



**WSC STABLE ISOTOPE
LABORATORY**

Website: [http://wsc-
asif.blogspot.com.au/](http://wsc-asif.blogspot.com.au/)

REQUESTOR [REDACTED]

INSTITUTION: DEPARTMENT OF PLANNING & ENVIRONMENT, NSW
ANALYSIS: TOTAL ACIDIFIED CARBON, NITROGEN (SEDIMENT), CN FILTER
CLIENT REF #TRIP 16

LAB REFERENCE: 230825 - NSW SEDIMENT N ONLY.bch; 230901 - NSW SEDIMENT FILTER CN.bch

Lab ID	Sample type	N analysis				C analysis				
		Sample weight	content (mg)	d15N (‰)		Sample weight	content (mg)	% C	d13C (‰)	
B2		103.0	0.03	0.03%	7.2		100.9	0.49	0.49%	-27.6
A1	Sediment	50.42	0.09	0.18%	7.0		16.55	0.22	1.34%	-29.6
A2		52.16	0.09	0.16%	7.0		18.08	0.21	1.15%	-29.7
A9		50.59	0.08	0.16%	7.2		20.76	0.24	1.16%	-30.0
A3		51.67	0.10	0.20%	7.0		28.32	0.41	1.45%	-30.4
A4		50.57	0.10	0.19%	6.5		27.81	0.54	1.95%	-29.6
A10		51.90	0.07	0.13%	7.0		27.38	0.32	1.19%	-29.8
A5		79.87	0.07	0.08%	7.1		48.62	0.53	1.09%	-27.4
A6		59.45	0.05	0.08%	7.0		44.66	0.33	0.74%	-29.5
A11		51.28	0.11	0.21%	6.1		27.50	0.43	1.58%	-29.6
A12		55.75	0.08	0.14%	6.9		32.09	0.33	1.03%	-29.9
B3		100.2	0.03	0.03%	8.3		103.2	0.23	0.22%	-27.0
A7		80.07	0.03	0.04%	7.4		57.13	0.19	0.33%	-28.8
A8		108.00	0.03	0.03%	7.2		77.53	0.14	0.18%	-29.1
B1		103.8	0.01	0.01%	7.7		100.0	0.10	0.10%	-28.9

Sample info				
SampleID	TripCode	SiteCode	SampleDate	Analyte
MFK-Z-B2_20230808	Trip16	MFK-Z-B2	_20230808	Sed-Isotopes B2
MFK-Z-P1_20230808	Trip16	MFK-Z-P1	_20230808	Sed-Isotopes P1
MFK-Z-P2_20230808	Trip16	MFK-Z-P2	_20230808	Sed-Isotopes P2
MFK-Z-E1_20230808	Trip16	MFK-Z-E1	_20230808	Sed-Isotopes E1
MFK-Z-P3_20230808	Trip16	MFK-Z-P3	_20230808	Sed-Isotopes P3
MFK-Z-P4_20230808	Trip16	MFK-Z-P4	_20230808	Sed-Isotopes P4
MFK-Z-E2_20230808	Trip16	MFK-Z-E2	_20230808	Sed-Isotopes E2
MFK-Z-P5_20230808	Trip16	MFK-Z-P5	_20230808	Sed-Isotopes P5
MFK-Z-P6_20230808	Trip16	MFK-Z-P6	_20230808	Sed-Isotopes P6
MFK-Z-E3_20230808	Trip16	MFK-Z-E3	_20230808	Sed-Isotopes E3
MFK-Z-E4_20230808	Trip16	MFK-Z-E4	_20230808	Sed-Isotopes E4
MFK-Z-B3_20230808	Trip16	MFK-Z-B3	_20230808	Sed-Isotopes B3
MFK-Z-P7_20230808	Trip16	MFK-Z-P7	_20230808	Sed-Isotopes P7
MFK-Z-P8_20230808	Trip16	MFK-Z-P8	_20230808	Sed-Isotopes P8
MFK-Z-E5_20230808	Trip16	MFK-Z-E5	_20230808	Sed-Isotopes E5

0.49%	B2
1.34%	P1
1.15%	P2
1.16%	E1
1.45%	P3
1.95%	P4
1.19%	E2
1.09%	P5
0.74%	P6
1.58%	E3
1.03%	E4
0.22%	B3
0.33%	P7
0.18%	P8
0.10%	E5

SOD

1221.008
2736.686
1828.756
1763.718
2127.809
1633.642
1879.726
800.337
74.19446
503.4965
839.6306
212.4646
127.2265
2523.937
612.8487

	Date	DO %	mir DO %	range	Chl ug/L	DO %	DEP m
22.0095	B2	90.1	0.5	20.97	90.305	0.148	
8.538456	P1	77.5	10.5	39.57	86	3.125	
8.19384	P2	88.5	19.1	46.5	96.73235	2.617	
8.595184	E1	78.9	8.5	71.82	84.6403	2.911	
8.468028	P3	80	13.4	50.84	90.81838	3.996	
11.80501	P4	95.2	2.2	34.92	96.89753	2.992	
10.57741	P E2	83.4	16.7	49.16	96.41778	2.773	
15.6487	P5	74.8	25.5	52.75	90.73871	3.262	
10.52163	P6	74.3	14.4	47.42	84.27248	3.691	
8.718788	P E3	68.1	24	72.16	79.70361	4.871	
8.472426	E4	72.1	38.5	65.7	92.74383	3.172	
8.914892	B3	53.7	3.4	20.09	55.15072	1.776	
9.711416	P7	76.4	8.5	53.94	81.58765	2.298	
8.316908	P8	70.1	42.5	69.84	90.50638	3.884	
8.628367	E5	73.1	38.1	50.48	85.97627	3.304	

	%<67um
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237511	18.84	B2
237431	93.661	P1
237427	95.204	P2
237447	95.939	E1
237423	93.74	P3
237419	85.699	P4
237451	82.556	E2
237415	55.738	P5
237411	73.591	P6
237443	97.243	E3
237439	78.981	E4
237399	50.589	B3
237407	34.114	P7
237403	24.768	P8
237435	18.211	E5

Lab ID	Sample type	N analysis	
		filter portio	content (mg)
A1	Filter	1/4	0.07
A2		1/4	0.05
A3		1/4	0.03
A4		1/4	0.05
A5		1/4	0.06
A6		1/4	0.04
A7		1/4	0.05
A8		1/4	0.05

C analysis					Sample ID
d15N (‰)	Filter portio	content (mg)	d13C (‰)		
8.2	1/4	0.61	-31.0	B1	
7.8	1/4	0.36	-33.1	B2	
8.1	1/4	0.21	-31.2	B3	
8.3	1/4	0.30	-33.4	E1	
7.9	1/4	0.39	-34.5	E2	
7.4	1/4	0.30	-33.6	E3	
8.0	1/4	0.33	-34.8	E4	
8.3	1/4	0.33	-34.0	E5	

Sample weight	content (m	d15N (‰)
103.0	0.03	7.2
100.2	0.03	8.3
50.59	0.08	7.2
51.90	0.07	7.0
51.28	0.11	6.1
55.75	0.08	6.9
103.8	0.01	7.7

Sample weight	content (m	d13C (‰)	SampleID	TripCode	SiteCode		
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	100.9	0.49	-27.6	Z-B2_2023	Trip16	MFK-Z-B2	90.1	0.5	20.97
	103.2	0.23	-27.0	Z-B3_2023	Trip16	MFK-Z-B3	78.9	8.5	71.82
	20.76	0.24	-30.0	Z-E1_2023	Trip16	MFK-Z-E1	83.4	16.7	49.16
	27.38	0.32	-29.8	Z-E2_2023	Trip16	MFK-Z-E2	68.1	24	72.16
	27.50	0.43	-29.6	Z-E3_2023	Trip16	MFK-Z-E3	38.5	65.7	92.74383
	32.09	0.33	-29.9	Z-E4_2023	Trip16	MFK-Z-E4	53.7	3.4	20.09
	100.0	0.10	-28.9	Z-E5_2023	Trip16	MFK-Z-E5	73.1	38.1	50.48