DR2004050

sample level (m)	Ma-m	depth Bk (cm)	d13CPDB	d18OPDB	yield CO2 millibars	Comments by JGW
4.3	28.6932	81				Not Enough Carbonate
4.8	28.68395	47	-10.6	-18.4	781	
5.3	28.6747	42	-9.1	-14.3	1429	
5.8	28.6673	47	-9.6	-16.5	453	
6.2	28.65065	91	-8.7	-13.6	1449	
7.1	28.634	46	-11.1	-15.9	717	
8.0	28.6155	41	-9.0	-13.0	1059	
8.6	28.60255	32				Not Enough Carbonate
9.0	28.5933	73	-9.1	-13.2	839	
9.7	28.58405	48	-11.3	-15.2	652	
10.2	28.5748	37	-8.9	-13.0	819	
10.7	28.5637	71	-10.8	-17.2	725	
11.2	28.55815	49	-8.2	-12.9	1669	
11.8	28.5378	38	-9.1	-12.9	979	
12.1	28.523	30	-10.2	-15.2	723	
13.2	28.5082	86	-9.5	-13.5	770	
14.0	28.49525	47	-12.0	-17.7	1569	
14.8	28.4823	35	-9.9	-14.3	1039	
15.5	28.4675	77	-9.1	-13.8	1159	
16.2	28.45455	40	-8.9	-13.8	1749	
17.0	28.44345	39	-9.2	-14.3	919	
17.7	28.4305	89	-10.8	-13.7	1649	
18.3	28.41385	49	-8.9	-14.2	1669	
19.0	28.40275	45	-8.4	-13.3	819	
19.9	28.3935	66	-8.5	-12.3	1049	
20.5	28.37685	47	-8.8	-13.8	899	
21.0	28.3639	43	-8.6	-13.4	929	
21.9	28.35095	74	-8.5	-12.5	1119	
22.6	28.3343	47	-9.8	-15.6	969	
23.3	28.31765	43	-10.7	-14.3	889	
24.2	28.30285	77	-9.5	-14.4	869	
25.1	28.2788	41	-9.3	-13.6	909	
25.9	28.26585	46	-11.4	-17.5	909	
27.2	28.2455	69	-8.6	-11.7	797	
27.9	28.227	45	-9.6	-14.3	999	
29.0	28.21405	40	-8.4	-12.4	969	
30.0	28.2048	84	-8.5	-12.3	791	
30.7	28.19	47	-9.5	-13.5	849	
31.2	28.1715	37	-9.4	-13.5	949	
32.0	28.1604	35	-8.3	-12.3	1049	
33.0	28.1493	80	-8.2	-12.3	1129	
33.6	28.1345	41	-9.9	-14.9	729	
34.2	28.12155	30	-8.6	-12.8	869	
35.0	28.10675	69	-8.5	-12.8	1129	
35.7	28.0938	41	-9.9	-15.1	1169	
36.5	28.08085	67	-8.6	-12.5	1349	
37.2	28.0568	41	-11.1	-19.5	1329	
37.9	28.042	35	-8.7	-12.6	1049	
39.2	28.0272	82	-8.2	-12.2	1049	

40.0	28.0087	46	-7.7	-11.9	1109	
40.8	27.9976	33	-7.9	-11.9	1349	
41.8	27.98835	81	-8.2	-12.2	1039	
42.4	27.96985	45	-8.8	-13.3	1629	
42.9	27.95505	42	-7.9	-12.2	1169	
43.9	27.9088	73	-8.1	-12.8	1019	
44.7	27.88845	47	-9.6	-14.0	1109	
47.2	27.8755	48	-8.3	-12.7	1799	
48.3	27.8607	84	-8.1	-12.8	799	
49.0	27.84035	47	-9.3	-13.4	989	
49.8	27.8274	40	-13.4	-14.3	1039	
50.9	27.81075	67	-8.0	-12.3	1089	
51.6	27.7867	48	-10.3	-14.7	1109	
52.5	27.7682	43	-9.4	-13.8	1399	
53.8	27.7497	48	-8.8	-13.0	1169	
54.8	27.73675	91	-8.6	-13.2	1119	
55.8	27.71825	38	-8.3	-12.5	1029	
56.5	27.70345	35	-8.4	-12.2	949	
57.5	27.6905	74	-9.1	-13.2	959	
58.3	27.6683	38	-10.5	-14.3	729	
59.0	27.6498	35	-8.9	-13.0	1379	
60.2	27.635	77	-9.5	-14.2	1019	
61.2	27.6165	41	-8.8	-13.2	1059	
62.0	27.5129	38	-11.3	-16.5	1539	
63.0	27.487	25	-9.6	-14.1	1119	
68.6	27.4685	76	-9.7	-15.0	1639	
70.0	27.45185	53	-8.8	-13.1	1759	two bags averaged
71.0	27.4352	48	-9.0	-13.0	1749	
71.9	27.42225	56	-8.5	-12.9	1029	
72.8	27.3982	50	-8.7	-14.2	1729	
73.5	27.38895	45	-8.1	-13.1	1659	
74.8	27.376	63	-9.5	-13.2	909	
75.3	27.339	40	-8.8	-14.8	1659	
76.0	27.3168	39	-8.9	-12.9	929	
78.0	27.302	45	-8.6	-12.8	1589	
79.2	27.2835	56	-9.2	-12.9	1749	
80.0	27.265	65	-9.0	-12.3	849	
81.0	27.24465	55	-9.2	-13.2	1609	
82.0	27.2243	56	-9.2	-13.2	1139	
83.1	27.20395	52	-9.1	-12.8	1109	
84.2	27.191	46	-9.4	-14.0	1579	
85.3	27.18175	49	-9.7	-14.3	797	
86.0	27.16695	44	-9.4	-13.9	1129	
86.5	27.14845	37	-9.7	-14.9	1519	
87.3	27.13365	50	-9.3	-13.7	999	
88.3	27.1207	56	-9.8	-14.5	1109	
89.1	27.10775	58	-9.5	-14.4	1069	
89.8	27.0911	48	-9.8	-14.7	1079	
90.5	27.0763	41	-9.5	-14.3	1089	
91.4	27.05595	66	-9.4	-14.4	1189	
92.2	27.04115	37	-9.3	-13.8	1119	

93.3	27.03375	42	-9.2	-13.9	979	
94.1	27.0208	69	-8.7	-12.9	1679	
94.5	26.99675	45	-9.0	-13.4	1079	
95.2	26.98195	42	-11.2	-15.9	1159	
96.5	26.9616	70	-9.1	-13.4	1009	
97.3	26.94495	73	-10.6	-16.0	1119	
98.4	26.93015	59	-9.7	-14.4	1109	
99.3	26.9098	41	-12.1	-16.5	1199	
100.1	26.89315	29	-9.2	-13.8	1009	
101.2	26.8765	78	-11.9	-16.7	1059	
102.1	26.85245	45	-12.5	-15.9	1029	
103.0	26.8247	42	-9.2	-13.9	979	
104.3	26.79695	71	-11.3	-14.9	1059	
105.8	26.77105	48	-9.1	-14.6	1589	
107.3	26.7507	38	-9.0	-14.4	1669	
108.7	26.7285	72	-9.4	-14.8	1019	
109.8	26.71	68	-9.9	-14.1	1029	
111.0	26.6952	71	-8.6	-13.6	1029	
112.0	26.6804	49	-9.6	-15.1	1759	
112.8	26.67115	37	-8.8	-13.8	779	two analyses averaged
113.6	26.6508	38	-10.9	-15.1	1059	
114.1	26.63785	42	-10.5	-16.5	1369	
115.2	26.6249	66	-9.3	-14.0	989	
115.9	26.60455	33	-10.7	-15.3	1569	
116.6	26.59345	38	-9.4	-14.6	969	
117.7	26.5842	71	-8.9	-13.9	1009	
118.3	26.55645	29	-9.2	-14.9	1609	one bag run
118.8	26.53425	42	-8.6	-12.7	939	two analyses averaged
120.3	26.51575	48	-9.0	-13.8	909	two bags averaged
121.5	26.49355	65	-8.5	-14.0	1219	
122.5	26.47875	37	-8.4	-13.8	1079	
123.7	26.46395	56	-8.4	-14.2	1559	
124.5	26.4436	44	-10.6	-15.0	859	
125.3	26.4325	38	-9.4	-14.9	1579	
126.4	26.42325	58	-8.7	-13.4	939	
127.0	26.40845	35	-9.1	-13.9	919	
127.5	26.3955	32	-8.9	-14.0	1109	
128.3	26.38625	65	-8.9	-14.1	1619	two analyses averaged
129.0	26.37145	43	-8.8	-13.7	1069	
129.5	26.3585	42	-8.5	-13.5	1119	
130.3	26.34925	56	-8.8	-13.5	794	
131.0	26.3326	37	-9.2	-14.5	989	
131.5	26.31595	28	-9.7	-13.7	1049	
132.4	26.3067	62	-8.7	-13.7	1029	
133.3	26.2956	36	-9.2	-14.0	1099	
133.8	26.2845	33	-9.1	-14.0	1049	
134.4	26.27525	56	-10.7	-14.2	1069	
135.0	26.2549	38	-10.6	-14.3	774	
135.5	26.2475	36	-9.1	-14.0	909	
136.6	26.24195	58	-9.1	-14.2	879	
137.0	26.229	36	-11.4	-14.8	979	

137.3	26.21975	33	-10.2	-13.6	792	
138.0	26.2105	58	-10.5	-13.9	1059	two analyses averaged
138.5	26.192	42	-9.2	-14.9	1069	
139.0	26.18275	38	-8.6	-12.9	1039	
140.0	26.1735	49	-8.5	-13.1	849	
140.5	26.155	30	-8.8	-13.4	969	
141.0	26.14575	37	-8.9	-13.6	1069	
142.0	26.13465	52	-8.7	-13.4	999	
142.5	26.1143	35	-8.9	-13.8	1619	
143.1	26.10505	31	-9.1	-14.4	1579	
144.2	26.09395	54	-9.1	-14.4	1359	two bags averaged
144.7	26.0588	34	-8.9	-13.6	889	
145.3	26.0477	36	-9.2	-14.3	1569	
147.2	26.03845	52	-8.9	-14.2	1099	
147.8	26.0255	38	-8.7	-12.8	1709	
148.3	26.01625	34	-8.6	-13.2	1659	
149.0	26.00145	58	-8.6	-12.6	999	
149.5	25.9848	42	-9.5	-13.2	969	
150.3	25.9737	38	-8.9	-13.5	1599	
151.2	25.95705	58	-8.8	-13.2	849	
151.8	25.9404	42	-9.7	-15.6	1589	
152.7	25.92375	36	-9.0	-13.9	1009	
153.6	25.90525	59	-8.1	-12.9	879	
154.5	25.8849	39	-9.2	-13.5	732	
155.5	25.8701	42	-8.6	-13.5	1269	
156.6	25.8627	58	-9.0	-13.3	969	
157.4	25.84235	44	-8.6	-13.5	1029	
157.8	25.8331	42	-8.6	-12.7	1659	
158.9	25.8257	57	-8.4	-12.7	959	
159.4	25.8072	38	-8.3	-13.7	781	
159.8	25.79795	35	-10.7	-14.9	1519	
160.8	25.7887	59	-9.1	-12.9	839	
161.3	25.77205	37	-8.6	-13.3	969	
161.8	25.75725	28	-8.7	-13.0	859	
162.7	25.7443	60	-11.8	-17.5	1279	
163.5	25.72395	40	-9.8	-14.3	1479	
164.2	25.711	38	-9.3	-14.2	1579	
165.3	25.6962	59	-9.3	-13.5	1029	
166.0	25.6777	40	-9.3	-12.3	1059	
166.8	25.66475	38	-12.1	-15.8	756	
167.8	25.64995	56	-8.5	-14.0	1629	
168.5	25.64255	33	-10.3	-14.5	1519	
169.3	25.63145	55	-9.9	-13.3	1559	
169.7	25.6148	35	-9.1	-14.0	1589	
170.3	25.60555	39	-8.6	-13.4	1029	
171.2	25.59445	60	-8.6	-12.9	1699	
171.7	25.57595	39	-9.2	-13.3	1629	
172.3	25.56485	28	-8.9	-13.2	1369	
173.3	25.5482	56	-11.1	-15.5	909	
173.9	25.5408	38	-8.9	-13.1	1669	
174.8	25.5334	49	-9.6	-12.6	969	

175.2	25.52045	38	-8.9	-12.5	1849	
175.6	25.5075	34	-8.9	-13.1	1019	
176.3	25.49825	48	-9.3	-12.3	797	
177.0	25.4335	44	-10.0	-13.1	792	
177.5	25.4002	36	-9.4	-14.1	1639	
180.0	25.3928	73				Not Enough Carbonate
180.5	25.3817	39				Not Enough Carbonate
181.0	25.36135	37	-8.5	-13.7	1049	
182.8	25.35025	65	-8.6	-12.7	979	
183.2	25.3373	38	-9.2	-13.2	796	
183.8	25.3225	34	-8.5	-11.9	1049	
184.9	25.31325	71	-11.4	-15.4	1059	
185.5	25.304	41	-10.4	-12.6	1209	
186.2	25.28365	34	-8.9	-12.0	1029	
187.0	25.27255	79	-9.2	-11.9	1069	
187.5	25.26145	34	-10.3	-12.3	1609	
188.0	25.2411	28	-10.0	-13.3	899	
189.1	25.23	73	-8.2	-12.7	1249	
189.7	25.20965	41	-8.5	-11.4	899	
190.3	25.193	36	-8.6	-11.3	1029	
191.4	25.1819	56	-9.0	-12.3	939	two bags averaged
192.0	25.1634	42	-9.1	-12.4	1009	
193.1	25.1523	58	-9.7	-12.0	799	
194.0	25.1412	38	-9.8	-12.4	1589	
194.6	25.119	35	-9.9	-15.4	879	
195.6	25.10975	67	-9.6	-12.7	1659	
196.2	25.09495	31	-8.9	-11.7	1129	
196.8	25.0635	28	-8.5	-12.3	1589	
198.0	25.05425	63	-9.3	-12.1	794	
198.5	25.045	38	-12.1	-14.5	949	
199.3	25.03205	35	-8.6	-12.0	1709	
201.0	25.02095	61	-9.6	-12.3	796	
201.5	25.00985	37	-9.6	-13.5	1029	
202.0	24.99875	28	-10.3	-14.5	1039	
202.7	24.9895	53	-10.2	-13.6	701	
203.3	24.98395	31	-10.3	-14.0	779	
203.9	24.96175	26	-9.5	-12.5	1039	
204.5	24.9525	69	-8.5	-12.0	1019	
205.0	24.93585	34	-8.3	-11.5	1259	
205.3	24.9192	32	-9.9	-12.4	1519	
206.5	24.90625	70	-9.6	-13.6	1399	
207.0	24.8859	34	-9.4	-12.7	949	
207.9	24.86925	33	-8.3	-12.1	1159	
208.8	24.86	71	-8.8	-11.7	939	
209.5	24.8452	36	-8.7	-12.0	1219	
210.6	24.82855	34	-9.7	-13.1	919	
211.5	24.81745	75	-7.9	-12.0	782	
212.0	24.8045	44	-9.0	-12.9	1039	
212.8	24.78785	39	-9.5	-13.9	1139	
213.7	24.77675	71	-9.3	-13.4	1049	
214.3	24.76935	38	-9.0	-11.4	869	

215.0	24.75455	34	-7.7	-10.8	939
215.9	24.7453	65	-8.5	-12.0	899
216.2	24.7342	44	-9.0	-13.1	929
216.9	24.7157	25	-8.4	-11.8	1109
217.7	24.7083	54	-7.9	-11.4	819
218.2	24.6972	35	-7.8	-11.6	899
218.8	24.6824	26	-8.2	-11.4	899
219.8	24.66945	82	-8.8	-11.9	1079
220.2	24.6565	39	-8.1	-11.5	775
220.8	24.6417	39	-7.8	-11.7	1019
221.6	24.6343	58	-8.4	-11.6	760
222.3	24.6232	44	-8.1	-12.1	772
223.0	24.61025	36	-8.6	-12.7	949
223.8	24.601	54	-7.8	-11.0	819
224.2	24.59175	39	-8.6	-11.1	735
224.8	24.57695	28	-8.6	-11.7	869
225.5	24.56585	73	-10.8	-13.5	909
226.0	24.55845	36	-10.8	-14.3	839
226.5	24.55105	33	-7.9	-10.8	1299
227.3	24.5455	66	-9.2	-13.0	839
227.9	24.5196	42	-9.1	-13.1	969
228.3	24.50665	73	-9.4	-14.2	1069
228.7	24.49925	42	-9.1	-13.6	919
229.0	24.4863	36	-8.8	-12.0	829
230.4	24.47705	72	-8.1	-10.6	1499
231.0	24.46595	37	-8.2	-10.4	939
231.5	24.4493	33	-8.6	-11.9	1579
232.2	24.4382	79	-8.3	-11.2	899
232.7	24.42525	37	-8.1	-10.5	1349
233.3	24.40675	42	-9.0	-10.8	1509
234.2	24.4012	71	-8.3	-10.6	979
234.8	24.3901	42	-9.5	-11.5	1559
235.5	24.37715	36	-8.2	-10.3	1569
236.5	24.3642	69	-8.7	-10.8	929
236.8	24.35125	42	-8.7	-11.2	1549
237.4	24.34015	36	-9.5	-13.7	1469
238.1	24.3309	34	-9.2	-12.3	1419
238.8	24.32165	59	-10.2	-13.8	1489
239.5	24.31425	48	-8.5	-10.8	1549
240.1	24.30315	38	-10.0	-13.4	1509
240.6	24.2865	32	-9.3	-11.8	1729
241.1	24.27725	55	-9.7	-12.1	859
241.5	24.26985	41	-8.9	-11.0	949
242.1	24.25875	33	-8.9	-11.3	1319
243.0	24.231	57	-9.7	-12.3	787
243.5	24.22175	35	-8.6	-11.7	1389
243.9	24.2125	43	-9.9	-13.0	959
244.5	24.1977	59	-8.3	-10.9	792
246.0	24.18845	56	-10.0	-12.9	1339
246.5	24.1755	45	-9.5	-12.5	849
247.0	24.1607	36	-9.3	-11.7	1639

247.8	24.15145	53	-7.7	-10.5	1609	
248.3	24.13665	44	-9.7	-13.7	1599	
249.0	24.12925	45	-9.7	-13.5	1579	
249.8	24.12	56	-10.0	-14.3	1469	
250.5	24.1052	44	-7.7	-10.5	1489	
251.1	24.09595	59	-7.0	-9.6	1599	
251.5	24.08485	35	-7.2	-9.3	1699	
252.0	24.07375	36	-7.9	-10.7	1579	
252.8	24.0682	50	-7.8	-11.0	1559	two analyses averaged
253.3	24.05895	40	-8.3	-10.9	1509	
253.9	24.046	37	-8.2	-10.9	899	
254.5	24.0349	51	-8.5	-11.5	1599	four sub-samples averaged
254.8	24.01455	38	-8.1	-11.0	1044	
255.3	24.0053	41	-9.2	-12.6	1559	
256.0	23.99605	55	-9.9	-12.4	1679	
256.6	23.98865	47	-9.5	-12.8	1299	
257.7	23.972	53	-9.9	-13.2	1239	
258.2	23.96275	32	-7.9	-10.7	797	
258.7	23.9498	28	-7.9	-10.4	1579	
259.1	23.94055	33	-9.5	-12.2	1579	
260.0	23.9239	51	-9.3	-12.8	1119	
260.5	23.90725	34	-9.6	-12.5	1339	
261.2	23.89615	32	-8.0	-10.3	1519	
261.7	23.8832	38	-7.4	-10.2	1479	
262.6	23.87025	50	-9.5	-12.3	1589	
263.5	23.8647	38	-7.6	-10.3	799	
264.1	23.84805	33	-8.6	-10.1	909	
264.8	23.84065	49	-8.2	-10.6	1589	
265.5	23.83325	37	-7.6	-10.4	1549	
265.8	23.8203	37	-7.5	-10.3	959	
266.7	23.80365	46	-7.5	-10.4	1589	
267.1	23.79625	32	-8.7	-11.4	1659	
267.5	23.78885	29	-7.9	-10.7	1059	
268.2	23.77775	26	-8.5	-10.8	1499	
269.1	23.7648	47	-9.7	-12.8	1579	
269.5	23.7537	22	-9.2	-12.5	1509	
269.9	23.74075	28	-9.5	-12.3	1649	
270.5	23.72225	35	-9.6	-13.1	1389	
271.2	23.713	46	-9.1	-12.6	1479	
271.8	23.70375	44	-7.7	-10.0	1529	
272.5	23.68895	39	-7.5	-9.6	1689	
273.5	23.6834	49	-8.3	-11.2	1609	
274.0	23.6723	44	-7.3	-9.3	1609	
274.5	23.66675	38	-6.9	-9.4	1589	
275.3	23.64825	49	-9.0	-11.8	819	
275.6	23.639	30	-7.8	-10.5	829	
276.2	23.62975	37	-9.7	-12.0	1189	
276.5	23.61495	35	-7.7	-10.4	1609	
277.5	23.6057	46	-9.0	-10.7	789	
278.0	23.602	34	-9.4	-10.7	1609	
278.5	22.648	30	-7.2	-9.9	1569	

279.3	22.597	47	*-7.2*	*-9.5*	1559	
279.8	22.583	38	*-8.8*	*-10.8*	1499	
280.0	22.573	31	*-8.6*	*-11.9*	788	
	22.569	39				no sample
	22.567	22				no sample
	22.566	24				no sample