Manager:	Edith Kent	EDD Due Date:		Project ID:	1291340
Project Name:	TIDIWRH	Fax Due Date:	03-FEB-12	SDG Status:	Closed
	Walter Reed Hospital			Logged By:	EMK
Purchase Order:	N300-300				
Package Level:	LEVEL5				
EDD Name:		Days to Process:	21		

Prelogin Group	QC Requirements	GEL Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	Contingents?	Fractional Fax?	PM Comments?
1		294527001	SU54-5-3-B10		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		294527002	SU54-5-3-B12		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		294527003	SU54-5-3-B17		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		294527004	SU54-5-3-B31		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		294527005	SU54-5-2-B16		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		294527006	SU54-B2-B9		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		294527007	SU-2-7-2-B8		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			
1		294527008	SU54-5-2-B27		30-DEC-11 16:00	11-JAN-12 09:35	SWIPE		1			

GEL Laboratories LLC - Login Review Report - Chain of Custody

2040 Savage Road ~ Charleston, SC 29407
(843) 556 - 8171 (Phone) ~ (843) 766 - 1178 (Fax) ~ www.gel.com

N=New, R=Review, P=Pending, PH=Pending Hold, H=Hold. Date is Fax Due Date, if applicable.

GEL Sample ID	Client Sample ID	LSCC, Gross A/B, filter	Radiochemistry	Path 1
				14 day TAT
294527001	SU54-5-3-B10		Z	
294527002	SU54-5-3-B12		N	
294527003	SU54-5-3-B17		N	
294527004	SU54-5-3-B31		N	
294527005	SU54-5-2-B16		N	
294527006	SU54-B2-B9		N	
294527007	SU-2-7-2-B8		N	
294527008	SU54-5-2-B27		N	

GEL Laboratories LLC - Login Review Report - Auxiliary Data

2040 Savage Road ~ Charleston, SC 29407
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Work Order: 294527 Client SDG: 294527

GEL ID: Client Sample ID:	294527001 SU54-5-3-B10	294527002 SU54-5-3-B12	294527003 SU54-5-3-B17	294527004 SU54-5-3-B31	294527005 SU54-5-2-B16	294527006 SU54-B2-B9	294527007 SU-2-7-2-B8	294527008 SU54-5-2-B27
Cooler Seal Undisturbed	y	y	y	y	y	y	y	y
Radioactive Sample 1	Y	Y	Y	Y	Y	Y	Y	Y
Temperature (C)	18	18	18	18	18	18	18	18

Work Order: 294527

Report Date: 24 JAN 2012

Product: LSC_GABF
LSCC, Gross A/B, filter

Workdef ID: 1291480

In Product Group? No

Group Name: N/A

Group Reference: N/A

Method: EPA 900.0/SW846 9310/SM 7110B Modified

Path: Standard

Samples: 001, 002, 003, 004, 005, 006, 007, 008

Product Reference: 14 day TAT

Parmname Check: All parmnames scheduled properly

Moisture Correction: "As Received"

Status: NEW

CAS #	Parmname	Client RDL or PQL with Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
12587-46-1	ALPHA	3.6	pCi/Filter	REG	Y	Y	Yes
12587-47-2	BETA	9	pCi/Filter	REG	Y	Y	

Login Requirements:

Requirement	Include?	Comments
Calculate collection date using the midpoint between Monitoring Start Date and Monitoring End Date?	N	
Has the chain of custody number been recorded?	N	
Is the SDG number different from the work order number?	N	
Is there a fax date?	Y	fax date is either 7 or 14 days
Is there a purchase order number?	Y	N300-300

Peer Review by: _____

Work Order (SDG#), PO# Checked? _____

C of C signed in receiver location? _____

Client Name: Tidewater

Project/Site Name: WRAMC

Address:

Collected by:

Phone #:

Fax #:

Sample ID

* For composites - indicate start and stop date/time

*Date Collected (mm-dd-yy)

*Time Collected (Military) (hh:mm)

QC Code ⁽²⁾

Field Filtered ⁽³⁾

Sample Matrix ⁽⁴⁾

Sample Analysis Requested ⁽⁵⁾ (Fill in the number of containers for each test)

Should this sample be considered:

TSCA Regulated

Radioactive

Total number of containers

<- Preservative Type (6)

Comments

TAT Requested: Normal: _____ Rush: _____ Specify: _____ (Subject to Surcharge) Fax Results: Yes / No Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Chain of Custody Signatures			Sample Shipping and Delivery Details		
Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1			<u>Ph. Kilon</u>	<u>1-11-12</u>	<u>0935</u>
2					
3					

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Solid Waste, O=Oil, F=Filter, F=Wipe, U=Urine, F=Fecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NT = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: 13 C



SAMPLE RECEIPT & REVIEW FORM

Client: TID1WRH		SDG/AR/COC/Work Order: 294527	
Received By: DBL		Date Received: VIV/12	
Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 cpm
Classified Radioactive II or III by RSO?		X	
COC/Samples marked containing PCBs?		X	
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		X	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		X		Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius 18°
2a Daily check performed and passed on IR temperature gun?	X			Temperature Device Serial #: 41502182 Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	X			
4 Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7 Are Encore containers present?		X		(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	X			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?			X	Sample ID's affected: No date and times on samples
11 Number of containers received match number indicated on COC?			X	Sample ID's affected: * See attached Chain initiated on receipt for extra samples
12 Are sample containers identifiable as GEL provided?			X	
13 COC form is properly signed in relinquished/received sections?	X			
14 Carrier and tracking number.	X			Circle Applicable: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other 8758 6234 0517

Comments (Use Continuation Form if needed):



SAMPLE RECEIPT & REVIEW FORM CONTINUATION FORM

Client: TIDI

Date Received:

1/11/12

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Received Samples: SU54 5-3 B10, SU54 5-3 B12, SU54 5-3 B17, SU54 5-3 B31, SU54 5-2 B16, SU54 B2 B-9, and SU-2-7-2 B8 that were not on chain.

Samples SU54-5-2-B6 and SU54-5-2-B21 appeared on chain twice, but only received one container for each.

Received sample SU54-5-2-B27 that was not on COC