

Appendix 9 HPLC Photopigment Data (supplied by AEL)

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No.	Name	Sample Total Dry Weight gr	Date Processed	Sample ID	Dry Weight mg	Amount ppb Chlc2	Amount ppb Fuco	Amount ppb Ddx	Amount ppb Sud	Amount ppb Allo	Amount ppb Lut	Amount ppb Zea	Amount ppb Cant	Amount ppb Chlb	Amount ppb Chla	Amount ppb DVCh-a	Amount ppb Echi	Amount ppb Phta	Amount ppb Acar	Amount ppb Beta
380	CALCHK		14-Aug-12				169.21		736.28				112.64		111.97					
	CALCHK, %						99.5%		105.2%				93.9%		112.0%					
403	MBSR	0	14-Aug-12	Blank	0		130.74		588.84				126.91		69.18					
	MBSR, %						96.1%		98.1%				105.8%		86.5%					
404	158	26.426	14-Aug-12	HS001NEWMLL	212	249.31	4536.15	812.54	576.76	16.83	100.67	79.77	1.01	16.56	3098.45	1332.84	13.70	301.11	131.93	
405	159	0	14-Aug-12	HS001NEWMLL dup	205	234.07	3879.50	781.68	597.48	12.99	104.37	64.93	1.43	25.34	2687.40	1209.06	11.23	237.58	97.86	
	Dup Reproduce., %						103.2%	107.8%	101.9%	98.2%	112.9%	98.2%	110.3%	82.5%	79.0%	107.1%	104.9%	109.9%	111.8%	114.8%
406	160	0	14-Aug-12	HS001NEWMLL spk	212	323.78	4004.51	795.47	623.16	12.79	97.00	69.69	105.88	17.31	3157.06	1488.79	13.95	267.86	116.33	
	Spike Recovery, %						91.9%		103.9%				87.0%		93.9%					
407	161	27.173	14-Aug-12	HS002NEWMLL	206	229.58	3144.70	684.58	570.93	31.78	213.87	171.26	4.03	7.65	2731.32	1257.21	7.35	449.31	226.77	
408	162	13.329	14-Aug-12	HS597	228	74.39	2639.40	587.82	593.33	74.47	162.39	268.23	5.58	20.27	2659.60	971.55	10.66	612.37	111.93	
409	163	22.092	14-Aug-12	HS598	203	53.79	1301.83	373.37	604.45	37.84	135.56	243.66	1.86	10.30	2043.59	563.87	13.74	542.06	90.80	
410	164	24.885	14-Aug-12	HS611	217	31.15	777.67	286.44	612.60	30.22	111.48	183.18	3.16	18.45	1691.24	318.96	11.84	119.17	61.47	
411	165	19.834	14-Aug-12	HS612	203	24.43	689.44	310.72	592.60	37.12	99.37	135.41	3.39	16.52	1230.07	221.49	13.14	181.50	51.43	
412	166	22.916	14-Aug-12	HS613	200	34.99	844.60	322.75	611.32	10.09	101.12	124.56	3.00	60.87	1400.37	335.08	7.95	56.38	69.33	
413	167	16.662	14-Aug-12	HS614	237	38.95	1239.48	421.78	601.86	50.07	133.57	208.47	7.87	40.04	1709.69	422.66	3.17	163.74	62.27	
414	168	20.19	14-Aug-12	HS615	233	31.16	864.82	270.22	604.40	32.92	82.61	170.34	7.34	7.39	1527.32	398.91	10.21	314.65	89.76	
415	169	23.133	14-Aug-12	HS617	200	59.04	1192.19	404.06	607.31	35.27	140.55	262.70	14.73	21.28	2152.44	647.90	17.19	747.98	107.95	
416	170	22.596	14-Aug-12	HS626	222	51.72	1260.60	438.94	576.00	6.07	92.92	59.76	0.55	121.79	1284.45	407.64	2.37	49.51	35.57	
417	171	15.688	14-Aug-12	HS626DS	224	20.95	856.20	314.59	587.98	21.20	81.98	61.03	1.73	146.59	756.92	214.05	0.44	53.55	34.06	
418	172	23.224	14-Aug-12	HS633	240	19.67	646.00	269.35	576.27	56.52	132.82	170.59	3.30	35.32	1201.19	236.85	7.88	145.59	50.57	
419	173	14.729	14-Aug-12	HS634	200	20.69	566.32	267.39	572.75	45.33	91.14	115.59	3.33	17.17	878.51	188.77	9.16	168.01	45.14	
420	174	24.06	14-Aug-12	HS635	221	24.45	723.77	252.88	589.22	34.15	89.91	178.69	4.01	18.44	1499.69	348.80	11.74	203.45	69.25	
421	175	24.404	14-Aug-12	HS636	214	38.04	763.86	279.19	613.73	26.79	79.25	139.49	3.48	18.69	1442.10	386.39	11.63	280.57	47.86	
429	176	18.038	14-Aug-12	HS637	209	63.48	1186.91	439.77	650.62	32.25	85.19	147.15	4.00	65.18	1461.66	587.08	14.16	565.26	67.78	
430	177	27.959	14-Aug-12	HS682	240	46.05	627.11	235.29	631.76	6.13	55.46	112.19	3.61	46.30	1065.64	365.80	11.82	356.93	67.06	
431	178	27.892	14-Aug-12	HS684	224	45.68	540.36	205.31	628.71	10.45	69.22	134.18	3.02	43.94	960.88	325.67	9.36	381.86	74.48	

Note: MBSR sample - Fuco, Sud, Cant and Chla added at the concentrations of 136, 600, 120 and 80ug/L, respectively.

MatrixSpike sample- Fuco, Sud, Cant and Chla added at the concentrations of 136, 600, 120 and 500ug/L, respectively



No.	Name	Sample Total Dry Weight gr	Date Processed	Sample ID	Dry Weight mg	Amount ppb Chic2	Amount ppb Fuco	Amount ppb Ddx	Amount ppb Sud	Amount ppb Allo	Amount ppb Lut	Amount ppb Zea	Amount ppb Cant	Amount ppb Chlb	Amount ppb Chla	Amount ppb DVCh-a	Amount ppb Echi	Amount ppb Phta	Amount ppb Acar	Amount ppb Beta
404	158	26.426	14-Aug-12	HS001NEWMMLL	212	1470	26746	4791	na	99	594	470	6	98	18269	7859	81	1775	778	nd
407	161	27.173	14-Aug-12	HS002NEWMMLL	206	1393	19082	4154	na	193	1298	1039	24	46	16574	7629	45	2726	1376	nd
408	162	13.329	14-Aug-12	HS597	228	408	14470	3223	na	408	890	1471	31	111	14581	5326	58	3357	614	nd
409	163	22.092	14-Aug-12	HS598	203	331	8016	2299	na	233	835	1500	11	63	12584	3472	85	3338	559	nd
410	164	24.885	14-Aug-12	HS611	217	179	4480	1650	na	174	642	1055	18	106	9742	1837	68	686	354	nd
411	165	19.834	14-Aug-12	HS612	203	150	4245	1913	na	229	612	834	21	102	7574	1364	81	1118	317	nd
412	166	22.916	14-Aug-12	HS613	200	219	5279	2017	na	63	632	779	19	380	8752	2094	50	352	433	nd
413	167	16.662	14-Aug-12	HS614	237	205	6537	2225	na	264	704	1100	41	211	9017	2229	17	864	328	nd
414	168	20.190	14-Aug-12	HS615	233	167	4640	1450	na	177	443	914	39	40	8194	2140	55	1688	482	nd
415	169	23.133	14-Aug-12	HS617	200	369	7451	2525	na	220	878	1642	92	133	13453	4049	107	4675	675	nd
416	170	22.596	14-Aug-12	HS626	222	291	7098	2471	na	34	523	337	3	686	7232	2295	13	279	200	nd
417	171	15.688	14-Aug-12	HS626DS	224	117	4778	1756	na	118	457	341	10	818	4224	1194	2	299	190	nd
418	172	23.224	14-Aug-12	HS633	240	102	3365	1403	na	294	692	888	17	184	6256	1234	41	758	263	nd
419	173	14.729	14-Aug-12	HS634	200	129	3540	1671	na	283	570	722	21	107	5491	1180	57	1050	282	nd
420	174	24.060	14-Aug-12	HS635	221	138	4094	1430	na	193	509	1011	23	104	8482	1973	66	1151	392	nd
421	175	24.404	14-Aug-12	HS636	214	222	4462	1631	na	157	463	815	20	109	8423	2257	68	1639	280	nd
429	176	18.038	14-Aug-12	HS637	209	380	7099	2630	na	193	510	880	24	390	8742	3511	85	3381	405	nd
430	177	27.959	14-Aug-12	HS682	240	240	3266	1225	na	32	289	584	19	241	5550	1905	62	1859	349	nd
431	178	27.892	14-Aug-12	HS684	224	255	3015	1146	na	58	386	749	17	245	5362	1817	52	2131	416	nd

MDL, ng/g (ppb)					10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
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All results are presented in ng per g of dry weight of sediment.

The conversion is done using the following formula:

$$\text{FinalResult(ng/g)} = \text{RawResult(ng/mL)} / \text{ConcentrationFactor(4)} * \text{ExtractionVolume(5mL)} / \text{DryWeight(mg)} * 1000$$

where,

RawResult (ng/mL) is a pigment concentration from a chromatogram in ng/mL

ConcentrationFactor - is coming from the step of concentrating 4 ml of an extract solution into the final volume of 1ml

ExtractionVolume is coming from the step of extracting a dry sample using 5mL of extraction solution

DryWeight (mg) - is a dry weight of a sample used for pigment extraction

A factor 1000 is used to convert mg of dry weight to gr.

na- not applicable

nd- non detectable

NOTICE: Some results although at the level below detection are still reported.



No.	Name	Sample Total Dry Weight gr	Date Processed	Sample ID	Dry Weight mg	Amount ppb Chlc2	Amount ppb Fuco	Amount ppb Ddx	Amount ppb Sud	Amount ppb Allo	Amount ppb Lut	Amount ppb Zea	Amount ppb Cant	Amount ppb Chlb	Amount ppb Chla	Amount ppb DVCh-a	Amount ppb Echi	Amount ppb Phta	Amount ppb Acar	Amount ppb Beta
380	CALCHK		14-Aug-12				169.21		736.28				112.64		111.97					
	CALCHK, %						99.5%		105.2%				93.9%		112.0%					
403	MBSR	0	14-Aug-12	Blank	0		130.74		588.84				126.91		69.18					
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404	158	26.426	14-Aug-12	HS001NEWMMLL	212	249.31	4536.15	812.54	576.76	16.83	100.67	79.77	1.01	16.56	3098.45	1332.84	13.70	301.11	131.93	
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	Dup Reproduce., %						103.2%	107.8%	101.9%	98.2%	112.9%	98.2%	110.3%	82.5%	79.0%	107.1%	104.9%	109.9%	111.8%	114.8%
406	160	0	14-Aug-12	HS001NEWMMLL spk	212	323.78	4004.51	795.47	623.16	12.79	97.00	69.69	105.88	17.31	3157.06	1488.79	13.95	267.86	116.33	
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407	161	27.173	14-Aug-12	HS002NEWMMLL	206	229.58	3144.70	684.58	570.93	31.78	213.87	171.26	4.03	7.65	2731.32	1257.21	7.35	449.31	226.77	
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411	165	19.834	14-Aug-12	HS612	203	24.43	689.44	310.72	592.60	37.12	99.37	135.41	3.39	16.52	1230.07	221.49	13.14	181.50	51.43	
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414	168	20.19	14-Aug-12	HS615	233	31.16	864.82	270.22	604.40	32.92	82.61	170.34	7.34	7.39	1527.32	398.91	10.21	314.65	89.76	
415	169	23.133	14-Aug-12	HS617	200	59.04	1192.19	404.06	607.31	35.27	140.55	262.70	14.73	21.28	2152.44	647.90	17.19	747.98	107.95	
416	170	22.596	14-Aug-12	HS626	222	51.72	1260.60	438.94	576.00	6.07	92.92	59.76	0.55	121.79	1284.45	407.64	2.37	49.51	35.57	
417	171	15.688	14-Aug-12	HS626DS	224	20.95	856.20	314.59	587.98	21.20	81.98	61.03	1.73	146.59	756.92	214.05	0.44	53.55	34.06	
418	172	23.224	14-Aug-12	HS633	240	19.67	646.00	269.35	576.27	56.52	132.82	170.59	3.30	35.32	1201.19	236.85	7.88	145.59	50.57	
419	173	14.729	14-Aug-12	HS634	200	20.69	566.32	267.39	572.75	45.33	91.14	115.59	3.33	17.17	878.51	188.77	9.16	168.01	45.14	
420	174	24.06	14-Aug-12	HS635	221	24.45	723.77	252.88	589.22	34.15	89.91	178.69	4.01	18.44	1499.69	348.80	11.74	203.45	69.25	
421	175	24.404	14-Aug-12	HS636	214	38.04	763.86	279.19	613.73	26.79	79.25	139.49	3.48	18.69	1442.10	386.39	11.63	280.57	47.86	
429	176	18.038	14-Aug-12	HS637	209	63.48	1186.91	439.77	650.62	32.25	85.19	147.15	4.00	65.18	1461.66	587.08	14.16	565.26	67.78	
430	177	27.959	14-Aug-12	HS682	240	46.05	627.11	235.29	631.76	6.13	55.46	112.19	3.61	46.30	1065.64	365.80	11.82	356.93	67.06	
431	178	27.892	14-Aug-12	HS684	224	45.68	540.36	205.31	628.71	10.45	69.22	134.18	3.02	43.94	960.88	325.67	9.36	381.86	74.48	

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404	158	26.426	14-Aug-12	HS001NEWMMLL	212	1470	26746	4791	na	99	594	470	6	98	18269	7859	81	1775	778	nd
407	161	27.173	14-Aug-12	HS002NEWMMLL	206	1393	19082	4154	na	193	1298	1039	24	46	16574	7629	45	2726	1376	nd
408	162	13.329	14-Aug-12	HS597	228	408	14470	3223	na	408	890	1471	31	111	14581	5326	58	3357	614	nd
409	163	22.092	14-Aug-12	HS598	203	331	8016	2299	na	233	835	1500	11	63	12584	3472	85	3338	559	nd
410	164	24.885	14-Aug-12	HS611	217	179	4480	1650	na	174	642	1055	18	106	9742	1837	68	686	354	nd
411	165	19.834	14-Aug-12	HS612	203	150	4245	1913	na	229	612	834	21	102	7574	1364	81	1118	317	nd
412	166	22.916	14-Aug-12	HS613	200	219	5279	2017	na	63	632	779	19	380	8752	2094	50	352	433	nd
413	167	16.662	14-Aug-12	HS614	237	205	6537	2225	na	264	704	1100	41	211	9017	2229	17	864	328	nd
414	168	20.190	14-Aug-12	HS615	233	167	4640	1450	na	177	443	914	39	40	8194	2140	55	1688	482	nd
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417	171	15.688	14-Aug-12	HS626DS	224	117	4778	1756	na	118	457	341	10	818	4224	1194	2	299	190	nd
418	172	23.224	14-Aug-12	HS633	240	102	3365	1403	na	294	692	888	17	184	6256	1234	41	758	263	nd
419	173	14.729	14-Aug-12	HS634	200	129	3540	1671	na	283	570	722	21	107	5491	1180	57	1050	282	nd
420	174	24.060	14-Aug-12	HS635	221	138	4094	1430	na	193	509	1011	23	104	8482	1973	66	1151	392	nd
421	175	24.404	14-Aug-12	HS636	214	222	4462	1631	na	157	463	815	20	109	8423	2257	68	1639	280	nd
429	176	18.038	14-Aug-12	HS637	209	380	7099	2630	na	193	510	880	24	390	8742	3511	85	3381	405	nd
430	177	27.959	14-Aug-12	HS682	240	240	3266	1225	na	32	289	584	19	241	5550	1905	62	1859	349	nd
431	178	27.892	14-Aug-12	HS684	224	255	3015	1146	na	58	386	749	17	245	5362	1817	52	2131	416	nd

MDL, ng/g (ppb)						10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
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All results are presented in ng per g of dry weight of sediment.

The conversion is done using the following formula:

$$\text{FinalResult(ng/g)} = \text{RawResult(ng/mL)} / \text{ConcentrationFactor(4)} * \text{ExtractionVolume(5mL)} / \text{DryWeight(mg)} * 1000$$

where,

RawResult (ng/mL) is a pigment concentration from a chromatogram in ng/mL

ConcentrationFactor - is coming from the step of concentrating 4 ml of an extract solution into the final volume of 1ml

ExtractionVolume is coming from the step of extracting a dry sample using 5mL of extraction solution

DryWeight (mg) - is a dry weight of a sample used for pigment extraction

A factor 1000 is used to convert mg of dry weight to gr.

na- not applicable

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NOTICE: Some results although at the level below detection are still reported.



No.	Name	Sample Total Dry Weight gr	Date Processed	Sample ID	Site	ctionDry W mg	Amount ppb Chlc2	Amount ppb Fuco	Amount ppb Ddx	Amount ppb Sud	Amount ppb Allo	Amount ppb Lut	Amount ppb Zea	Amount ppb Cant	Amount ppb Chlb	Amount ppb Chla	Amount ppb DVCh-a	Amount ppb Echi	Amount ppb Phta	Amount ppb Acar	Amount ppb Beta
186	CALCHK		05-Oct-12					182.62		542.23				131.91		113.45					
	CALCHL, %							107.4%		108.4%				109.9%		113.5%					
190	278	16.03	05-Oct-12	HS-10004-30072012	HS10004	227	169.81	8215.07	2285.52	395.89	107.24	840.44	699.11	1.66	129.63	8231.70	2627.71	18.62	1447.34	281.24	
191	279	23.66	05-Oct-12	HS-10005-30072012	HS10005	216	194.29	1818.57	509.19	481.73	17.18	83.80	103.81	1.17	10.98	1721.41	628.71	5.36	363.72	94.01	
192	280	27.763	05-Oct-12	HS-10005-30072012	HS10005DS	211	170.74	1610.95	497.93	504.12	13.15	88.22	75.87	1.23	10.06	1562.74	612.42	7.57	337.00	97.03	
193	281	26.969	05-Oct-12	HS-10006-30072012	HS10006	210	166.82	1767.04	442.60	509.17	12.34	76.27	115.82	5.94	14.01	1720.14	496.22	5.53	232.01	74.21	
194	282	25.377	05-Oct-12	HS-10007-30072012	HS10007	211	110.91	1626.75	411.47	503.21	11.91	64.94	47.20	1.96	12.74	1107.08	298.99	8.71	202.19	55.45	
195	283	27.969	05-Oct-12	HS-10200-30072012	HS10200	219	76.77	1774.52	622.14	501.42	9.90	117.43	133.84	2.22	35.02	2204.43	590.69	24.40	155.42	67.29	
196	284	27.969	05-Oct-12	HS-10200-30072012	HS10200dup	221	82.97	1856.05	603.87	514.34	9.46	115.69	141.36	1.95	36.07	2518.00	758.77	20.89	160.19	63.53	
	Dup Reproduce., %						96.1%	97.8%	101.5%	98.7%	102.2%	100.7%	97.3%	106.3%	98.5%	93.4%	87.5%	107.7%	98.5%	102.9%	
198	286	17.949	05-Oct-12	HS-10300-30072012	HS10300	206	22.83	988.47	392.71	472.34	21.39	77.52	72.25	2.54	18.64	646.02	117.57	9.80	97.31	35.44	
199	287	49.709	05-Oct-12	12SBB569	569DS	224	37.74	1078.98	516.68	649.38	10.48	282.82	166.40	0.54	32.32	2454.42	1033.89	20.90	579.95	170.20	
200	288		05-Oct-12	Blank	Blank	0		120.48		469.03				136.92		72.08					
								88.6%		93.8%				114.1%		90.1%					
202	181a	21.825	05-Oct-12	HS-712-30072012	HS712	211	54.22	920.94	350.14	517.87	14.53	89.40	98.45	0.53	23.68	1154.65	284.70	9.73	289.43	80.38	
203	182a	21.825	05-Oct-12	HS-712-30072012	HS712spk	214	77.52	1045.16	389.21	529.07	17.76	93.89	112.08	135.74	25.54	1723.24	626.99	8.66	305.06	82.17	
	Spike Recovery, %							91.3%		105.8%				112.7%		113.7%					

Note MBSR sample - Fuco, Sud, Cant and Chla added at the concentrations of 136, 500, 120 and 80ug/L, respectively.

MatrixSpike sample- Fuco, Sud, Cant and Chla added at the concentrations of 136, 500, 120 and 500ug/L, respectively



No.	Name	Sample Total Dry Weight gr	Date Processed	Sample ID	Site	ctionDry W mg	Amount ppb Chlc2	Amount ppb Fuco	Amount ppb Ddx	Amount ppb Sud	Amount ppb Allo	Amount ppb Lut	Amount ppb Zea	Amount ppb Cant	Amount ppb Chlb	Amount ppb Chla	Amount ppb DVCh-a	Amount ppb Echi	Amount ppb Phta	Amount ppb Acar	Amount ppb Beta
190	278	16.03	05-Oct-12	HS-10004-30072012	HS10004	227	935	45237	12585	na	591	4628	3850	9	714	45329	14470	103	7970	1549	
191	279	23.66	05-Oct-12	HS-10005-30072012	HS10005	216	1124	10524	2947	na	99	485	601	7	64	9962	3638	31	2105	544	
192	280	27.763	05-Oct-12	HS-10005-30072012	HS10005DS	211	1011	9544	2950	na	78	523	449	7	60	9258	3628	45	1996	575	
193	281	26.969	05-Oct-12	HS-10006-30072012	HS10006	210	993	10518	2635	na	73	454	689	35	83	10239	2954	33	1381	442	
194	282	25.377	05-Oct-12	HS-10007-30072012	HS10007	211	657	9637	2438	na	71	385	280	12	75	6559	1771	52	1198	329	
195	283	27.969	05-Oct-12	HS-10200-30072012	HS10200	219	438	10129	3551	na	57	670	764	13	200	12582	3372	139	887	384	
198	286	17.949	05-Oct-12	HS-10300-30072012	HS10300	206	139	5998	2383	na	130	470	438	15	113	3920	713	59	590	215	
199	287	49.709	05-Oct-12	12SBB569	569DS	224	211	6021	2883	na	58	1578	929	3	180	13697	5769	117	3236	950	

MDL, ng/g (ppb)							10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
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All results are presented in ng per g of dry weight of sediment.

The conversion is done using the following formula:

$$\text{FinalResult(ng/g)} = \text{RawResult(ng/mL)} / \text{ConcentrationFactor(4)} * \text{ExtractionVolume(5mL)} / \text{DryWeight(mg)} * 1000$$

where,

RawResult (ng/mL) is a pigment concentration from a chromatogram in ng/mL

ConcentrationFactor - is coming from the step of concentrating 4 ml of an extract solution into the final volume of 1ml

ExtractionVolume is coming from the step of extracting a dry sample using 5mL of extraction solution

DryWeight (mg) - is a dry weight of a sample used for pigment extraction

A factor 1000 is used to convert mg of dry weight to gr.

na- not applicable

nd- non detectable