

Annexe1: Chimie des eaux des lacs Isli, Tislit et des sources

Echantillon	S04 (mg/l)	PO4 (µg/l)	NO3 (mg/l)	SiO2 (mg/l)	Ca (mg/l)	Mg (mg/l)	Sr (mg/l)	Mn (mg/l)	Fe (mg/l)	Na (mg/l)	Cl (mg/l)	K (mg/l)	Al (µg/l)	Temp °C	pH	Cond. (mS)
TAFZA 1	141	0	2.7	11.5	108.7	51	4.19	0.08	0	841	1300	6.1	0	18.2	7.22	4.08
TAFZA 2	135	0	2.63	11.4	93.6	44.1	3.08	0.08	0	528	776	5.13	0	16.8	8.04	3.1
TORR_TAFZA	121	0	2.43	10.8	*	*	*	*	0	*	24.9	*	0	17.5	8.3	0.65
TAKKAT	11.2	0	7.8	6.43	50.7	18.5	0.73	0.08	0	3.19	2.91	0.6	0	11.3	7.84	0.35
SOURCE A	8.13	80.9	12	7.69	55.4	9	0.39	0.08	0	2.81	2.48	0.58	0	7.4	8.03	0.32
SOURCE B	13.4	89.9	15.1	8.75	67.1	13	0.56	0.09	0	3.63	2.44	0.8	0	8.7	8.06	0.41
SOURCE 1	7.64	89.9	11.3	10.2	43.8	23	0.93	0.08	0	5.49	3.81	1.63	0	10.8	8.05	0.38
SOURCE 3	7.54	108	4.88	11.5	35.1	20	0.42	0.09	0.057	4.99	3.41	1.64	0	11.1		0.32
SOURCE LAC	406	85.4	2.42	1.04	12.2	310	0.19	0.09	0	239	132	28.6	0	6.9		2.26
TASGOUNT	10.1	0	10.8	10.8	74.9	20	0.67	0.09	0	5.34	3.65	1.3	0	13.3		0.48
SOURCE X	65.8	94.4	117	8.09	70.2	27	1.48	0.08	0	15.9	113	1.16	0	11.3		0.562
SOURCE Y	31.9	98.9	9.07	7.8	85.1	23	1.19	0.07	0	7.9	4.29	1.01	0	12.8		0.562
IS SURF	400	0	0.01	0.942	10.3	323	0.17	0.05	0	265	132	26.3	0	12.7		2.44
IS -10	398	0	0.155	0.909	10.1	309	0.15	0.03	0	273	131	26.8	0	12.6	9.11	2.45
IS -20	399	0	0.319	1.11	9.6	342	0.18	0.03	0	252	128	27	0	11.9		2.43
IS -30	393	0	0.576	0.745	9.1	337	0.2	0.01	0	265	126	29.3	0	7.2		2.45
IS -40	399	0	0.295	0.646	9.2	307	0.19	0.01	0	254	125	28.3	0	7.2	9.32	2.44
IS -50	400	0	0.342	0.547	9.3	321	0.17	0	0	254	127	26.6	0	7		2.48
IS -60	398	0	0.225	0.646	9.2	322	0.19	0	0	254	140	28.6	0	7.1		2.38
IS -70	399	0	0.389	0.679	8.3	305	0.18	0	0	247	126	28	0	6.5		2.4
IS -80	400	0	0.319	0.58	8	300.8	0.18	0	0	272	125	26.1	0	6.6		2.39
IS -90	398	0	0.389	0.448	8.4	315.3	0.14	0	0	275	124	28.2	0	6.4		2.4
IS -25	397	98.9	0.272	0.349	5.7	325	0.16	0	0	259	127	27.4	0	8.3	9.26	2.42
TISLIT	349	139	82.9	0.118	17.7	167	0.39	0	0	76.2	27.7	8.4	0	15.6		1.18

Annexe 2: Simulation d'évaporation: Chimie des eaux (source de départ=Source B)

Incrément (x200)	AL	K+	NA+	CA++	MG++	FE++	MN++	SR++	PO4---	H4SiO4	NO3-	SO4--	CO3--	CL-
T1	8.71E-11	2.00E-05	1.58E-04	1.59E-03	5.14E-04	2.99E-11	1.99E-06	6.01E-06	9.01E-07	1.45E-04	2.44E-04	1.17E-04	1.96E-05	6.91E-05
T2	1.01E-10	2.32E-05	1.83E-04	1.84E-03	5.94E-04	3.25E-11	2.30E-06	6.97E-06	1.05E-06	1.68E-04	2.83E-04	1.34E-04	2.22E-05	8.02E-05
T3	1.16E-10	2.70E-05	2.13E-04	2.12E-03	6.87E-04	3.53E-11	2.67E-06	8.10E-06	1.21E-06	1.96E-04	3.29E-04	1.53E-04	2.53E-05	9.31E-05
T4	1.34E-10	3.13E-05	2.47E-04	2.45E-03	7.95E-04	3.82E-11	3.10E-06	9.41E-06	1.41E-06	2.27E-04	3.83E-04	1.74E-04	2.87E-05	1.08E-04
T5	1.55E-10	3.64E-05	2.87E-04	2.82E-03	9.19E-04	4.14E-11	3.60E-06	1.09E-05	1.64E-06	2.64E-04	4.44E-04	1.98E-04	3.26E-05	1.26E-04
T6	1.79E-10	4.22E-05	3.33E-04	3.25E-03	1.06E-03	4.48E-11	4.17E-06	1.27E-05	1.90E-06	3.06E-04	5.16E-04	2.25E-04	3.69E-05	1.46E-04
T7	2.07E-10	4.91E-05	3.87E-04	3.74E-03	1.23E-03	4.85E-11	4.84E-06	1.47E-05	2.21E-06	3.56E-04	5.99E-04	2.56E-04	4.19E-05	1.69E-04
T8	2.39E-10	5.70E-05	4.50E-04	4.31E-03	1.41E-03	5.24E-11	5.62E-06	1.71E-05	2.57E-06	4.14E-04	6.96E-04	2.91E-04	4.76E-05	1.97E-04
T9	2.76E-10	6.62E-05	5.23E-04	4.96E-03	1.63E-03	5.66E-11	6.52E-06	1.99E-05	2.98E-06	4.81E-04	8.08E-04	3.30E-04	5.41E-05	2.29E-04
T10	3.19E-10	7.69E-05	6.07E-04	5.70E-03	1.88E-03	6.11E-11	7.57E-06	2.31E-05	3.46E-06	5.59E-04	9.39E-04	3.75E-04	6.14E-05	2.66E-04
T11	3.68E-10	8.93E-05	7.05E-04	6.54E-03	2.17E-03	6.60E-11	8.78E-06	2.68E-05	4.02E-06	6.49E-04	1.09E-03	4.26E-04	6.97E-05	3.08E-04
T12	4.24E-10	1.04E-04	8.19E-04	7.51E-03	2.51E-03	7.12E-11	1.02E-05	3.12E-05	4.67E-06	7.54E-04	1.27E-03	4.83E-04	7.92E-05	3.58E-04
T13	4.89E-10	1.20E-04	9.51E-04	8.61E-03	2.89E-03	7.68E-11	1.18E-05	3.62E-05	5.43E-06	8.76E-04	1.47E-03	5.49E-04	9.01E-05	4.16E-04
T14	5.64E-10	1.40E-04	1.10E-03	9.86E-03	3.33E-03	8.28E-11	1.37E-05	4.21E-05	6.31E-06	1.02E-03	1.71E-03	6.23E-04	1.02E-04	4.84E-04
T15	6.50E-10	1.63E-04	1.28E-03	1.13E-02	3.83E-03	8.92E-11	1.59E-05	4.89E-05	7.33E-06	1.18E-03	1.99E-03	7.08E-04	1.17E-04	5.62E-04
T16	7.49E-10	1.89E-04	1.49E-03	1.29E-02	4.40E-03	9.61E-11	1.85E-05	5.68E-05	8.51E-06	1.37E-03	2.31E-03	8.05E-04	1.33E-04	6.53E-04
T17	8.63E-10	2.19E-04	1.73E-03	1.47E-02	5.06E-03	1.04E-10	2.15E-05	6.59E-05	9.89E-06	1.60E-03	2.68E-03	9.15E-04	1.51E-04	7.58E-04
T18	9.94E-10	2.55E-04	2.01E-03	1.68E-02	5.82E-03	1.11E-10	2.49E-05	7.66E-05	1.15E-05	1.86E-03	3.11E-03	1.04E-03	1.72E-04	8.81E-04
T19	1.14E-09	2.96E-04	2.33E-03	1.91E-02	6.68E-03	1.20E-10	2.89E-05	8.90E-05	1.33E-05	2.16E-03	3.62E-03	1.19E-03	1.96E-04	1.02E-03
T20	1.32E-09	3.44E-04	2.71E-03	2.17E-02	7.66E-03	1.29E-10	3.36E-05	1.03E-04	1.55E-05	2.50E-03	4.20E-03	1.35E-03	2.23E-04	1.19E-03

Annexe 3: Simulation des variations du niveau du lac Isli, en se basant sur les données météorologiques

Année	P (mm/an)	Evap (mm/an)	Sans tenir compte des variations de surface			En tenant compte des variations de surface			En tenant compte de l'évapotranspiration		
			Volume (m3)	Surf (m2)	Altitude	Volume (m3)	Surf (m2)	Altitude	Volume (m3)	Surf (m2)	Altitude
1970	247.6	1620	151420000	2346900	2268.5	151420000	2346900	2268.5	151420000	2346900	2268.5
1971	467	1620	149722894	2325149	2268.2	149722894	2325149	2268.2	148245886	2310094	2267.5
1972	208	1620	149890930	2326862	2268.3	149926166	2327221	2268.3	146972150	2297110	2266.9
1973	380.3	1620	147857181	2306131	2267.3	147924297	2306816	2267.3	143493273	2261649	2265.2
1974	347.7	1620	147288171	2300331	2267.0	147420224	2301677	2267.1	141512192	2241455	2264.2
1975	303.6	1620	146442026	2291706	2266.6	146647339	2293799	2266.7	139262299	2218521	2263.1
1976	398.5	1620	145220982	2279260	2266.0	145512318	2282229	2266.1	136650270	2191896	2261.8
1977	394.2	1620	144806692	2275037	2265.8	145202795	2279074	2266.0	134863739	2173685	2261.0
1978	228.6	1620	144355848	2270441	2265.6	144861828	2275599	2265.8	133045764	2155154	2260.1
1979	100	1620	142497221	2251496	2264.7	143118709	2257831	2265.0	129825637	2122330	2258.5
1980	0	1620	139545353	2221406	2263.2	140311134	2229212	2263.6	125541054	2078656	2256.4
1981	0	1620	135743375	2182651	2261.4	136699810	2192401	2261.8	120452722	2026789	2253.9
1982	216.5	1620	131941397	2143897	2259.5	133148121	2156197	2260.1	115424025	1975530	2251.5
1983	154.2	1620	129979907	2123903	2258.6	131495570	2139352	2259.3	112294466	1943629	2249.9
1984	85.2	1620	127488799	2098510	2257.4	129340689	2117387	2258.3	108662577	1906608	2248.2
1985	129.1	1620	124411115	2067138	2255.9	126634816	2089805	2256.9	104479696	1863970	2246.1
1986	102.5	1620	121706629	2039570	2254.5	124346824	2066483	2255.8	100714696	1825593	2244.3
1987	268.3	1620	118776013	2009698	2253.1	121870485	2041241	2254.6	96761349	1785295	2242.4
1988	165.6	1620	117254880	1994192	2252.4	120844521	2030783	2254.1	94258377	1759781	2241.1
1989	288.8	1620	114860685	1969787	2251.2	118962435	2011598	2253.2	90899283	1725541	2239.5
1990	N/D	N/D	113513824	1956058	2250.5	118158764	2003406	2252.8	88618604	1702293	2238.4

Surface (actuelle - calculée)/surface actuelle

9.00

5.52

20.80

Volume (actuel - calculé)/volume actuel 14.22

10.71

33.03

Annexe 4: IS6 - Granulométrie (en degré Phi)

Sec.cm	Prof	11	10	9.5	9	8.5	8	7.5	7	6.5	6	5.5	5	4.5	4	3.5	3
0:11:00	1.8	5.84	6.12	3.77	7.34	15.02	24.76	11.04	7.22	18.89	0	0	0	0	0	0	0
0:23:00	13.8	6.62	6.18	4.35	9.19	14.26	25.58	13.72	13.42	6.68	0	0	0	0	0	0	0
0:34:00	24.8	7.07	6.63	3.8	9.33	13.2	29.2	13.58	12.64	3.15	1.31	0	0	0	0	0	0
0:45:00	35.8	13.53	11.79	7.02	9.96	15.95	25.42	11.81	4.54	0	0	0	0	0	0	0	0
0:55:00	45.8	10.76	8.43	4.54	12.58	15.67	24.76	11.04	12.2	0	0	0	0	0	0	0	0
0:65:00	55.8	9.1	8.05	5.79	9.14	15.47	32.7	11.85	7.9	0	0	0	0	0	0	0	0
1:08:00	66.4	10.64	8.55	5.81	10.12	17.34	29.26	4.09	12.71	1.48	0	0	0	0	0	0	0
0:83:00	73.8	7.7	6.84	3.98	11.32	16.5	28.32	11.15	10.28	3.91	0	0	0	0	0	0	0
1:18:00	76.4	4.52	4.09	3.32	6.66	13.24	19.98	10.01	12.35	18.59	7.17	0.05	0	0	0	0	0
1:28:00	86.4	3.69	4.1	3.17	5.28	8.61	15.67	6.18	7.99	6.74	12.24	12.8	13.55	0	0	0	0
1:40:00	98.4	6.87	5.9	3.52	9.77	15.02	27.26	8.79	10.39	12.47	0	0	0	0	0	0	0
1:50:00	108.4	6.7	6.33	3.8	9.47	13.33	23.14	13.87	9.07	14.27	0	0	0	0	0	0	0
1:78:00	136.4	6.62	5.87	4.37	9.66	13.06	25.65	10.75	11.32	12.69	0	0	0	0	0	0	0
1:89:00	147.4	5.53	5.62	3.38	8.96	13.82	25.12	12.21	8.57	9.16	7.61	0	0	0	0	0	0
2:12:00	169.7	5.62	5.89	4	7.85	10.41	23.42	10.96	9.98	19.13	2.74	0	0	0	0	0	0
2:20:00	177.7	11.07	8.31	5.4	11.26	14.57	26.82	14.54	7.05	0.98	0	0	0	0	0	0	0
2:32:00	189.7	39.37	23.6	10.67	11.96	11.82	2.58	0	0	0	0	0	0	0	0	0	0
2:49:00	206.7	7.98	6.78	5.22	9.68	13.06	24.45	7.84	8.57	15.58	0.84	0	0	0	0	0	0
2:67:00	224.7	6.03	7.52	4.86	9.57	14.99	24.72	10.45	11.59	9.59	0.67	0	0	0	0	0	0
2:81:00	238.7	4.22	4.08	3.26	7.88	12.15	28.77	14.42	11.1	13.63	0.49	0	0	0	0	0	0
2:96:00	253.7	5.09	5.2	3.55	9.61	13.38	29.9	9.67	2.88	13.87	6.85	0	0	0	0	0	0
3:08:00	266.3	9.1	7.13	5.06	9.97	15.71	20.8	12.5	13.61	6.13	0	0	0	0	0	0	0
4:09:00	280.1	7.36	6.34	4.57	9.46	14.82	26.31	7.03	4.94	18.04	1.12	0	0	0	0	0	0
4:24:00	295.1	9.66	8.19	4.83	9.45	11.59	21.55	7.47	4.86	22.41	0	0	0	0	0	0	0
4:40:00	311.1	9.24	8.92	5.82	11.11	14.86	19.43	12.69	6.64	5.62	5.74	0	0	0	0	0	0
4:57:00	328.1	9.1	7.88	5.44	10.66	18.42	24.66	9.49	14.35	0	0	0	0	0	0	0	0
4:70:00	341.1	8.7	7.9	3.78	9.19	16.87	26.33	12.68	13.1	1.45	0	0	0	0	0	0	0
4:79:00	350.1	15.49	10.9	6.7	11.04	15.85	22.48	11.63	5.9	0	0	0	0	0	0	0	0
4:93:00	364.1	32.35	21.72	9.11	11.69	8.97	16.17	0	0	0	0	0	0	0	0	0	0
5:09:00	383.2	16.15	12.98	4.61	9.41	14.7	23.51	11.56	3.27	3.81	0	0	0	0	0	0	0
5:23:00	395.2	7.27	5.77	3.91	8.13	9.43	23.68	13.87	11.6	15.3	1.05	0	0	0	0	0	0
5:38:00	410.2	10.3	9.27	6.11	12.03	16.2	29.37	10.2	5.97	0.55	0	0	0	0	0	0	0
5:52:00	424.2	7.48	5.37	4.35	11.35	14	33.29	8.63	9.08	6.45	0	0	0	0	0	0	0
5:67:00	439.2	2.98	2.93	2	4.68	6.13	14.37	9.08	7.4	7.88	28.23	14.33	0	0	0	0	0
5:77:00	449.2	6.53	6.39	4.65	11.01	14.68	27.39	11.71	8.52	9.1	0	0	0	0	0	0	0
5:95:00	467.2	53.52	34.21	9.53	2.75	0	0	0	0	0	0	0	0	0	0	0	0
6:12:00	484.1	9.09	7.25	4.16	9.24	9.21	22.22	7.53	7.59	23.72	0	0	0	0	0	0	0
6:28:00	500.1	7.72	6.16	4.04	10.42	15.19	25.52	9.12	6.53	9.9	5.4	0	0	0	0	0	0
6:45:00	517.1	6.8	5.77	4.14	9.83	10.86	18.81	10.92	9.9	9.6	13.37	0	0	0	0	0	0
6:63:00	535.1	12.3	9.01	5.96	12.14	12.3	28.88	10.62	8.04	0.85	0	0	0	0	0	0	0
6:78:00	550.1	6.4	6.26	4.27	7.55	9.54	18.04	14.16	11.27	15.29	7.23	0	0	0	0	0	0
6:90:00	561.7	5.88	6.44	4.61	11.73	13.43	27.32	12.99	4.53	6.43	6.64	0	0	0	0	0	0
6:94:00	566.1	2.07	2.95	2.6	7.05	14.06	21.89	9.32	8.48	16.44	10.76	4.37	0	0	0	0	0
7:04:00	575.8	3.63	4.31	3.14	7.82	11.41	24.39	6.52	11.88	8.41	2.33	6.14	0	0	0	0	0
7:15:00	586.8	2.97	3.52	2.56	6.75	10.54	21.91	8.25	7.98	14.09	21.43	0	0	0	0	0	0
7:29:00	600.8	3.79	4.56	3.94	10.04	12.3	21.41	9.08	8.02	10.38	10.39	6.08	0	0	0	0	0
7:40:00	611.8	3.71	4.41	3.85	8.31	12.01	16.9	10.1	8.47	11.51	3.8	16.92	0	0	0	0	0
7:53:00	624.8	3.66	3.76	2.93	6.84	10.05	19.85	6.36	7.84	12.99	17.63	8.11	0	0	0	0	0
7:66:00	638.1	1.57	2.24	2.16	5.48	10.17	20.84	11.99	8.85	10.18	6.9	18.73	0.91	0	0	0	0
7:74:00	645.8	4.09	4.55	3.51	9.3	11.01	21.87	8.2	10.28	12.67	14.33	0	0	0	0	0	0
7:84:00	655.8	4.46	5.26	3.71	7.62	13.12	21.29	12.82	10.51	8.85	12.35	0	0	0	0	0	0
7:96:00	667.8	3.33	4.03	3.6	6.7	11.29	27.85	9.37	11.61	8.82	12.39	0.99	0	0	0	0	0
8:10:00	681.3	4.26	4.83	3.83	6.86	10.53	16.78	11.48	15.77	12.35	13.31	0	0	0	0	0	0
8:25:00	696.3	12.13	9.36	6.5	10.51	17.82	21.91	11.83	9.94	0	0	0	0	0	0	0	0
8:43:00	714.3	4.43	4.37	3.19	10.12	14.85	22.83	7.34	5.34	4.91	11.22	11.41	0	0	0	0	0

Annexe 5: IS6 - Granulométrie (en %)

Sec.cm	Prof	Clay	VF St	F St	M St	C St	VC St	VF Sd	F Sd	mode	mean	mediane	%Argile	%Limon	%Sable
0:11:00	1.8	15.73	22.36	35.8	26.11	0	0	0	0	3.75	5.88	4.81	15.73	84.27	0
0:23:00	13.8	17.15	23.45	39.3	20.1	0	0	0	0	4.75	5.3	4.68	17.15	82.85	0
0:34:00	24.8	17.5	22.53	42.78	15.79	1.31	0	0	0	4.75	5.05	4.57	17.5	82.41	0
0:45:00	35.8	32.34	25.91	37.23	4.54	0	0	0	0	5.25	3.63	3.49	32.34	67.68	0
0:55:00	45.8	23.73	28.25	35.8	12.2	0	0	0	0	5.25	4.18	3.88	23.73	76.25	0
0:65:00	55.8	22.94	24.61	44.55	7.9	0	0	0	0	4.75	4.15	4.12	22.94	77.06	0
1:08:00	66.4	25	27.46	33.35	14.19	0	0	0	0	4.75	4.29	3.87	25	75	0
0:83:00	73.8	18.52	27.82	39.47	14.19	0	0	0	0	4.25	4.65	4.16	18.52	81.48	0
1:18:00	76.4	11.93	19.9	29.99	30.94	7.22	0	0	0	5.25	7.57	5.52	11.93	88.05	0
1:28:00	86.4	10.96	13.89	21.85	14.73	25.04	13.55	0	0	28.45	14.36	9.71	10.96	89.06	0
1:40:00	98.4	16.29	24.79	36.05	22.86	0	0	0	0	4.25	5.48	4.45	16.29	83.7	0
1:50:00	108.4	16.83	22.8	37.01	23.34	0	0	0	0	12.09	5.64	4.8	16.83	83.15	0
1:65:00	123.4	0	0	0	0	0	0	0	0	4.75	5.49	4.56	0	0	0
1:78:00	136.4	16.86	22.72	36.4	24.01	0	0	0	0	4.75	5.6	4.75	16.86	83.13	0
1:89:00	147.4	14.53	22.78	37.33	17.73	7.61	0	0	0	4.75	6.23	4.78	14.53	85.45	0
2:12:00	169.7	15.51	18.26	34.38	29.11	2.74	0	0	0	13.3	6.63	5.1	15.51	84.49	0
2:20:00	177.7	24.78	25.83	41.36	8.03	0	0	0	0	6.01	4.2	3.96	24.78	75.22	0
2:32:00	189.7	73.64	23.78	2.58	0	0	0	0	0	3.75	1.61	1.23	73.64	26.36	0
2:49:00	206.7	19.98	22.74	32.29	24.15	0.84	0	0	0	4.25	5.76	4.35	19.98	80.02	0
2:67:00	224.7	18.41	24.56	35.17	21.18	0.67	0	0	0	4.75	5.49	4.56	18.41	81.58	0
2:81:00	238.7	11.56	20.03	43.19	24.73	0.49	0	0	0	4.25	6.17	4.99	11.56	88.44	0
2:96:00	253.7	13.84	22.99	39.57	16.75	6.85	0	0	0	5.25	6.3	4.85	13.84	86.16	0
3:08:00	266.3	21.29	25.68	33.3	19.74	0	0	0	0	4.25	4.83	4.14	21.29	78.72	0
4:09:00	280.1	18.27	24.28	33.34	22.98	1.12	0	0	0	4.75	5.26	4.47	18.27	81.72	0
4:24:00	295.1	22.68	21.04	29.02	27.27	0	0	0	0	12.09	5.74	4.3	22.68	77.33	0
4:40:00	311.1	23.98	25.97	32.12	12.26	5.74	0	0	0	6.84	5.17	4	23.98	76.09	0
4:57:00	328.1	22.42	29.08	34.15	14.35	0	0	0	0	3.75	4.34	3.93	22.42	77.58	0
4:70:00	341.1	20.38	26.06	39.01	14.55	0	0	0	0	4.75	4.59	4.24	20.38	79.62	0
4:79:00	350.1	33.09	26.89	34.11	5.9	0	0	0	0	4.25	3.53	3.37	33.09	66.9	0
4:93:00	364.1	63.18	20.66	16.17	0	0	0	0	0	1.35	2.09	1.41	63.18	36.83	0
5:09:00	383.2	33.74	24.11	35.07	7.08	0	0	0	0	3.74	3.83	3.54	33.74	66.26	0
5:23:00	395.2	16.95	17.56	37.55	26.9	1.05	0	0	0	14.62	6.25	5.15	16.95	83.06	0
5:38:00	410.2	25.68	28.23	39.57	6.52	0	0	0	0	5.25	3.95	3.81	25.68	74.32	0
5:52:00	424.2	17.2	25.35	41.92	15.53	0	0	0	0	4.25	4.87	4.33	17.2	82.8	0
5:67:00	439.2	7.91	10.81	23.45	15.28	42.56	0	0	0	21.39	12.28	11.17	7.91	92.1	0
5:77:00	449.2	17.57	25.69	39.1	17.62	0	0	0	0	5.25	5.09	4.46	17.57	82.41	0
5:95:00	467.2	97.26	2.75	0	0	0	0	0	0	1.25	1.06	0.97	97.26	2.75	0
6:12:00	484.1	20.5	18.45	29.75	31.31	0	0	0	0	13.3	6.11	4.66	20.5	79.51	0
6:28:00	500.1	17.92	25.61	34.64	16.43	5.4	0	0	0	4.75	5.76	4.4	17.92	82.08	0
6:45:00	517.1	16.71	20.69	29.73	19.5	13.37	0	0	0	16.08	7.08	5.13	16.71	83.29	0
6:63:00	535.1	27.27	24.44	39.5	8.89	0	0	0	0	4.25	4.07	3.86	27.27	72.83	0
6:78:00	550.1	16.93	17.09	32.2	26.56	7.23	0	0	0	4.25	7.07	5.56	16.93	83.08	0
6:90:00	561.7	16.93	25.16	40.31	10.96	6.64	0	0	0	4.75	5.71	4.4	16.93	83.07	0
6:94:00	566.1	7.62	21.11	31.21	24.92	15.13	0	0	0	14.62	8.51	5.92	7.62	92.37	0
7:04:00	575.8	11.08	19.23	30.91	20.29	8.47	0	0	0	4.25	8.38	5.56	11.08	78.9	0
7:15:00	586.8	9.05	17.29	30.16	22.07	21.43	0	0	0	19.45	8.77	6.31	9.05	90.95	0
7:29:00	600.8	12.29	22.34	30.49	18.4	16.47	0	0	0	16.08	8.05	5.35	12.29	87.7	0
7:40:00	611.8	11.97	20.32	27	19.98	20.72	0	0	0	28.45	9.83	6.12	11.97	88.02	0
7:53:00	624.8	10.35	16.89	26.21	20.83	25.74	0	0	0	21.39	10.4	7.11	10.35	89.67	0
7:66:00	638.1	5.97	15.65	32.83	19.03	25.63	0.91	0	0	23.52	10.73	7.06	5.97	94.05	0
7:74:00	645.8	12.15	20.31	30.07	22.95	14.33	0	0	0	19.45	7.78	5.4	12.15	87.66	0
7:84:00	655.8	13.43	20.74	34.11	19.36	12.35	0	0	0	17.69	7.11	5.47	13.43	86.56	0
7:96:00	667.8	10.96	17.99	37.22	20.43	13.38	0	0	0	4.25	7.46	5.28	10.96	89.02	0
8:10:00	681.3	12.92	17.39	28.26	28.12	13.31	0	0	0	10	8.06	6.53	12.92	87.08	0
8:25:00	696.3	27.99	28.33	33.74	9.94	0	0	0	0	3.75	3.98	3.72	27.99	72.01	0
8:43:00	714.3	11.99	24.97	30.17	10.25	22.63	0	0	0	4.75	8.67	4.67	11.99	88.02	0

Annexe 6: Carotte IS3 - paramètres physiques

Sec. cm	Depth (cm)	H2O(WT.%)	%Inorg.C	% CaCO3	% Total C.	%org. C
1:11:00	4.80	45.76	1.11	8.61	2.07	0.96
1:20:00	13.80	46.02	1.33	10.36	2.52	1.19
1:33:00	26.80	39.29	1.05	8.13	1.94	0.90
1:46:00	39.80	50.16	1.63	12.64	2.93	1.31
1:56:00	50.00	42.09	0.96	7.45	1.83	0.87
1:66:00	59.80	51.15	0.81	6.27	2.63	1.82
1:78:30	72.10	44.35	1.17	9.10	1.93	0.76
1:88:50	82.30	43.29	0.79	6.15	2.03	1.24
2:02:00	90.00	39.40	1.22	9.45	2.22	1.00
2:19:50	107.50	42.75	1.53	12.74	2.68	1.15
2:38:00	126.00	45.16	1.11	8.62	2.04	0.93
2:58:50	146.50	38.68	1.01	7.82	2.01	1.01
2:77:00	165.00	45.36	1.60	13.34	2.99	1.39
2:94:00	182.00	42.02	1.32	10.25	2.34	1.02
3:03:00	190.30	46.32	1.49	11.59	2.42	0.92
3:26:00	213.30	17.97	0.48	3.73	0.53	0.05
3:31:00	218.30	38.32	0.93	7.21	1.90	0.97
3:53:00	240.30	42.01	1.39	10.83	2.43	1.04
3:58:00	245.30	41.46	1.75	13.61	2.73	0.98
4:10:50	265.40	34.96	0.89	6.90	1.75	0.86
4:25:40	280.30	42.80	1.34	10.43	2.42	1.07
5:14:00	298.80	37.56	0.92	7.13	2.21	1.29
5:35:00	318.80	36.38	0.96	7.45	2.14	1.18
5:54:00	327.80	39.17	1.00	7.79	2.28	1.28
5:69:00	352.80	42.99	1.47	11.39	3.38	1.91
5:79:00	362.80	36.34	1.24	9.61	2.87	1.63
6:34:00	417.30	26.41	0.65	5.02	1.60	0.95
6:50:00	433.30	35.90	1.20	9.36	2.76	1.56
6:75:00	458.30	37.59	0.60	4.66	2.18	1.58
7:16:00	505.70	30.61	1.72	13.37	2.73	1.01
8:09:00	570.60	39.30	2.71	21.04	3.78	1.07
8:34:00	595.60	39.73	2.53	19.63	3.83	1.30
8:53:00	614.60	37.36	1.48	11.49	3.20	1.72
8:74:00	635.60	43.64	2.51	19.53	3.99	1.47
8:98:00	659.60	48.61	3.70	28.73	5.10	1.40
9:11:00	672.20	44.11	2.33	18.07	3.75	1.42
9:33:00	694.20	35.65	1.41	10.99	2.63	1.22
9:79:00	740.20	33.64	1.17	9.09	2.39	1.22
9:94:00	755.20	40.38	2.45	19.02	4.06	1.61
10:07:00	753.40	36.31	2.35	18.26	3.57	1.22
10:19:50	765.90	38.58	1.88	14.59	3.34	1.46
11:12:50	780.40	36.25	1.83	14.20	3.22	1.39
11:36:00	803.90	35.90	1.34	10.41	2.93	1.59
11:57:50	825.40	35.80	2.02	15.72	3.42	1.40
11:93:00	860.90	37.79	1.84	14.28	3.14	1.30
12:01:80	868.40		1.70	14.15	3.31	1.62
12:14:50	881.10		2.29	19.12	3.40	1.11
12:25:50	891.60		1.02	8.47	2.17	1.15
12:36:00	902.10		1.34	11.15	2.27	0.93
12:50:00	916.10		1.73	14.40	2.92	1.19
12:67:00	929.60		1.52	12.68	2.74	1.22

Annexe 7: Carotte IS5 - paramètres physiques

Sec. cm	Depth (cm)	H2O(WT.%)	%Inorg.C	% CaCO3	% Total C.	%org. C
0:04:50	0.5	39.52	1.03	8.59	2.09	1.06
0:15:00	11	56.94	1.93	16.11	3.11	1.18
0:25:00	21	51.68	1.39	11.57	2.50	1.11
0:35:00	31	45.60	1.04	8.66	2.32	1.28
0:45:00	41	45.58	1.28	10.64	2.54	1.27
0:55:00	51	45.12	0.94	7.80	2.52	1.58
0:65:00	61	43.87	0.97	8.07	2.16	1.19
0:75:00	71	47.67	1.50	12.52	3.07	1.57
1:10:00	4.8	47.14	1.43	11.94	2.51	1.07
1:20:00	14.8	45.20	1.25	10.44	2.73	1.48
1:30:00	24.8	44.93	1.16	9.69	2.22	1.06
1:40:00	34.8	49.15	0.82	6.86	2.21	1.39
1:50:00	44.8	43.39	0.91	7.54	2.03	1.13
1:60:00	54.8	44.28	1.76	14.68	3.11	1.35
1:70:00	64.8	42.68	0.99	8.24	2.38	1.40
1:80:00	74.8	51.01	1.63	13.56	2.94	1.31
1:90:00	84.8	48.44	1.57	13.06	2.94	1.37
1:98:00	92.8	42.95	1.80	15.03	2.94	1.14
2:10:00	105.1	37.05	0.94	7.81	2.19	1.25
2:20:00	115.1	36.53	0.79	6.62	2.21	1.42
2:35:00	130.1	38.62	1.08	9.00	2.90	1.82
2:47:00	142.1	40.19	0.92	7.65	2.92	2.00
2:61:00	156.1	38.49	0.95	7.92	2.70	1.75
2:70:00	165.1	40.52	1.56	13.03	3.22	1.66
2:80:00	175.1	46.54	2.46	20.52	4.32	1.86
3:10:00	185.8	43.59	1.68	13.99	2.45	0.77
3:20:00	195.8	42.86	1.61	13.45	2.47	0.86
3:30:00	205.8	6.40	1.55	12.93	2.55	1.00
3:40:00	215.8	35.14	1.20	10.03	2.05	0.85
4:10:00	230.1	38.50	1.40	11.65	2.36	0.96
5:10:00	239.4	44.82	1.43	11.88	2.86	1.43
5:20:00	249.4	37.37	0.73	6.12	1.75	1.01
5:32:00	261.4	38.05	1.06	8.80	2.00	0.94
5:40:00	269.4	39.29	0.96	8.00	1.93	0.97
5:48:00	277.4	42.32	1.32	11.00	2.76	1.44
5:60:00	289.4	39.20	1.40	11.64	2.56	1.16
5:70:00	299.4	45.26	1.43	11.93	2.70	1.27
5:86:00	315.4	41.19	1.34	11.13	2.47	1.13
5:99:00	328.4	38.44	1.44	11.99	2.54	1.10
6:10:00	339.7	37.39	0.87	7.21	2.20	1.33
6:20:00	349.7	41.64	1.25	10.45	2.85	1.60
6:30:00	359.7	40.25	1.67	13.90	2.97	1.30
6:40:00	369.7	43.41	1.39	11.62	3.24	1.85
6:51:00	380.7	36.74	1.01	8.40	2.22	1.21
6:65:00	394.7	42.98	2.00	16.67	2.96	0.96
6:75:00	404.7	38.12	1.51	12.55	2.59	1.09
7:20:00	427.2	47.77	2.60	21.68	4.37	1.77
7:40:00	447.2	43.64	2.71	22.56	4.01	1.30
7:61:00	468.2	42.20	1.90	15.81	3.27	1.37
7:76:00	483.2	45.83	2.80	23.35	4.07	1.27
7:88:00	495.2	49.55	3.64	30.35	5.04	1.40
7:97:00	504.2	51.27	3.21	26.75	4.51	1.30
8:11:00	516.9	40.45	2.07	17.23	3.96	1.89
8:20:00	525.9	42.35	2.47	20.59	4.67	2.20
8:31:00	536.9	38.00	2.36	19.66	3.55	1.19
8:45:00	550.9	48.78	3.13	26.08	4.59	1.46
8:60:00	565.9	38.38	1.41	11.76	3.00	1.59
8:70:00	575.9	36.21	1.03	8.56	2.58	1.55
8:98:00	603.9	37.28	2.25	18.78	3.58	1.32
9:10:00	614.9	39.71	1.49	12.40	3.54	2.05
9:25:00	628.4	38.85	1.54	12.87	3.15	1.61
9:41:00	641.6	38.66	2.10	17.52	3.33	1.23
9:63:00	664.5	41.17	1.89	15.76	3.77	1.88
9:80:00	680.2	45.24	2.07	17.24	3.62	1.55
9:90:00	689.6	37.21	2.13	17.76	3.19	1.06
10:08:00	704.6	39.18	1.59	13.27	3.29	1.70
11:10:00	722.4	40.76	2.22	18.47	3.85	1.63
11:20:00	731.9	40.07	1.67	13.90	2.89	1.22
11:30:00	741.9	36.34	1.08	9.01	2.28	1.19
11:40:00	751.9	40.85	1.66	13.86	3.46	1.80
11:50:00	761.9	39.10	1.95	16.26	3.49	1.54
11:65:00	776.9	34.31	0.88	7.35	2.05	1.17
11:75:00	786.9	37.92	1.29	10.78	2.62	1.33
11:97:00	808.4	34.34	1.16	9.69	2.45	1.29
12:13:00	823.2	32.47	0.79	6.62	2.25	1.45
12:30:00	840.2	27.66	1.22	10.20	2.72	1.50
12:60:50	870.7	34.84	1.43	11.89	3.22	1.79
12:84:50	894.7	37.80	1.30	10.83	2.84	1.54
13:08:00	917.2	34.24	0.69	5.77	2.03	1.34

Annexe 8: Carotte IS6 - paramètres physiques

Sec.cm	Prof.	H2O(%)	%Ing.C	% CaCO3	% Tot C.	%Org. C.
0:11:00	1.80	46.95	0.92	7.65	2.03	1.11
0:23:00	13.80	56.43	1.65	13.73	2.69	1.05
0:34:00	24.80	54.11	1.48	12.31	2.51	1.04
0:45:00	35.80	47.80	1.27	10.56	2.23	0.96
0:55:00	45.80	54.29	1.72	14.34	2.98	1.26
0:65:00	55.80	51.55	1.58	13.15	2.50	0.92
0:83:00	73.80	45.86	1.52	12.66	2.44	0.92
1:08:00	66.40	44.52	1.30	10.83	2.57	1.27
1:18:00	76.40	51.13	2.02	16.84	3.39	1.37
1:28:00	86.40	57.43	3.15	26.22	4.24	1.09
1:40:00	98.40	45.20	1.83	15.28	2.77	0.94
1:50:00	108.40	38.87	1.75	14.57	3.12	1.37
1:65:00	123.40	46.66	2.00	16.68	3.80	1.79
1:78:00	136.40	51.62	2.46	20.48	3.70	1.24
1:89:00	147.40	44.60	2.33	19.42	3.46	1.13
2:12:00	169.70	42.37	1.73	14.45	3.16	1.42
2:20:00	177.70	48.86	1.89	15.77	3.47	1.58
2:32:00	189.70	40.50	1.83	15.24	2.60	0.77
2:49:00	206.70	37.96	1.38	11.51	2.34	0.96
2:67:00	224.70	45.97	1.85	15.41	3.40	1.55
2:81:00	238.70	41.27	1.34	11.16	2.49	1.15
2:96:00	253.70	38.42	1.12	9.30	2.27	1.15
3:08:00	266.30	39.50	1.22	10.21	2.49	1.26
4:09:00	280.10	40.12	0.73	6.11	1.23	0.50
4:24:00	295.10	39.16	1.08	8.97	1.70	0.62
4:40:00	311.10	37.23	0.81	6.77	1.22	0.41
4:57:00	328.10	33.90	0.74	6.17	1.07	0.33
4:70:00	341.10	35.80	1.55	12.91	2.09	0.54
4:79:00	350.10	34.75	1.17	9.73	1.85	0.68
4:93:00	364.10	32.75	0.53	4.43	1.41	0.88
5:09:00	383.20	38.10	0.10	0.86	0.84	0.74
5:23:00	395.20	23.51	1.16	9.70	1.90	0.74
5:38:00	410.20	28.51	2.03	16.89	2.28	0.25
5:52:00	424.20	29.44	1.54	12.86	2.17	0.62
5:67:00	439.20	24.83	1.39	11.58	1.87	0.48
5:77:00	449.20	39.99	0.15	1.25	1.38	1.23
5:95:00	467.20	31.16	1.82	15.15	2.35	0.53
6:12:00	484.10	37.99	0.18	1.51	0.85	0.67
6:28:00	500.10	33.96	1.04	8.69	1.57	0.53
6:45:00	517.10	32.99	1.39	11.60	1.96	0.57
6:63:00	535.10	32.68	0.98	8.17	1.55	0.57
6:78:00	550.10	34.97	0.71	5.95	1.42	0.71
6:90:00	561.70	31.77	1.36	11.33	2.41	1.05
6:94:00	566.10	38.31	0.59	4.88	2.03	1.44
7:04:00	575.80	32.62	3.67	30.61	4.55	0.88
7:15:00	586.80	33.73	2.79	23.23	3.99	1.20
7:29:00	600.80	36.30	0.58	4.86	1.94	1.36
7:40:00	611.80	37.17	0.31	2.54	1.57	1.26
7:53:00	624.80	37.13	3.49	29.09	4.45	0.96
7:66:00	638.10	34.06	3.31	27.61	4.43	1.12
7:74:00	645.80	36.55	4.73	39.42	5.78	1.05
7:84:00	655.80	35.86	4.11	34.23	6.21	2.11
7:96:00	667.80	33.94	4.31	35.93	5.93	1.62
8:10:00	681.30	34.28	3.58	29.83	5.31	1.73
8:25:00	696.30	33.13	5.60	46.68	7.53	1.93
8:43:00	714.30	26.32	5.06	42.15	5.58	0.52

Annexe 9: Carotte IS5 - Minéralogie de la roche totale (CPM)

Sec.cm	Prof.cm	Phyllo	Qz	FK	Plg	Cc	Dol	Py	Hm	Ara
1:10:00	4.8	5703	100614	0	6691	10821	0	0	7040	5897
1:20:00	14.8	6256	101454	0	7810	7623	0	0	6425	5228
1:30:00	24.8	4253	64467	0	4632	5459	0	0	5387	3406
1:40:00	34.8	3620	40921	0	2964	4686	0	0	3922	0
1:50:00	44.8	6230	100729	0	9056	5893	0	0	6462	5137
1:60:00	54.8	4185	53737	0	5850	6708	0	0	5464	5387
1:70:00	64.8	5993	117337	0	11784	9923	0	0	6569	4369
1:80:00	74.8	6465	97721	0	5332	10775	0	0	7605	6011
1:90:00	84.8	5591	79175	0	4932	6587	0	0	7240	5278
1:98:00	92.8	5247	87615	0	5579	9918	0	0	7842	7752
2:10:00	105.1	5983	153631	0	7814	6095	0	0	5776	2799
2:20:00	115.1	6291	127311	0	8497	8353	0	0	5990	1758
2:35:00	130.1	5356	138708	0	7189	10318	0	0	5595	3822
2:47:00	142.1	5870	109270	0	7190	9727	0	0	5447	2624
2:61:00	156.1	6333	117268	0	9120	9019	0	0	6431	2113
2:70:00	165.1	5078	107255	0	7361	8174	0	0	7451	6221
2:80:00	175.1	5081	77805	0	3998	10138	0	0	9236	12108
3:10:00	185.8	5756	64835	0	7713	7761	0	0	7382	8070
3:20:00	195.8	3520	41967	0	4208	6411	0	0	4569	3955
3:30:00	205.8	5863	90845	0	5242	8106	0	0	7171	6695
3:40:00	215.8	5788	115705	0	11369	9590	0	0	5791	4006
4:10:00	230.1	5762	124680	0	4580	9993	0	0	6943	6079
5:10:00	239.4	5869	88455	0	5436	8681	0	0	6482	6413
5:20:00	249.4	5965	110980	0	8601	5410	0	0	5657	1574
5:32:00	261.4	6368	117529	0	8551	8279	0	0	5935	4850
5:40:00	269.4	5741	109585	0	5768	6224	0	0	6111	4434
5:48:00	277.4	5947	76524	0	5782	7538	0	0	6462	5843
5:60:00	289.4	5584	93819	0	6210	9066	0	0	6977	6766
5:70:00	299.4	5876	78972	0	5994	10317	0	0	7017	5543
5:86:00	315.4	6087	95194	0	5366	7569	0	0	6497	6511
5:99:00	328.4	6318	92198	0	5942	8098	0	0	6134	5501
6:10:00	339.7	6288	103958	0	6430	10250	0	0	4804	2755
6:20:00	349.7	5640	95258	0	4958	7403	0	0	6147	5539
6:30:00	359.7	5359	93103	0	6289	7948	0	0	7019	8483
6:40:00	369.7	5842	84950	0	5271	12884	0	0	6243	4328
6:51:00	380.7	6063	92576	0	7922	8401	0	0	5352	2731
6:65:00	394.7	5093	84478	0	6308	8624	0	0	7549	8575
6:75:00	404.7	5463	98447	0	5098	10913	0	0	6758	6495
7:20:00	427.2	5000	68972	0	4745	11985	0	0	9991	13523
7:40:00	447.2	5175	79197	0	3451	9531	0	0	9571	12943
7:61:00	468.2	5560	79123	0	4867	11992	0	0	7457	8777
7:76:00	483.2	4143	61534	0	4719	9498	0	0	8190	11383
7:88:00	495.2	3082	41850	0	2622	8645	0	0	9275	13302
7:97:00	504.2	3435	31240	0	1643	7875	0	0	6052	7593
8:11:00	516.9	5403	88937	0	5536	11618	0	0	7690	8328
8:20:00	525.9	4928	83906	0	4789	12082	0	0	13433	13187
8:31:00	536.9	4985	100695	0	7692	11606	0	0	9242	11123
8:45:00	550.9	3645	38306	0	2403	7021	0	0	7791	9651
8:60:00	565.9	5576	98106	0	6301	7677	0	0	6891	6581
8:70:00	575.9	5560	89023	0	7452	7906	0	0	5435	3133
8:98:00	603.9	4540	90605	0	3567	11375	0	0	6875	7906
9:10:00	614.9	5133	92587	0	7331	9128	0	0	8368	10030
9:25:00	628.4	6350	92610	0	9401	16052	0	0	5436	4874
9:41:00	641.6	5311	81777	0	4672	8890	0	0	7398	9792
9:63:00	664.5	5162	81348	0	6633	9394	0	0	8389	11170
9:80:00	680.2	4345	64497	0	4476	6034	0	0	7279	9971
9:90:00	689.6	4805	99102	0	7141	10853	0	0	6394	8039
10:08:00	704.6	4842	87617	0	5090	8827	0	0	5984	7439
11:10:00	722.4	4435	76210	0	5479	6899	0	0	9307	11864
11:20:00	731.9	4571	78265	0	5608	6810	0	0	8266	9921
11:30:00	741.9	4504	60629	0	4081	4586	0	0	5398	3849
11:40:00	751.9	4373	55805	0	3215	5368	0	0	7210	8763
11:50:00	761.9	5251	77571	0	6442	8276	0	0	7631	9716
11:65:00	776.9	5488	106045	0	8189	7958	0	0	6269	4426
11:75:00	786.9	5824	91396	0	7363	7500	0	0	7102	6655
11:97:00	808.4	6065	108925	0	7894	5645	0	0	6304	3562
12:13:00	823.2	6593	109034	0	7813	7454	0	0	5565	2197
12:30:00	840.2	5801	82368	0	5227	5867	0	0	6586	4994
12:60:50	870.7	5888	88880	0	3976	6324	0	0	5776	5962
12:84:50	894.7	5749	74739	0	3731	6016	0	0	6292	5309
13:08:00	917.2	6610	96507	0	6366	6774	0	0	6154	2717

Annexe 10: Carotte IS5 - Minéralogie de la roche totale (%)

N° Echv	Prof	Phyllo	Quartz	Fsp-K	Plagio	Calcite	Dolomite	Aragonite	Pyrite	Hématite	Indosés	ID+Phyllo	Cc/Qz
1:10:00	4.80	37.71	25.28	0.00	3.65	3.91	0.00	8.15	0.00	4.06	17.23	54.95	0.15
1:20:00	14.80	40.39	24.89	0.00	4.16	2.69	0.00	7.05	0.00	3.62	17.20	57.59	0.11
1:30:00	24.80	26.97	15.53	0.00	2.42	1.89	0.00	4.51	0.00	2.98	45.70	72.66	0.12
1:40:00	34.80	22.03	9.47	0.00	1.49	1.56	0.00	0.00	0.00	2.08	63.37	85.41	0.16
1:50:00	44.80	40.07	24.62	0.00	4.80	2.07	0.00	6.90	0.00	3.63	17.91	57.98	0.08
1:60:00	54.80	27.07	13.21	0.00	3.12	2.37	0.00	7.28	0.00	3.08	43.87	70.94	0.18
1:70:00	64.80	38.32	28.51	0.00	6.21	3.46	0.00	5.84	0.00	3.67	13.98	52.30	0.12
1:80:00	74.80	43.39	24.93	0.00	2.95	3.95	0.00	8.43	0.00	4.46	11.89	55.29	0.16
1:90:00	84.80	37.10	19.96	0.00	2.70	2.39	0.00	7.32	0.00	4.19	26.34	63.44	0.12
1:98:00	92.80	35.88	22.76	0.00	3.15	3.70	0.00	11.08	0.00	4.68	18.76	54.63	0.16
2:10:00	105.10	36.63	35.74	0.00	3.95	2.04	0.00	3.58	0.00	3.09	14.98	51.61	0.06
2:20:00	115.10	38.95	29.95	0.00	4.34	2.82	0.00	2.27	0.00	3.24	18.43	57.38	0.09
2:35:00	130.10	33.36	32.83	0.00	3.69	3.51	0.00	4.97	0.00	3.04	18.59	51.95	0.11
2:47:00	142.10	36.55	25.86	0.00	3.69	3.31	0.00	3.41	0.00	2.96	24.22	60.77	0.13
2:61:00	156.10	39.84	28.04	0.00	4.73	3.10	0.00	2.78	0.00	3.53	17.98	57.83	0.11
2:70:00	165.10	33.68	27.03	0.00	4.03	2.96	0.00	8.62	0.00	4.31	19.36	53.04	0.11
2:80:00	175.10	36.99	21.52	0.00	2.40	4.03	0.00	18.42	0.00	5.87	10.77	47.76	0.19
3:10:00	185.80	39.19	16.77	0.00	4.33	2.88	0.00	11.48	0.00	4.39	20.95	60.14	0.17
3:20:00	195.80	22.30	10.10	0.00	2.20	2.22	0.00	5.24	0.00	2.53	55.42	77.72	0.22
3:30:00	205.80	39.12	23.03	0.00	2.88	2.95	0.00	9.34	0.00	4.18	18.50	57.62	0.13
3:40:00	215.80	36.35	27.62	0.00	5.89	3.29	0.00	5.26	0.00	3.17	18.42	54.77	0.12
4:10:00	230.10	37.76	31.05	0.00	2.48	3.57	0.00	8.33	0.00	3.97	12.84	50.60	0.12
5:10:00	239.40	38.61	22.11	0.00	2.95	3.12	0.00	8.82	0.00	3.72	20.68	59.29	0.14
5:20:00	249.40	36.68	25.93	0.00	4.36	1.82	0.00	2.02	0.00	3.04	26.15	62.83	0.07
5:32:00	261.40	40.35	28.30	0.00	4.47	2.86	0.00	6.42	0.00	3.28	14.30	54.66	0.10
5:40:00	269.40	36.51	26.49	0.00	3.03	2.16	0.00	5.89	0.00	3.39	22.53	59.04	0.08
5:48:00	277.40	39.05	19.10	0.00	3.13	2.70	0.00	8.02	0.00	3.70	24.30	63.35	0.14
5:60:00	289.40	37.10	23.69	0.00	3.40	3.29	0.00	9.40	0.00	4.05	19.08	56.18	0.14
5:70:00	299.40	39.08	19.96	0.00	3.29	3.74	0.00	7.70	0.00	4.07	22.16	61.24	0.19
5:86:00	315.40	39.90	23.71	0.00	2.90	2.71	0.00	8.92	0.00	3.72	18.14	58.04	0.11
5:99:00	328.40	40.89	22.68	0.00	3.17	2.86	0.00	7.44	0.00	3.47	19.49	60.38	0.13
6:10:00	339.70	38.84	24.40	0.00	3.28	3.46	0.00	3.56	0.00	2.59	23.89	62.73	0.14
6:20:00	349.70	36.48	23.41	0.00	2.64	2.61	0.00	7.49	0.00	3.47	23.89	60.37	0.11
6:30:00	359.70	35.99	23.76	0.00	3.48	2.91	0.00	11.91	0.00	4.11	17.83	53.82	0.12
6:40:00	369.70	38.04	21.02	0.00	2.83	4.58	0.00	5.89	0.00	3.55	24.08	62.13	0.22
6:51:00	380.70	38.20	22.16	0.00	0.00	2.89	0.00	3.60	0.00	2.94	30.21	68.41	0.13
6:65:00	394.70	34.75	21.90	0.00	3.55	3.21	0.00	12.23	0.00	4.50	19.87	54.62	0.15
6:75:00	404.70	36.16	24.76	0.00	2.78	3.94	0.00	8.98	0.00	3.90	19.46	55.62	0.16
7:20:00	427.20	37.50	19.66	0.00	2.94	4.91	0.00	21.20	0.00	6.54	7.26	44.76	0.25
7:40:00	447.20	38.11	22.16	0.00	2.10	3.83	0.00	19.92	0.00	6.15	7.73	45.84	0.17
7:61:00	468.20	38.25	20.69	0.00	2.76	4.50	0.00	12.62	0.00	4.48	16.70	54.95	0.22
7:76:00	483.20	29.51	16.66	0.00	2.77	3.69	0.00	16.95	0.00	5.09	25.32	54.84	0.22
7:88:00	495.20	22.91	11.82	0.00	1.61	3.51	0.00	20.66	0.00	6.02	33.47	56.38	0.30
7:97:00	504.20	23.21	8.02	0.00	0.00	2.90	0.00	10.72	0.00	3.57	51.57	74.78	0.36
8:11:00	516.90	37.05	23.18	0.00	3.13	4.35	0.00	11.93	0.00	4.60	15.76	52.81	0.19
8:20:00	525.90	39.52	25.57	0.00	3.17	5.29	0.00	22.10	0.00	9.40	-5.04	34.48	0.21
8:31:00	536.90	35.71	27.41	0.00	4.54	4.54	0.00	16.65	0.00	5.78	5.36	41.07	0.17
8:45:00	550.90	25.66	10.25	0.00	1.40	2.70	0.00	14.20	0.00	4.79	41.02	66.68	0.26
8:60:00	565.90	36.79	24.60	0.00	3.43	2.76	0.00	9.07	0.00	3.97	19.38	56.17	0.11
8:70:00	575.90	34.90	21.23	0.00	3.86	2.71	0.00	4.11	0.00	2.98	30.22	65.11	0.13
8:98:00	603.90	30.57	23.19	0.00	1.98	4.18	0.00	11.13	0.00	4.04	24.91	55.48	0.18
9:10:00	614.90	35.84	24.56	0.00	4.22	3.48	0.00	14.63	0.00	5.10	12.16	48.00	0.14
9:25:00	628.40	40.75	22.58	0.00	4.97	5.62	0.00	6.54	0.00	3.04	16.50	57.24	0.25
9:41:00	641.60	36.54	21.38	0.00	2.65	3.34	0.00	14.08	0.00	4.44	17.58	54.11	0.16
9:63:00	664.50	36.52	21.87	0.00	3.87	3.63	0.00	16.52	0.00	5.18	12.41	48.93	0.17
9:80:00	680.20	29.93	16.88	0.00	2.54	2.27	0.00	14.35	0.00	4.38	29.66	59.58	0.13
9:90:00	689.60	31.82	24.94	0.00	3.90	3.92	0.00	11.13	0.00	3.70	20.59	52.42	0.16
10:08:00	704.60	31.78	21.86	0.00	2.76	3.16	0.00	10.21	0.00	3.43	26.81	58.59	0.14
11:10:00	722.40	32.10	20.96	0.00	3.27	2.73	0.00	17.94	0.00	5.88	17.12	49.22	0.13
11:20:00	731.90	31.94	20.78	0.00	3.23	2.60	0.00	14.49	0.00	5.04	21.93	53.87	0.12
11:30:00	741.90	28.67	14.67	0.00	2.14	1.59	0.00	5.12	0.00	3.00	44.81	73.48	0.11
11:40:00	751.90	29.94	14.52	0.00	1.82	2.01	0.00	12.54	0.00	4.31	34.86	64.81	0.14
11:50:00	761.90	36.23	20.34	0.00	3.67	3.12	0.00	14.01	0.00	4.60	18.05	54.28	0.15
11:65:00	776.90	35.07	25.75	0.00	4.32	2.78	0.00	5.91	0.00	3.50	22.67	57.75	0.11
11:75:00	786.90	38.66	23.05	0.00	4.03	2.72	0.00	9.23	0.00	4.11	18.20	56.85	0.12
11:97:00	808.40	38.38	26.20	0.00	4.12	1.95	0.00	4.71	0.00	3.48	21.16	59.54	0.07
12:13:00	823.20	40.85	25.67	0.00	3.99	2.52	0.00	2.84	0.00	3.01	21.12	61.96	0.10
12:30:00	840.20	37.81	20.40	0.00	2.81	2.09	0.00	6.80	0.00	3.75	26.35	64.16	0.10
12:60:50	870.70	37.98	21.79	0.00	2.12	2.23	0.00	8.04	0.00	3.25	24.61	62.59	0.10
12:84:50	894.70	37.51	18.53	0.00	2.01	2.14	0.00	7.24	0.00	3.58	28.99	66.50	0.12
13:08:00	917.20	41.83	23.21	0.00	3.32	2.34	0.00	3.59	0.00	3.40	22.31	64.14	0.10

Annexe 11: Carotte IS5 - Caractérisation des carbonates

Echantillon	Profondeur (cm)	Qz (100)	Shift	Cc Obs.(I)	%MgCO3	CPS	Cc Obs.(II)	%MgCO3	CPS
1:10:00	4.8	20.9056	0.0555	29.4981	1.22	204		0.00	0
1:20:00	14.8	20.8905	0.0404	29.4846	1.27	136		0.00	0
1:30:00	24.8	20.9892	0.1391	29.5885	1.44	93	29.3925	-4.95	21
1:40:00	34.8	21.0577	0.2076	29.5283	-2.75	29	29.6953	2.69	80
1:50:00	44.8	20.9385	0.0884	29.5355	1.37	102		0.00	0
1:60:00	54.8	21.0279	0.1778	29.4954	-2.85	33	29.6427	1.95	123
1:70:00	64.8	20.9178	0.0677	29.5139	1.34	186		0.00	0
1:80:00	74.8	20.7871	-0.063	29.3881	1.50	190		0.00	0
1:90:00	84.8	20.8798	0.0297	29.4583	0.77	108	29.5803	4.74	47
1:98:00	92.8	20.8858	0.0357	29.4845	1.42	182		0.00	0
2:10:00	105.1	20.9118	0.0617	29.5042	1.22	114		0.00	0
2:20:00	115.1	20.8798	0.0297	29.4802	1.48	151		0.00	0
2:35:00	130.1	20.8348	-0.0153	29.4276	1.23	185		0.00	0
2:47:00	142.1	20.8180	-0.0321	29.4153	1.38	189		0.00	0
2:61:00	156.1	20.8151	-0.035	29.4159	1.49	156		0.00	0
2:70:00	165.1	20.9375	0.0874	29.5409	1.58	148		0.00	0
2:80:00	175.1	20.8253	-0.0248	29.4409	1.98	171		0.00	0
3:10:00	185.8	20.9120	0.0619	29.5205	1.74	147		0.00	0
3:20:00	195.8	21.0528	0.2027	29.6129	0.17	95	29.7234	3.76	43
3:30:00	205.8	20.8539	0.0038	29.4512	1.38	157	29.5846	5.72	36
3:40:00	215.8	20.9034	0.0533	29.5023	1.43	175		0.00	0
4:10:00	230.1	20.8166	-0.0335	29.4105	1.27	196	29.5427	5.57	40
5:10:00	239.4	20.9185	0.0684	29.5317	1.90	155		0.00	0
5:20:00	249.4	20.8823	0.0322	29.4782	1.33	99		0.00	0
5:32:00	261.4	20.7995	-0.0506	29.3944	1.30	147		0.00	0
5:40:00	269.4	20.8601	0.01	29.4613	1.51	112		0.00	0
5:48:00	277.4	20.8651	0.015	29.4758	1.82	135		0.00	0
5:60:00	289.4	20.8314	-0.0187	29.4249	1.26	164		0.00	0
5:70:00	299.4	20.9637	0.1136	29.5633	1.45	185	29.7240	6.69	30
5:86:00	315.4	20.8983	0.0482	29.5011	1.56	140	29.6573	6.65	34
5:99:00	328.4	20.9270	0.0769	29.4982	0.53	140	29.5950	3.68	53
6:10:00	339.7	20.8225	-0.0276	29.4138	1.18	190		0.00	0
6:20:00	349.7	20.8478	-0.0023	29.4202	0.57	124	29.5291	4.11	33
6:30:00	359.7	20.8981	0.048	29.4912	1.24	146		0.00	0
6:40:00	369.7	20.8340	-0.0161	29.441	1.70	229	29.5834	6.33	53
6:51:00	380.7	20.9721	0.122	29.5491	0.72	155	29.7156	6.14	33
6:65:00	394.7	20.8204	-0.0297	29.4062	1.00	125	29.5084	4.33	83
6:75:00	404.7	20.9295	0.0794	29.5515	2.18	199		0.00	0
7:20:00	427.2	20.8344	-0.0157	29.4191	0.97	173	29.8551	15.18	35
7:40:00	447.2	20.8276	-0.0225	29.424	1.35	132	29.5537	5.57	124
7:61:00	468.2	20.8937	0.0436	29.49	1.35	218	29.6306	5.92	83
7:76:00	483.2	20.9883	0.1382	29.5985	1.80	145	29.7140	5.56	61
7:88:00	495.2	20.9968	0.1467	29.6573	3.44	158		0.00	0
7:97:00	504.2	21.0632	0.2131	29.6334	0.50	126	29.7923	5.67	33
8:11:00	516.9	20.8527	0.0026	29.4608	1.73	170	29.5818	5.67	122
8:20:00	525.9	20.7836	-0.0665	29.4216	2.71	215	29.5792	7.84	46
8:31:00	536.9	20.9124	0.0623	29.5053	1.24	209	29.6411	5.66	92
8:45:00	550.9	20.9471	0.097	29.4755	-0.87	40	29.6318	4.22	122
8:60:00	565.9	20.8779	0.0278	29.4646	1.03	128	29.5794	4.77	53
8:70:00	575.9	20.8543	0.0042	29.3932	-0.52	78	29.4935	2.74	121
8:98:00	603.9	20.9335	0.0834	29.5589	2.29	131	29.6354	4.78	87
9:10:00	614.9	20.8831	0.033	29.4623	0.79	122	29.5741	4.43	137
9:25:00	628.4	20.8124	-0.0377	29.4016	1.11	275	29.5613	6.32	66
9:41:00	641.6	20.9061	0.056	29.4715	0.34	91	29.6175	5.09	144
9:63:00	664.5	20.9026	0.0525	29.5114	1.75	142	29.6226	5.37	76
9:80:00	680.2	20.9388	0.0887	29.558	2.09	114		0.00	0
9:90:00	689.6	20.8617	0.0116	29.480	2.07	159	29.6001	5.97	101
10:08:00	704.6	20.8450	-0.0051	29.450	1.61	163		0.00	0
11:10:00	722.4	20.8968	0.0467	29.489	1.20	126		0.00	0
11:20:00	731.9	20.9125	0.0624	29.491	0.76	121	29.5819	3.72	43
11:30:00	741.9	20.9265	0.0764	29.455	-0.86	42	29.5741	3.01	63
11:40:00	751.9	20.9490	0.0989	29.546	1.38	103		0.00	0
11:50:00	761.9	20.8754	0.0253	29.477	1.53	140	29.6177	6.10	104
11:65:00	776.9	20.8047	-0.0454	29.403	1.41	147		0.00	0
11:75:00	786.9	20.8403	-0.0098	29.419	0.77	139	29.5457	4.90	30
11:97:00	808.4	20.8404	-0.0097	29.418	0.73	110	29.5122	3.80	57
12:13:00	823.2	20.9327	0.0826	29.521	1.07	138		0.00	0
12:30:00	840.2	20.9368	0.0867	29.535	1.39	108		0.00	0
12:60:50	870.7	20.8415	-0.0086	29.419	0.75	126	29.5525	5.08	66
12:84:50	894.7	20.9177	0.0676	29.508	1.13	120	29.6254	4.97	29
13:08:00	917.2	20.8046	-0.0455	29.395	1.15	124		0.00	0

Annexe 12: Carotte IS5 - fraction 2-16µm

Sec.cm	Prof.cm	M001	M002	M004	M005	C001	C2/K1	C003	C004	K002	QTZ	FK	ALB	Hématite	KOO1	2 Chl 4 CPM	%Micas	%Chlorite	%Kaolinite	
1:10:00	4.8	18258	9733	4418	11619	5464	13288	5327	11720	2820	27368	2719	16880		6152	4260	6180	53.13	38.67	8.21
1:20:00	14.8	17172	9279	4032	11254	4013	11074	3916	9684	1980	27968	2368	20172		4921	3780	5100	56.81	36.64	6.55
1:30:00	24.8	18520	10570	4104	11326	4028	10807	4175	9045	3240	29404	2389	23270		3436	3420	8580	56.87	33.18	9.95
1:40:00	34.8	18259	9748	5004	12480	3717	11149	3586	9503	3000	30090	2629	21619		4959	2340	7800	56.34	34.40	9.26
1:50:00	44.8	18165	10828	4346	12625	3955	11104	3876	9872	3120	26820	3226	19807		3899	2220	8640	56.08	34.28	9.63
1:60:00	54.8	17045	10288	4327	11530	3442	10322	4176	9467	0	28960	2538	22360		4398	2040	5040	62.28	37.72	0.00
1:70:00	64.8	20713	13513	3987	12555	4490	12435	3993	9825	2400	26506	3815	21569		3217	4920	6120	58.27	34.98	6.75
1:80:00	74.8	19035	12244	3297	11058	4223	11549	4524	9332	1500	26397	2477	23722		2860	2280	5340	59.33	36.00	4.68
1:90:00	84.8	24315	13254	2850	10134	4273	12586	4167	8480	3060	22181	3286	20282		2521		6960	60.85	31.50	7.66
1:98:00	92.8	17700	11060	4257	9677	3998	10393	3578	8490	1860	25862	2548	23231		4053		0	59.09	34.70	6.21
2:10:00	105.1	19557	10141	4594	11962	4431	12916	4816	10632	2400	29519	2348	23294		5896		0	56.08	37.04	6.88
2:20:00	115.1	16614	9303	4388	10762	4371	10786	3912	10786	3360	29776	2739	22226		5409	6240	5340	54.01	35.07	10.92
2:35:00	130.1	28123	18031	4785	14111	6115	16059	5363	11870	3420	30143	3044	22304		4013	6060	10260	59.08	33.74	7.18
2:47:00	142.1	37526	21093	3551	16958	7095	20290	5750	12793	3720	27628	4765	28894		4056	6900	11400	60.98	32.97	6.05
2:61:00	156.1	27948	17955	4286	14729	7315	18753	6537	14253	4320	32753	2632	26273		5737	4740	9540	54.78	36.76	8.47
2:70:00	165.1	27279	17597	4445	16260	7756	19863	6776	13977	4200	30137	2717	24409		4950	3180	10200	53.13	38.69	8.18
2:80:00	175.1	26082	17665	4711	13134	7142	17304	6152	11974	3600	30456	2935	23425		5154	4680	10200	55.51	36.83	7.66
3:10:00	185.8	26870	18878	4537	16327	7005	18333	6269	13763	3840	32277	4609	28407		4454	9840	10440	54.79	37.38	7.83
3:20:00	195.8	25306	16412	4147	14615	6390	15503	5762	12417	3240	26615	3639	17345		4458	2940	6600	57.45	35.19	7.36
3:30:00	205.8	24516	16489	4853	15176	7418	18250	6692	13979	3780	29475	2888	24935		6022	3900	9420	52.67	39.21	8.12
3:40:00	215.8	20277	15610	4452	13866	5303	15174	5514	12636	2880	29585	4200	24666		5268	4320	6780	53.45	39.13	7.43
4:10:00	230.1	22601	14585	5228	12771	7491	18192	7545	14268	5280	28536	3257	20770		6947	7920	7500	49.05	39.49	11.46
5:10:00	239.4	22739	14995	4938	13294	6567	16069	5394	11698	4260	31346	3253	22919		4885	3360	9060	52.80	37.31	9.89
5:20:00	249.4	19739	13782	5570	14257	4666	15037	5667	13511	3600	30894	2625	22497		6114	3600	6840	51.44	39.18	9.38
5:32:00	261.4	30085	18684	4352	16606	6043	16132	5225	12458	3360	31142	3050	21944		4541	3840	10560	60.68	32.54	6.78
5:40:00	269.4	21590	16317	5228	17293	6039	14171	5916	13367	4140	34849	3713	21933		4801	3720	9180	54.11	35.52	10.38
5:48:00	277.4	27538	19580	4477	18224	6692	16898	6673	13457	2760	34563	3918	24518		4286	3660	7680	58.35	35.80	5.85
5:60:00	289.4	24549	1303	5172	14992	6374	15904	6251	12792	3840	35028	2658	25551		5312	5100	9420	55.42	35.91	8.67
5:70:00	299.4	28740	17445	3684	13043	5858	16108	5843	11746	2820	31306	3562	21619		3808	5220	7560	60.29	33.79	5.92
5:86:00	315.4	24943	16871	4587	14404	5675	15080	4864	12832	2280	33419	4067	23286		4478	7560	6600	58.96	35.65	5.39
5:99:00	328.4	21484	13761	3322	14533	4937	12092	4664	11090	2100	31413	4054	21963		4275	2940	7680	60.22	33.89	5.89
6:10:00	339.7	27038	16592	3668	13578	4553	12933	3983	9835	1800	23890	3238	16811		2730	5460	5400	64.73	30.96	4.31
6:20:00	349.7	22703	15429	3190	14985	4822	12674	4195	11024	1200	26833	3301	21612		3880	4860	7140	62.07	34.65	3.28
6:30:00	359.7	22192	14313	2983	11609	4167	12769	4661	9817	2580	25626	3838	24222		3729	4920	7500	59.11	34.01	6.87
6:40:00	369.7	21213	12769	4135	12320	5136	13602	4855	10497	2580	26903	3964	20693		3319	2640	8640	56.73	36.37	6.90
6:51:00	380.7	19278	13311	4805	12759	5043	14075	5737	12985	3660	31521	3338	27307		4920	7440	5820	52.08	38.03	9.89
6:65:00	394.7	23723	16485	5277	13268	6164	17848	6157	12079	3120	26772	3736	25191		3644	6900	6540	53.08	39.94	6.98
7:20:00	427.2	18779	12086	3805	10210	5242	12086	4811	9536	2820	21297	4310	24214		3918	7320	8220	55.75	35.88	8.37
7:40:00	447.2	19670	13515	4041	14229	5531	16218	5546	13414	3240	26087	3976	29063		4804	5940	8400	50.27	41.45	8.28
7:61:00	468.2	30263	15768	3060	13383	5534	16304	5422	10720	3240	18700	3041	19189		2630	9240	6000	60.76	32.73	6.51
7:76:00	483.2	22501	13670	3412	10577	4426	14505	5098	10215	2520	21808	2515	18213		3002	5520	6360	56.93	36.70	6.38
7:88:00	495.2	21071	11540	3803	9623	5118	12836	4110	9009	1800	18293	3435	21939		4149	4200	8820	59.01	35.95	5.04
7:97:00	504.2	17354	7775	2845	4411	5238	12495	3742	8126	3240	16891	1484	7159		1393	3720	3180	52.45	37.76	9.79
8:11:00	516.9	21299	13139	4137	11142	5392	14239	4506	10865	2580	22927	2831	21616		3758	9360	8580	55.88	37.36	6.77
8:20:00	525.9	18497	10345	3812	10035	5047	13488	5229	9800	3780	20557	3017	19858		4122	4080	7020	51.72	37.71	10.57
8:31:00	536.9	24460	14534	3270	10318	4975	15820	5347	10933	2340	19482	1715	17525		3410	6180	7560	57.39	37.12	5.49
8:45:00	550.9	21400	12599	3877	11656	4900	14890	5483	11945	3900	20196	2273	17112		4314	3960	6420	53.25	37.05	9.70
8:60:00	565.9	22826	13704	4054	11602	5284	16047	5936	10848	3480	22558	3270	20184		5003	3900	8100	53.89	37.89	8.22
8:70:00	575.9	21113	13770	5258	12584	5221	14639	5635	11808	2820	25317	2892	20935		5017	3300	3660	54.74	37.95	7.31
8:98:00	603.9	25872	16567	4033	14661	6355	18780	6371	14208	3420	28359	3452	31203		4268	6240	7740	53.82	39.07	7.11
9:10:00	614.9	26110	13886	3846	15387	5805	17716	6955	12880	3120	24570	3090	28607		5116	3720	8040	55.62	37.74	6.65
9:25:00	628.4	21376	14004	4787	13963	4085	11774	4008	10240	3480	28074	3649	20108		3023	6540	7560	58.36	32.14	9.50
9:41:00	641.6	23980	13336	3608	10748	6285	15896	6022	11483	2640	21146	1960	17217		4736	4080	7500	56.40	37.39	6.21
9:63:00	664.5	21384	14408	3629	11973	5267	14301	5282	10531	3000	23966	3235	22801		3901	4920	6720	55.28	36.97	7.75
9:80:00	680.2	15354	12443	4440	14535	3537	12577	5967	11697	3360	22727	2765	19889		4628	7620	3720	49.07	40.19	10.74
9:90:00	689.6	25311	15101	3739	13109	5489	15317	6131	11742	2220	25779	2778	22064		3980	5460	7380	59.07	35.75	5.18
10:08:00	704.6	23042	14755	4581	13794	5623	15177	5318	12314	1800	28593	2822	22043		4274	2640	6840	57.58	37.92	4.50
11:10:00	722.4	17780	13445	3399	12496	3781	13266	5222	10059	3960	22698	3066	17823		4055	3900	9180	50.79	37.90	11.31
11:20:00	731.9	23273	14536	4151	12957	5448	14460	5136	11599	4740	22447	2499	18309		4149	2820	7020	54.79	34.05	11.16
11:30:00	741.9	19651	12729	5002	11439	4722	12862	3758	10239	2880	23910	2854	15435		4358	1980	7860	55.52	36.34	8.14
11:40:00	751.9																			

Annexe 13: Carotte IS5 - Fraction <2µm

Sec.cm	Prof.cm	<2 Normal										<2 Glycolé					<2 Glycolé				
		LS 2N	MOO1	MOO2	MOOS	COO1	C2/K1	COO3	COO4	Quartz	Hématite	M001(2G)	IS002(2G)	CHL2(2G)	KAOL1(2G)	C/S2(2G)	M001%	IS002%	Ch002%	Kaol001%	C/S002%
1:10:00	4.8	0.656	28939	18190	15425	6337	13752	9594	15572	0	7471	22140	6480	12360	1920	1500	49.86	14.59	27.84	4.32	3.38
1:20:00	14.8	0.685	45593	20471	12562	9815	16935	14994	0	6270	31740	9120	15660	4260	3180	49.62	14.26	24.48	6.66	4.97	
1:30:00	24.8	0.633	34134	13018	7930	7177	12700	6720	10018	2261	6742	23520	7260	10920	5220	1740	48.34	14.92	22.44	10.73	3.58
1:40:00	34.8	0.679	46559	21936	15209	8663	17479	10788	16110	0	5504	28200	6540	14340	5040	1800	50.43	11.70	25.64	9.01	3.22
1:50:00	44.8	0.692	42410	19301	12575	7972	16006	10207	14774	0	6202	29040	8460	15660	3060	1380	50.42	14.69	27.19	5.31	2.40
1:60:00	54.8	0.664	34496	16317	11090	6936	14253	8294	12716	0	6711	24300	4080	13860	4560	1200	50.63	8.50	28.88	9.50	2.50
1:70:00	64.8	0.611	53737	19589	11280	8157	18455	9243	13208	2433	4270	35220	7800	17580	6540	2040	50.91	11.27	25.41	9.45	2.95
1:80:00	74.8	0.619	40009	14780	7896	6810	15170	7728	11193	2502	5707	26220	6480	13620	5100	2760	48.39	11.96	25.14	9.41	5.09
1:90:00	84.8	0.553	52997	17446	9374	8515	18086	8070	11376	2823	3889	36420	5880	16260	4200	3360	55.08	8.89	24.59	6.35	5.08
1:98:00	92.8	0.545	56560	19773	10657	8039	18762	9014	13667	3026	4299	35580	7080	15840	6900	1500	53.18	10.58	23.68	10.31	2.24
2:10:00	105.1	0.529	51083	24982	14589	10368	23074	13211	19615	2753	5642										
2:20:00	115.1	0.574	52055	17670	9552	7563	17136	7451	12083	2665	3929	31320	7140	18000	4260	1680	50.19	11.44	28.85	6.83	2.69
2:35:00	130.1	0.619	29929	11440	5371	7594	12693	4812	7874	2156	5244	19500	4440	6540	5400	2820	50.39	11.47	16.90	13.95	7.29
2:47:00	142.1	0.545	20823	9693	5653	5042	10937	4237	7625	3370	4590	19620	4380	10980	4800	2400	46.51	10.38	26.03	11.38	5.69
2:61:00	156.1	0.633	34149	13034	6248	8493	13623	5818	9354	3331	5752	25080	4980	11640	5580	1980	50.91	10.11	23.63	11.33	4.02
2:70:00	165.1	0.648	29064	14646	8067	9694	14596	7291	11786	3003	7692	26060	3120	13620	4980	2400	46.11	10.97	30.43	11.13	5.36
2:80:00	175.1	0.626	28118	11667	6007	8770	14876	6239	8463	3076	5681	21960	4500	10320	5820	2520	48.67	9.97	22.87	12.90	5.59
3:10:00	185.8	0.59	27341	13491	7953	8917	14103	6833	10026	4058	6740	23220	5700	13920	4320	2520	46.74	11.47	28.02	8.70	5.07
3:20:00	195.8	0.605	27445	12467	6373	8033	14325	6182	9489	3936	6424	19980	4740	8700	6180	1980	48.05	11.40	20.92	14.86	4.76
3:30:00	205.8	0.552	24828	11138	5371	9214	14273	7271	8496	4022	4948	18180	3900	12480	2220	2160	46.69	10.02	32.05	5.70	5.55
3:40:00	215.8	0.641	26303	13057	6982	7511	12673	6688	9501	3197	6152	19740	4800	10140	3660	2220	48.67	11.83	25.00	9.02	5.47
4:10:00	230.1	0.64	33615	14934	8990	11503	16776	8047	11558	3684	6631	20040	5040	9540	3900	3180	48.06	12.09	22.88	9.35	7.63
5:10:00	239.4	0.618	29513	12603	7470	7563	13863	5850	9127	3434	6918	21060	3480	11100	1980	1920	53.26	8.80	28.07	5.01	4.86
5:20:00	249.4	0.64	38561	15155	9542	8431	16221	7013	11227	3327	7931	26760	4500	12960	6300	1800	51.15	8.60	24.77	12.04	3.44
5:32:00	261.4	0.611	31138	10908	6470	6317	11454	4716	8419	3864	6519	21360	4620	9120	4980	2400	50.28	10.88	21.47	11.72	5.65
5:40:00	269.4	0.638	58107	21307	12192	9725	18279	10394	14525	2572	5493	42840	7200	19440	3960	1740	56.98	9.58	25.86	5.27	2.31
5:48:00	277.4	0.633	36947	15041	8074	8551	14707	7196	10033	3755	6308	27120	5040	13140	4680	2040	52.13	9.69	25.26	9.00	3.92
5:60:00	289.4	0.597	46067	16167	7112	9814	16469	7157	10463	2771	5533	31860	5400	13860	6720	2400	53.42	9.05	22.23	11.27	4.02
5:70:00	299.4	0.582	41069	15905	7804	7663	16634	7597	11417	2704	5485	36360	9000	15300	5280	2160	53.39	13.22	22.47	7.75	3.17
5:86:00	315.4	0.648	45867	16595	8506	8204	16663	7750	12083	2531	5501	26100	8160	16320	2040	2040	46.42	14.51	29.03	6.40	3.63
5:99:00	328.4	0.745	42290	19406	10357	13824	18898	9073	12410	2997	4567	26040	6000	14760	2400	1920	50.94	11.74	28.87	4.69	3.76
6:10:00	339.7	0.531	20748	8025	5570	5711	8828	3090	6518	4084	4018	11700	3000	6720	3960	1200	44.02	11.29	25.28	14.90	4.51
6:20:00	349.7	0.648	22806	10514	6477	6454	11262	4763	8480	3697	4688	16980	3060	7620	7260	2040	45.94	8.28	20.62	19.64	5.52
6:30:00	359.7	0.603	26621	9290	4503	6084	10396	4234	6381	2733	3511	12180	2820	5700	1860	1020	51.65	11.96	24.17	7.89	4.33
6:40:00	369.7	0.56	25495	9841	5625	7072	12686	4911	8047	3661	4427	15120	5400	10740	4560	1260	40.78	14.56	28.96	12.30	3.40
6:51:00	380.7	0.618	48715	18079	8996	11591	21264	9191	13227	3259	4190	34440	5760	16440	10020	2280	49.96	8.36	23.85	14.53	3.31
6:65:00	394.7	0.516	21647	7849	4214	6409	11655	4377	6425	2369	4219	15120	2220	9540	3540	780	48.46	7.12	30.58	11.35	2.50
6:75:00	404.7											0	0	0	0	0					
7:20:00	427.2	0.508	20510	7358	3685	5828	10374	3331	6571	2529	4037	15120	2760	9660	1620	1500	49.32	9.00	31.51	5.28	4.89
7:40:00	447.2	0.575	26970	11662	6360	6369	14161	6296	10248	3681	6860	19680	3900	10320	5400	1200	48.59	9.63	25.48	13.33	2.96
7:61:00	468.2	0.56	25182	9411	5431	6297	12177	4509	7138	3086	3621	14640	2340	9900	3900	2640	43.81	7.00	29.62	11.67	7.90
7:76:00	483.2	0.581	25309	10555	5661	7048	13134	5241	8718	3715	4220	18000	2760	12480	3780	1200	47.10	7.22	32.65	9.89	3.14
7:88:00	495.2	0.537	25073	8678	5046	6051	8678	4153	7134	2677	3821	15540	2100	11100	3180	1020	47.18	6.38	33.70	9.65	3.10
7:97:00	504.2	0.493	21577	6731	3903	7003	11687	3965	6125	2587	2643	15000	3180	8460	5580	2460	43.25	9.17	24.39	16.09	7.09
8:11:00	516.9	0.516	30870	9651	4612	7699	15186	5755	21091	2177	3109	22080	3660	12480	6180	3540	46.06	7.63	26.03	12.89	7.38
8:20:00	525.9	0.553	29071	9579	4757	7790	14333	5136	7780	2343	3061	24840	4200	10080	7440	960	52.27	8.84	21.21	15.66	2.02
8:31:00	536.9	0.471	23597	7670	3857	6596	10502	4080	6295	2149	3857	17160	4680	8880	6060	1440	44.90	12.24	23.23	15.86	3.77
8:45:00	550.9	0.568	23962	9019	4882	7143	12444	5554	7243	2976	4655	17520	3780	12300	2700	1380	46.50	10.03	32.64	7.17	3.66
8:60:00	565.9	0.53	24422	10809	5758	7086	12961	5519	9045	3812	5053	16680	3720	11040	5640	1680	43.03	9.60	28.48	14.55	4.33
8:70:00	575.9	0.57	27558	1952	5799	7619	14541	7095	8649	3166	5505	18660	5340	12000	4800	900	44.75	12.81	28.78	11.51	2.16
8:98:00	603.9	0.588	38121	12810	6712	9817	7048	10156	2865	3712	5280	2820	13800	6720	1140	52.94	5.42	26.53	12.92	2.19	
9:10:00	614.9	0.523	41586	13924	6586	10475	18041	6528	10014	2690	3053	29700	6120	14220	4500	1860	52.66	10.85	25.21	7.98	3.30
9:25:00	628.4	0.626	33065	13678	6300	8442	14205	5644	9602	3016	4119	26340	4680	11160	5700	3540	51.23	9.10	21.70	11.09	6.88
9:41:00	641.6	0.507	28092	9621	5776	6559	12758	4358	7857	2559	2945	21900	3480	11640	6660	2640	47.28	7.51	25.13	14.38	5.70
9:63:00	664.5	0.553	44926	16328	8139	10078	20099	7886	11249	2471	4517	28980	5400	14280	7260	2400	49.69	9.26	24.49	12.45	5.12
9:80:00	680.2	0.611	46144	16506	9960	9354	19035	8803	12440	3057	5346	33000	5760	17340	4500	2100	52.63	9.19	27.66	7.18	3.35
9:90:00	689.6	0.574	33290	12163	7661	6953	13945	6289													

Annexe 13: Carotte IS5 - Fraction <2µm

Sec.cm	Prof.cm	<2 Normal										<2 Glycolé					<2 Glycolé				
		LS 2N	MOO1	MOO2	MOOS	COO1	C2/K1	COO3	COO4	Quartz	Hématite	M001(2G)	IS002(2G)	CHL2(2G)	KAOL1(2G)	C/S2(2G)	M001%	IS002%	Ch002%	Kaol001%	C/S002%
1:10:00	4.8	0.656	28939	18190	15425	6337	13752	9594	15572	0	7471	22140	6480	12360	1920	1500	49.86	14.59	27.84	4.32	3.38
1:20:00	14.8	0.685	45593	20471	12562	9815	16935	14994	0	6270	31740	9120	15660	4260	3180	49.62	14.26	24.48	6.66	4.97	
1:30:00	24.8	0.633	34134	13018	7930	7177	12700	6720	10018	2261	6742	23520	7260	10920	5220	1740	48.34	14.92	22.44	10.73	3.58
1:40:00	34.8	0.679	46559	21936	15209	8663	17479	10788	16110	0	5504	28200	6540	14340	5040	1800	50.43	11.70	25.64	9.01	3.22
1:50:00	44.8	0.692	42410	19301	12575	7972	16006	10207	14774	0	6202	29040	8460	15660	3060	1380	50.42	14.69	27.19	5.31	2.40
1:60:00	54.8	0.664	34496	16317	11090	6936	14253	8294	12716	0	6711	24300	4080	13860	4560	1200	50.63	8.50	28.88	9.50	2.50
1:70:00	64.8	0.611	53737	19589	11280	8157	18455	9243	13208	2433	4270	35220	7800	17580	6540	2040	50.91	11.27	25.41	9.45	2.95
1:80:00	74.8	0.619	40009	14780	7896	6810	15170	7728	11193	2502	5707	26220	6480	13620	5100	2760	48.39	11.96	25.14	9.41	5.09
1:90:00	84.8	0.553	52997	17446	9374	8515	18086	8070	11376	2823	3889	36420	5880	16260	4200	3360	55.08	8.89	24.59	6.35	5.08
1:98:00	92.8	0.545	56560	19773	10657	8039	18762	9014	13667	3026	4299	35580	7080	15840	6900	1500	53.18	10.58	23.68	10.31	2.24
2:10:00	105.1	0.529	51083	24982	14589	10368	23074	13211	19615	2753	5642										
2:20:00	115.1	0.574	52055	17670	9552	7563	17136	7451	12083	2665	3929	31320	7140	18000	4260	1680	50.19	11.44	28.85	6.83	2.69
2:35:00	130.1	0.619	29929	11440	5371	7594	12693	4812	7874	2156	5244	19500	4440	6540	5400	2820	50.39	11.47	16.90	13.95	7.29
2:47:00	142.1	0.545	20823	9693	5653	5042	10937	4237	7625	3370	4590	19620	4380	10980	4800	2400	46.51	10.38	26.03	11.38	5.69
2:61:00	156.1	0.633	34149	13034	6248	8493	13623	5818	9354	3331	5752	25080	4980	11640	5580	1980	50.91	10.11	23.63	11.33	4.02
2:70:00	165.1	0.648	29064	14646	8067	9694	14596	7291	11786	3003	7692	26060	3120	13620	4980	2400	46.11	10.97	30.43	11.13	5.36
2:80:00	175.1	0.626	28118	11667	6007	8770	14876	6239	8463	3076	5681	21960	4500	10320	5820	2520	48.67	9.97	22.87	12.90	5.59
3:10:00	185.8	0.59	27341	13491	7953	8917	14103	6833	10026	4058	6740	23220	5700	13920	4320	2520	46.74	11.47	28.02	8.70	5.07
3:20:00	195.8	0.605	27445	12467	6373	8033	14325	6182	9489	3936	6424	19980	4740	8700	6180	1980	48.05	11.40	20.92	14.86	4.76
3:30:00	205.8	0.552	24828	11138	5371	9214	14273	7271	8496	4022	4948	18180	3900	12480	2220	2160	46.69	10.02	32.05	5.70	5.55
3:40:00	215.8	0.641	26303	13057	6982	7511	12673	6688	9501	3197	6152	19740	4800	10140	3660	2220	48.67	11.83	25.00	9.02	5.47
4:10:00	230.1	0.64	33615	14934	8990	11503	16776	8047	11558	3684	6631	20040	5040	9540	3900	3180	48.06	12.09	22.88	9.35	7.63
5:10:00	239.4	0.618	29513	12603	7470	7563	13863	5850	9127	3434	6918	21060	3480	11100	1980	1920	53.26	8.80	28.07	5.01	4.86
5:20:00	249.4	0.64	38561	15155	9542	8431	16221	7013	11227	3327	7931	26760	4500	12960	6300	1800	51.15	8.60	24.77	12.04	3.44
5:32:00	261.4	0.611	31138	10908	6470	6317	11454	4716	8419	3864	6519	21360	4620	9120	4980	2400	50.28	10.88	21.47	11.72	5.65
5:40:00	269.4	0.638	58107	21307	12192	9725	18279	10394	14525	2572	5493	42840	7200	19440	3960	1740	56.98	9.58	25.86	5.27	2.31
5:48:00	277.4	0.633	36947	15041	8074	8551	14707	7196	10033	3755	6308	27120	5040	13140	4680	2040	52.13	9.69	25.26	9.00	3.92
5:60:00	289.4	0.597	46067	16167	7112	9814	16469	7157	10463	2771	5533	31860	5400	13860	6720	2400	53.42	9.05	22.23	11.27	4.02
5:70:00	299.4	0.582	41069	15905	7804	7663	16634	7597	11417	2704	5485	36360	9000	15300	5280	2160	53.39	13.22	22.47	7.75	3.17
5:86:00	315.4	0.648	45867	16595	8506	8204	16663	7750	12083	2531	5501	26100	8160	16320	2040	4642	14.51	29.03	6.40	3.63	
5:99:00	328.4	0.745	42290	19406	10357	13824	18898	9073	12410	2997	4567	26040	6000	14760	2400	1920	50.94	11.74	28.87	4.69	3.76
6:10:00	339.7	0.531	20748	8025	5570	5711	8828	3090	6518	4084	4018	11700	3000	6720	3960	1200	44.02	11.29	25.28	14.90	4.51
6:20:00	349.7	0.648	22806	10514	6477	6454	11262	4763	8480	3697	4688	16980	3060	7620	7260	2040	45.94	8.28	20.62	19.64	5.52
6:30:00	359.7	0.603	26621	9290	4503	6084	10396	4234	6381	2733	3511	12180	2820	5700	1860	1020	51.65	11.96	24.17	7.89	4.33
6:40:00	369.7	0.56	25495	9841	5625	7072	12686	4911	8047	3661	4427	15120	5400	10740	4560	1260	40.78	14.56	28.96	12.30	3.40
6:51:00	380.7	0.618	48715	18079	8996	11591	21264	9191	13227	3259	4190	34440	5760	16440	10020	2280	49.96	8.36	23.85	14.53	3.31
6:65:00	394.7	0.516	21647	7849	4214	6409	11655	4377	6425	2369	4219	15120	2220	9540	3540	780	48.46	7.12	30.58	11.35	2.50
6:75:00	404.7											0	0	0	0	0					
7:20:00	427.2	0.508	20510	7358	3685	5828	10374	3331	6571	2529	4037	15120	2760	9660	1620	1500	49.32	9.00	31.51	5.28	4.89
7:40:00	447.2	0.575	26970	11662	6360	6369	14161	6296	10248	3681	6860	19680	3900	10320	5400	1200	48.59	9.63	25.48	13.33	2.96
7:61:00	468.2	0.56	25182	9411	5431	6297	12177	4509	7138	3086	3621	14640	2340	9900	3900	2640	43.81	7.00	29.62	11.67	7.90
7:76:00	483.2	0.581	25309	10555	5661	7048	13134	5241	8718	3715	4220	18000	2760	12480	3780	1200	47.10	7.22	32.65	9.89	3.14
7:88:00	495.2	0.537	25073	8678	5046	6051	8678	4153	7134	2677	3821	15540	2100	11100	3180	1020	47.18	6.38	33.70	9.65	3.10
7:97:00	504.2	0.493	21577	6731	3903	7003	11687	3965	6125	2587	2643	15000	3180	8460	5580	2460	43.25	9.17	24.39	16.09	7.09
8:11:00	516.9	0.516	30870	9651	4612	7699	15186	5755	21091	2177	3109	22080	3660	12480	6180	3540	46.06	7.63	26.03	12.89	7.38
8:20:00	525.9	0.553	29071	9579	4757	7790	14333	5136	7780	2343	3061	24840	4200	10080	7440	960	52.27	8.84	21.21	15.66	2.02
8:31:00	536.9	0.471	23597	7670	3857	6596	10502	4080	6295	2149	3857	17160	4680	8880	6060	1440	44.90	12.24	23.23	15.86	3.77
8:45:00	550.9	0.568	23962	9019	4882	7143	12444	5554	7243	2976	4655	17520	3780	12300	2700	1380	46.50	10.03	32.64	7.17	3.66
8:60:00	565.9	0.53	24422	10809	5758	7086	12961	5519	9045	3812	5053	16680	3720	11040	5640	1680	43.03	9.60	28.48	14.55	4.33
8:70:00	575.9	0.57	27558	1952	5799	7619	14541	7095	8649	3166	5505	18660	5340	12000	4800	900	44.75	12.81	28.78	11.51	2.16
8:98:00	603.9	0.588	38121	12810	6712	9817	7048	10156	2865	3712	5280	2820	13800	6720	1140	52.94	5.42	26.53	12.92	2.19	
9:10:00	614.9	0.523	41586	13924	6586	10475	18041	6528	10014	2690	3053	29700	6120	14220	4500	1860	52.66	10.85	25.21	7.98	3.30
9:25:00	628.4	0.626	33065	13678	6300	8442	14205	5644	9602	3016	4119	26340	4680	11160	5700	3540	51.23	9.10	21.70	11.09	6.88
9:41:00	641.6	0.507	28092	9621	5776	6559	12758	4358	7857	2559	2945	21900	3480	11640	6660	2640	47.28	7.51	25.13	14.38	5.70
9:63:00	664.5	0.553	44926	16328	8139	10078	20099	7886	11249	2471	4517	28980	5400	14280	7260	2400	49.69	9.26	24.49	12.45	5.12
9:80:00	680.2	0.611	46144	16506	9960	9354	19035	8803	12440	3057	5346	33000	5760	17340	4500	2100	52.63	9.19	27.66	7.18	3.35
9:90:00	689.6	0.574	33290	12163	7661	6953	13945	6289	10190												

Annexe 14: Carotte IS6 - minéralogie de la roche totale

Filename	Depth	Phyllo	Qz	FK	PL	Cc	Dol	Py	Hm	Ara
IS6001RT	1.8	4288	77393	0	5332	4019	1187	0	4573	2210
IS6013RT	13.8	3368	67940	0	3276	3944	0	0	5017	5321
IS6024RT	24.8	3655	56473	0	3586	3538	0	0	5169	5583
IS6035RT	35.8	3879	62411	0	3024	2596	0	0	5953	5332
IS6045RT	45.8	3828	55400	0	5140	2766	0	0	5494	5770
IS6055RT	55.8	4144	59354	0	3782	5166	0	0	5329	6109
IS6073RT	73.8	3851	58502	0	3537	3881	0	0	5272	5415
IS6005RT	66.4	4388	69557	0	6366	3638	0	0	4685	3997
IS6015RT	76.4	4343	54690	0	5001	6796	1017	0	6621	8159
IS6025RT	86.4	2945	34729	0	2715	7406	0	0	6228	9666
IS6037RT	98.4	3971	67830	2033	5315	4562	0	0	5044	7010
IS6047RT	108.4	3873	82034	0	6018	6456	0	0	4187	6080
IS6062RT	123.4	3729	61399	0	3697	4765	4012	0	5141	6768
IS6075RT	136.4	3777	54351	0	3507	5104	1238	0	6008	9483
IS6086RT	147.4	5542	95523	0	6726	9125	0	0	7853	12040
IS6109RT	169.7	3932	81025	0	4176	7266	5340	0	4612	5366
IS6117RT	177.7	4075	72145	0	4029	4697	0	0	5039	4766
IS6129RT	189.7	4058	55629	0	3378	4911	1077	0	6730	8053
IS6146RT	206.7	3773	71313	0	3783	4299	1122	0	6131	7976
IS6164RT	224.7	3644	44008	0	4021	3725	1134	0	5214	7185
IS6178RT	238.7	4191	57948	0	3975	3528	0	0	5920	5637
IS6193RT	253.7	4528	59781	0	3021	3682	0	0	5317	3898
IS6205RT	266.3	4114	59721	0	3982	3946	0	0	5074	3775
IS6219RT	280.1	4635	57927	1116	3495	7054	1096	0	4033	0
IS6234RT	295.1	4263	74872	0	5355	8493	1297	0	4144	0
IS6250RT	311.1	4218	70742	0	4494	10761	0	0	3466	0
IS6267RT	328.1	4263	74872	0	5355	8493	0	0	4144	0
IS6280RT	341.1	3922	6928*	0	6313	8998	0	0	3483	0
IS6289RT	350.1	3990	81207	0	7279	12354	0	0	3865	0
IS6303RT	364.1	4651	82331	0	5595	6290	1766	0	3613	0
IS6322RT	383.2	5161	53546	0	3720	0?	1260	0	4687	0
IS6334RT	395.2	3839	112578	0	11159	18891	0	0	3504	0
IS6349RT	410.2	3997	80704	0	7423	30910	0	0	2779	0
IS6363RT	424.2	3651	81229	0	6213	20653	0	0	2961	0
IS6378RT	439.2	3799	114728	0	8665	20358	0	0	3030	0
IS6388RT	449.2	4922	72531	0	4909	2285	0	0	4150	0
IS6406RT	467.2	4011	84783	0	5318	24483	0	0	3219	0
IS6423RT	484.1	4432	60876	0	5569	1187	0	0	4043	0
IS6439RT	500.1	4802	78150	0	4050	11542	0	0	4016	0
IS6456RT	517.1	4098	93674	0	5219	17026	0	0	3704	0
IS6474RT	535.1	4455	89057	0	7067	14590	2190	0	3862	0
IS6489RT	550.1	5016	73924	0	5097	6795	0	0	3659	0
IS6501RT	561.7	4027	88145	0	2201	16951	0	0	3296	0
IS6505RT	566.1	4007	67610	0	4285	5196	1819	8347	0	0
IS6515RT	575.8	2873	77844	0	2016	8124	0	2836	0	17940
IS6526RT	586.8	3201	82541	0	4345	34762	0	5198	0	0
IS6540RT	600.8	3324	53271	0	3297	5392	0	4320	0	0
IS6551RT	611.8	3464	49682	0	2852	2436	0	3559	0	0
IS6564RT	624.8	2491	39340	0	3142	25256	0	3568	0	0
IS6577RT	638.1	3233	83182	1337	4781	34247	0	4299	0	0
IS6585RT	645.8	2490	74150	0	3753	54197	0	3954	0	0
IS6595RT	655.8	2849	58887	0	3409	46595	0	4417	0	0
IS6607RT	667.8	2776	70674	0	7633	45809	0	3651	0	0
IS6620RT	681.3	2937	76319	0	5950	43223	0	3894	0	0
IS6635RT	696.3	2509	59953	0	2825	61477	14634	3161	0	0
IS6653RT	714.3	2650	61987	0	3425	31010	31113	2543	0	0

Annexe 15: Carotte IS6 - Minéralogie de la roche totale (%)

Echantillon	Profondeur	Phyllo.	Quartz	Feldspaths-K	Plagioclases	Calcite	Dolomite	Pyrite	Hématite	Aragonite	ID+PHyll	Cc/Qz
0:11:00	1.8	80.20	29.60	0.00	4.60	2.10	0.70	0.00	3.90	4.10	55.00	0.07
0:23:00	13.8	66.30	27.40	0.00	3.00	2.20	0.00	0.00	4.50	10.30	52.60	0.08
0:34:00	24.8	72.90	23.10	0.00	3.30	2.00	0.00	0.00	4.70	11.00	55.90	0.09
0:45:00	35.8	78.90	26.00	0.00	2.90	1.50	0.00	0.00	5.50	10.70	53.40	0.06
0:55:00	45.8	77.00	22.80	0.00	4.80	1.60	0.00	0.00	5.00	11.40	54.40	0.07
0:65:00	55.8	83.60	24.50	0.00	3.50	3.00	0.00	0.00	4.90	12.10	52.00	0.12
0:83:00	73.8	77.00	23.90	0.00	3.30	2.20	0.00	0.00	4.80	10.70	55.10	0.09
1:08:00	66.4	83.80	27.20	0.00	5.60	2.00	0.00	0.00	4.10	7.50	53.60	0.07
1:18:00	76.4	93.40	24.10	0.00	5.00	4.10	0.70	0.00	6.50	17.30	42.30	0.17
1:28:00	86.4	64.00	15.50	0.00	2.80	4.60	0.00	0.00	6.20	20.80	50.10	0.30
1:40:00	98.4	79.00	27.60	2.50	4.90	2.60	0.00	0.00	4.60	13.80	44.00	0.09
1:50:00	108.4	74.00	32.00	0.00	5.30	3.50	0.00	0.00	3.60	11.40	44.20	0.11
1:65:00	123.4	75.00	25.30	0.00	3.40	2.70	2.50	0.00	4.70	13.40	48.00	0.11
1:78:00	136.4	80.40	23.70	0.00	3.50	3.10	0.80	0.00	5.80	19.90	43.20	0.13
1:89:00	147.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	#DIV/0!
2:12:00	169.7	76.10	32.10	0.00	3.70	4.00	0.00	0.00	4.10	10.20	45.90	0.12
2:20:00	177.7	79.70	28.90	0.00	3.70	2.60	0.00	0.00	4.50	9.20	51.10	0.09
2:32:00	189.7	87.40	24.50	0.00	3.40	3.00	0.70	0.00	6.60	17.10	44.70	0.12
2:49:00	206.7	78.60	30.40	0.00	3.70	2.50	0.70	0.00	5.80	16.40	40.50	0.08
2:67:00	224.7	74.40	18.40	0.00	3.80	2.20	0.70	0.00	4.90	14.40	55.60	0.12
2:81:00	238.7	85.70	24.20	0.00	3.80	2.00	0.00	0.00	5.50	11.30	53.20	0.08
2:96:00	253.7	89.50	24.20	0.00	2.80	2.10	0.00	0.00	4.80	7.60	58.50	0.09
3:08:00	266.3	80.50	23.90	0.00	3.60	2.20	0.00	0.00	4.50	7.30	58.50	0.09
4:09:00	280.1	85.80	21.90	1.30	3.00	3.70	0.60	0.00	3.40	0.00	66.10	0.17
4:24:00	295.1	78.10	28.10	0.00	4.50	4.40	0.70	0.00	3.50	0.00	58.80	0.16
4:40:00	311.1	76.40	26.20	0.00	3.80	5.50	0.00	0.00	2.90	0.00	61.60	0.21
4:57:00	328.1	78.10	28.10	0.00	4.50	4.40	0.00	0.00	3.50	0.00	59.50	0.16
4:70:00	341.1	74.20	2.70	0.00	5.50	4.80	0.00	0.00	3.00	0.00	84.00	1.78
4:79:00	350.1	72.50	30.20	0.00	6.10	6.40	0.60	0.00	3.20	0.00	53.50	0.21
4:93:00	364.1	82.80	30.00	0.00	4.60	3.20	1.00	0.00	2.90	0.00	58.30	0.11
5:09:00	383.2	96.40	20.50	0.00	3.20	0.00	0.00	0.00	4.00	0.00	72.30	0.00
5:23:00	395.2	67.80	40.70	0.00	9.10	9.50	0.00	0.00	2.80	0.00	37.90	0.23
5:38:00	410.2	73.50	30.40	0.00	6.30	16.10	0.00	0.00	2.30	0.00	44.90	0.53
5:52:00	424.2	65.90	30.00	0.00	5.20	10.60	0.00	0.00	2.40	0.00	51.80	0.35
5:67:00	439.2	66.60	41.10	0.00	7.00	10.10	0.00	0.00	2.40	0.00	39.40	0.25
5:77:00	449.2	89.20	26.90	0.00	4.10	1.20	0.00	0.00	3.40	0.00	64.40	0.04
5:95:00	467.2	73.70	31.90	0.00	4.50	12.80	0.00	0.00	2.70	0.00	48.10	0.40
6:12:00	484.1	80.40	22.60	0.00	4.70	0.60	0.00	0.00	3.30	0.00	68.80	0.03
6:28:00	500.1	88.30	29.40	0.00	3.50	6.00	0.00	0.00	3.40	0.00	57.70	0.20
6:45:00	517.1	74.50	34.90	0.00	4.40	8.80	0.00	0.00	3.10	0.00	48.80	0.25
6:63:00	535.1	80.90	33.10	0.00	5.90	7.50	1.20	0.00	3.20	0.00	49.10	0.23
6:78:00	550.1	90.20	27.20	0.00	4.20	3.50	0.00	0.00	3.00	0.00	62.10	0.13
6:90:00	561.7	73.00	32.70	0.00	1.90	8.70	0.00	0.00	2.70	0.00	54.00	0.27
6:94:00	566.1	78.90	27.20	0.00	3.90	2.90	1.10	6.60	0.00	0.00	58.30	0.11
7:04:00	575.8	58.30	32.30	0.00	1.90	4.70	0.00	2.30	0.00	35.90	22.90	0.15
7:15:00	586.8	61.80	32.60	0.00	3.90	19.10	0.00	4.10	0.00	0.00	40.30	0.59
7:29:00	600.8	59.90	19.60	0.00	2.80	2.80	0.00	3.10	0.00	0.00	71.70	0.14
7:40:00	611.8	61.10	17.90	0.00	2.30	1.20	0.00	2.50	0.00	0.00	76.10	0.07
7:53:00	624.8	46.80	15.10	0.00	2.70	13.50	0.00	2.70	0.00	0.00	66.00	0.89
7:66:00	638.1	61.00	32.10	1.60	4.20	18.30	0.00	3.30	0.00	0.00	40.50	0.57
7:74:00	645.8	49.70	30.30	0.00	3.50	30.70	0.00	3.20	0.00	0.00	32.30	1.01
7:84:00	655.8	56.90	24.00	0.00	3.20	26.40	0.00	3.60	0.00	0.00	42.80	1.10
7:96:00	667.8	53.40	27.80	0.00	6.80	25.00	0.00	2.80	0.00	0.00	37.60	0.90
8:10:00	681.3	56.40	30.00	0.00	5.30	23.00	0.00	3.00	0.00	0.00	38.70	0.77
8:25:00	696.3	50.80	24.90	0.00	2.70	35.00	9.30	2.60	0.00	0.00	25.50	1.41
8:43:00	714.3	48.50	23.20	0.00	2.90	16.00	17.90	1.90	0.00	0.00	38.10	0.69

Annexe 16: Carotte IS6 - Cractérisation des carbonates

Echantillon	Qz (100)	Qz (101)	Shift	Ce Obs.(I)	Ce Cor.(I)	Ce(ob)-Qz(ob)	%MgCO3	CPS	Ce Obs.(II)	Ce Cor.(II)	Ccob-Qzob	%MgCO3	CPS
IS6001RT	20.944	26.734	0.092	29.527	29.435	8.583	0.923	75	29.630	29.538	8.686	4.26	26
IS6013RT	21.052	26.863	0.200	29.601	29.401	8.549	-0.202	48	29.695	29.495	8.643	2.88	69
IS6024RT	20.960	26.750	0.108	29.551	29.443	8.591	1.174	69	0.000	0.000	0.000	0.00	0
IS6035RT	20.933	26.722	0.081	29.551	29.470	8.618	2.057	48	0.000	0.000	0.000	0.00	0
IS6045RT	21.009	26.807	0.157	29.597	29.440	8.588	1.076	118	29.720	29.563	8.711	5.09	48
IS6055RT	20.998	26.782	0.146	29.578	29.432	8.580	0.815	92	0.000	0.000	0.000	0.00	0
IS6073RT	20.901	26.694	0.049	29.488	29.439	8.587	1.043	77	0.000	0.000	0.000	0.00	0
IS6005RT	20.940	26.730	0.088	29.522	29.434	8.582	0.871	77	29.654	29.566	8.714	5.17	32
IS6015RT	21.025	26.814	0.173	29.601	29.428	8.576	0.698	95	29.706	29.533	8.681	4.11	93
IS6025RT	21.097	26.890	0.245	29.717	29.472	8.620	2.119	144	0.000	0.000	0.000	0.00	0
IS6037RT	21.013	26.798	0.161	29.595	29.434	8.582	0.864	79	29.734	29.573	8.721	5.40	59
IS6047RT	20.932	26.719	0.080	29.526	29.446	8.594	1.275	107	29.665	29.585	8.733	5.79	97
IS6062RT	20.996	26.780	0.144	29.619	29.475	8.623	2.220	85	0.000	0.000	0.000	0.00	0
IS6075RT	20.980	26.771	0.128	29.513	29.385	8.533	-0.707	40	29.606	29.478	8.626	2.30	91
IS6109RT	20.931	26.718	0.079	29.522	29.443	8.591	1.179	125	29.656	29.577	8.725	5.54	80
IS6117RT	20.908	26.679	0.056	29.486	29.430	8.578	0.750	84	0.000	0.000	0.000	0.00	0
IS6129RT	20.999	26.785	0.147	29.597	29.450	8.598	1.402	90	0.000	0.000	0.000	0.00	0
IS6146RT	21.024	26.813	0.172	29.609	29.437	8.585	0.978	79	0.000	0.000	0.000	0.00	0
IS6164RT	21.111	26.898	0.259	29.702	29.443	8.591	1.174	70	0.000	0.000	0.000	0.00	0
IS6178RT	21.030	26.818	0.178	29.610	29.432	8.580	0.815	67	0.000	0.000	0.000	0.00	0
IS6193RT	20.955	26.746	0.103	29.554	29.451	8.599	1.434	73	0.000	0.000	0.000	0.00	0
IS6205RT	21.001	26.793	0.149	29.602	29.453	8.601	1.503	77	29.991	29.842	8.990	14.19	21
IS6219RT	21.047	26.832	0.195	29.636	29.441	8.589	1.108	127	0.000	0.000	0.000	0.00	0
IS6234RT	21.009	26.796	0.157	29.605	29.448	8.596	1.337	190	0.000	0.000	0.000	0.00	0
IS6250RT	20.992	26.782	0.140	29.582	29.442	8.590	1.141	233	0.000	0.000	0.000	0.00	0
IS6267RT	20.935	26.725	0.083	29.527	29.444	8.592	1.206	167	0.000	0.000	0.000	0.00	0
IS6280RT	21.013	26.807	0.161	29.603	29.442	8.590	1.141	173	0.000	0.000	0.000	0.00	0
IS6289RT	20.892	26.683	0.040	29.468	29.428	8.576	0.688	210	29.719	29.679	8.827	8.87	60
IS6303RT	20.982	26.770	0.130	29.582	29.452	8.600	1.467	117	0.000	0.000	0.000	0.00	0
IS6322RT	20.967	26.760	0.115	29.898	29.783	8.931	12.253	23	30.040	29.925	9.073	16.88	24
IS6334RT	20.995	26.778	0.143	29.619	29.476	8.624	2.249	357	0.000	0.000	0.000	0.00	0
IS6349RT	20.970	26.757	0.118	29.574	29.456	8.604	1.597	571	0.000	0.000	0.000	0.00	0
IS6363RT	21.001	26.795	0.149	29.612	29.463	8.611	1.826	388	0.000	0.000	0.000	0.00	0
IS6378RT	20.905	26.691	0.053	29.530	29.477	8.625	2.282	392	0.000	0.000	0.000	0.00	0
IS6388RT	20.998	26.791	0.146	29.603	29.457	8.605	1.630	46	0.000	0.000	0.000	0.00	0
IS6406RT	20.998	26.786	0.146	29.610	29.464	8.612	1.858	476	0.000	0.000	0.000	0.00	0
IS6423RT	21.110	26.900	0.258	29.715	29.457	8.605	1.636	23	0.000	0.000	0.000	0.00	0
IS6439RT	20.976	26.763	0.124	29.571	29.447	8.595	1.304	208	0.000	0.000	0.000	0.00	0
IS6456RT	20.987	26.773	0.135	29.616	29.481	8.629	2.412	312	0.000	0.000	0.000	0.00	0
IS6474RT	20.909	26.697	0.057	29.502	29.445	8.593	1.249	292	0.000	0.000	0.000	0.00	0
IS6489RT	20.968	26.767	0.116	29.554	29.438	8.586	1.020	127	29.698	29.582	8.730	5.70	43
IS6501RT	21.017	26.803	0.165	29.649	29.484	8.632	2.510	295	0.000	0.000	0.000	0.00	0
IS6505RT	21.019	26.818	0.167	29.642	29.475	8.623	2.217	95	0.000	0.000	0.000	0.00	0
IS6515RT	21.036	26.820	0.184	29.613	29.429	8.577	0.704	154	29.731	29.547	8.695	4.55	49
IS6526RT	20.999	26.783	0.147	29.685	29.538	8.686	4.270	614	0.000	0.000	0.000	0.00	0
IS6540RT	21.129	26.928	0.277	29.745	29.468	8.616	1.989	92	0.000	0.000	0.000	0.00	0
IS6551RT	21.060	26.860	0.208	29.577	29.369	8.517	-1.232	19	29.723	29.515	8.663	3.53	47
IS6564RT	21.088	26.852	0.236	29.751	29.515	8.663	3.520	280	29.876	29.640	8.788	7.59	295
IS6577RT	20.934	26.718	0.082	29.568	29.486	8.634	2.562	232	29.676	29.594	8.742	6.09	540
IS6585RT	21.017	26.793	0.165	29.716	29.551	8.699	4.694	984	0.000	0.000	0.000	0.00	0
IS6595RT	21.028	26.812	0.176	29.743	29.567	8.715	5.215	822	0.000	0.000	0.000	0.00	0
IS6607RT	20.951	26.739	0.099	29.603	29.504	8.652	3.152	291	29.693	29.594	8.742	6.08	682
IS6620RT	20.933	26.719	0.081	29.624	29.543	8.691	4.433	765	0.000	0.000	0.000	0.00	0
IS6635RT	21.010	26.788	0.158	29.671	29.513	8.661	3.455	1138	0.000	0.000	0.000	0.00	0
IS6653RT	21.012	26.796	0.160	29.584	29.424	8.572	0.554	642	0.000	0.000	0.000	0.00	0

Annexe 17: Carotte IS6 - fraction 2-16µm

Filename	Prof	Quartz	FK	Plag	Hém	Pyrite	Chl 7Å	Mica001	Kaolinite	Fk/Plg
IS60112N	1.8	173647	7121	23687	5187	0	13113	20280	2700	0.30
IS60232N	13.8	118106	3074	22266	3413	0	15411	30240	3180	0.14
IS60342N	24.8	158066	6314	19678	4410	0	16242	24600	2880	0.32
IS60452N	35.8	158706	4923	21823	6176	0	13843	18600	2100	0.23
IS60552N	45.8	93039	4386	21336	2494	0	15474	37440	2880	0.21
IS60652N	55.8	102332	4297	11665	4320	0	14815	26640	3600	0.37
IS60832N	73.8	172685	5952	23005	4173	0	14041	22860	3720	0.26
IS61082N	66.4	166587	3490	20460	4885	0	15437	20100	1860	0.17
IS61182N	76.4	98165	4567	10405	3663	0	15425	22620	2580	0.44
IS61282N	86.4	133333	2797	23659	4120	0	19811	30240	2940	0.12
IS61402N	98.4	163429	3922	26426	4979	0	16654	19620	3480	0.15
IS61502N	108.4	138835	5143	23945	3719	0	20398	30600	3240	0.21
IS61652N	123.4	153761	4722	40839	3837	0	23823	32940	4320	0.12
IS61782N	136.4	149245	5066	39285	3587	0	22630	35220	4800	0.13
IS61892N	147.4	166336	3632	39321	4618	0	19239	27060	2220	0.09
IS62122N	169.7	175269	2630	26670	3819	0	13049	16080	2460	0.10
IS62202N	177.7	146995	3075	21797	4273	0	16189	17820	0	0.14
IS62322N	189.7	152512	3296	20000	4080	0	12650	17460	2520	0.16
IS62492N	206.7	169903	2288	16025	7117	0	14671	16500	0	0.14
IS62672N	224.7	170766	3269	20198	6038	0	15294	20520	0	0.16
IS62812N	238.7	169415	3111	19404	6834	0	16261	21840	0	0.16
IS62962N	253.7	169751	2187	19595	7055	0	16337	23160	0	0.11
IS63082N	266.3	168600	3371	22419	6424	0	18163	18420	0	0.15
IS64092N	280.1	181398	2350	24522	7547	0	30513	34860	0	0.10
IS64242N	295.1	168018	3080	18930	6638	0	21401	23880	0	0.16
IS64402N	311.1	173119	4241	28095	4161	0	16815	21360	0	0.15
IS64572N	328.1	165196	3685	19412	6054	0	21297	18240	0	0.19
IS64702N	341.1	160227	2753	26002	5299	0	17036	20340	0	0.11
IS64792N	350.1	168600	2784	19664	6946	0	23263	24720	0	0.14
IS64932N	364.1	170426	3495	16433	6297	0	26627	27660	0	0.21
IS65092N	383.2	173068	3729	22429	6265	0	22683	28620	0	0.17
IS65232N	395.2	144544	3301	22127	5217	0	17664	21480	0	0.15
IS65382N	410.2	164825	2256	22137	5217	0	22697	23640	0	0.10
IS65522N	424.2	165544	3236	20772	5989	0	22021	28680	2280	0.16
IS65672N	439.2	151124	2139	25034	5351	0	20152	19500	0	0.09
IS65772N	449.2	152663	2299	26039	5217	0	19657	28140	0	0.09
IS65952N	467.2	159245	2871	21984	5345	0	16626	19560	0	0.13
IS66122N	484.1	165730	2162	19658	6039	0	18840	20280	0	0.11
IS66282N	500.1	158972	2968	22017	6078	0	17791	21420	0	0.13
IS66452N	517.1	167720	3191	22770	5487	0	17485	21780	0	0.14
IS66632N	535.1	164974	3409	25937	5352	0	17250	20820	0	0.13
IS66782N	550.1	177026	2772	26577	6207	0	20347	26100	0	0.10
IS66902N	561.7	151161	4450	37299	3956	0	21319	29340	0	0.12
IS66942N	566.1	138417	3109	17513	0	12423	18580	21240	3000	0.18
IS67042N	575.8	153255	3350	33957	0	17734	20111	28260	4080	0.10
IS67152N	586.8	188809	4139	33353	0	14585	20731	25140	0	0.12
IS67292N	600.8	164260	2726	13705	0	13570	20852	25260	0	0.20
IS67402N	611.8	156369	2293	20262	0	8886	21268	27840	3540	0.11
IS67532N	624.8	175300	7049	55916	0	9610	29545	37200	3600	0.13
IS67662N	638.1	192314	9135	53414	0	7276	31899	39000	4800	0.17
IS67742N	645.8	199128	8560	53890	0	9379	31488	38940	3000	0.16
IS67842N	655.8	168930	4286	26509	0	11188	24745	29520	3000	0.16
IS67962N	667.8	176851	6949	44863	0	9051	27527	32520	0	0.15
IS68102N	681.3	197118	5161	46052	0	9133	26248	30300	0	0.11
IS68252N	696.3	153267	4783	33856	0	11059	22351	35160	4380	0.14
IS68432N	714.3	173003	5803	22163	0	9216	24743	37380	7620	0.26

Annexe 18: Carotte IS6 - fraction <2µm

Filename	Prof	< 2µm Normal							<2 µm Glycolé					<2 µm Glycolé						
		Chl 7A (ND)	Micas(1)CPM	Instr. CPM	Plg	FK	Hém	Pyr	M001(2G)	IS002	CHL002	K001	C/S002	Sm	M001%	IS002%	C002%	K001%	C/S002%	Sm%
IS60112N	1.8	20046	35880	18240	2171	0	7380	0	33300	4680	18060	4080	2760	0	52.96	7.44	28.72	6.49	4.39	0.00
IS60232N	13.8	15390	20280	15300	1945	0	5392	0	24240	4080	14880	4080	2700	0	48.50	8.16	29.77	8.16	5.40	0.00
IS60342N	24.8	13176	24960	13020	1936	4310	6535	0	21480	3180	11280	3360	1680	0	52.42	7.76	27.53	8.20	4.10	0.00
IS60452N	35.8	16144	26160	14280	2182	0	7744	0	13620	5880	10380	3360	1980	0	38.67	16.70	29.47	9.54	5.62	0.00
IS60552N	45.8	12679	20340	9780	1518	2877	3714	0	20580	4800	12780	3240	1440	0	48.04	11.20	29.83	7.56	3.36	0.00
IS60652N	55.8	17414	34020	15540	2722	4530	6584	0	26880	5580	15660	4980	1620	0	49.12	10.20	28.62	9.10	2.96	0.00
IS60832N	73.8	16192	29820	14280	1889	0	6137	0	17700	4200	9480	3540	3300	0	46.31	10.99	24.80	9.26	8.63	0.00
IS61082N	66.4	14283	28500	13740	2238	0	7266	0	13740	3360	7620	4380	1800	0	44.47	10.87	24.66	14.17	5.83	0.00
IS61182N	76.4	17206	29880	13680	1790	0	7240	0	25620	6900	15540	4500	1380	0	47.50	12.79	28.81	8.34	2.56	0.00
IS61282N	86.4	16050	25260	12240	1655	1786	5743	0	22200	4080	13500	3300	720	0	50.68	9.32	30.82	7.53	1.64	0.00
IS61402N	98.4	17372	28020	13980	3046	6302	5422	0	27720	3900	16500	1860	2040	0	53.29	7.50	31.72	3.58	3.92	0.00
IS61502N	108.4	17564	32520	15960	3255	2267	4181	0	26220	5460	16140	4440	1680	0	48.61	10.12	29.92	8.23	3.11	0.00
IS61652N	123.4	16924	30900	14880	2195	5360	5873	0	23880	5460	14220	3120	1260	0	49.81	11.39	29.66	6.51	2.63	0.00
IS61782N	136.4	15106	28380	14520	2010	1942	5231	0	18300	4200	10500	3780	1800	0	47.43	10.89	27.22	9.80	4.67	0.00
IS61892N	147.4	13910	23880	3060	2440	0	4694	0	22260	8700	13740	2160	1800	0	45.75	17.88	28.24	4.44	3.70	0.00
IS62122N	169.7	21195	59100	34260	0	0	5165	0	45540	9540	21540	3360	2340	0	55.32	11.59	26.17	4.08	2.84	0.00
IS62202N	177.7	21507	45840	23100	0	0	6595	0	40740	7980	12840	5700	2760	0	58.18	11.40	18.34	8.14	3.94	0.00
IS62322N	189.7	19339	49620	27780	3546	0	5946	0	34260	9900	14880	3660	3360	0	51.86	14.99	22.52	5.54	5.09	0.00
IS62492N	206.7	20867	46320	25080	0	0	7247	0	22080	4860	12540	4140	900	0	49.60	10.92	28.17	9.30	2.02	0.00
IS62672N	224.7	24182	55020	26940	0	0	6460	0	12840	5400	5820	3060	2100	0	43.94	18.48	19.92	10.47	7.19	0.00
IS62812N	238.7	35708	65580	38400	0	0	5209	0	66960	10020	32340	2640	3840	0	57.82	8.65	27.93	2.28	3.32	0.00
IS62962N	253.7	26150	66120	31320	0	0	6352	0	40620	11760	22500	4020	5340	0	48.22	13.96	26.71	4.77	6.34	0.00
IS63082N	266.3	23268	47700	21240	0	0	7987	0	37560	7020	17580	6540	4500	0	51.31	9.59	24.02	8.93	6.15	0.00
IS64092N	280.1	29144	56640	24480	0	0	7577	0	44460	5640	23580	5760	3300	0	53.73	6.82	28.50	6.96	3.99	0.00
IS64242N	295.1	28620	44820	20460	0	0	7457	0	37920	7740	21180	5460	4920	0	49.11	10.02	27.43	7.07	6.37	0.00
IS64402N	311.1	27122	38100	20880	0	0	7602	0	26580	7020	14700	6360	2280	0	46.68	12.33	25.82	11.17	4.00	0.00
IS64572N	328.1	29788	38100	20220	3067	0	7887	0	31440	8040	19500	7980	3120	0	44.86	11.47	27.83	11.39	4.45	0.00
IS64702N	341.1	20228	32280	13740	2568	2286	6857	0	28740	6660	18240	8520	4200	0	43.31	10.04	27.49	12.84	6.33	0.00
IS64792N	350.1	25221	40440	16560	0	0	8331	0	33600	5940	18540	9240	3720	0	47.30	8.36	26.10	13.01	5.24	0.00
IS64932N	364.1	32515	59700	33240	0	0	5335	0	54420	12660	27960	10920	3900	0	49.54	11.52	25.45	9.94	3.55	0.00
IS65092N	383.2	27452	52380	25740	0	0	5155	0	43140	13380	18600	9420	3840	0	48.81	15.14	21.05	10.66	4.34	0.00
IS65232N	395.2	21625	34320	17100	2504	2469	7263	0	30960	4920	19740	6600	3540	0	47.08	7.48	30.02	10.04	5.38	0.00
IS65382N	410.2	30742	54900	25440	0	0	5940	0	46980	9240	23460	9960	4980	0	49.65	9.77	24.79	10.53	5.26	0.00
IS65522N	424.2	27155	41940	22140	3013	0	7157	0	37500	6900	20220	9360	5160	0	47.38	8.72	25.55	11.83	6.52	0.00
IS65672N	439.2	25706	45840	17580	2464	0	7243	0	37440	4800	22740	8340	4440	0	48.15	6.17	29.24	10.73	5.71	0.00
IS65772N	449.2	26628	46620	19920	2372	0	7090	0	46020	5760	24540	7740	4020	0	52.25	6.54	27.86	8.79	4.56	0.00
IS65952N	467.2	22732	46380	22860	2631	2432	4901	0	35580	4140	18000	8040	3240	0	51.57	6.00	26.09	11.65	4.70	0.00
IS66122N	484.1	26914	58080	33120	4158	0	6691	0	44580	7500	14940	7740	4080	0	56.54	9.51	18.95	9.82	5.18	0.00
IS66282N	500.1	22383	38760	20220	2652	0	7714	0	29520	6240	15000	6900	2940	0	48.71	10.30	24.75	11.39	4.85	0.00
IS66452N	517.1	27120	52620	26580	2973	0	7049	0	45720	10140	18960	10920	3480	0	51.24	11.37	21.25	12.24	3.90	0.00
IS66632N	535.1	30392	64920	32040	0	0	5451	0	50400	11520	18000	8520	5280	0	53.78	12.29	19.21	9.09	5.63	0.00
IS66782N	550.1	32299	63600	43380	0	0	5951	0	53700	6900	22560	6840	3420	0	57.48	7.39	24.15	7.32	3.66	0.00
IS66902N	561.7	16131	26220	14580	2249	4753	5104	0	19380	2280	10680	7200	2520	0	46.08	5.42	25.39	17.12	5.99	0.00
IS66942N	566.1	31684	61980	32700	0	0	4420	0	38580	16080	19020	13260	5940	0	41.54	17.31	20.48	14.28	6.40	0.00
IS67042N	575.8	30758	54600	24960	2650	2140	0	3624	42780	8760	27720	6420	2100	0	48.74	9.98	31.58	7.31	2.39	0.00
IS67152N	586.8	42629	84120	38400	0	0	4172	0	75600	12000	28140	10500	2100	0	58.91	9.35	21.93	8.18	1.64	0.00
IS67292N	600.8	42309	86220	47220	0	0	0	0	75660	11280	37260	8520	2520	0	55.94	8.34	27.55	6.30	1.86	0.00
IS67402N	611.8	35362	72840	35280	0	0	0	5182	57240	9000	35940	4440	3240	0	52.10	8.19	32.71	4.04	2.95	0.00
IS67532N	624.8	40588	71400	29220	2520	4163	0	6648	69420	11820	46800	4800	3900	0	50.77	8.64	34.23	3.51	2.85	0.00
IS67662N	638.1	43245	68640	32400	2898	0	0	8259	60840	11520	38520	7740	5400	0	49.06	9.29	31.06	6.24	4.35	0.00
IS67742N	645.8	50586	76560	37620	0	0	0	6077	62520	11820	40980	7020	1140	0	50.63	9.57	33.19	5.69	0.92	0.00
IS67842N	655.8	46302	87480	36480	0	0	0	4975	57660	8820	36420	11100	2580	0	49.46	7.57	31.24	9.52	2.21	0.00
IS67962N	667.8	43678	72720	34200	2657	0	0	4072	58740	10260	34560	14760	4380	0	47.87	8.36	28.17	12.03	3.57	0.00
IS68102N	681.3	41907	68520	31620	0	0	0	3921	67320	15420	42060	8700	3780	0	49.04	11.23	30.64	6.34	2.75	0.00
IS68252N	696.3	36031	64860	43620	0	0	0	7932	46800	12660	31920	6240	4080	7080	43.02	11.64	29.34	5.74	3.75	6.51
IS68432N	714.3	33592	61500	12720	0	0	0	3155	43200	11220	18420	6720	2880	7440	48.06	12.48	20.49	7.48	3.20	8.28

Annexe 19: Carotte IS6 - LS

Profondeur	Filename	L.S		Intensité du pic en CPS	
		2 μ Norm.	2 μ Glyc.	2 μ N	2 μ Glyc.
1.8	IS60112N	0.708	0.56	705	656
13.8	IS60232N	0.627	0.523	627	540
24.8	IS60342N	0.619	0.553	464	441
35.8	IS60452N	0.677	0.553	532	370
45.8	IS60552N	0.559	0.398	429	404
55.8	IS60652N	0.663	0.538	636	597
73.8	IS60832N	0.655	0.479	572	384
66.4	IS61082N	0.635	0.486	546	276
76.4	IS61182N	0.67	0.545	596	550
86.4	IS61282N	0.575	0.501	533	463
98.4	IS61402N	0.656	0.579	572	539
108.4	IS61502N	0.604	0.501	621	541
123.4	IS61652N	0.693	0.516	603	504
136.4	IS61782N	0.715	0.486	543	363
147.4	IS61892N	0.655	0.633	424	470
169.7	IS62122N	0.663	0.62	1166	952
177.7	IS62202N	0.656	0.598	924	788
189.7	IS62322N	0.722	0.64	997	696
206.7	IS62492N	0.791	0.486	904	446
224.7	IS62672N	0.767	0.648	1018	267
238.7	IS62812N	0.752	0.589	1307	1263
253.7	IS62962N	0.781	0.707	1198	896
266.3	IS63082N	0.715	0.642	908	745
280.1	IS64092N	0.707	0.64	1012	813
295.1	IS64242N	0.707	0.634	832	754
311.1	IS64402N	0.634	0.367	791	548
328.1	IS64572N	0.707	0.538	759	635
341.1	IS64702N	0.597	0.516	599	590
350.1	IS64792N	0.692	0.581	752	677
364.1	IS64932N	0.781	0.626	1144	1079
383.2	IS65092N	0.752	0.655	984	869
395.2	IS65232N	0.634	0.5	713	651
410.2	IS65382N	0.648	0.546	1036	919
424.2	IS65522N	0.7	0.612	850	742
439.2	IS65672N	0.656	0.575	812	705
449.2	IS65772N	0.662	0.589	904	853
467.2	IS65952N	0.68	0.546	922	646
484.1	IS66122N	0.759	0.634	1162	883
500.1	IS66282N	0.648	0.574	785	630
517.1	IS66452N	0.678	0.625	1024	898
535.1	IS66632N	0.707	0.633	1240	998
550.1	IS66782N	0.766	0.649	1336	959
561.7	IS66902N	0.612	0.369	545	424
566.1	IS66942N	0.648	0.537	1245	1047
575.8	IS67042N	0.612	0.486	1063	909
586.8	IS67152N	0.62	0.538	1666	1376
600.8	IS67292N	0.708	0.611	1706	1415
611.8	IS67402N	0.642	0.568	1433	1200
624.8	IS67532N	0.575	0.486	1647	1395
638.1	IS67662N	0.634	0.501	1380	1267
645.8	IS67742N	0.633	0.478	1527	1228
655.8	IS67842N	0.597	0.448	1630	1233
667.8	IS67962N	0.575	0.502	1514	1247
681.3	IS68102N	0.57	0.523	1400	1346
696.3	IS68252N	0.7	0.589	1360	1175
714.3	IS68432N	0.81	0.752	1420	917

Annexe 20: Minéralogie des terrasses et des lithologies rencontrés dans le bassin versant (CPM)

Echantillon	Cote	Situation	Phyllo	Quartz	Fk	Plagio	Calcite	Dolo	Ank	Aragonite	Pyrite	Hématite	Halite	Thénardite
TA1-0CM	0	Levé A1	3287	235558	0	41997	0	0	0	0	0	3401	0	0
TA1-12CM	12	Levé A1	3086	51368	0	3119	12576	1432	0	44169	0	0	0	0
TA1-15	15	TA1 carotte	2032	31615	0	1680	7317	0	0	43730	0	0	0	0
TA1-25	25	TA1 carotte	1320	13143	0	900	11186	0	0	54430	0	0	0	0
TA1-30CM	30	Levé A1	0	5325	0	0	31770	0	0	56534	0	0	0	0
TA1-32	32	TA1 carotte	0	3983	0	0	40539	0	0	43909	0	0	0	0
TA1-44	44	TA1 carotte	1947	22175	0	1380	40739	0	0	43779	0	0	0	0
TA1-50CM	50	Levé A1	2160	18569	0	1680	33580	0	0	54675	0	0	0	0
TA1-55	55	TA1 carotte	1680	18129	0	1020	97988	0	0	21893	0	0	0	0
TA1-67CM	67	Levé A1	2400	26029	0	2820	162419	0	0	8274	0	0	0	0
TA1-70CM	70	Levé A1	2700	36297	0	4316	152025	0	0	6703	0	0	0	0
TA1-74	74	TA1 carotte	174	22101	0	3924	144510	0	0	14167	0	0	0	0
TA1-80CM	80	Levé A1	1680	18143	0	1560	147774	0	0	16362	0	0	0	0
TA1-85	85	TA1 carotte	1739	24543	0	1322	7928	0	0	52239	0	0	0	0
TA1-92CM	92	Levé A1	1860	15263	0	1200	82568	0	0	38863	0	0	0	0
TA1-97	97	TA1 carotte	1620	13404	0	720	28017	0	0	50809	0	0	0	0
TA2		Levé A2	2451	44494	0	1704	16908	0	0	49061	0	0	0	0
TA2-5	5	TA2 carotte	1825	36054	0	2449	3963	0	0	55435	0	0	0	0
TA2-15	15	TA2 carotte	1959	47496	0	2482	3640	0	0	44499	0	0	0	0
TA2-25	25	TA2 carotte	1639	30655	0	1680	11316	0	0	56664	0	0	0	0
TA2-35	35	TA2 carotte	2225	37446	0	1800	60837	0	0	26860	0	0	0	0
TA2-45	45	TA2 carotte	1800	25372	0	1680	93588	0	0	23219	0	0	0	0
TA2-55	55	TA2 carotte	1620	34600	0	2619	29469	0	0	49823	0	0	0	0
TA2-65	65	TA2 carotte	2105	35120	0	1920	43218	0	0	43480	0	0	0	0
TB-0CM	0	Levé B	7982	166160	2000	12808	10423	0	0	2064	0	6118	0	0
TB-5CM	5	Levé B	7383	191317	0	9238	11350	1625	0	0	0	5409	0	0
TB - 10	10	TB carotte	3129	51671	0	2865	11227	0	0	42196	0	0	0	0
TB-15CM	15	Levé B	3480	60197	0	2895	4480	1422	0	45896	0	0	0	0
TB - 20	20	TB carotte	1496	25227	0	1260	4165	0	0	58319	0	0	0	0
TB-25CM	25	Levé B	1724	19026	0	0	5103	0	0	65688	0	0	0	0
TB - 30	30	TB carotte	1750	18332	0	1593	16575	0	0	48301	0	0	0	0
TB-35CM	35	Levé B	1895	22454	0	1734	19235	0	0	52066	0	0	0	0
TB - 40	40	TB carotte	1625	19541	0	1903	13523	0	0	54440	0	0	0	0
TB-45CM	45	Levé B	2145	27570	0	1670	13893	0	0	50346	0	0	0	0
TB - 50	50	TB carotte	2201	22517	0	1980	82328	0	0	26117	0	0	0	0
TB-55CM	55	Levé B	2200	27764	0	2220	81663	0	0	22091	0	0	0	0
TB - 60	60	TB carotte	2220	33054	0	1560	106281	0	0	16128	0	0	0	0
TB-65CM	65	Levé B	2479	25971	0	2160	82195	0	0	26780	0	0	0	0
TB - 65	66	TB carotte	2040	31331	0	1440	130473	0	0	5036	0	0	0	0
TB-75CM	75	Levé B	4500	35107	0	2421	156466	0	0	5343	0	0	0	0
TB - 75	76	TB carotte	1440	17514	0	660	143440	0	0	6609	0	0	0	0
TB-85CM	85	Levé B	1680	12804	0	0	141904	0	0	2040	0	0	0	0
TB - 85	86	TB carotte	2160	21204	0	1440	126892	0	0	5047	0	0	0	0
TB-95CM	95	Levé B	2400	30127	0	2160	151727	0	0	6709	0	0	0	0
TB - 95	96	TB carotte	2460	34118	0	2460	143049	0	0	5809	0	0	0	0
TB-105CM	105	Levé B	2040	27544	0	3813	172944	0	0	4184	0	0	0	0
TB - 110	110	TB carotte	1800	25347	0	1440	151711	0	0	4116	0	0	0	0
TB-115CM	115	Levé B	1920	23274	0	2839	160205	0	0	3603	0	0	0	0
TB - 120	120	TB carotte	1980	26477	0	1740	147681	0	0	3547	0	0	0	0
TB - 130	130	TB carotte	780	9898	0	660	170707	0	0	4912	0	0	0	0
TB-140CM	140	Levé B	0	16446	0	0	170277	0	0	5571	0	0	0	0
TB - 140	141	TB carotte	1200	14450	0	1020	160150	0	0	5270	0	0	0	0
TB - 150	150	TB carotte	840	8994	0	960	177941	0	0	3421	0	0	0	0
TB - 160	160	TB carotte	1980	15056	0	660	159083	0	0	5217	0	0	0	0
TB - 170	170	TB carotte	2401	28614	0	2957	68648	0	0	17696	0	0	0	0
TB - 176	176	TB carotte	1680	24587	0	3007	37218	0	0	47116	0	0	0	0
TC1-2	2	TC1 carotte	3837	102350	0	6380	90782	0	0	0	0	2841	0	0
TC1-7	7	TC1 carotte	3594	130450	0	7779	88004	0	0	0	0	2726	0	0
TC1-14	14	TC1 carotte	2580	56934	0	5243	139464	0	0	3003	0	0	0	0
TC1-21	21	TC1 carotte	2340	39045	0	2261	105623	0	0	16847	0	0	0	0
TC1-29	29	TC1 carotte	3207	110630	0	2566	39296	0	0	25042	0	0	0	0
TC2-8CM	8	Levé C2	5214	204801	0	9958	43029	0	0	0	0	4572	0	0
TC2-20CM	20	Levé C2	3246	94078	0	6885	115821	0	0	4129	0	0	0	0
TC2-30CM	30	Levé C2	7103	188955	1734	8643	15947	1673	0	0	0	5452	0	0
TC2-50CM	50	Levé C2	1560	34237	0	4548	161916	0	0	7431	0	0	0	0
TC2-72CM	72	Levé C2	2207	34132	0	3082	95119	0	0	25711	0	0	0	0
R22-10CM	10	RIO 22	4833	102369	0	7447	19788	0	0	17017	0	0	0	0
R22-20CM	20	RIO 22	1970	29770	0	2528	37460	0	0	46716	0	0	0	0
R22-30CM	30	RIO 22	2117	39589	0	1691	24713	0	0	47616	1559	0	0	0
R22-40CM	40	RIO 22	1777	23784	0	0	25763	0	0	43811	0	0	0	0
R22-50CM	50	RIO 22	1663	28424	0	1563	25076	0	0	40837	0	0	0	0
R22-60CM	60	RIO 22	1660	24026	0	1300	75468	0	0	25813	0	0	0	0
R22-M5		RIO 22	5472	96387	0	4922	58217	0	0	6929	0	7465	0	0
R3-40CM	40	RIO 3	7855	158270	0	8333	17499	0	0	0	0	6012	0	0
R3-96CM	96	RIO 3	7140	171830	0	8354	16432	0	0	0	0	6041	0	0
R3-130CM	130	RIO 3	6085	221654	0	15251	15552	0	0	0	0	4991	0	0

Annexe 20: Minéralogie des terrasses et des lithologies rencontrés dans le bassin versant (CPM)

Echantillon	Cote	Situation	Phyllo	Quartz	Fk	Plagio	Calcite	Dolo	Ank	Aragonite	Pyrite	Hématite	Halite	Thénardite
R3-150CM	150	RIO 3	8246	148817	0	10029	17991	0	0	0	0	6767	0	0
R3-157CM	157	RIO 3	7380	225527	0	10019	13688	0	0	0	0	6516	0	0
R3-162CM	162	RIO 3	6418	254807	0	11314	12944	0	0	0	0	6575	0	0
R3-170CM	170	RIO 3	8092	139972	0	6127	17748	0	0	0	0	7428	0	0
R3-175CM	175	RIO 3	8604	129966	0	6745	15073	0	0	0	0	7673	0	0
R3-LIT			6271	218613	0	18175	5654	0	0	0	0	6208	0	0
R15-LIT			5661	249037	0	21431	1759	0	0	0	0	3837	0	0
R20-LIT			5636	173026	0	14778	13745	0	0	11507	0	3282	0	0
R10-LIT			7139	192350	0	13164	2957	0	0	0	0	6951	0	0
R23-LIT			7470	163932	0	12001	18050	0	0	2971	0	6791	0	0
R24-LIT			7040	122963	0	4529	38580	0	0	0	0	5337	0	0
PLAGE NORD			7376	150976	0	8031	19581	0	0	2353	0	7332	0	0
ENDUIT BLANC 1			3812	73526	0	30383	10925	0	0	0	0	4598	44304	62310
ENDUIT BLANC 2			2975	48165	0	44624	11200	0	0	0	0	8402	26344	90942
ENDUIT BLANC 3			5149	122151	0	19804	5523	0	0	0	0	5247	16217	41598
R14-48CM	48	RIO 14	7639	190706	0	11606	2529	0	0	0	0	6983	0	0
R14-105CM	105	RIO 14	7671	194475	0	8798	2539	0	0	0	0	7342	0	0
R14-210CM	210	RIO 14	7728	252584	0	14410	1736	0	0	0	0	6870	0	0
R14-275CM	275	RIO 14	5337	108765	0	12417	1822	0	0	0	0	4183	0	0
R14-285CM	285	RIO 14	4194	138768	0	6889	2668	0	0	0	0	4331	0	0
R14CL-10CM	10	RIO14-CRAIES	4214	141660	0	6102	90643	0	0	2488	0	3603	0	0
R14CL-20CM	20	RIO14-CRAIES	5869	210453	0	10629	28409	0	0	0	0	4387	0	0
R14CL-30CM	30	RIO14-CRAIES	3721	105636	0	4795	69067	0	0	2941	0	2941	0	0
R14CL-40CM	40	RIO14-CRAIES	2252	66661	0	7228	75735	0	0	0	0	1200	0	0
R14CL-50CM	50	RIO14-CRAIES	2891	53906	0	3062	71114	2078	0	28877	0		0	0
R14CL-60CM	60	RIO14-CRAIES	1200	53696	0	2400	165219	0	0	2400	0	5125	0	0
R8-160CM	160	RIO 8	6505	243380	0	18395	6416	0	0	0	0	6376	0	0
R8-230CM	230	RIO 8	5246	210003	2137	10849	9642	0	0	0	0	5106	0	0
CR-30M	30	GRES ET PELITES	8879	91986	0	4879	10632	3720	3600	0	0	5606	0	0
CR-40M	40	GRES ET PELITES	7985	17403	0	7829	16143	2580	3420	0	0	7830	0	0
CR-60M	60	GRES ET PELITES	7765	92741	0	9056	9440	1140	3600	0	0	8757	0	0
CR-70M	70	GRES ET PELITES	8864	127585	0	8330	5848	0	0	0	0	8785	0	0
CR-80M	80	GRES ET PELITES	7237	153589	0	9987	22340	1920	5400	0	0	8438	0	0
CR-90M	90	GRES ET PELITES	5451	241929	0	15496	14362	2760	1620	0	0	6754	0	0
CR-100M	100	GRES ET PELITES	7146	109147	0	5202	10597	2220	8220	0	0	8259	0	0
IR-2410M	2410	COL IRIG	0	7197	0	3180	189535	0	0	0	0	0	0	0
IR-2420M	2420	COL IRIG	0	1200	0	4207	185729	11880	11640	0	0	0	0	0
IR-2438M	2438	COL IRIG	0	13886	0	3314	144799	3180	3000	0	0	0	0	0
IR-2440M	2440	COL IRIG	5154	64794	0	1874	79548	0	0	0	0	3074	0	0
IR-2450M	2450	COL IRIG	2400	67116	0	1172	118009	0	0	0	0	0	0	0
ECH11		MATRICE CGT	0	23227	0	0	136637	0	74280	0	0	0	0	0
ECH7			0	0	0	0	206906	0	1500	0	0	0	0	0
ECH6		CALC SERIE INV	0	10404	0	0	175169	0	0	0	0	0	0	0
ECH5		NODULE IKANOU.	2599	185718	20231	0	44009	0	0	0	0	5621	0	0
ECH4		TRAVERTIN	0	4759	0	0	0	0	0	48645	0	0	0	0
ECH3		CALC CRETE	0	2580	0	0	201612	0	0	0	0	0	0	0
CLTAS-10CM	10	CRAIES TASGOUNT	6020	122872	0	8940	80468	0	0	0	0	0	0	0
CLTAS-20CM	20	CRAIES TASGOUNT	5346	102129	0	7552	95595	0	0	0	0	0	0	0
CLTAS-30CM	30	CRAIES TASGOUNT	6215	146353	0	11629	66338	0	0	0	0	0	0	0
CLTAS		CRAIES TASGOUNT	3005	87856	0	5770	144985	0	0	0	0	0	0	0
A1	10	PIEGE A SDT	3842	88330	0	5280	9148	2046	0	24107	0	6440.22	0	
A2	10	PIEGE A SDT	4655	110488	0	7145	8864	0	0	24166	0	7186.14	0	
B1	50	PIEGE A SDT	3067	75734	0	4337	6445	0	0	22949	0	6263.73	0	
B2	50	PIEGE A SDT	3813	82384	0	5126	6948	0	0	25794	0	6307.02	0	
C1	85	PIEGE A SDT	3008	83642	0	4821	5880	0	0	31602	0	5924.07	0	
C2	85	PIEGE A SDT	2982	76721	0	6093	6763	0	0	29804	0	0	0	

Annexe 21: Minéralogie des terrasses et des lithologies rencontrés dans le bassin versant (%)

N° Ech	Prof	Phyllo	Quartz	Fsp-K	Plagio	Cc	Dol	Ara	Ank	Pyr	Hém	Halite	Thén	Indosés	Ara cal	Cc/Qz
TB-0CM	0.00	39.86	26.76	0.00	5.27	2.84	0.00	2.15	0.00	0.00	2.67	0.00	0.00	19.37	2.15	0
TB-5CM	5.00	35.91	30.01	0.00	3.71	3.01	0.48	0.00	0.00	0.00	2.30	0.00	0.00	24.58	0.00	0.1004
TB - 10	10.00	20.48	10.39	0.00	1.55	4.01	0.00	52.49	0.00	0.00	0.00	0.00	0.00	11.09	52.49	0.3860
TB-15CM	15.00	21.97	12.26	0.00	1.51	1.54	0.54	60.56	0.00	0.00	0.00	0.00	0.00	1.61	60.56	0.1259
TB - 20	20.00	11.09	5.74	0.00	0.77	1.68	0.00	82.17	0.00	0.00	0.00	0.00	0.00	-1.45	80.71	0.2933
TB-25CM	25.00	13.03	5.46	0.00	0.00	2.10	0.00	103.74	0.00	0.00	0.00	0.00	0.00	-24.34	79.40	0.3852
TB - 30	30.00	12.18	3.92	0.00	0.91	6.29	0.00	63.89	0.00	0.00	0.00	0.00	0.00	12.81	63.89	1.6064
TB-35CM	35.00	12.89	5.80	0.00	0.97	7.14	0.00	74.02	0.00	0.00	0.00	0.00	0.00	-0.83	73.19	1.2304
TB - 40	40.00	11.80	4.36	0.00	1.14	5.36	0.00	75.18	0.00	0.00	0.00	0.00	0.00	2.15	75.18	1.2295
TB-45CM	45.00	14.29	6.98	0.00	0.92	5.05	0.00	70.08	0.00	0.00	0.00	0.00	0.00	2.69	70.08	0.7238
TB - 50	50.00	14.48	4.55	0.00	1.07	29.57	0.00	32.67	0.00	0.00	0.00	0.00	0.00	17.65	32.67	6.4960
TB-55CM	55.00	13.16	6.31	0.00	1.10	26.67	0.00	27.63	0.00	0.00	0.00	0.00	0.00	25.13	27.63	4.2247
TB - 60	60.00	14.37	6.57	0.00	0.83	37.55	0.00	19.84	0.00	0.00	0.00	0.00	0.00	20.84	19.84	5.7127
TB-65CM	65.00	15.28	6.08	0.00	1.10	27.65	0.00	34.50	0.00	0.00	0.00	0.00	0.00	15.39	34.50	4.5458
TB - 65	66.00	13.10	6.18	0.00	0.76	45.73	0.00	6.15	0.00	0.00	0.00	0.00	0.00	28.08	6.15	7.3987
TB-75CM	75.00	27.99	8.30	0.00	1.24	53.13	0.00	6.95	0.00	0.00	0.00	0.00	0.00	2.39	6.95	6.4015
TB - 75	76.00	9.60	3.59	0.00	0.36	52.19	0.00	8.38	0.00	0.00	0.00	0.00	0.00	25.88	8.38	14.5511
TB-85CM	85.00	10.10	2.92	0.00	0.00	46.55	0.00	2.56	0.00	0.00	0.00	0.00	0.00	37.86	2.56	15.9185
TB - 85	86.00	13.81	4.16	0.00	0.76	44.28	0.00	6.13	0.00	0.00	0.00	0.00	0.00	30.85	6.13	10.6323
TB-95CM	95.00	14.91	7.11	0.00	1.11	51.46	0.00	8.71	0.00	0.00	0.00	0.00	0.00	16.69	8.71	7.2337
TB - 95	96.00	16.23	6.92	0.00	1.34	51.52	0.00	7.29	0.00	0.00	0.00	0.00	0.00	16.70	7.29	7.4492
TB-105CM	105.00	13.06	6.70	0.00	2.01	60.41	0.00	5.60	0.00	0.00	0.00	0.00	0.00	12.22	5.60	9.0184
TB - 110	110.00	12.04	5.21	0.00	0.79	55.38	0.00	5.23	0.00	0.00	0.00	0.00	0.00	21.34	5.23	10.6341
TB-115CM	115.00	11.97	5.52	0.00	1.46	54.53	0.00	4.70	0.00	0.00	0.00	0.00	0.00	21.82	4.70	9.8869
TB - 120	120.00	13.09	5.38	0.00	0.95	53.30	0.00	4.46	0.00	0.00	0.00	0.00	0.00	22.82	4.46	9.9098
TB - 130	130.00	5.47	2.13	0.00	0.38	65.40	0.00	6.55	0.00	0.00	0.00	0.00	0.00	20.05	6.55	30.6419
TB-140CM	140.00	0.00	4.03	0.00	0.00	59.90	0.00	7.50	0.00	0.00	0.00	0.00	0.00	28.57	7.50	14.8713
TB - 140	141.00	8.24	3.05	0.00	0.58	59.99	0.00	6.88	0.00	0.00	0.00	0.00	0.00	21.27	6.88	19.6911
TB - 150	150.00	5.95	1.96	0.00	0.56	68.83	0.00	4.61	0.00	0.00	0.00	0.00	0.00	18.09	4.61	35.1507
TB - 160	160.00	13.56	3.17	0.00	0.37	59.46	0.00	6.79	0.00	0.00	0.00	0.00	0.00	16.66	6.79	18.7726
TB - 170	170.00	14.69	5.38	0.00	1.49	22.92	0.00	20.58	0.00	0.00	0.00	0.00	0.00	34.94	20.58	4.2625
TB - 176	176.00	11.86	5.33	0.00	1.75	14.34	0.00	63.22	0.00	0.00	0.00	0.00	0.00	3.50	63.22	2.6894
TC1-2	2.00	22.62	18.54	0.00	3.10	29.21	0.00	0.00	0.00	0.00	1.46	0.00	0.00	25.07	0.00	1.5759
TC1-7	7.00	20.85	23.25	0.00	3.72	27.87	0.00	0.00	0.00	0.00	1.38	0.00	0.00	22.92	0.00	1.1986
TC1-14	14.00	16.55	11.22	0.00	2.77	48.83	0.00	3.66	0.00	0.00	0.00	0.00	0.00	16.97	3.66	4.3521
TC1-21	21.00	15.15	7.77	0.00	1.21	37.33	0.00	20.74	0.00	0.00	0.00	0.00	0.00	17.81	20.74	4.8062
TC1-29	29.00	19.13	20.27	0.00	1.26	12.79	0.00	28.40	0.00	0.00	0.00	0.00	0.00	18.14	28.40	0.6311
TC2-8CM	8.00	25.89	38.64	0.00	4.08	11.66	0.00	0.00	0.00	0.00	1.98	0.00	0.00	17.76	0.00	0.3018
TC2-20CM	20.00	18.19	20.04	0.00	3.18	35.43	0.00	4.84	0.00	0.00	0.00	0.00	0.00	18.33	4.84	1.7683
TC2-30CM	30.00	34.54	34.92	0.90	3.47	4.23	0.49	0.00	0.00	0.00	2.31	0.00	0.00	19.13	0.00	0.1212
TC2-50CM	50.00	9.89	8.25	0.00	2.38	56.02	0.00	9.84	0.00	0.00	0.00	0.00	0.00	13.62	9.84	6.7928
TC2-72CM	72.00	13.74	8.07	0.00	1.58	32.32	0.00	33.45	0.00	0.00	0.00	0.00	0.00	10.83	33.45	4.0028
R22-10CM	10.00	24.83	19.98	0.00	3.16	5.55	0.00	18.27	0.00	0.00	0.00	0.00	0.00	28.22	18.27	0.2776
R22-20CM	20.00	13.09	7.52	0.00	1.39	13.58	0.00	64.86	0.00	0.00	0.00	0.00	0.00	-0.43	64.86	1.8073
R22-30CM	30.00	14.08	10.00	0.00	0.93	8.97	0.00	66.17	0.00	0.70	0.00	0.00	0.00	-0.85	65.32	0.8966
R22-40CM	40.00	11.43	5.81	0.00	0.00	9.05	0.00	58.90	0.00	0.00	0.00	0.00	0.00	14.81	58.90	1.5558
R22-50CM	50.00	10.43	6.77	0.00	0.81	8.58	0.00	53.52	0.00	0.00	0.00	0.00	0.00	19.89	53.52	1.2671
R22-60CM	60.00	10.08	5.55	0.00	0.65	25.02	0.00	32.77	0.00	0.00	0.00	0.00	0.00	25.93	32.77	4.5116
R22-M5	0.00	31.39	21.01	0.00	2.33	18.23	0.00	8.31	0.00	0.00	3.74	0.00	0.00	15.01	8.31	0.8675
R3-40CM	40.00	39.04	29.89	0.00	3.42	4.75	0.00	0.00	0.00	0.00	2.61	0.00	0.00	20.30	0.00	0.1588
R3-96CM	96.00	35.28	32.27	0.00	3.40	4.43	0.00	0.00	0.00	0.00	2.61	0.00	0.00	22.01	0.00	0.1374
R3-130CM	130.00	28.80	39.87	0.00	5.95	4.02	0.00	0.00	0.00	0.00	2.06	0.00	0.00	19.29	0.00	0.1008
R3-150CM	150.00	41.60	28.53	0.00	4.17	4.95	0.00	0.00	0.00	0.00	2.98	0.00	0.00	17.76	0.00	0.1736
R3-157CM	157.00	35.91	41.70	0.00	4.02	3.64	0.00	0.00	0.00	0.00	2.77	0.00	0.00	11.97	0.00	0.0872
R3-162CM	162.00	30.89	46.60	0.00	4.49	3.40	0.00	0.00	0.00	0.00	2.76	0.00	0.00	11.85	0.00	0.0730
R3-170CM	170.00	41.55	27.31	0.00	2.59	4.97	0.00	0.00	0.00	0.00	3.33	0.00	0.00	20.24	0.00	0.1821
R3-175CM	175.00	44.32	25.44	0.00	2.87	4.24	0.00	0.00	0.00	0.00	3.45	0.00	0.00	19.70	0.00	0.1666
ENDUIT BLANC 1	0.00	17.98	13.18	0.00	11.82	2.81	0.00	0.00	0.00	0.00	1.89	4.54	25.82	21.95	0.00	0.2134
ENDUIT BLANC 2	0.00	14.42	8.87	0.00	17.84	2.96	0.00	0.00	0.00	0.00	3.55	2.77	38.73	10.84	0.00	0.3340
ENDUIT BLANC 3	0.00	24.15	21.77	0.00	7.66	1.41	0.00	0.00	0.00	0.00	2.15	1.65	17.14	24.08	0.00	0.0649
EB Moyenne		18.85	14.61	0.00	12.44	2.40	0.00	0.00	0.00	0.00	2.53	2.99	27.23	18.96	0.00	0.1641
CLTAS-10CM	10.00	30.62	23.75	0.00	3.75	22.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.54	0.00	0.9406
CLTAS-20CM	20.00	28.18	20.46	0.00	3.28	27.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.58	0.00	1.3444
CLTAS-30CM	30.00	30.50	27.29	0.00	4.71	17.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.73	0.00	0.6510
CLTAS	0.00	17.50	19.45	0.00	2.77	46.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.18	0.00	2.3703
Moy CLTAS		26.70	22.74	0.00	3.63	28.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.51	0.00	1.2503
R8-160CM	160.00	31.50	44.78	0.00	7.35	1.70	0.00	0.00	0.00	0.00	2.69	0.00	0.00	11.99	0.00	0.0379
R8-230CM	230.00	25.46	38.73	1.11	4.34	2.55	0.00	0.00	0.00	0.00	2.16	0.00	0.00	25.65	0.00	0.0659
CR-30M	30.00	45.88	18.06	0.00	2.08	3.00	1.17	0.00	0.47	0.00	2.53	0.00	0.00	26.82	0.00	0.1660
CR-40M	40.00	44.19	3.66	0.00	3.57	4.88	0.87	0.00	0.47	0.00	3.78	0.00	0.00	38.57	0.00	1.3323
CR-60M	60.00	42.11	19.11	0.00	4.05	2.79	0.37	0.00	0.49	0.00	4.14	0.00	0.00	26.93	0.00	0.1462
CR-70M	70.00	47.07	25.75	0.00	3.65	1.70	0.00	0.00	0.00	0.00	4.07	0.00	0.00	17.76	0.00	0.0658
CR-80M	80.00	39.02	31.47	0.00	4.44	6.57	0.63	0.00	0.73	0.00	3.97	0.00	0.00	13.16	0.00	0.2089
CR-90M	90.00															

Annexe 21: Minéralogie des terrasses et des lithologies rencontrés dans le bassin versant (%)

N° Ech	Prof	Phyllo	Quartz	Fsp-K	Plagio	Cc	Dol	Ara	Ank	Pyr	Hém	Halite	Thén	Indosés	Ara cal	Cc/Qz
ECH3	0.00	0.00	0.68	0.00	0.00	76.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.71	0.00	112.2405
ECH11	0.00	0.00	5.11	0.00	0.00	50.87	0.00	0.00	12.71	0.00	0.00	0.00	0.00	31.31	0.00	9.9542
ECH5	0.00	14.14	32.60	11.73	0.00	13.07	0.00	0.00	0.00	0.00	2.67	0.00	0.00	25.78	0.00	0.4010
TA1-0CM	0.00	14.48	33.47	0.00	15.26	0.00	0.00	0.00	0.00	0.00	1.31	0.00	0.00	35.49	0.00	0.0000
TA1-12CM	12.00	19.44	10.44	0.00	1.62	4.32	0.55	58.16	0.00	0.00	0.00	0.00	0.00	5.47	58.16	0.4143
TA1-15	15.00	13.46	6.44	0.00	0.92	2.65	0.00	55.09	0.00	0.00	0.00	0.00	0.00	21.45	55.09	0.4112
TA1-25	25.00	9.58	2.93	0.00	0.54	4.43	0.00	75.13	0.00	0.00	0.00	0.00	0.00	7.38	75.13	1.5121
TA1-30CM	30.00	0.00	1.24	0.00	0.00	12.48	0.00	85.01	0.00	0.00	0.00	0.00	0.00	1.28	85.01	10.0955
TA1-32	32.00	0.00	0.85	0.00	0.00	15.45	0.00	58.27	0.00	0.00	0.00	0.00	0.00	25.43	58.27	18.0831
TA1-44	44.00	13.51	4.73	0.00	0.79	15.42	0.00	57.73	0.00	0.00	0.00	0.00	0.00	7.82	57.73	3.2641
TA1-50CM	50.00	15.27	4.24	0.00	0.98	12.96	0.00	80.80	0.00	0.00	0.00	0.00	0.00	-14.25	66.55	3.0600
TA1-55	55.00	11.10	3.68	0.00	0.56	35.34	0.00	27.50	0.00	0.00	0.00	0.00	0.00	21.82	27.50	9.6031
TA1-67CM	67.00	15.36	5.37	0.00	1.49	56.75	0.00	11.07	0.00	0.00	0.00	0.00	0.00	9.96	11.07	10.5587
TA1-70CM	70.00	16.76	7.27	0.00	2.21	51.49	0.00	8.69	0.00	0.00	0.00	0.00	0.00	13.58	8.69	7.0872
TA1-74	74.00	1.20	4.68	0.00	2.23	54.37	0.00	18.56	0.00	0.00	0.00	0.00	0.00	18.96	18.56	11.6171
TA1-80CM	80.00	10.92	3.80	0.00	0.84	52.41	0.00	22.22	0.00	0.00	0.00	0.00	0.00	9.82	22.22	13.7823
TA1-85	85.00	12.33	5.34	0.00	0.77	3.07	0.00	70.39	0.00	0.00	0.00	0.00	0.00	8.09	70.39	0.5739
TA1-92CM	92.00	12.45	3.30	0.00	0.66	30.16	0.00	54.36	0.00	0.00	0.00	0.00	0.00	-0.93	53.43	9.1539
TA1-97	97.00	11.67	2.97	0.00	0.43	11.02	0.00	69.58	0.00	0.00	0.00	0.00	0.00	4.35	69.58	3.7136
TA2	0.00	16.17	9.47	0.00	0.93	6.09	0.00	67.63	0.00	0.00	0.00	0.00	0.00	-0.27	67.63	0.6430
TA2-5	5.00	13.16	7.99	0.00	1.46	1.56	0.00	76.00	0.00	0.00	0.00	0.00	0.00	-0.17	75.83	0.1953
TA2-15	15.00	12.93	9.63	0.00	1.35	1.31	0.00	55.86	0.00	0.00	0.00	0.00	0.00	18.91	55.86	0.1362
TA2-25	25.00	12.06	6.93	0.00	1.02	4.54	0.00	79.27	0.00	0.00	0.00	0.00	0.00	-3.82	75.45	0.6558
TA2-35	35.00	14.16	7.32	0.00	0.94	21.13	0.00	32.50	0.00	0.00	0.00	0.00	0.00	23.94	32.50	2.8865
TA2-45	45.00	11.86	5.14	0.00	0.91	33.67	0.00	29.09	0.00	0.00	0.00	0.00	0.00	19.33	29.09	6.5535
TA2-55	55.00	11.53	7.56	0.00	1.54	11.45	0.00	67.40	0.00	0.00	0.00	0.00	0.00	0.53	67.40	1.5132
TA2-65	65.00	14.57	7.47	0.00	1.10	16.32	0.00	57.20	0.00	0.00	0.00	0.00	0.00	3.35	57.20	2.1864
A1	10.00	24.11	17.88	0.00	2.73	3.13	0.78	31.61	0.00	0.00	3.53	0.00	0.00	16.23	31.61	0.1752
A2	10.00	29.32	22.45	0.00	3.71	3.05	0.00	31.81	0.00	0.00	3.95	0.00	0.00	5.71	31.81	0.1358
Moyenne A		26.71	20.16	0.00	3.22	3.09	0.39	31.71	0.00	0.00	3.74	0.00	0.00	10.97	31.71	0.1533
B1	50.00	19.06	15.18	0.00	2.22	2.19	0.00	29.80	0.00	0.00	3.40	0.00	0.00	28.16	29.80	0.1440
B2	50.00	24.12	16.81	0.00	2.67	2.40	0.00	34.09	0.00	0.00	3.48	0.00	0.00	16.43	34.09	0.1427
Moyenne B		21.59	15.99	0.00	2.45	2.29	0.00	31.95	0.00	0.00	3.44	0.00	0.00	22.30	31.95	0.1433
C1	85.00	19.66	17.63	0.00	2.60	2.10	0.00	43.17	0.00	0.00	3.38	0.00	0.00	11.46	43.17	0.1190
C2	85.00	17.77	14.75	0.00	2.99	2.20	0.00	37.11	0.00	0.00	0.00	0.00	0.00	25.18	37.11	0.1492
Moyenne C		18.71	16.19	0.00	2.80	2.15	0.00	40.14	0.00	0.00	1.69	0.00	0.00	18.32	40.14	0.1327
R3-LIT	0.00	32.09	36.09	0.00	7.67	1.58	0.00	0.00	0.00	0.00	2.77	0.00	0.00	19.80	0.00	0.0438
R15-LIT	0.00	27.18	38.58	0.00	8.49	0.46	0.00	0.00	0.00	0.00	1.61	0.00	0.00	23.68	0.00	0.0120
R20-LIT	0.00	30.34	30.05	0.00	6.56	4.04	0.00	12.95	0.00	0.00	1.54	0.00	0.00	14.53	12.95	0.1344
R10-LIT	0.00	37.39	32.49	0.00	5.69	0.85	0.00	0.00	0.00	0.00	3.18	0.00	0.00	20.41	0.00	0.0260
R23-LIT	0.00	41.01	29.03	0.00	5.43	5.41	0.00	3.41	0.00	0.00	3.25	0.00	0.00	12.46	3.41	0.1863
R24-LIT	0.00	39.04	22.00	0.00	2.07	11.68	0.00	0.00	0.00	0.00	2.58	0.00	0.00	22.63	0.00	0.5309
PLAGE NORD	0.00	41.16	27.17	0.00	3.70	5.96	0.00	2.74	0.00	0.00	3.57	0.00	0.00	15.70	2.74	0.2195
R14CL-10CM	10.00	25.04	27.15	0.00	2.99	29.40	0.00	3.09	0.00	0.00	1.87	0.00	0.00	10.47	3.09	1.0827
R14CL-20CM	20.00	30.48	35.25	0.00	4.55	8.05	0.00	0.00	0.00	0.00	1.99	0.00	0.00	19.68	0.00	0.2284
R14CL-30CM	30.00	21.36	19.56	0.00	2.27	21.64	0.00	3.53	0.00	0.00	1.47	0.00	0.00	30.18	3.53	1.1063
R14CL-40CM	40.00	12.66	12.09	0.00	3.35	23.24	0.00	0.00	0.00	0.00	0.59	0.00	0.00	48.06	0.00	1.9225
R14CL-50CM	50.00	19.07	11.47	0.00	1.67	25.60	0.83	39.80	0.00	0.00	0.00	0.00	0.00	1.57	39.80	2.2323
R14CL-60CM	60.00	8.63	12.45	0.00	1.42	64.82	0.00	3.61	0.00	0.00	3.22	0.00	0.00	5.85	3.61	5.2065

Annexe 22: Caractérisation des carbonates des terrasses et des lithologies rencontrés dans le bassin versant

Echantillon	Qz (100)	Qz (101)	Cc Obs.(I)	Cc 1 Cor.	%MgCO3	CPM	Cc Obs.(II)	%MgCO3	CPM
TA1-0CM	20.948	26.730	0.000	-0.098	-961.650	0		-961.650	0
TA1-12CM	20.882	26.668	29.468	29.436	1.011	0		-959.499	0
TA1-30CM	20.938	26.740	29.657	29.569	5.346	0		-961.324	0
TA1-50CM	20.867	26.655	29.579	29.562	5.118	0		-959.010	0
TA1-67CM	20.867	26.655	29.574	29.557	4.955	0		-959.010	0
TA1-70CM	20.960	26.734	29.652	29.542	4.466	0		-962.041	0
TA1-80CM	20.887	26.689	29.575	29.538	4.335	0		-959.662	0
TA1-92CM	20.960	26.743	29.648	29.538	4.335	0		-962.041	0
TB-0CM	20.909	26.689	29.492	29.433	0.913	0		-960.379	0
TB-5CM	20.926	26.715	29.480	29.404	-0.032	12180	29.552	2.314	8700
TB-15CM	20.989	26.779	29.564	29.425	0.652	5460	29.700	5.085	2100
TB-25CM	21.006	26.790	29.600	29.444	1.271	5220	29.781	7.171	4140
TB-35CM	20.988	26.760	29.625	29.487	2.673	11400	29.735	6.258	14820
TB-45CM	20.971	26.746	29.568	29.447	1.369	8040	29.720	6.324	15180
TB-55CM	20.897	26.684	29.628	29.581	5.737	0		-959.988	0
TB-65CM	20.868	26.648	29.596	29.578	5.639	0		-959.042	0
TB-75CM	20.924	26.708	29.635	29.561	5.085	0		-960.868	0
TB-85CM	21.007	26.809	29.729	29.572	5.444	0		-963.573	0
TB-95CM	20.953	26.739	29.664	29.561	5.085	0		-961.813	0
TB-105CM	20.901	26.690	29.602	29.551	4.759	0		-960.118	0
TB-115CM	20.951	26.736	29.653	29.552	4.792	0		-961.748	0
TB-140CM	20.890	26.687	29.593	29.553	4.824	0		-959.760	0
TC2-8CM	20.915	26.698	29.597	29.532	4.140	0		-960.574	0
TC2-20CM	20.941	26.732	29.655	29.564	5.183	0		-961.422	0
TC2-30CM	20.953	26.736	29.635	29.532	4.140	0		-961.813	0
TC2-50CM	20.964	26.746	29.652	29.538	4.335	0		-962.172	0
TC2-72CM	20.882	26.669	29.585	29.553	4.824	0		-959.499	0
R22-10CM	20.987	26.771	29.582	29.445	1.304	0		-962.921	0
R22-20CM	20.982	26.770	29.572	29.440	1.141	0		-962.758	0
R22-30CM	20.920	26.701	29.495	29.425	0.652	0		-960.737	0
R22-40CM	20.962	26.740	29.544	29.432	0.880	18720	29.708	6.226	26880
R22-50CM	20.864	26.647	29.445	29.431	0.848	25200	29.616	6.421	19560
R22-60CM	20.962	26.749	29.591	29.479	2.412	25800	29.703	6.063	75900
END BLA 1	20.952	26.734	29.540	29.438	1.076	0		-961.780	0
END BLA 2	20.861	26.667	29.483	29.472	2.184	0		-958.814	0
END BLA 3	20.959	26.74	29.560	29.451	1.500	0		-962.009	0
R14CL-10CM	20.931	26.715	29.626	29.545	4.564	0		-961.096	0
R14CL-20CM	20.87	26.651	29.553	29.533	4.172	0		-959.108	0
R14CL-30CM	21.09	26.869	29.748	29.508	3.358	0		-966.279	0
R14CL-40CM	20.964	26.75	29.635	29.521	3.781	0		-962.172	0
R14CL-50CM	20.985	26.768	29.616	29.481	2.477	32220	29.683	4.661	60060
R14CL-60CM	20.858	26.643	29.544	29.536	4.270	0		-958.717	0
CR-30M	20.775	26.559	29.363	29.438	1.076	8760	29.462	4.303	7500
CR-40M	20.753	26.54	29.368	29.465	1.956	16860		-955.294	0
CR-60M	20.724	26.51	29.326	29.452	1.532	9660	29.450	5.574	2340
CR-70M	20.774	26.533	29.338	29.414	0.294	6840		-955.979	0
CR-80M	20.8	26.587	29.422	29.472	2.184	23880	29.552	6.421	5580
CR-90M	20.777	26.565	29.397	29.470	2.119	15240		-956.076	0
CR-100M	20.73	26.523	29.348	29.468	2.054	11580		-954.544	0
IR-2410M	20.907	26.686	29.510	29.453	1.565	218760		-960.314	0
IR-2420M	20.774	26.576	29.418	29.494	2.901	210960		-955.979	0
IR-2438M	20.707	26.511	29.337	29.480	2.445	144780		-953.795	0
IR-2440M	20.795	26.591	29.402	29.457	1.695	88740		-956.663	0
IR-2450M	20.822	26.605	29.423	29.451	1.500	124920		-957.543	0
ECH11	20.738	26.521	29.335	29.447	1.369	159060		-954.805	0
ECH7			29.392	50.242	679.182	225480		-278.850	0
ECH6	20.757	26.559	29.372	29.465	1.956	190500		-955.424	0
ECH3	20.736	26.512	29.315	29.429	0.783	219720		-954.740	0
CLTAS-10CM	21.017	26.799	29.612	29.445	1.304	80460		-963.899	0
CLTAS-20CM	21.019	26.803	29.599	29.430	0.815	95580		-963.964	0
CLTAS-30CM	20.955	26.735	29.547	29.442	1.206	66300		-961.878	0
CLTAS	20.888	26.671	29.454	29.416	0.359	144960		-959.694	0
A1	21.016	26.8	29.603	29.437	1.043	9148		-963.867	0
A2	21.014	26.799	29.598	29.434	0.945	8864		-963.801	0
B1	21.119	26.9				6445		-967.224	0
B2	21.002	26.782	29.584	29.432	0.880	6948		-963.410	0
C1	20.989	26.776	29.573	29.434	0.945	5880		-962.986	0
C2	21.019	26.808	29.601	29.432	0.880	6763		-963.964	0

Annexe 23: Bassin versant - fraction 2-16µm

Echant	Situation	Cote	M001	M002	M005	C001	C2/K1	C003	C004	QTZ	Qz 100%	FK	ALB	Hématite	Pyrite	%Micas	%Chlorie	%Kaolinite
TA1-0CM	T A1	0	24264	12638	9002	11512	20616	6973	13582	14701	73505	0	50791	2755		54.06	45.94	0.00
TA1-12CM	T A1	12	55822	25602	16444	10870	29947	8517	16901	28639	143195	3298	28246	0		65.08	34.92	0.00
TA1-30CM	T A1	30	43544	15628	9676	9295	19419	4736	9888	8403	42015	2208	16008	0		69.16	30.84	0.00
TA1-50CM	T A1	50	49558	22626	13385	10520	26568	7951	15614	15952	79760	2296	19991	0		65.10	34.90	0.00
TA1-67CM	T A1	67	59122	29509	18399	11257	29683	8384	18453	20601	103005	2655	23353	0		66.58	33.42	0.00
TA1-70CM	T A1	70	37929	21363	16526	6690	21084	6739	14458	22611	113055	2364	31989	0		64.27	35.73	0.00
TA1-80CM	T A1	80	37859	16995	9865	7158	19870	5710	12725	9235	46175	1702	12797	0		65.58	34.42	0.00
TA1-92CM	T A1	92	66362	28475	15726	13128	32044	9496	17236	17861	89305	2975	18713	0		67.44	32.56	0.00
											0							
R3-LIT	Rio		46372	23206	17473	5373	13179	4346	11634	22518	112590	2283	20302	2266		77.87	22.13	0.00
R15-LIT	Rio		48562	16806	9354	7635	17537	4845	8842	13076	65380	1607	11653	1786		73.47	26.53	0.00
R20-LIT	Rio		28777	17134	14161	6545	20636	8644	14368	23697	118485	2029	19730	4859		58.24	41.76	0.00
R10-LIT	Rio		46398	23925	16441	5402	17871	6594	12456	14567	72835	2128	11831	2741		72.19	27.81	0.00
R23-LIT	Rio		19902	11932	13763	5432	16623	5779	13002	29100	145500	2352	28572	5039		54.49	45.51	0.00
R24-LIT	Rio		30132	13744	9935	4095	12950	2887	7991	16383	81915	1357	12071	2309		69.94	30.06	0.00
PLAGE NORD											0							
											0							
CR-30M	FM. ROUGE	30	13367	8872	7923	3324	11522	4283	10598	20497	102485	1703	17697	3861		53.71	46.29	0.00
CR-40M	FM. ROUGE	40	20725	10626	8612	6001	18383	5137	11011	17855	89275	2719	22444	5720		52.99	47.01	0.00
CR-60M	FM. ROUGE	60	26993	14470	8659	6871	18781	5814	11170	20209	101045	1998	16255	5709		58.97	41.03	0.00
CR-70M	FM. ROUGE	70	23327	10991	9281	6807	18780	5986	13297	30187	150935	2504	30602	7238		55.40	44.60	0.00
CR-80M	FM. ROUGE	80	19613	11511	9958	5010	13962	5051	9982	26373	131865	1750	38130	5661		58.42	41.58	0.00
CR-90M	FM. ROUGE	90	26578	16582	15849	8125	22894	8081	16608	38114	190570	0	74073	5926		53.72	46.28	0.00
CR-100M	FM. ROUGE	100	20902	12116	8664	4960	15634	5096	10538	20326	101630	1864	20354	4645		57.21	42.79	0.00
											0							
IR-2410M	COL IRIG	2410	19496	8563	5452	5253	15438	4026	7836	53704	268520	1446	578020	1728		55.81	44.19	0.00
IR-2420M	COL IRIG	2420	20996	7947	4559	1302	2908	0	2781	10793	53965	1519	1327469	1802		87.83	12.17	0.00
IR-2438M	COL IRIG	2438	26250	9936	5327	17655	98289	12911	51525	213578	1067890	0	547844	1380		21.08	78.92	0.00
IR-2440M	COL IRIG	2440	14728	7228	6198	2542	6455	1200	7955	29692	148460	1500	8157	3744		69.53	30.47	0.00
IR-2450M	COL IRIG	2450	17132	7985	5501	5225	26425	3923	15155	33890	169450	0	190728	3818		39.33	60.67	0.00
											0							
ECH11	MATRICE CGT		39142	20532		22914	38277	9564	18737	38709	193545	4100	17316	0		50.56	49.44	0.00
ECH7	Cc crete		9747	3843		0	0	0	2350	2544	12720	0	2165	0		100.00	0.00	0.00
ECH6	CALC'S.IN		8437	3368		2943	6318	0	3223	25760	128800	0	223352	0		57.18	42.82	0.00
ECH3	CC CRETE		15435	5731	2923		1836	1192	1762	34973	174865	0	1313	0	2002	89.37	10.63	0.00
											0							
CLTAS-10CM	CRAIES TAS	10	28266	19568	16698	14564	76333	23351	71764	22712	113560	2751	32286	0		27.02	72.98	0.00
CLTAS-20CM	CRAIES TAS	20	26365	18086	19163	14348	68693	23137	65263	23957	119785	2737	40392	0		27.74	72.26	0.00
CLTAS-30CM	CRAIES TAS	30	30445	20996	18724	15536	72786	27885	74772	23893	119465	2245	41838	0		29.49	70.51	0.00
											0							
CLTAS	CRAIES TAS		20145	12288	15061	7984	38222	11863	35301	44288	221440	3080	38951	0		34.51	65.49	0.00

Annexe 24: Bassin versant - fraction <2µm

		<i><2 Normal</i>												
<i>Echant</i>	<i>Situation</i>	<i>LS 2N</i>	<i>MOO1</i>	<i>MOO2</i>	<i>MOO5</i>	<i>COO1</i>	<i>C2/KI</i>	<i>COO3</i>	<i>COO4</i>	<i>Quartz</i>	<i>Qz100%</i>	<i>Fk</i>	<i>Plagio</i>	<i>Hématite</i>
R3-LIT	Rio	0.42	24678	9462	6500	4319	7082	3364	4991	3119	15595	2072	0	2897
R15-LIT	Rio	0.229	21440	8724	5640	3182	8008	3059	4619	1655	8275	2982	1373	1289
R20-LIT	Rio	0.57	26382	8851	5369	6245	14592	5278	7475	3413	17065	3520	2262	3951
R10-LIT	Rio	0.535	20549	4968	2042	4942	6856	2963	3778	1613	8065	1763	0	2253
R23-LIT	Rio	0.611	39187	13420	7107	9211	17654	7090	10825	2810	14050	5094	2105	5671
R24-LIT	Rio	0.363	29857	10259	5762	5729	9833	3145	7126	2815	14075	2305	1553	2346
PLAGE NORD	Rio	0.499	27609	12220	6254	6433	10945	4827	7774	2516	12580	3497	0	3561
											0			
CR-30M	FM. ROUGE	0.603	45417	24618	6829	10161	22415	7259	12411	2617	13085	4907	2449	2496
CR-40M	FM. ROUGE	0.39	27727	10203	4791	7003	17569	4840	10697	3038	15190	2323	1800	4302
CR-60M	FM. ROUGE	0.354	34051	13862	8201	6348	15344	5570	9047	3112	15560	1346	2967	4335
CR-70M	FM. ROUGE	0.573	35782	15605	7935	5821	17403	8680	12462	3898	19490	2172	2205	6795
CR-80M	FM. ROUGE	0.516	27763	10823	5090	5927	12338	5011	7077	2633	13165	2731	3054	4684
CR-90M	FM. ROUGE	0.486	31654	13842	7020	7715	17974	8907	11604	3326	16630	3437	5005	4805
CR-100M	FM. ROUGE	0.383	35340	13787	7628	7061	17178	5359	10129	2297	11485	2900	2135	4862
											0			
IR-2410M	COL IRIG	0.23	11589	4149	1812	7034	21185	4106	10596	1967	9835	1790	13208	0
IR-2420M	COL IRIG	0.184	14691	4842	2650	1225	2267	1209	2023	2587	12935	1770	2660	0
IR-2438M	COL IRIG	0.23	11816	4005	2479	20300	106530	15460	55089	5363	26815	0	10038	0
IR-2440M	COL IRIG	0.596	39477	11998	4910	5317	12707	2806	13763	4136	20680	7329	1563	2786
IR-2450M	COL IRIG	0.417	19583	6702	3588	6124	35358	4952	24036	4262	21310	2159	12781	0
											0			
ECH11	MATRICE CGT	0.618	40276	20087	6905	15892	32983	11381	21360	4400	22000	0	1736	0
ECH7	Cc Crete	0.212	30768	15597	5450	0	3178	0	2141	1497	7485	1635	1719	0
ECH6	CALC?S.IN	0.257	17506	4817	2436	4842	10465	2273	5372	2008	10040	1615	7893	0
ECH3	CC CRETE	0.207	26356	8168	3722	1148	2152	1633	1831	1264	6320	0	0	0
											0			
CLTAS-10CM	CRAIES TAS	0.435	20845	8584	4809	10797	54712	16206	46704	3364	16820	2121	3375	0
CLTAS-20CM	CRAIES TAS	0.368	18112	7776	3656	9810	44425	14227	40004	2496	12480	2280	2002	0
CLTAS-30CM	CRAIES TAS	0.346	23616	9555	5918	11825	47574	16868	47336	2802	14010	2735	3558	0
											0			
CLTAS	CRAIES TAS	0.471	38460	15246	10110	10158	57646	18892	62000	4030	20150	5039	1523	0

Annexe 24: Bassin versant - fraction <2µm

<i>Echant</i>	<i>Situation</i>	<2 Glycolé						<2 Glycolé					
		<i>Smectite</i>	<i>M001</i>	<i>IS002</i>	<i>C002</i>	<i>K001</i>	<i>C/S</i>	<i>M001%</i>	<i>IS002%</i>	<i>C002 %</i>	<i>K001%</i>	<i>C/S%</i>	<i>Sm%</i>
R3-LIT	Rio		19080	1200	7080	2220	900	62.60	3.94	23.23	7.28	2.95	0.00
R15-LIT	Rio		27120	2460	9240	2760	1020	63.66	5.77	21.69	6.48	2.39	0.00
R20-LIT	Rio		14820	0	12240	5580	1620	43.26	0.00	35.73	16.29	4.73	0.00
R10-LIT	Rio		12480	1260	6000	3240	2340	49.29	4.98	23.70	12.80	9.24	0.00
R23-LIT	Rio		23040	2880	15000	5880	2520	46.72	5.84	30.41	11.92	5.11	0.00
R24-LIT	Rio		22620	2820	10980	3180	1560	54.96	6.85	26.68	7.73	3.79	0.00
PLAGE NORD	Rio												
CR-30M	FM. ROUGE		33480	6240	20460	4200	3120	49.60	9.24	30.31	6.22	4.62	0.00
CR-40M	FM. ROUGE		20940	1980	19140	2820	1380	45.27	4.28	41.37	6.10	2.98	0.00
CR-60M	FM. ROUGE		27120	4920	14280	3000	2760	52.07	9.45	27.42	5.76	5.30	0.00
CR-70M	FM. ROUGE		33300	8400	21120	2160	1200	50.32	12.69	31.91	3.26	1.81	0.00
CR-80M	FM. ROUGE		23160	5340	12120	1560	1440	53.09	12.24	27.79	3.58	3.30	0.00
CR-90M	FM. ROUGE		25980	3180	19620	2700	1260	49.26	6.03	37.20	5.12	2.39	0.00
CR-100M	FM. ROUGE		25440	3780	15480	4440	2160	49.59	7.37	30.18	8.65	4.21	0.00
IR-2410M	COL IRIG	1200	9840	1560	20160	1560	2400	26.80	4.25	54.90	4.25	6.54	3.27
IR-2420M	COL IRIG	0	15180	900	2700	1260	0	75.75	4.49	13.47	6.29	0.00	0.00
IR-2438M	COL IRIG	1200	7320	0	115200	0	0	5.92	0.00	93.11	0.00	0.00	0.97
IR-2440M	COL IRIG	0	22560	5760	11520	0	0	56.63	14.46	28.92	0.00	0.00	0.00
IR-2450M	COL IRIG	0	16140	2280	39180	0	0	28.02	3.96	68.02	0.00	0.00	0.00
ECH11	MATRICE CGT	58496	29040	4920	28500	28500	2640	19.09	3.23	18.74	18.74	1.74	38.46
ECH7	Cc Crete		27540	0	2160	1980	0	86.93	0.00	6.82	6.25	0.00	0.00
ECH6	CALC'S.IN		15180	1920	8700	3600	2100	48.19	6.10	27.62	11.43	6.67	0.00
ECH3	CC CRETE	2158	20700	2880	0	0	0	80.43	11.19	0.00	0.00	0.00	8.38

Annexe 25: Carotte TB - fraction <2µm

Echan.	Prof	<2µ Normal													<2µ Glycolé											
		M001	M002	M005	C001	C002	C003	C004	C004	K002	K002	Lépid.	IS (2N)	Quartz	Plagio	FK	M001	IS002	CHL002	K001	C/S2	M%	IS%	CHL%	KAOL%	C/S%
TB10B	10	52699	37759	10809	17173	27276	14081	248	14880	85	5100	0	13440	3055	0	43020	11700	19980	5940	2640	51.66	14.05	23.99	7.13	3.17	
TB20B	20	27931	12874	6058	7485	14150	6007	142	8520	63	3780	1806	5220	2630	2501	1480	21900	3960	10140	4560	1320	52.29	9.46	24.21	10.89	3.15
TB30B	30	40949	17590	7042	12406	20421	7475	167	10020	88	5280	3951	7740	2406	2008	1903	33180	8880	19200	7140	2700	46.67	12.49	27.00	10.04	3.80
TB40B	40	39897	18250	7085	13666	20424	8602	198	11880	56	3360	6929	5820	2439	2119	1581	29640	4020	15540	6840	1380	51.62	7.00	27.06	11.91	2.40
TB50B	50	45127	24385	8990	16131	23499	10410	245	14700	104	6240	0	12600	3155	2708	0	36360	8400	18720	5220	2340	51.18	11.82	26.35	7.35	3.29
TB60B	60	40958	26179	8186	16309	22295	9920	196	11760	78	4680	2738	9420	3212	2453	0	33240	8460	17760	5640	2640	49.07	12.49	26.22	8.33	3.90
TB65B	65	34800	17776	6454	10994	15800	7162	137	8220	40	2400	0	7140	2808	2169	1905	27840	4800	12900	2940	2880	54.21	9.35	25.12	5.72	5.61
TB75B	75	30240	12836	5077	8952	12836	5545	141	8460	45	2700	0	3480	2588	1720	1839	23160	1920	11700	4920	1620	53.46	4.43	27.01	11.36	3.74
TB85B	85	42927	19289	6591	12751	17813	7627	150	9000	64	3840	0	7740	2653	2018	0	31560	6540	15240	4740	1680	52.81	10.94	25.50	7.93	2.81
TB95B	95	38250	17361	6639	10214	14842	6534	131	7860	69	4140	0	5940	2501	2100	1560	28200	5640	13080	2340	1740	55.29	11.06	25.65	4.59	3.41
TB110B	110	28860	14020	6354	7393	13394	5732	146	8760	69	4140	0	5520	2148	1386	1406	26820	2580	13560	4140	1740	54.91	5.28	27.76	8.48	3.56
TB120B	120	41324	15913	7507	8844	16009	6971	144	8640	64	3840	0	5640	2569	2091	0	29160	3000	16980	4260	1560	53.06	5.46	30.90	7.75	2.84
TB130B	130	26796	11158	6096	7690	13048	4612	125	7500	66	3960	0	4680	1596	1679	1393	22020	2760	10740	5760	1620	51.33	6.43	25.03	13.43	3.78
TB140B	140	26093	9211	4965	5862	10468	3780	106	6360	60	3600	0	2700	1729	1628	2387	19620	1380	9480	2760	1980	55.71	3.92	26.92	7.84	5.62
TB150B	150	27166	8033	4814	7222	13032	4483	134	8040	58	3480	0	1800	1723	1460	0	21000	1380	13620	3300	1440	51.55	3.39	33.43	8.10	3.53
TB160B	160	35024	13957	6771	10503	16435	5965	149	8940	80	4800	0	2940	2228	2178	0	24120	3660	12780	5940	1800	49.94	7.58	26.46	12.30	3.73
TB169B	169	44894	36625	9792	20182	25184	11286	245	14700	124	7440	0	11880	3095	3823	0	39000	9420	15180	7320	3600	52.33	12.64	20.37	9.82	4.83
TB176B	176	34325	15634	6266	11443	16259	7218	158	9480	64	3840	0	4020	2435	2402	0	28680	4620	12120	6600	1260	53.83	8.67	22.75	12.39	2.36

Annexe 26: Carotte TB - fraction 2-16µm (CPM)

Echan	Prof	M001	M002	M005	C001	C002/K	C003	C004	K002	Palyg	Quartz	Plagio	COO2
TB10B	10	33615	22549	19858	7502	20140	6505	15008	3240	0	31509	19535	16564
TB20B	20	75241	32800	20555	13120	32236	9042	17178	3120	2786	20527	18526	27281
TB30B	30	67320	27923	18816	11666	28011	7826	15813	3540	3283	22530	25147	22887
TB40B	40	80158	38599	27664	12309	35623	10445	20223	5040	2729	24628	24129	28516
TB50B	50	52032	26866	18762	7907	26665	8624	17455	3420	1233	24117	16934	22296
TB60B	60	74847	34767	24053	12302	33220	9043	18885	3300	0	27975	27582	28279
TB65B	65	78583	35274	23586	11471	31437	8742	18311	3060	0	24751	24419	26936
TB75B	75	80888	33727	23397	11547	28800	7768	16789	2580	0	16623	28569	24964
TB85B	85	96415	39452	26667	13938	36515	9418	19802	3960	0	21966	20658	30430
TB95B	95	62765	30029	20676	9567	25339	7401	16225	3480	0	28014	25003	20864
TB110B	110	78186	30110	18795	12557	29076	8215	15653	5100	0	18723	22414	21931
TB120B	120	75197	30197	18724	11556	26785	6834	15117	4500	0	16872	26668	20641
TB130B	130	89756	33501	22355	13977	33045	9269	19255	5580	0	15377	17089	25620
TB140B	140	68935	25949	15305	10941	25419	6997	14637	1800	0	15673	26138	22635
TB150B	150	75998	28976	18320	12767	31462	9075	18061	3120	0	16281	27449	26828
TB160B	160	91328	34777	21778	14483	36236	10667	20490	3480	0	18117	21456	30975
TB169B	169	53574	31406	22766	6975	24126	7215	18379	3660	0	24523	18268	20119
TB176B	176	88582	38280	26419	13399	34095	9915	20558	2040	0	20912	20621	31017

Annexe 27: Carotte IS6 - géochimie

Sec.cm	Depth	RI	PO4	SIO2	Ca	Mg	Sr	Mn	Fe	Na	K	Al
0:11:00	1.8	81.6300	0.1006	1.5242	1.4800	2.5902	0.0538	0.0643	1.4545	0.0613	0.1664	0.9564
0:34:00	24.8	76.0100	0.1032	1.6464	5.6600	2.0868	0.1447	0.0632	1.6569	0.0713	0.1835	1.0067
0:45:00	35.8	79.0600	0.1033	1.4506	3.0500	1.5797	0.1013	0.0673	1.6692	0.0616	0.1769	1.0929
0:55:00	45.8	74.4300	0.1076	1.5244	6.1800	1.7834	0.1704	0.0649	1.6140	0.0724	0.1584	0.9266
0:65:00	55.8	74.7500	0.1078	1.5569	5.2100	1.7665	0.1407	0.0689	1.6766	0.0701	0.1756	0.9980
0:83:00	73.8	76.3100	0.1125	1.6031	4.0100	1.5334	0.1235	0.0608	1.7724	0.0608	0.1882	1.0953
1:08:00	66.4	78.6300	0.1086	1.5845	2.2600	1.5147	0.0897	0.0635	1.7140	0.0585	0.1863	1.1958
1:18:00	76.4	71.1000	0.1153	1.5802	7.2100	1.7094	0.2336	0.0683	1.6498	0.0641	0.1670	0.9143
1:40:00	98.4	72.3200	0.1136	1.5644	7.4100	1.6441	0.1923	0.0692	1.9530	0.0603	0.1515	0.9067
1:50:00	108.4	74.9500	0.1028	1.2572	5.6300	1.4668	0.1477	0.0580	2.0754	0.0491	0.1467	0.8980
1:89:00	147.4	69.4500	0.1015	1.3328	8.4500	1.5417	0.2447	0.0626	2.2081	0.0642	0.1681	0.9847
2:12:00	169.7	74.8000	0.1006	1.3145	5.6000	1.2647	0.1424	0.0670	2.0912	0.0503	0.1504	0.9460
2:20:00	177.7	72.4600	0.1185	1.3242	6.1800	1.4138	0.1434	0.0711	1.9315	0.0607	0.1732	1.8917
2:32:00	189.7	75.9700	0.1064	1.2931	5.7200	1.1738	0.1602	0.0651	1.7507	0.0518	0.1611	0.9947
2:49:00	206.7	79.4800	0.1038	1.3770	3.1400	1.0876	0.0888	0.0801	1.8160	0.0477	0.1587	1.0976
2:67:00	224.7	73.2000	0.1186	1.4348	6.9700	1.2057	0.1554	0.0804	1.8135	0.0547	0.1704	0.9167
2:81:00	238.7	78.8700	0.1032	1.7760	3.5000	1.0021	0.0893	0.0779	1.6470	0.0505	0.1607	0.9922
2:96:00	253.7	80.8900	0.1029	1.6878	2.4200	0.9987	0.0649	0.0704	1.6978	0.0429	0.1648	0.9687
3:08:00	266.3	80.0600	0.1086	1.7727	2.9500	0.9760	0.0697	0.0822	1.5935	0.0446	0.1564	0.9860
4:09:00	280.1	85.1500	0.1267	1.8759	6.0400	1.5067	0.0049	0.0570	1.7761	0.0374	0.1606	1.0976
4:24:00	295.1	83.6000	0.1212	1.8285	1.7100	1.0633	0.0122	0.0619	1.7689	0.0411	0.1550	0.9937
4:40:00	311.1	84.7600	0.1187	1.7855	0.9000	0.9875	0.0089	0.0496	1.9152	0.0343	0.1606	0.9975
4:57:00	328.1	86.2300	0.1149	1.8029	0.6400	0.9609	0.0079	0.0552	1.7533	0.0346	0.1496	0.8024
4:70:00	341.1	78.5400	0.1214	1.6915	4.4800	0.9751	0.0657	0.1057	1.4925	0.0334	0.1264	0.8557
4:79:00	350.1	81.9700	0.1158	2.1266	2.6500	1.0084	0.0549	0.0977	1.6973	0.0352	0.1398	1.1981
4:93:00	364.1	85.6300	0.1265	1.7336	0.4000	1.0162	0.0060	0.0761	2.0126	0.0306	0.1445	1.2952
5:09:00	383.2	89.5500	0.1168	1.9271	0.0100	1.0684	0.0024	0.0349	2.0369	0.0356	0.1677	0.7788
5:23:00	395.2	81.6800	0.1045	1.4628	4.0900	0.8757	0.0245	0.0644	1.3335	0.0249	0.0975	0.8459
5:52:00	424.2	79.3100	0.1057	1.7449	4.8400	0.8874	0.0344	0.0523	1.4358	0.0281	0.1167	0.6780
5:67:00	439.2	81.7200	0.1025	1.4129	4.1300	0.8159	0.0270	0.0595	1.2935	0.0231	0.0876	0.9950
5:77:00	449.2	88.6800	0.1182	1.7677	0.0300	0.9435	0.0038	0.0314	2.0605	0.0348	0.1291	1.0845
5:95:00	467.2	76.6000	0.0988	1.5723	6.1200	0.8956	0.0471	0.0688	1.7315	0.0258	0.1085	0.9255
6:12:00	484.1	88.6700	0.1171	1.7763	0.0400	0.9824	0.0038	0.0483	2.0641	0.0309	0.1379	1.1908
6:28:00	500.1	83.6900	0.1218	1.8064	1.5200	0.9780	0.0125	0.1820	1.7365	0.0248	0.1208	0.9980
6:45:00	517.1	79.6700	0.1082	1.6974	3.9900	0.8934	0.0416	0.1363	1.7074	0.0231	0.1032	0.9927
6:63:00	535.1	82.4500	0.1220	1.7498	1.7600	0.9099	0.0166	0.1732	1.8598	0.0197	0.1020	0.9899
6:78:00	550.1	84.8900	0.1114	1.8701	0.9600	0.9350	0.0196	0.0458	1.8104	0.0244	0.1243	1.0942
6:90:00	561.7	79.5800	0.1029	1.8075	4.1700	0.8788	0.0540	0.0597	1.5378	0.0201	0.0969	0.8488
6:94:00	566.1	84.3900	0.1065	1.8515	0.2800	0.9257	0.0043	0.0357	2.3094	0.0252	0.0976	0.9954
7:04:00	575.8	63.3300	0.0997	1.4766	14.3200	0.6984	0.6116	0.0420	1.2372	0.0379	0.0738	0.5886
7:15:00	586.8	68.8100	0.0862	1.5641	10.7100	0.9364	0.1664	0.0730	1.8131	0.0256	0.0807	0.6774
7:29:00	600.8	85.2500	0.0982	1.8015	0.4500	0.9057	0.0073	0.0299	1.9508	0.0223	0.0975	0.9356
7:40:00	611.8	87.6000	0.0994	1.8491	0.0900	0.8251	0.0032	0.0222	1.7894	0.0250	0.0905	1.0935
7:53:00	624.8	64.0000	0.0920	1.6567	13.6900	1.0080	0.2026	0.0804	1.4770	0.0271	0.0768	0.6487
7:66:00	638.1	66.7400	0.0880	1.5050	12.6900	0.9768	0.2841	0.0561	1.0565	0.0280	0.0807	0.7176
7:74:00	645.8	55.1200	0.0865	1.3555	18.5000	1.0665	0.4176	0.0673	0.7974	0.0277	0.0648	0.4884
7:84:00	655.8	55.9700	0.0925	1.5250	18.0200	1.1163	0.3229	0.0723	0.9170	0.0282	0.0728	0.5881
7:96:00	667.8	58.9800	0.0870	1.1988	15.7200	1.0190	0.2448	0.0661	0.9191	0.0259	0.0709	0.5694
8:10:00	681.3	61.6700	0.0847	1.5076	15.5100	0.9884	0.2137	0.0598	0.9984	0.0251	0.0769	0.6490
8:25:00	696.3	43.0900	0.0611	1.1156	21.9600	2.1715	0.2699	0.0522	0.6176	0.0266	0.0498	0.5180
8:43:00	714.3	55.6300	0.0542	1.6289	16.1100	3.4176	0.0385	0.0435	0.8594	0.0284	0.0719	0.6196

Annexe 28: Carotte et relevé TB - géochimie

Sample n°	Depth (cm)	RI (%)	Ca (%)	Mg (%)	Sr (%)	SiO2 (%)	Na (%)	K (%)	Fe (%)	Mn (%)	PO4 (%)
TB-0CM	0	88.474	2.17	0.685	0.015	0.77	0.01	0.063	1.516	0.028	0.1
TB-5CM	5	90.321	1.93	0.509	0.008	0.8	0.007	0.06	1.366	0.03	0.103
TB1/3-10	10	40.327	22.64	0.469	0.85	0.845	0.039	0.047	1.129	0.018	0.06
TB-15CM	15	41.674	20.91	0.438	0.808	0.634	0.036	0.084	1.117	0.017	0.065
TB1/3-20	20	19.684	31.26	0.249	1.094	0.373	0.045	0.02	0.55	0.014	0.038
TB-25CM	25	18.829	29.82	0.249	1.182	0.268	0.084	0.019	0.404	0.012	0.032
TB1/3-30	30	20.649	30.46	0.449	1.026	0.457	0.039	0.022	0.74	0.03	0.039
TB-35CM	35	20.959	29.89	0.449	0.942	0.377	0.037	0.02	0.612	0.026	0.035
TB1/3-40	40	21.7	29.85	0.299	0.991	0.335	0.034	0.018	0.501	0.021	0.035
TB-45CM	45	21.806	30	0.43	0.855	0.413	0.033	0.021	0.917	0.024	0.041
TB1/3-50	50	26.866	27.29	0.807	0.588	0.478	0.026	0.022	0.72	0.036	0.037
TB-55CM	55	22.488	27.54	1.01	0.574	0.473	0.028	0.084	0.849	0.037	0.04
TB1/3-60	60	26.914	26.51	0.974	0.596	0.562	0.022	0.025	0.711	0.028	0.038
TB1/2-1	65	24.107	27.16	1.141	0.618	0.584	0.018	0.025	0.91	0.018	0.041
TB1/2-10	75	18.774	29.39	1.218	0.681	0.418	0.02	0.019	0.557	0.02	0.032
TB1/2-20	85	22.974	27.96	1.139	0.62	0.591	0.017	0.025	0.796	0.026	0.037
TB1/2-30	95	25.871	27.47	1.174	0.393	0.604	0.016	0.025	0.81	0.028	0.041
TB-105CM	105	21.128	28.63	1.092	0.562	0.252	0.016	0.014	0.344	0.016	0.024
TB1/1-9	110	20.888	29.38	1.118	0.596	0.474	0.018	0.02	0.485	0.017	0.032
TB-115CM	115	24.736	28.02	1.126	0.538	0.431	0.017	0.018	0.722	0.018	0.032
TB1/1-19	120	22.202	28.69	1.081	0.571	0.605	0.019	0.023	0.96	0.017	0.041
TB1/1-29	130	9.432	33.94	1.212	0.823	0.226	0.017	0.01	0.242	0.012	0.017
TB1/1-39	140	13.898	32.51	1.142	0.766	0.241	0.018	0.011	0.354	0.013	0.019
TB1/1-49	150	9.248	34.16	1.518	0.778	0.245	0.02	0.01	0.256	0.02	0.021
TB1/1-59	160	17.51	30.68	1.316	0.656	0.471	0.018	0.018	0.398	0.016	0.028
TB1/1-67	170	31.488	29.28	0.834	0.741	0.542	0.024	0.064	1.465	0.019	0.029
TB1/1-76	176	20.33	24.09	0.418	1.468	0.264	0.03	0.022	0.399	0.008	0.045

Annexe 29: Carotte et relevé TA1 - géochimie

Sample n°	Depth (cm)	RI (%)	Ca (%)	Mg (%)	Sr (%)	SiO2 (%)	Na (%)	K (%)	Fe (%)	Mn (%)	PO4 (%)
TA1-0CM	0	92.623	1.48	0.419	0.012	0.752	0.007	0.021	1.585	0.014	0.066
TA1-12CM	12	39.336	21.4	0.457	0.615	0.747	0.046	0.051	0.779	0.017	0.045
TA1 - 15CM	18	27.5	27.58	0.359	0.783	0.561	0.05	0.034	0.704	0.013	0.037
TA1 - 25CM	28	12.529	33.53	0.28	1.477	0.306	0.045	0.019	0.209	0.017	0.018
TA1-30CM	30	4.741	36.9	0.358	1.404	0.106	0.04	0.01	0.089	0.027	0.012
TA1 - 32CM	35	4.233	37.23	0.449	1.165	0.078	0.035	0.006	0.089	0.03	0.011
TA1 - 97CM	42	11.56	34.52	0.466	1.205	0.366	0.038	0.017	0.246	0.027	0.02
TA1-50CM	50	15.012	32.62	0.418	1.077	0.343	0.036	0.016	0.239	0.02	0.024
TA1 - 85CM	54	24.087	28.12	0.388	0.984	0.609	0.035	0.03	0.489	0.015	0.034
TA1 - 74CM	65	17.966	29.92	1.094	0.685	0.38	0.019	0.016	0.313	0.023	0.02
TA1-67CM	67	20.638	27.34	1.07	0.657	0.373	0.016	0.016	0.363	0.022	0.022
TA1-70CM	70	25.47	26.82	1.085	0.622	0.484	0.015	0.02	0.43	0.021	0.025
TA1-80CM	80	13.842	32.33	0.949	1.024	0.316	0.022	0.014	0.253	0.021	0.023
TA1 - 55CM	84	21.133	29.4	0.785	1.02	0.433	0.024	0.019	0.46	0.02	0.029
TA1-92CM	92	18.858	31.33	0.638	1.13	0.44	0.027	0.017	0.349	0.016	0.03
TA1 - 44	96	23.929	28.95	0.509	1.043	0.651	0.031	0.029	0.644	0.016	0.038

Annexe 30: Isotopes stables

Sample name	Prof cm	Carbone PDB	Oxygene PDB
IS5:01:13	7.80	-2.30	4.20
IS5:01:65	60.30	-1.33	5.73
IS5:02:06	100.90	-2.08	5.52
IS5:02:74	169.10	-2.38	4.89
IS5:03:42	218.30	-1.77	5.57
IS5:05:23	255.40	-2.12	5.45
IS5:05:77	309.40	-2.01	5.46
IS5:06:05	334.70	-2.44	4.99
IS5:06:27	356.7	-2.792	5.463
IS5:06:27	356.7	-2.508	5.081
IS5:06:55	384.70	-3.15	5.43
IS5:07:36	443.70	-2.50	5.61
IS5:07:91	498.70	-3.12	5.11
IS5:08:15	520.9	-2.953	5.362
IS5:08:50	560.9	-3.505	6.189
IS5:08:72	577.90	-4.04	2.52
IS5:08:93	598.9	-4.25	6.049
IS5:09:13	616.90	-3.39	3.94
IS5:09:67	668.5	-3.647	5.782
IS5:10:96	707.4	-4.21	5.406
IS5:11:18	723.90	-4.48	5.45
IS5:11:77	789.40	-7.32	2.92
IS5:12:16	826.20	-6.61	5.16
IS5:12:92	902.00	-6.00	5.22

TB010 (C. vidua)	10	0.168	-0.292
TB085 (Eucypris)	85	0.797	0.905
TB120 (Eucypris)	120	1.83	1.168
TB120 (Eucypris)	120	1.816	0.841
TB176 (Eucypris)	176	3.948	0.158

Sample name	Prof cm	Carbone PDB	Oxygene PDB
IS6/0-19	9.8	-2.045	6.046
IS6/0-19	9.8	-2.336	5.951
IS6/0-52	42.8	-2.086	6.427
IS6/1-12	70.4	-2.069	6.001
IS6/2-16	173.7	-4.232	5.85
IS6/2-37	194.7	-4.616	5.528
IS6/2-64	221.7	-4.207	5.327
IS6/2-99	256.7	-4.017	5.749
IS6/2-99	256.7	-4.15	5.212
IS6/5-74	446.2	-3.285	5.697
IS6/6-54	526.1	-1.239	4.6
IS6/6-86	557.7	-0.487	6.3
IS6/7-07	578.8	3.041	4.746
IS6/7-32	603.8	3.397	3.196
IS6/7-58	629.8	4.085	5.018
IS6/7-73	644.8	3.614	4.417
IS6/7-91	662.8	4.913	4.488
IS6/8-08	679.3	3.995	3.988
IS6/8-40	711.3	3.076	3.564

TB010R	10	1.986	0.492
TB020R	20	2.374	0.368
TB040R	40	3.003	-0.302
TB060R	60	2.113	-0.806
TB085R	85	1.122	-1.07
TB095R	95	0.866	-0.909
TB120R	120	1.636	-1.474
TB140R	140	2.137	-1.015
TB160R	160	3.293	-1.061
TB176R	176	5.077	-0.924

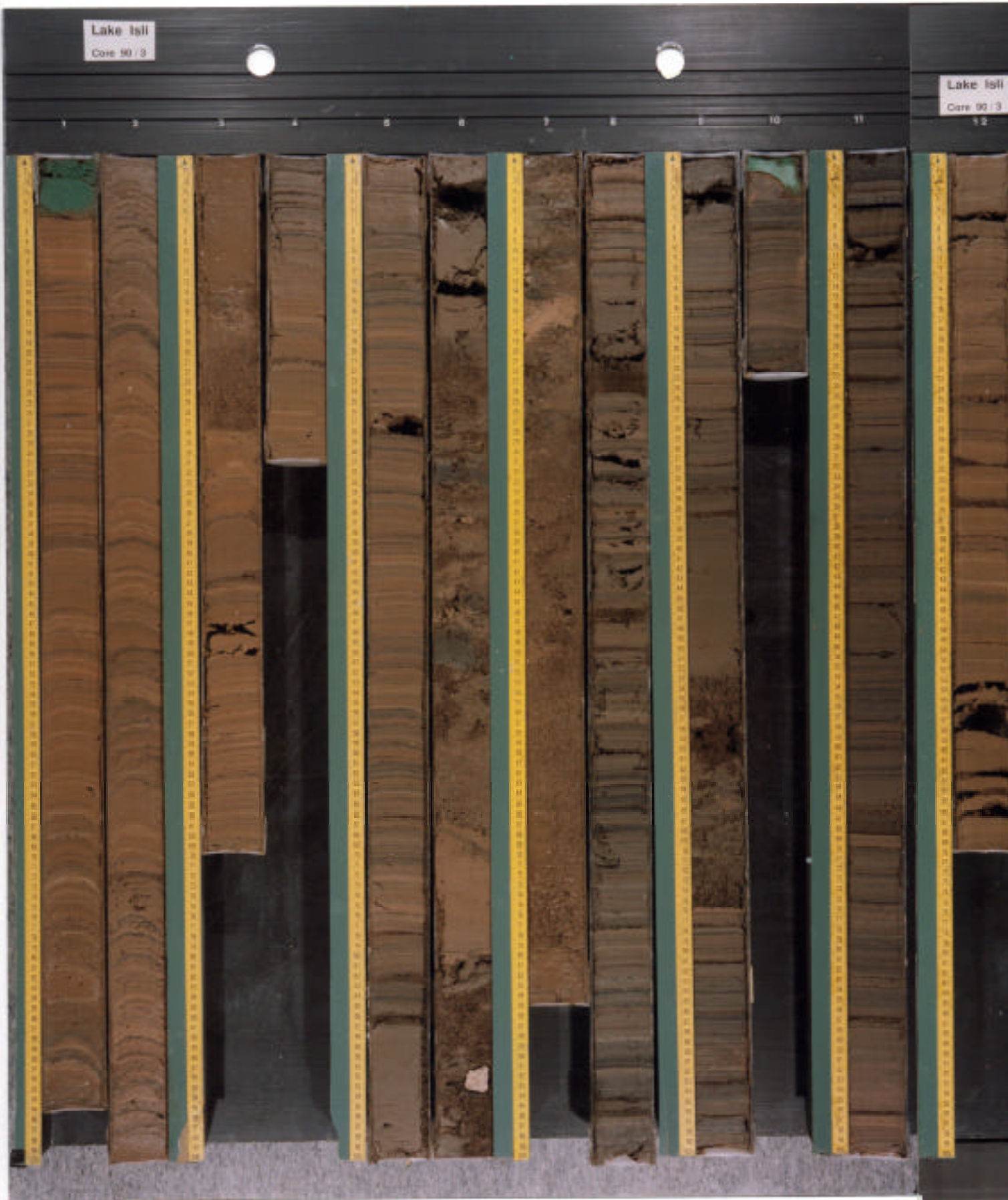
Annexe 31: Eléments traces sur tests d'ostracodes

Echantillons	Prof (cm)	Mg1/Ca1	Mg2/Ca2	Mg3/Ca3	Mg4/Ca4	Sr1/Ca1	Sr2/Ca2	Sr3/Ca3	Sr4/Ca4
IS5/1-13	7.80	0.0049549	0.0038756	0.0033987		0.0004157	0.0004053	0.0003538	
IS5/1-65	60.30	0.0061312	0.0043375	0.0036826		0.0003759	0.0004785	0.0004435	
IS5/2-06	100.90	0.0046246	0.0056891	0.0063025	0.0056437	0.0004203	0.0004697	0.0007069	0.0004293
IS5/2-74	169.10	0.0041368	0.0047157	0.0033023	0.0042644	0.0003477	0.0004808	0.0004231	0.0003788
IS5/3-42	218.30	0.0047628	0.0045023	0.0032331	0.0046115	0.0004441	0.0004682	0.0003952	0.0004104
IS5/5-23	255.40	0.0041409	0.0054750	0.0031434	0.0046059	0.0002987	0.0003279	0.0002977	0.0003159
IS5/5-77	309.40	0.0040664	0.0045380	0.0027849	0.0038631	0.0002781	0.0003135	0.0003043	0.0002754
IS5/6-05	334.70	0.0036521	0.0042474	0.0029323		0.0004315	0.0004655	0.0003471	
IS5/6-27	356.70	0.0040155	0.0044701	0.0027547	0.0037576	0.0004197	0.0004829	0.0003384	0.0004135
IS5/6-47	376.70	0.0042544	0.0044403	0.0026107	0.0036120	0.0004326	0.0004650	0.0004002	0.0003902
IS5/6-55	384.70	0.0057750	0.0068163	0.0024935	0.0055562	0.0003837	0.0004067	0.0004116	0.0003481
IS5/7-36	443.70	0.0043552	0.0048004	0.0026980	0.0046780	0.0005500	0.0005961	0.0005449	0.0005580
IS5/7-91	498.70	0.0055509	0.0059021	0.0037696		0.0003897	0.0003482	0.0003843	
IS5/8-15	520.90	0.0037543	0.0042759	0.0022644	0.0033388	0.0003997	0.0005065	0.0004239	0.0004166
IS5/8-26	531.90	0.0051925	0.0073730	0.0038319	0.0063342	0.0004686	0.0005150	0.0005115	0.0004377
IS5/8-50	555.90	0.0040823	0.0049849	0.0030496	0.0056366	0.0004637	0.0004192	0.0003654	0.0004707
IS5/8-72	577.90	0.0060491	0.0061108	0.0029518	0.0053042	0.0003811	0.0004698	0.0004034	0.0004018
IS5/8-93	588.90	0.0062163	0.0044540	0.0026918	0.0058709	0.0003826	0.0004188	0.0003926	0.0004254
IS5/9-13	616.90	0.0047611	0.0056690	0.0028592	0.0042013	0.0004592	0.0003842	0.0004202	0.0004315
IS5/9-36	639.90	0.0055164	0.0052413	0.0028664	0.0042698	0.0004683	0.0005177	0.0004436	0.0009177
IS5/9-67	667.90	0.0047157	0.0049785	0.0028616	0.0051409	0.0004039	0.0005341	0.0004338	0.0003534
IS5/9-86	686.90	0.0046430	0.0045731	0.0042319	0.0052380	0.0005293	0.0005327	0.0006398	0.0005449
IS5/10-96	706.90	0.0026810	0.0039729	0.0018605	0.0027463	0.0004317	0.0003898	0.0004651	0.0003625
IS5/11-18	723.90	0.0039532	0.0046216	0.0029238	0.0044554	0.0003510	0.0004085	0.0004716	0.0004615
IS5/11-77	789.40	0.0031212	0.0028706	0.0030659	0.0034135	0.0004479	0.0003292	0.0003565	0.0003376
IS5/12-16	826.20	0.0035734	0.0041542	0.0020437	0.0036848	0.0003878	0.0005125	0.0004514	0.0003947
IS5/12-50	860.20	0.0045153	0.0040501	0.0021864	0.0027991	0.0004444	0.0005264	0.0004248	0.0003305
IS5/12-92	902.00	0.0034195	0.0028760	0.0023424		0.0004965	0.0003950	0.0004162	
ISG-0	-2.00	0.0033514	0.0038297	0.0024136	0.0044392	0.0003994	0.0004724	0.0003990	0.0003762
IS6/2-99		0.0041980	0.0028359	0.0015255	0.0046418	0.0004378	0.0004134	0.0003589	0.0003525
IS6/6-87		0.0022484	0.0019359	0.0013613	0.0027999	0.0018082	0.0013506	0.0018890	0.0017042
IS6/6-98		0.0015846	0.0016478	0.0008509	0.0015282	0.0006029	0.0007169	0.0005911	0.0005997
IS6/7-73		0.0011433	0.0012847	0.0007510	0.0013393	0.0014507	0.0014250	0.0013221	0.0013784

Carotte IS3

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Carotte IS5



Carotte IS6



Carotte IS7

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