

APPENDIX

Scenic Rivers Joint Phosphorus Study Data Portfolio

SRJS_data_portfolio.pdf

Site ID	chla1	chla2	chla3	chla4	chla5	chla6	chla7	chla8	chla9	chla10	chla11	chla12
BALL1	223.6	183.4	320.4	336.3	644.9	287.5	157.5	139.8	208.2	79.5	506.8	300.2
BARR1	246.5	164.7	200.1	524.4	824.9	745.1	288.2	212.9	364.8	32.6	439.2	359.6
BARR2	171.3	169.3	234.9	468.6	317.7	120.9	113.5	68.0	171.1	23.3	170.0	321.2
BARR3	186.6	147.3	248.6	389.3	322.7	285.3	110.9	104.9	139.5	78.5	195.0	416.0
BARR4	247.2	212.9	184.2	365.1	219.6	254.9	36.1	75.1	128.8	80.4	138.1	362.6
BEAT1	167.0	217.4	265.4	421.4	725.2	158.5	54.4	68.2	148.0	86.3	309.8	567.3
CANE1	214.3	185.6	218.9	410.9	528.2	372.4		43.3	105.5		184.6	394.4
COVE1	88.6	57.1	90.8	27.1	83.9	126.5	18.9	75.6	53.6	13.1	25.3	37.0
EVAN1	82.4	120.6		295.3	319.9	389.2	110.0	97.5	220.8	48.5	128.1	109.4
FLIN1	144.1	189.3	266.9	353.7	237.9	302.0	72.6	93.7	271.0	176.4	174.7	205.3
FLIN2	174.7	169.3	221.0	308.5	751.0	259.8	123.8	121.1	214.1	276.3	246.4	239.7
FLIN3	95.2	124.0	169.1	279.5	350.1	194.0	50.4	133.4	112.4	100.5	325.5	558.2
GOOS1		388.7	315.7	403.6	875.1	794.6	497.4	239.1	293.7	131.9	396.2	491.0
ILLI1	27.8	29.1		71.1	173.9	163.1	70.0	78.3	72.3	9.2	89.3	137.0
ILLI2	115.9	199.3	225.0	683.2	1019.1	384.5	361.2	86.5	229.4	88.0	379.0	233.5
ILLI3	301.0	231.7	401.7	947.5	3210.8	488.0	142.9	129.4	303.6	37.5	310.4	543.9
ILLI4	252.6	241.2	363.0	762.4	2186.8	496.8	192.9	166.6	362.5	105.5	414.6	958.2
ILLI5	251.5	291.7	453.7	2254.9	2226.4	275.4	217.0	156.8	361.2	30.7	307.6	839.9
ILLI6	239.1	210.4	256.8	592.5	1180.8	160.6	206.4	100.7	242.7	35.4	349.2	1359.3
ILLI7	285.2	155.5	281.0	938.8	1417.4	246.7	135.9	88.0	211.5	41.2	238.5	370.6
ILLI8	222.0	185.1	151.5	608.1	2036.1	59.4	69.0	142.4	240.6	115.1	188.3	209.3
LEE1	48.3	51.8	15.8	44.4	95.4	68.7	26.5	52.0	76.4	12.4	13.5	17.4
LLEE1	52.6	33.4	41.0	72.1	44.4	57.3	36.6	110.6	164.6	53.9	51.4	27.9
LSAL1	107.4	127.4	124.3	99.4	253.9	163.6	30.8	75.9	172.5	79.3	151.4	53.9
MTFK1	105.9	74.3	120.6	32.4	45.2	53.8	21.8	59.2	92.5	22.1	37.8	19.5
OSAG1	201.2	267.2	361.6	366.8	331.6	390.8	306.9	158.3	285.8	34.2	458.8	393.4
OSAG2	222.6	204.9	273.3	684.9	2488.8	561.2	251.0	132.7	215.2	63.5	502.7	373.4
SAGE1	181.0	176.6	227.4	960.9	1737.5	390.9	285.3	132.2	83.9	52.9	340.9	516.8
SALI1	80.6	117.3	172.0	318.4	554.2	218.3	24.0	31.6	159.5	116.7	131.0	6.1
SPAR1	194.1	408.9	141.1	638.3	1264.3	470.6	264.4	168.5	190.8	48.6	455.5	366.7
SPAV1	120.3	179.0	305.2	315.4	389.0	218.0	79.6	108.5	172.4	275.8	243.7	499.1
SPAV2	208.8	230.1	277.6	302.1	499.0	307.2	65.8	31.5	89.4	127.0	132.1	349.9
SPRG1	153.7	133.2	154.3	249.9	242.4	208.3	48.5	47.1	85.4	75.7	173.0	317.1
SPRG2	137.6	141.5	107.4	172.2	311.9	250.8	20.7	47.5	78.6	56.6	154.0	168.9
SPRG3	87.9	141.4	105.3	237.4	397.3	290.6	42.2	45.2	132.5	4.0	104.0	84.7

Site ID	clad1	clad3	clad5	clad6	clad9	clad12
BALL1	478956216	559101319	4079074292	22679179	0	505029846
BARR1	994584152	0	2889072024	381902405	169967282	0
BARR2	593686059	20287726	4218527	0	30305781	0
BARR3	26611395	67344225	15423984	0	0	0
BARR4	774327287	213668061	9377261	0	0	0
BEAT1	133053432	17763655	0	18102392	0	0
CANE1	1115692295	0	0	0	189810422	0
COVE1	0	0	0	0	0	0
EVAN1	0		0	25121348	0	0
FLIN1	237321889	1653848735	1877768113	163650375	0	522091178
FLIN2	439011664	47423269	2681852993	174954500	0	249032786
FLIN3	160986270	642972090	884736757	181721211	0	3586394444
GOOS1	1591471605	1432615016	6127415760	5976980279	346029473	1999573572
ILLI1	19951326		32062943	60237715	34435387	0
ILLI2	263075886	455532190	4847945397	1484442833	251281355	359485450
ILLI3	398517128	1178236452	24051737155	413477541	40474118	2873014610
ILLI4	538201657	960484466	25364506530	2434461664	0	8287242900
ILLI5	295134212	2164847311	21402450315	555678551	162069399	6183964599
ILLI6	462121852	256821531	11312477929	0	226351855	8788930644
ILLI7	592629815	206789876	15231896436	0	74852660	798179297
ILLI8	397519523	79521919	26599661133	76905979	65069972	0
LEE1	0	0	0	0	0	0
LLEE1	18758176	0	0	0	0	0
LSAL1	0	0	0	0	0	0
MTFK1	0	0	0	0	0	0
OSAG1	517830007	1355749351	1033742706	874103538	11227104	4594369327
OSAG2	147082548	563645823	18494296113	2108563140	109371512	2789535900
SAGE1	373867291	1443729850	16302163433	956034147	358740992	1546655115
SALI1	48427242	52183233	62387236	70544039	31954604	0
SPAR1	973054318	317157323	8834548208	1392869913	119307448	2810755362
SPAV1	166101108	44196610	20046118	0	0	7536103183
SPAV2	430418541	540045442	94016270	40693339	9757337	397580371
SPRG1	122469078	0	184555517	135693650	0	0
SPRG2	0	0	0	0	0	0
SPRG3	0	0	0	0	0	0

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	EVENT	SITE ID	ACdelica	ACfreq	AClanceo	ACrostra	AHalterg	AHexigum	AHminuti	AHPyrena	ALpelluc	AMcopula	AMinarie	AMmontan	AMovalis	AMPedcls	BApardxa	BRneoex	BRvitrea	CABacill	CATherm	CCpedcls	CCplaegug	CMAera	CMcymbif	CMdelcat
2	1	BALL1				359181			305269	28390769						687346						8720338	9867703			
3	1	BARR1			209184				1939147	13585528			74318			668864						311148032	15559393			
4	1	BARR2							73221	5337390												315839039	72583541			
5	1	BARR3								7477324						90057						5712775	36631737			
6	1	BARR4							413584	6965150							74498					198482800	18270857			
7	1	BEAT1							273588	43152186							246405			539382		15630647	34637481			
8	1	CANE1			197645	611560			1559300	46053206			280874			561749						142537745	109208069			
9	1	COVE1							2057183	11430389										341538					21421028	
10	1	EVAN1			333552				5482351	38143916																
11	1	FLIN1							29851	14631622			107542										1890290			
12	1	FLIN2							1567915	8591546			451882				2428864					7166263	17569829			
13	1	FLIN3							714248	664932							953010			208615		46851894	16246948			
14	1	GOOS1			800984	495687			4897444	15089808		2561136			18783921	15082242						884533122	139583262			
15	1	ILLI1							621893	14544334															458524	
16	1	ILLI2			121787			57467	128110	2495620		230763				1067280				126286		30191769	8109684			
17	1	ILLI3				171177			654676	10696269						589629						12467679	32918885			
18	1	ILLI4						170518	380130	5255181						855904						54294131	55294014			
19	1	ILLI5			119799				661598							851232				372671		45898141	36661492			
20	1	ILLI6								2068288		148218			5870140	1333962						33691011				
21	1	ILLI7							599407	16196547						539851						102736114	51668200			
22	1	ILLI8							351782	4421152		211220				2112195						53594726	34113580			
23	1	LEE1				46557			563856	19245377								1667118							38582920	
24	1	LLEE1				59436	106359	135959	1363900	9618199															17239664	
25	1	LSAL1			168728				798699	59725899													7171564			
26	1	MTFK1			60007				1325572	17076132						85276									4816934	
27	1	OSAG1							890939	4478887			320967			2888701						50901197	8639766			
28	1	OSAG2								2140664		255674				3323767						8109333	4588153			
29	1	SAGE1			526392					596496						587760						44063466	13743749			
30	1	SALI1			1043472				343016	52593985												7838882	19958108			
31	1	SPAR1	303916		201560				39755			286438				214829						24984002	10280448			
32	1	SPAV1				167777				34677215		192639										61100167	48397525			
33	1	SPAV2			204001		1242520		603541	26598909													45521520			
34	1	SPRG1							123812	16221817													10005391			
35	1	SPRG2							1733297	53694338													2523789			
36	1	SPRG3							997372	52168883												5426852	21493085			
37	3	BALL1								725912		65026				130051							2917256			
38	3	BARR1							237460							855467							12793011			
39	3	BARR2							83764													797602	22563633			
40	3	BARR3			85708				273164							393637	894676						16776857			
41	3	BARR4						46587	467343	3263065												1483350	14127539			
42	3	BEAT1						76279	85023	11006155													6412772			
43	3	CANE1			39342				31038	838679						97840							8277173			
44	3	COVE1					7131007	59579	1211957													3577719	3655521		3566162	
45	3	FLIN1			209201					4148585						148648							20451125			
46	3	FLIN2							45695	229716			205774			2633910							8616255			
47	3	FLIN3								22498			5374			75237						852260	1060835			
48	3	GOOS1			301074				178147	298525			213929		49423630	36474955	5834734					33926445	10237403			
49	3	ILLI2			123371	50898			227108				87661		385757	555189	531309			511711		19462779	7166397			
50	3	ILLI3							149138				67160			537281	1221156					2130148	10445146			
51	3	ILLI4			67829				26756													21401166	3892016			
52	3	ILLI5							701027	195787						350764						46726377	10071300			
53	3	ILLI6														107701							7086635			
54	3	ILLI7							64540														5910945			
55	3	ILLI8				21220		36405	20289	84998		36547				207099	664521						2477630			
56	3	LEE1				14880		17019	88525	754962							51775	8880	12530						142972	
57	3	LLEE1			103303	1022863	3260375	1133333	326000	819427	1221379						1334656			143560			878152	49348639	3685536	
58	3	LSAL1							2229447			17654									77289		1267212			
59	3	MTFK1			63461				1294462	4524721							72865						2615185		1143306	
60	3	OSAG1							12882				23205				1137044					5888018	3470169			
61	3	OSAG2							122825	977647		221243					479360					5847717	11249106			
62	3	SAGE1							44043	83029												35856872	17084076			
63	3	SALI1							12639	4034745												2166315	2519437			
64	3	SPAR1							23415	147136		7029										891815	2438788			
65	3	SPAV1							166028	17110248							224940						6956925			
66	3	SPAV2			220766				174171	12258188							941195					14926136	22520024			
67	3	SPRG1			14580				11502	1011922		20719					93236						657154	10100809		
68	3	SPRG2			19168	11862				4086304					89904								431996	1140616		

	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY
1	CMexcisa	CMhusted	CMkolbei	CMlaevis	CMmexcan	CMmexkam	CMneocis	CMnlepto	CMnovaze	CMobtusf	CMsubcis	CMtumida	CMturgdl	CPcrucic	CSinvisi	CTsolea	CYmenegh	DAMonilf	DAvulg	DEelegan	Diconfer	Diconten	DKdelicl	DLglome	DPparma
2	33959846				40378725			344830				11143868	1314986				2011024		10602533						
3	16015537																								
4	11091834																482362		66120864						
5	31004373																		3472909						
6	34066488				80953021														37347648						
7	18779304				267754292											4627743			9502181						
8	27311537				228907822							67386474					3081663		10831440						
9	3895361								690173			24565281	1035259												
10	19931631											2369245											1983352		
11													2854270												
12	13953884		1403954					157252					999449				826317								
13	3255917							44219											5512683						
14	11965822				309227060			528153									62444364		21947969						
15								45197	3016227																
16	909684												510391			7167377			8898994						
17	49586263				427144761												1437605		280435931						
18	24293001											6057744							66012959						
19	24607833											109770961	4518512				622630		124740097						
20	17139028											17780002							280073081						
21	28375035											8094960							655780877						
22	46072808											6334392	19620922						171051810						
23									1868659																
24	717389							126658	3018758										1315851						
25					65139115				37123463																
26	9636703			1324725			3145853		754438				45643500												
27	6748115																		37132617						
28	2687693												26836509				1870118		49298245						
29																									
30	23382512				335701757			573371	2186514										28592472						
31	752773												8590178				3142712								
32	12150332				418660378														37144004						
33	29332645																		5589878						
34	586106																								
35	1774092			1048677					10451476				2986136												
36	16187695								4541165				3027444						13196364						
37								301713						975045	56089877		237813				11088186				
38	1498803												14965490	83251495			1042879				16339012				
39	3700913												1508305	27364623			551812				184434				
40	6206975												41354801								2977241				
41	2703964											1402544	22549568												
42	8452207												10839378												
43	734649								2371114				10263407				408940				102511				
44				1114952				360769	989244				46035419								109666	6458			
45	5078504				40381958							4457904	42740472												
46	432627												11651103												
47													118861								44342				
48					58116283								1892633												
49													3102165												
50	705999												16042481												
51													28141769								44185				
52													28169729								385887				
53	566083												47164928				1575542				592424				
54													75594802						4483146						
55													4957720						2818731			89347			
56					53081								151150												
57				2280543						4522130		3301962	21429893				268449		1415319		201881				
58	603135				4795854								3357940												
59	1531949							270471					76067614												
60	243935												1642355												
61	387624												4893343												
62	208493												350934				290143								
63	6162714			565875	12369717			264090	1208508				604254												
64													1368155				102832								
65	5763633												3821723												
66	8245000												15265706												
67	108901											310678	916506												
68													963980												

	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ
1	DPpuella	ECevergl	EChamshr	ECleei	ECleible	ECminutu	ECprstra	ECsemlan	ECsilesi	ECtriang	ECventri	EOlmini	EOsubmin	EPadnata	EPturgid	EUbilun	EUformic	EYleei	EYmicroc	EYvandam	FATenera	FRcapuci	FRmesole	FRsepes	FRtenera	FRvauche	FSvulgar
2							20895330					3183944															
3				793828								905945															
4												455538															
5												475716			23063378					1005354						302729	
6				795750								90814										148845					
7												3504308															
8							7115486		633644	633644		1711940															
9																											
10												1203676															
11												812635				685751											
12												276550															
13				301673								1743061									78822					569628	
14												2927161	11708644														
15												2129195	250494														
16				650296								593421															
17												2437952									40252		28816				
18												7666800															
19							8673164					9251066															
20				909242			4312914			1313397		207532															
21												3794257															
22												3290413															
23							26754493					3390131															
24	47918																										
25												2749307	1099723														
26							1728841					175493	526478														
27												3083053	616611														
28													219293														
29												825385															
30												1972445															
31												8086060	738907														
32												7272278	294298														
33												2084317															
34																											
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	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	CZ
1	GEaccep	GEcummer	GEdecu	GMlinfor	GOacumin	GOaffine	GOangstt	GOauger	GOclavat	GOgracil	GOincogn	GOinsign	GOintvib	GOkobaya	GOLage	GOLouis	GOMicrop	GOMinutm	GOLivcm	GOparsap	GOParvul	GOsarcop	GOSphaer	GOTrunca	GRsolgen	GRtabell
2														11192039				1267848			2133552					
3			199963											847085				5026414			1482988			187745	1774053	
4														3543551				202736					83298			
5			484624															3460745			998364					
6	539374		400895															41682854			1651754					
7			331493				3767731							4012203				757512			1365805					
8						1794497			2260126					3430102	622747			431740			1245494					
9																		479658							413829	
10					5650133				1271423				21317821	25042534	1808979	414325	900474								209540	
11														10594172												
12						1443529								735798				5904106			751425					
13														1396606				4834169			1056495					
14		1373545												7877217				3499375			2523771					
15								200447	783828					317222				149731			215973				193772	
16		104422					176428											532069								
17	474330	474330																8459138			4357702					
18														32611789				4210031			1518150					
19						1087699			1369932					3049332				1046764			2453530					
20														1689402				11391514			3943502					
21														1758076				21575343			2393887					
22		509750													468311			3896061								
23														8180236											283567	
24		164697												5967514											1719550	
25														2620931												
26														1864227											452362	
27							490785											18254595			3558196					
28														3330512				5109060			1700624					
29	515811	128953												1218061				1314128	40822		1184697					
30														1609719	547969			9497441			6575628					
31									1152450												1746481				189933	
32						4923060								2509391				9475559							510944	
33														118014	321387			1336872			321387					
34	67279													2360427				171405								
35							516113							824401				7782431			748365					
36						2186305			1376800					2228814							379359					
37			87480			1661784								423524	360432	141086		199905			288346			143736		
38						1821851			4589157						632240						8693299			180092	756329	
39						642657			809411					9895369							4181667					
40															436381						4145622					
41						597594								1789184				207384			1970149			29536		
42						1956947			616182					623436	339561			470824			1952477					
43		67464				178599								91036	216928			343754			371876					
44						1528507								16343986				1193491							79319	
45				908516		5698255	909182							1694306				2284917			659158					
46														268049	182495						729980					
47														144385				41303			41703					
48		258145				2733576			2582156							474319									2269652	
49							89361	721555										6557690			1619673					
50																		3097016			372264					
51				294567		1847538	884349							784775	534295			3704178			2831764					
52										1129004											5132850					
53							329366											331099			1432745					
54						1485488															2062046					
55															644389						351133					
56			45969								4450804				54020			74903			31567					
57						468965		604186	295325		6418613					488237							46358	2171340	3699069	
58						112790									589286						117425					
59											52566233							162817			80778					
60		28001																784026								
61	88990													2644923				856057			102899			114406		
62		47865												1080749												
63						872739			183199					322949				365840			263846					
64						179642								74142				139982			100956					
65						424601								91567											74577	
66						2004421								1947853				204310			294700					
67											1585289			1277121				2893476			1391195			198139		
68											2456446			2429044				700652								
														110888				83744								

	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DU	DV	DW	DX	DY
1	GSrhombi	GYacumin	GYattenu	GYreimer	HAamphio	Hicapita	HLmontan	HLveneta	KCbude	KVclevai	LUgoeppe	LUMuops	MDcircul	MEvarian	NAangust	NAantoni	NAcaprad	NACrypto	NACryten	Nagermii	NAincrtt	NAkotsch	NAlancel	Namedcon	Namenisc
2																	10057194		637201						
3														59128955			2038909		688963						
4														24485147			12363067		152838						
5														9553510			11118197	155924							
6														27660336			12944363		345316						
7														45743652			1126680								
8														22346884			8347891		2929309						
9																									
10	724676												511080	4190375			361236								
11														74154061			1475199								
12														2996046			4132437		2618216						
13							208746	281913						15164655			2614570		3533933				1222623		
14		7913597												60375930			28626233		7914292						
15																									
16				75515						199770				1529997		205141	1055159		802230	366425			740120		
17		5465646												125098667			43137041		16398380						
18														72637132		2434788	6261759	1185519	12695379						
19																	8952153		11639679				1092052		
20														94340036			33208446		27824464						
21														28634374		959821	107377831		41914038						
22														50415072		375535	17867232		11259075						
23																									
24																	121333	312043	118156	158162					
25							262606						1551187	19077412			1644588								
26																			296456						
27														59585674			38891738		15249467						
28														20341933			1363718	17535974		17184067					
29								41412022						17004833					247673						
30													1598843				1130076								
31														7596528			2946899	495935	2655413	909662					
32														347405852			11450890		446463				2471381		
33														7688503			10936124		335945						
34																			129218						
35																	771676								
36																									
37														5173553					150704						
38														15125017			5215471				1016650		58094		
39														10670680			114985				609658				
40														49587668			5849667				4280410				
41														3720923		83150	3421505				2167596				
42																			108389						
43																	255640		177472						
44														1586210					64787		3747352				
45														130094118			3398454		69309						
46																	564539		1894800						
47																		95381		5106103			16769		
48								111281	9305					570096					99640		517318				
49																	8803682		991611		305084				
50																103904				2625291					
51										232560				1781130			1313471	153544	233477	39679	4070520				
52														1278189			514137		670199	28475	2268165		4909		
53														40930902				1283088			5002235				
54														25706577		574454	984916		249608		8831511			3207868	
55														27748203			13555021		538864		6880277				
56														2584651			43319	1615391		112935		2345369	58820		
57										19720							26040		13199		93398				
58											31628			237427	9733383				381263	425296		52339			
59																									
60																	212208		322681		3739459				
61																			2392860		2050842				
62																			183866		226276				
63								938723													616886				
64										332701											160393			314056	
65																					94776				
66																					671118				
67		2181132						7888509							29121249			7172650		1090662		177284			
68																		62278				174813			

	EZ	FA	FB	FC	FD	FE	FF	FG	FH	FI	FJ	FK	FL	FM	FN	FO	FP	FQ	FR	FS	FT	FU	FV	FW	FX	FY	FZ
1	Nlilinear	Nipalea	Nipaleac	Nlpermin	Nlsigma	Nisolita	Nlvaldec	PCelgine	PCplacen	PDbrevis	PDellipt	PDtraino	PGleppro	Plgibba	Plinterr	Plviridi	PLhuste	PLraevis	RĖsinuta	ROabbre	RPgibba	RPparall	SAleptos	SApinnat	SFpupula	SFseminu	SFstroem
2		393895	129543																565616	12138136							
3																			305782	3860049							
4		377917	62144																						834134		
5	1720052	129022																									
6		426925																									
7																											
8		804799																	288914								
9																				405191							
10																			975162	1231000							
11																			221240	3909971							
12	2157681																		929633	10268346							
13											4165									24501935							
14		1630781															431914	937128218	3512593	62077904							
15																			100197								
16																			1364869	6142685					182428		
17		4505294																	323620941	6065065	20416690						
18		490490	322623																9156191	37342373							
19		975627				150390													140160993	3152153	10611020						
20		5096332	139672														224962		3354133	13857064							
21		2320281																	1110607								
22																			2172654								
23												6832155															
24																			140394				362872				
25																											
26																			87717								
27																			8584005	39176495							
28		1465186						7350670											1577956	22575314							
29																			1099243	25254945							
30																			1016887								
31		820742																	2504418	6322924					905766		
32		1103951																		6003346							
33		623010																									
34																											
35																				289588							
36																			527993								
37		93160																	200660	1013218	23845561	2921744			822486		
38		408533																		2962169							
39		288220				88856																					
40		1127903																									
41		201008																									
42																			96213								
43																											
44																				290386							
45		425927																								3601	
46																			507994	10901567							
47												235							287451	655949							
48																			440106	20000488							
49																			1082048	11989812							
50		96218																	3315962	4883571							
51						31568													119036911	297454	5507212						
52		402022																	1386133474								
53																			1329400	3636043							
54																			95710049								
55			45920																50124						154089		
56		16318																								343	
57	1401950							2110327	146551					1468122							13458720	4947201		4033130	464221		
58		25292																		137540							
59		104392																		378460	3340069						
60																			2434658	5182595							
61		422624																	986162	5745626							
62		170489																	1305678	10919510							
63																			117092	236499							
64								12602											404913	2592225							
65		380851																		2761452							
66		224737																		7332775							
67												905							170497	699488							
68																			14010	35371							

	GA	GB	GC	GD	GE	GF	GG	GH	GI	GJ	GK	GL	GM	GN	GO	GP	GQ	GR	GS
1	SRconbin	SRconstr	SRconven	SSphoeni	SSthermc	STparvus	SUangust	Subreb	SUsuecic	SUtenera	Sutients	TBfascic	THlacstr	THweiss	TYapicul	TYdebili	TYsalina	ULacus	ULuIna
2																		3977210	8676060
3																		1075074	14071280
4																			33296461
5																			31260725
6	243506																		103439281
7																			69980769
8		599887																	17726750
9																			17232444
10																			
11		229686			71753														13574536
12		965122												517843					
13	311502											227006							
14																			53880113
15																			
16		61608																	
17																			483770575
18																			10803690
19																			21489454
20									579767										46772244
21																			17035744
22																			6665324
23																		773285	20242544
24																		987201	23688753
25																			
26																			5382013
27							1844504												20257097
28		1638196																	48408945
29																			60701165
30																			54593558
31																			
32																			145895825
33		619178																	22871003
34																			
35																			
36																		1237551	26996485
37																			14363791
38		1218062												2920689				2062506	26995447
39														515136					14283940
40														1007951					49687080
41																			8854910
42																			
43	91372						160645												4410671
44																			18874003
45																			
46																			
47								42042											
48																	4505439		
49		374452											6473074						
50		143440											799874						4238663
51													1033223						4562679
52													5514407						35420282
53																			
54																			22011367
55												116072		2381452					9226279
56																		205956	718850
57		2351575	1363219	16907517			843645		27248673							309177	530913		23163130
58																			1114181
59																			
60																			
61		78755																	2327210
62			68529																
63																			2873753
64																			
65																			
66																			9900232
67	67722																		
68			11765																1289409

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
69		3 SPRG3			19825	61344			136859	3705426						49304							2148752			
70		6 BALL1			3155849					14667767						840899							62232707	46108905		
71		6 BARR1					3494824	139607								7106185							54093583	27204826		
72		6 BARR2			724243		33668421		285692				284247										44635246			
73		6 BARR3			1324462		22055953		149275														55434399	12867300		
74		6 BARR4			140009	173289	12016200		331377							149226							4733060	13091968		
75		6 BEAT1			8932124				503351	17712965													28757501	51523601		
76		6 CANE1	1092593				43131778		428761														18479361			
77		6 COVE1			177045		35095131		2653887														3010029		5526878	
78		6 EVAN1			1160712				1831464	33759210							274916						4359809	28778425		
79		6 FLIN1	579181				9783696		3030471	30850171		289146					1091748						77911750	29387621		
80		6 FLIN2								10657521		323639	1680230				3513209						82361266	76751142	12136457	
81		6 FLIN3							2517622	2343792							3359224				735337		165146230	57268168		
82		6 GOOS1			946189		7684019						448212		2958553	12101713							760562380	40216455		
83		6 ILL1			117905		15798883		7720656	6312948							83778						42515406	2505693		
84		6 ILL2	1947407		2152568				764211	4268678		305903			2019201	1376562							72768350	44831040		
85		6 ILL3								3330874							298372						85172356	89239602		
86		6 ILL4							1767677	18328180							2388067						732185792	209511296		
87		6 ILL5			105302				41539	313232							261880						148324471	22378670		
88		6 ILL6		241065	964259		3737409		380371	5019487							513868						38029970	53279821		
89		6 ILL7		137548			152323			2318520							488677						21699407	97633254		
90		6 ILL8							113235			29138					58277						73935544	61527527		
91		6 LEE1					77435414		1476473										265987						38695098	
92		6 LLEE1					14431724		4366084	6903310														12539028		
93		6 LSAL1					22991651			6953423													4159135	8236140		
94		6 MTFK1	514446		341186		28967210		628076																1014371	
95		6 OSAG1			2015525				1431116	3597222			716069				3150703						517830404	55683627		
96		6 OSAG2		786515					310257	3899273							2514873						602671276	83574359		
97		6 SAGE1			2410516		32366888		3803507			214100					428200						889581697	65315490		
98		6 SALI1	272691				70497657																61137632	9992915	806529	
99		6 SPAR1	325694	1296021	432007				1022483	428348		306964					4297493						837304733	48658917		
100		6 SPAV1	1268725							68691203														50069451		
101		6 SPAV2			1517263		83451665		997525														11398142	42992781		
102		6 SPRG1			190629		29343553									67726							24307257			
103		6 SPRG2					55058371		439081	31270507													11827600			
104		6 SPRG3					79239848		1370192														26574538		3872616	
105	12	BALL1	12426409		27608435					817153													148587206	159380173		
106	12	BARR1	3012966		999115					3962618													8493204			
107	12	BARR2	1625325		1077933																		36652827			
108	12	BARR3	4759688		6313350					6259886													6708506			
109	12	BARR4	6802057		3007464					1490998													31957022			
110	12	BEAT1			6467095					8549771													36649991			
111	12	CANE1	13150242							3843343													21839216	37069013		
112	12	COVE1	701031		1394794				1650614	12907835													5928380		3110120	
113	12	EVAN1	1582464						2690993	20292065													46838212			
114	12	FLIN1	2681772		2667869				701596	19398691													30238420			
115	12	FLIN2			980744				773749	12641706		348435											132617694	204257386		
116	12	FLIN3	757055		1255217					1991339													169732290	149383531		
117	12	GOOS1	2244613		24562742				6459513	11808356						8462123							1006487981	329019888		
118	12	ILL1							14400426	48693036							11229690						19588731	12930217		
119	12	ILL2	15865667		9353134	1929389			1691036								830737			2424655			43914745	112636914		
120	12	ILL3	4422599		733279												2084133						82629172	71684078		
121	12	ILL4								1644792		589347					1178694						243003353	91658708		
122	12	ILL5							172073														117971056	88995270		
123	12	ILL6	5217311		2306783							1639092											155963331	156874624		
124	12	ILL7	1692002														398675							52465143		
125	12	ILL8															555402							26578265		
126	12	LEE1							2670555	25666012															443992	
127	12	LLEE1			405742				3681221	10359376																
128	12	LSAL1	186320		247139				194978	20706378							87803							6039968		
129	12	MTFK1	606089		401964				1585630	4782725																
130	12	OSAG1	3186536		2113344				416826	26716956							1501643						642981467	60631725		
131	12	OSAG2							314292	789997													574596926	157469968		
132	12	SAGE1			4780158	709966			2262756	1895871							135862						99111605	67453771		
133	12	SALI1	88750		250156				46437	656569														7818029		
134	12	SPAR1								9796155		292506											148440454	48991619		
135	12	SPAV1		5470303	17678994					106271264													49803746	46963827		
136	12	SPAV2			21042896				922311	92731979														89439922		

	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY
69	148084							19609					373882												
70				870865								4203040	5029474			8705952			54046424						
71	65737274																		1370190093		3101039				
72	28400911					11352984											3764111		9922584						
73	70664372												4757667						15553694						
74	20654392											11933934							9591071						
75	57186946						11149177		16042764								13263713								
76	35181317								2277573										9927743						
77	98521261						102097422		26710897	15500446			26710897						29107623						
78	62856657												18241344						95414928						
79	12911226																9981928		252608527						
80	36128599																		117809523						
81	11476642							155865											19431420						
82																	16392116		717307655						
83	9687541											5024920	13341262				4902305								
84																9501165			1061695770						
85	15682694																		2036599954						
86	12551888																5822470	486295	844174646						
87	2359655																	2594756	103875135						
88																		121948	198164343						
89	24144166			1821928													1429762	558343	48997000						
90	1991000	274257																	7865705						
91	1906202								13903513	4965087			3208503												
92	12667730	596961		788208		5596832			4488888	23444283									2445834						
93	5858500			814823						32314540									96079975						
94	32705396							48691362		23592620	14935523								18697853						
95								12637880											77319145						
96	2937420												2534024												
97				2660754									3788285				2043881		1174557791						
98	14859512			12776077		56699458	9481134		11368821	7916849							1566024		115589634						
99																			64422418						
100	13617580																	2915453	61483470						
101	26443968																	10514244	152441449						
102	20290493													599172											
103	11778428						21072153			21655970															
104	19458866								10917666	20273816			1091767						35583466						
105																			42830247						
106	343291005												12561402				12849808		417772134						
107	112721971												54209334				20770839		1204589481						
108	97261909								9921844				9921844				11204694		886101743						
109	146016756											16021666	47264263				20507764		86496918						
110																			267827087						
111	36191081												36549913				22407653		4252959191						
112	96369761							56872587					48224228						318635822						
113	66633554					32903424							19792418				11580976		216575095						
114																			230062501						
115	18314065																		523904840						
116	1875157																		833082913						
117	27798532												4679025						103183626						
118	146077504												308711503						101977335						
119	5821902																							949963	
120	32863148								9219162										1665870636						
121	43367209																		2772801599						
122	13033130																		6227242655						
123	8615208																		4422544955						
124	16763752																		8659605878						
125	17515435												14108303						2367629533						
126	11898369						3479562		4380957				4913639						1799122631						
127	32958547						7090322		33157798				14394575												
128	25613141												8927100						11117844						
129	14261664						21072933		1263427				5049132												
130	7892766												11370842						143186387						
131	11902490																		144770811						
132																			665870034						
133	2582963						771434						1572544				1987516		2016054						
134	18449222																		146639832						
135	181572139												27783699				6418559		2755178356						
136	61125158					146605068							14697907			51600398		45941584	704735961						

	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ
69								217352				28620										42218					
70												1138959										1680085					
71				30361805					5847673			462000								793298		567916					
72												418211										385566					
73								1382912				109258															
74				3187903					511658											138823							
75									2331577			1105248															
76				2749839								104607								718483							
77						1291704			8411068		6404698											754032		135834			
78				4404756																		549271					
79								1403748				2883507										1090636					
80				9789453								124134										610370					
81												4777407	386668														
82									29967673			364249								1250902							
83				894869					4308786		501796											167385		90460			
84				1633745			15499080		3146588													916773					
85												497197										596136					
86				4251345								121239															
87				399610								1940715															
88												91210								104411							
89									1507994			2784038															
90												11840										390543					
91								8082675	4973954													241531					
92				5080951		488423		652393	3261965		7217800						5039280		33595			126719					
93						504915						337211										1829848					
94						207438			5403014		4356194																
95						367626			1473131			1396629															
96						2869164																					
97				2286902								9134633															
98				16471444		1319475		2643662	6609155													2510484					
99						1575937					4784095																
100												1621495															
101				23031298								1295685															
102												584092															
103									1393291													67657					
104									677958			107125										2207330					
105									13963138			100288										493118					
106				7583037								4996869	3370258								817153	584993					
107												4038549	6537350														
108									7878520			1867345	40555105														
109				11412950								3189919	1290910														
110												868325	2459781														
111						189376						6224001	28210064														
112			33476336						1699072			2238279	6340576														
113						51275			28765333			380264							87494		520309						
114									3249872			757542	4721108														
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116												5946437	6417145														
117												1159713															
118								3176398	33352179			4727889	9740450								1476044						
119												4266213							4947669					500146	1216078		
120						152320	28060474		22787094			675117										553261					
121												7621723															
122												8142075										1644792					
123												251890	1427105									865040					
124												7326241															
125												2267942	3671203									1112651	796537				
126												225680	639303									1550056					
127				46595174	138356			3274493	13097972													197431	141339		278585		
128				102250859	281928			1853459	3336226																1135349		
129												1354738															
130				43413817					5875849																		
131									3861565																		
132									8735005													789997					
133												230039										2654219					
134								107551	1344387			11482786										29181					
135									6017566			3565667															
136									8075894			638042											1568633				
136												675064															

	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	CZ
69											923866			91751							124933					
70						3581652	11143634		2255503									7755425	15669603							
71																		1747700	25821722						12062722	
72			346159																6293089		1996726					
73			2893899																14561799		1192334					
74		60023	267675			2542398												305839	2433135		1544012					
75						46341904															253293206					
76							4330118				2813957							791438	4497401		5993291					
77							7694352														278921					
78																		845162	1921077		1219072			2187508		
79						17437860												6712633			2420596					
80						3903614												13618039	1067386		677339					
81														4922836				17039756			3723993					
82	540849													1459644				5511674	10962168		7950106					
83							2562059	1379173										6181303	292714		4829493			1111034		
84														1494302				4702120	8550443		678240					
85														1457516				4586365	42742248		2646172					
86														2592323				17130254	41718810		882460					
87						457642					408927			609170				2990327	2744982		165896					
88																			59847401		759556					
89											6409797							9314381	42343706							
90																		179158								
91															536062						536062					
92						5672983			1531069		1386513										1406218				67286	
93						1675582	1604079				28666598										2325920					
94						1032588	1482785											9473562			8600175					
95			875301											932779				6163866	3002281		1905179					
96																		2577124	25384130		2478183					
97	1033402													1394474				658199			3322878			1055561		
98											2809251			2092441				10666541			1424588					
99																										
100																										
101	1734559																	3676087	2785284		8837388					
102	1552751					865398												8838255	5022401		15138733					
103							1612489				8645067							1041036			18169395					
104											2697770							3241950	921131		1753586					
105																					1915277					
106			3820300				1790830							1907029				1800254	10146563		11685190					
107			4121672			18142737	8684262													123009209	25184418					
108							9369337													26542606	27171140					
109			11499587				13718833													19432196	9946177					
110																			30415305							
111			3705309			117434688	168635018														47545816					
112							25268598											4233597			27479663					
113							63143137														4394772					
114							14823670												4614759		826707					
115							17391739							1028901				1942585			11208035			399073		
116							7459009							1134713				2142361	862481		1545084					
117	1276387						1091028							580910				1096770			1581995					
118							9704462							1722357				19511069	28801130		2345250					
119							44385082		7454532																	
120							11855811		4456493															349772		
121																			5483525							
122	1422309		3171439			13315459	9560432												7738275		2310443					
123	748030														1919264				14588090		2613369					
124															2018785				9206721		2748882					
125															2668930				20286203		3634152					
126																			9868388		5303589					
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128						1807864	13629388														1882158					
129						1841947	19396788											443156	356816							
130						2243872	1074059			162780				285938				809784			778695					
131						1824798	33628357			264757								439030								
132							55107256											2308220			1664702					
133							15581838											3480854	21020067		1255206					
134							5816846											835351			3614763					
135							2941755											64288	51763		139094					
136							1789061											899238	19549046		1297072					
137							76832479														3481480					
138							25403309							2705162					6168481							

	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DU	DV	DW	DX	DY
69																100183	32206		65296		10045				
70														193276841			43576571		2923317						
71													3677699	316613631			18196004		3952652						
72														13647851		457474	1176527								
73													1739473	21393067		956124	4917897								
74														10553502			909776		230565						
75													52789229												
76														27309896			3531417		2983232						
77													1627649	33362992			2300873								
78													3556962	182273417			5028182		318574						
79														144769231			14975978		2530249						
80																	9079688		3540111		1742671				
81							735799	993703						53453240			9215984		12456607				4309573		
82													1449782	23773705		1593783	10247184		11945978						
83													1083947	39993064			12641359		194164						
84			2899485			934815			529635				1978941	324509247		1087751	19582259		5317229		218124				
85														427302793			49114773		13830216						
86														126666091			10919382		17526279						
87																532122	2737009		1387285		106705				
88													4432407	99939333					793964		977100				
89																347535	7597177		906051		278760				
90								172390								103612	532938		877909						
91													782051												
92																	580008				180897				
93													2969085								280508				
94													1045552				1478011								
95			2714890										1852953	37981185			1309683		10621246		408474				
96													1807687	326069424	12552592	3974475	29386841	967603	16837893		1195485				
97														113561301					1488602						
98						5277899								6816056					595649						
99									908040					16281744		1091524			3557115						
100																1417328	7290135		1847544						
101													9299203	114367107					1665739						
102																									
103													1705515	41950869											
104													1596664	6545571			564268								
105									8661264				1894144	279543728		4164565	34808737	2027762	20357550				11268859		
106													22963165	188276405		5048801	32461125		24679943				18215342		
107													19819728	650012671		5447086	56035015		24851744						
108													7255143	297426834		3987884	30767986		12995923						
109													6912203	1048461222			24428023		4952650						
110													158545551	812452955		5446664									
111													17817579	219131145		9793665	18890427		3191610						
112													8548599	35045244		1174712	1510556		3828213						
113									1139447				4824266	49443063		1325860	17049162		10369877				4783511		
114													12263391	787628309		11234554	36116124		1464470				40532642		
115													9016373	110888700			14338913		6460305						
116														28384437		2537181	1631273		4134148						
117																5641918	9673215		19611921						
118																	1411984						7923254	157279	
119							3384892						17979205	49137537											
120														176253368		1969330	22791156	3835534	17969716						
121														663270154		7410911	9529648								
122														312596945					8195265						
123														197283735		2204309			10056922						
124														130409227		29142007	7494708		18993896						
125														211462095		8505820			20327418						
126														147296012		1974938			2574412						
127													9152813												
128													1865073	19114815		256290	1318250								
129																	401475								
130													3695419	7574743		507809			330975						
131														318596128		8009477	3433114		18271189				9632343		
132														525493301			2588611		32801684				10894363		
133										3215189				3515672	43237815		966217		5982643						
134														405844	6100484		74359		48465						
135													1892274	62059475		12481355	24074556		4067489				7505153		
136													71106896	1082732511		5583547	21539556								
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	DZ	EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EU	EV	EW	EX	EY
69																			269987							
70							6399411						1339111	29077592	1027889				4297720			16557371				472087
71							12573482						5160291	160838809	1042366				2179124			8208719				410345
72							1835768												739720			4390864				
73							2685736						256917		986034				257670			5647343				
74							425864						190111	938201	182409				381336			1044718				
75							1293750						1732635	8550593					5213146			1190171				
76							1653050						737941	12139180	472030				1233507			1351738				
77					3900740		359012						240400						241105	1964723		660537				
78							3726666						788034	2592642					3161376			3969615				
79							3115658						2607874	20591858					7323454			2866214				
80								1384427					2918974	47537149	560144				6440569			2807116				
81							239666						79199434						14164039		25021584			786853	80824	
82							2558235						1927168	82425344	821820							11767095				970570
83					2597731		239087						160097						321132			1979507				
84							3055475						3507427	76449076					1172570			7227897				73601
85							13624027						7982524	64718596					2859260			23499878				2153677
86							16469889						12549699	97591446	2919100				6102542			22988159				7277966
87							106766						1143876	19404863	823152				573615			982180				72011
88							7821270						327329	3230748					2626306			27431275			178321	5687353
89		2150437					976219						933847	13825670					1123902			5131780				1175772
90													55683	8793431					781842			535488				560862
91																										
92		697747											2392521						243113							
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95													2189418	74283180	1050361				4940634			3007883				275661
96													5339833	89597439					6426585			13938415				3764981
97							2444015						409139	38363060					4924059							1545393
98													16966431						1477733							
99													36185969	1125669					10589734			1611771			1278260	1624841
100							3981250						16915299						763923							
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105							42197058						5522510						2244651			10761621		242659	1066851	
106							207665000						140596488									52186277		49030	4803940	
107							39344850						28892899									50270620		14229552	398685	
108							38406518						31729314									20610123		13670738	583766	
109							1524629						20153010									15428217		13098336		
110							4371312												17614127					32899987		
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112							942785												633156			32523910				
113							15429324												9788987					309018		
114							7213184						101305182						8477409			18248137		2923919		
115							9943736						32859831									10977152		5438531	1450956	
116							6108771						82429829						2051266			7492925		2402319	2135577	
117							1509339				11852317		29926346						9122782			41654968		657480		31303693
118							440632												8917789							445790
119					4343945		2370778	10039139					31337671	21347387					2122892			29806599				2265283
120							51299349				72393738		103187667						3994393			101223960		2662858		6518833
121					18730387		57184351				5282930		83369131									40228188		2116534		1985181
122							4422762				5556869		23384566									14647211		685010		1193211
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124							29581448				32163635		184228959						1528179			32446407		3193946	4772970	3453205
125							7925096						20951266									13123083		5446863	2746458	267263
126											317065															
127							1028451															3406003		4978		
128																			1514521					78832		
129							1222652												821109			17058926				
130											10095593		223043897						8634027			11826988		4589136	1563287	1083900
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133							387727															27450		84488		
134							5843320			697222			143443454			6555083			7848520			6911352		3919105	7460579	281511
135							4481170						29616730			13195905			3009466			12367202		9868618		
136							2370592						125340818						6368174			4361598		19448229		

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69										28125										73167							
70	10707181	803153	2641390																2883230	8735175				993626			
71	43431916		5625041	3567208															3508604	14763667							
72			35522049																4764086								
73			29519148	3987958															1659495								
74	1900095		8390459	113499															1125647	516714							
75	86585595		80313935																								
76	4916983		21712468																	668566							
77																											
78			10103551																7352406								
79	10425934	1564112	68672622																1122998	2835242							
80			10651671																942723	80923376							
81												14680								86365818							
82			844740	1534064															1844164	74495624							
83		720154	78947																4136435								
84			576532																3146588	29393596							
85		5984553	11527946																1227650	27895130							
86		1140436	6751149																4094038	117833258							
87			70509																615717	6023712							
88		11779225	12913080																4580996	3558670							
89		1960313	3960319																1608527	1015265							
90		83491																	779283	454030							
91	4617827		113919																								
92			119534																260957				449659				
93	2504537		1853558																	1362174							
94																			8312330								
95			7692535																4714018	43886852							
96			18169065							557893									3449145	56602539							
97	16356826	1840405	1210536	3175405															8368676	22240486							
98			1210959																								
99	5862861	1319331	1157063			542322					659767								5683504	106821735							
100			37185119																								
101			103625684																	3733050							
102		194058	1340246	231801															835975								
103	5035335		4844516																								
104			1046613	563162																							
105	11184484	2516867																	253875								
106	108473729																		8432922								
107	234061785	10973207																	20446864								
108		1606726																	44119710								
109	81629911																		20764689								
110	175532753	311614948																	28575693								
111		19729431																									
112	25238746	946588																	8499177								
113	35607711	5876108																	8155547								
114	48274984	16295124																	18793351								
115																			5199795								
116		3066705																	5734543	3619511							
117	20202813																		6605479	3705979							
118																			6528256	49445819							
119	52888941	3967235				244615													21599506							43214	
120	19902970		490993																23356772	2876538							
121		1688676																	13934627	5412440							
122	11839919																		12124323	12244150						35480	
123																			10202411	9659290							
124																			13488071	38310118							
125																			11482418								
126																			1142599								
127	2753207																										
128		251584																	3558641								
129																			361263								
130	14340332	2151356																	8373086								
131		811075																	10812381	23398373							
132	5189807	389291																	17470011	49987564							
133	399402	89878	88677																2236018	4233969							
134		3352508				524407													559265								
135	419869716	22496219																	8424593	22788896							
136	222116071	61883991																									

	GA	GB	GC	GD	GE	GF	GG	GH	GI	GJ	GK	GL	GM	GN	GO	GP	GQ	GR	GS
69			66926																4445329
70	458096						3221605												26535736
71																			35879280
72																			
73																			50910394
74		212476																	
75																			228891861
76								1812072											16247758
77																			31758383
78	449297							15480635											69402757
79		4663478					3136983												68903243
80																			
81	1098001											800164							
82							12878721	9464629											
83								1179391											47586973
84								2153191											
85								4200369											37662173
86								5603051											50239178
87																			
88																			
89																			
90			25170																
91								3403646											76296104
92																	1834957		
93																			28966114
94																			10200310
95																			36154462
96																			
97			369882									509984							
98			222007																40551468
99																			
100							4581142												
101																			136083209
102																			8548747
103																			16638843
104			426394																15576898
105							20191303	49462260											
106							16318932										41078567		
107																			193359377
108							12889795	15787945											141560975
109							6140256												101152195
110							35209842												1063394267
111								96932255											86913304
112																	14336718		83399317
113																			35298807
114		4048726					50837870	8895470											79760314
115																			
116	583054																		
117							24314705												
118		659532					3549180												38978537
119							9548019	19491338											
120							11976918	44009448											98651541
121																			74390612
122																			
123								23074512											51723806
124								33674352											
125							6383470												
126																	3070007		160729156
127							1656784	4058593									4170513		45488698
128																			11082929
129																	2065843		
130																			
131																			
132							3123046	3825233											4619267
133																			
134							6723787												
135																	22714712		297305187
136								11693882											104851985

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
137	12	SPRG1			12458453		1970948			107647129						632314						40110726				
138	12	SPRG2			9528720					24863229													12789635			
139	12	SPRG3			868254		24037878		171250	22168218												19567775	2767797		1936039	

	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY
137	26587961												5594079												
138	7492037												25221068												
139	9728082												2729038												

	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ
137									6504129																		
138									14662027																		
139									17451499																		

	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	CZ
137						16159327	133426615													3130329	2803899					798685
138						9106850	78464059																			
139	372226						22640476													763556	2051798					

	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DU	DV	DW	DX	DY
137													24543328	402464505		2248427	5782478						24335992		
138													94517222	170111529							1651765		9143294		
139													9977762	220882364		2193763	7052368				1429830				

	DZ	EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EU	EV	EW	EX	EY		
137							9022562													2423751				16600407				10175116
138							4067849													9989577				5613256				7309452
139	9187811																			864107				3239363				937383

	EZ	FA	FB	FC	FD	FE	FF	FG	FH	FI	FJ	FK	FL	FM	FN	FO	FP	FQ	FR	FS	FT	FU	FV	FW	FX	FY	FZ		
137	96615102																			13008257									
138		14294896																											
139	17674910		17235488																		2538400								

	GA	GB	GC	GD	GE	GF	GG	GH	GI	GJ	GK	GL	GM	GN	GO	GP	GQ	GR	GS
137	17802943																		399070610
138																			539766450
139																			77873675

	A	B
1	Diatom species name	Short name
2	Achnantheiopsis delicatula	ACdelica
3	Achnantheiopsis frequentissima	PTfreq
4	Achnantheiopsis lanceolata	AClanceo
5	Achnantheiopsis rostrata	ACrostra
6	Achnanthidium altergracillima	AHalterg
7	Achnanthidium exiguum	AHexigum
8	Achnanthidium minutissimum	AHminuti
9	Achnanthidium pyrenaicum	AHpyrena
10	Amphipleura pellucida	ALpelluc
11	Amphora copulata	AMcopula
12	Amphora inariensis	AMinarie
13	Amphora montana	AMmontan
14	Amphora ovalis	AMovalis
15	Amphora pediculus	AMPedcls
16	Bacillaria paradoxa	BApardxa
17	Brachysira neoexilis	BRneoex
18	Brachysira vitrea	BRvitrea
19	Caloneis bacillum	CAbacill
20	Caloneis thermalis	CAtherm
21	Capartogramma crucicula	CPcrucic
22	Cocconeis pediculus	CCpedcls
23	Cocconeis placentula var. euglypta	CCplaeug
24	Craticula buderi	KCbude
25	Cyclotella meneghiniana	CYmenegh
26	Cymatopleura solea	CTsolea
27	Cymbella aspera	CMaera
28	Cymbella excisa	CMexcisa
29	Cymbella hustedtii	CMhusted
30	Cymbella kolbei	CMkolbei
31	Cymbella laevis	CMlaevis
32	Cymbella mexicana	CMmexcan
33	Cymbella mexicana var. kamtschatica	CMmexkam
34	Cymbella neocistula	CMneocis
35	Cymbella neoleptoceros	CMnlepto
36	Cymbella novazeelandiana	Cmnovaze
37	Cymbella obtusifomis	CMobtusf
38	Cymbella prostrata	ECprstra
39	Cymbella semilanceolatum	Ecsemlan*
40	Cymbella tumida	CMtumida
41	Cymbella turgidula	CMturgdl
42	Delicata delicatula	CMdelcat
43	Denticula elegans Kutzing	DEelegan
44	Diadismis confervacea	DIconfer
45	Diadismis contenta	DIconten
46	Diatoma vulgaris	DAvulg

	A	B
47	Diploneis parma Cleve	DPparma
48	Diploneis puella	DPpuella
49	Discotella glomerata	DLglome
50	Encyonema evergladianum	ECevergl
51	Encyonema hamsherae	EChamshr*
52	Encyonema lacustre	EClcstre
53	Encyonema leei	ECleei
54	Encyonema leibleinii	ECleible*
55	Encyonema minutum	ECminutu
56	Encyonema prostratum	ECprstra
57	Encyonema semilanceolatum	Ecsemlan*
58	Encyonema silesiacum	ECsilesi
59	Encyonema triangulum	ECtriang
60	Encyonema ventricosum	ECventri*
61	Encyonopsis leei	EYleei
62	Encyonopsis microcephala	EYmicroc
63	Encyonopsis vandamii	EYvandam
64	Eolimna minima	Eolmini
65	Eolimna subminuscule	EOsubmin
66	Epithemia adnata	EPadnata
67	Epithemia turgida	EPTurgid
68	Eunotia bilunaris	EUbilun
69	Eunotia formica	EUformic
70	Fallacia tenera	FAtener2
71	Fragillaria capucina	FRcapuci
72	Fragilaria mesolepta	FRmesole
73	Fragilaria sepes	FRsepes
74	Fragilaria tenera	FRtenera
75	Fragilaria vaucheriae	FRvauche
76	Frustulia vulgaris	FSvulgar
77	Geissleria acceptata	GEaccep
78	Geissleria cummerowi	GEcummer
79	Geissleria decussis	GEdecu
80	Gomphoneis rhombica	Gsrhombi
81	Gomphonema acuminatum	GOacumin
82	Gomphonema affine	Goaffine
83	Gomphonema angustatum	Goangstt
84	Gomphonema augur	GOauger
85	Gomphonema clavatum	Goclavat
86	Gomphonema gracile	GOgracil
87	Gomphonema incognitum	Goincogn
88	Gomphonema insigne	GOinsign
89	Gomphonema intricatum var. vibrio	Gointvib
90	Gomphonema kobayasii	GOkobaya
91	Gomphonema lagenula	GOlage
92	Gomphonema louisiananum	GOlouis*

	A	B
93	Gomphonema minutum	Gominutm
94	Gomphonema olivaceum	GOolivcm
95	Gomphonema parvulum	Goparvul
96	Gomphonema parvulum fo. saprophilum	GOparsap
97	Gomphonema pumilum (changed to Gomphc	GOpumilu
98	Gomphonema truncatum	GOTrunca
99	Gomphosphenia lingulatiformis	GMlinfor
100	Grunowia solgensis	NIsinde
101	Grunowia tabellaria	NIsintab
102	Gyrosigma acuminatum	GYacumin
103	Gyrosigma reimeri	Gyreimer
104	Halamphora montana	HLmontan
105	Halamphora veneta	HLveneta
106	Hippodonta capitata	HIcapita
107	Hippodonta hungarica	HIhunga
108	Karayevia clevei	KVclevei
109	Luticola goeppertiana	LUgoepp
110	Melosira varians	Mevarian
111	Meridion circulare	Mdcircul
112	Navicula angusta	NAangust
113	Navicula antonii	NAantoni
114	Navicula capitatoradiata	Nacaprad
115	Navicula cryptocephala	NACrypto
116	Navicula cryptotenella	Nacryten
117	Navicula germainii	NAGermii
118	Navicula heimansioides	NAheides
119	Navicula incertata	NAincrtt
120	Navicula kotschy	NAkotsch
121	Navicula lanceolata	NAlancel
122	Navicula medioconvexa	NAmedcon
123	Navicula menisculus	NAmenscl
124	Navicula notha	NAnotha
125	Navicula peregrina	NAperegr
126	Navicula phyllepta	NPhylpt
127	Navicula radiosa	NAradios
128	Navicula recens	NArecons
129	Navicula reichardtiana	Nareichd
130	Navicula rostellata	Narostel
131	Navicula sanctaecrucis	NAsancru
132	Navicula schroeterii	NAschroe
133	Navicula stankovici	NAstank
134	Navicula symmetrica	NAsymtrc
135	Navicula tenelloides	NAtenell
136	Navicula tripunctata	Natripun
137	Navicula trivialis	NAtrivls
138	Navicula veneta	NAveneta

	A	B
139	Navicula viridulacalcis	NAvical
140	Neidium iridis	NEiridis
141	Nitzschia amphibia	Nlambhib
142	Nitzschia amphibioides	Nlambpoid
143	Nitzschia capitellata	Nlcapite
144	Nitzschia dissipata	Nidissip
145	Nitzschia filiformis	Nifilifr
146	Nitzschia fonticola	Nlfontic
147	Nitzschia frustulum	Nlfrustu
148	Nitzschia inconspicua	Nlincons
149	Nitzschia linearis	Nllinear
150	Nitzschia palea	Nipalea
151	Nitzschia paleacea	Nlpaleac
152	Nitzschia sigma	Nlsigma
153	Nitzschia sinuata var. delognei	Nlsinde
154	Nitzschia sinuata var. tabellaria	Nlsintab
155	Nitzschia solita	Nlsolita
156	Nitzschia valdecostata	Nlvaldec
157	Pinnularia gibba	Plgibba
158	Pinnularia interrupta	Plinterr
159	Pinnularia viridis	Plviridi
160	Placoneis elginensis	PCelgine
161	Placoneis placentula	PCplacen
162	Plagiotropis lepidoptera var. proboscidea	PGleppro
163	Platessa hustedtii	PLhuste
164	Pleurosira laevis	PRlaevis
165	Pseudostaurosira brevistriata	PDbrevis
166	Pseudostaurosira elliptica	PDellipt
167	Pseudostaurosira trainorii	PDtraino
168	Reimeria sinuata	Resinuta
169	Rhoicosphenia abbreviata	Roabbre
170	Rhopalodia gibba	RPgibba
171	Rhopalodia parallela	RPparall
172	Sellaphora pupula	Sfpupula
173	Sellaphora seminulum	SFseminu
174	Sellaphora stroemii	SFstroem
175	Stauroneis phoenicenteron	SSphoeni
176	Stauroneis thermicola	SSthermc
177	Staurosira construens	Srconstr
178	Staurosira construens var. binodis	SRconbin
179	Staurosira construens var. venter	SRconven
180	Staurosirella pinnata	SApinnat
181	Surirella angusta	SUangust
182	Surirella brebissonii	Subreb
183	Surirella suecica	SUsuecic
184	Surirella tenera	SUtenera

	A	B
185	Tabularia fasciculata	TBfascic
186	Thalassiosira lacustris (Grunow) Hasle	THlacstr
187	Thalassiosira weisflogii	THweiss
188	Tryblionella apiculata	TYapicul
189	Tryblionella debilis	TYdebili
190	Tryblionella salinarum	TYsalina
191	Ulnaria acus	ULacus
192	Ulnaria ulna	UlnaUlna

Site ID	Event1	Event2	Event3	Event4	Event5	Event6	Event7	Event8	Event9	Event10	Event11	Event12
BALL1	17-Jun-14	05-Aug-14	30-Sep-14	08-Dec-14	08-Feb-15	11-Apr-15	15-Jun-15	14-Aug-15	29-Sep-15	07-Dec-15	05-Feb-16	03-Apr-16
BARR1	16-Jun-14	07-Aug-14	26-Sep-14	05-Dec-14	05-Feb-15	09-Apr-15	11-Jun-15	17-Aug-15	01-Oct-15	09-Dec-15	06-Feb-16	02-Apr-16
BARR2	16-Jun-14	07-Aug-14	26-Sep-14	05-Dec-14	05-Feb-15	09-Apr-15	15-Jun-15	18-Aug-15	01-Oct-15	09-Dec-15	05-Feb-16	03-Apr-16
BARR3	17-Jun-14	07-Aug-14	26-Sep-14	05-Dec-14	05-Feb-15	09-Apr-15	15-Jun-15	18-Aug-15	02-Oct-15	10-Dec-15	05-Feb-16	03-Apr-16
BARR4	17-Jun-14	07-Aug-14	26-Sep-14	05-Dec-14	05-Feb-15	09-Apr-15	15-Jun-15	18-Aug-15	02-Oct-15	11-Dec-15	07-Feb-16	03-Apr-16
BEAT1	18-Jun-14	08-Aug-14	01-Oct-14	06-Dec-14	07-Feb-15	12-Apr-15	12-Jun-15	15-Aug-15	30-Sep-15	08-Dec-15	03-Feb-16	04-Apr-16
CANE1	16-Jun-14	10-Aug-14	26-Sep-14	05-Dec-14	05-Feb-15	09-Apr-15		18-Aug-15	02-Oct-15		07-Feb-16	03-Apr-16
COVE1	23-Jun-14	06-Aug-14	27-Sep-14	09-Dec-14	09-Feb-15	16-Apr-15	11-Jun-15	17-Aug-15	02-Oct-15	09-Dec-15	06-Feb-16	02-Apr-16
EVAN1	16-Jun-14	06-Aug-14		10-Dec-14	09-Feb-15	12-Apr-15	11-Jun-15	17-Aug-15	02-Oct-15	09-Dec-15	06-Feb-16	02-Apr-16
FLIN1	17-Jun-14	11-Aug-14	01-Oct-14	09-Dec-14	07-Feb-15	12-Apr-15	13-Jun-15	16-Aug-15	29-Sep-15	11-Dec-15	03-Feb-16	05-Apr-16
FLIN2	17-Jun-14	11-Aug-14	01-Oct-14	08-Dec-14	08-Feb-15	11-Apr-15	13-Jun-15	16-Aug-15	01-Oct-15	11-Dec-15	05-Feb-16	05-Apr-16
FLIN3	18-Jun-14	10-Aug-14	01-Oct-14	09-Dec-14	08-Feb-15	11-Apr-15	13-Jun-15	16-Aug-15	01-Oct-15	11-Dec-15	05-Feb-16	05-Apr-16
GOOS1	19-Jun-14	04-Aug-14	28-Sep-14	07-Dec-14	06-Feb-15	10-Apr-15	14-Jun-15	13-Aug-15	01-Oct-15	07-Dec-15	04-Feb-16	06-Apr-16
ILLI1	23-Jun-14	04-Aug-14		08-Dec-14	06-Feb-15	10-Apr-15	14-Jun-15	13-Aug-15	29-Sep-15	07-Dec-15	04-Feb-16	06-Apr-16
ILLI2	19-Jun-14	04-Aug-14	28-Sep-14	04-Dec-14	06-Feb-15	10-Apr-15	14-Jun-15	13-Aug-15	28-Sep-15	10-Dec-15	04-Feb-16	06-Apr-16
ILLI3	22-Jun-14	05-Aug-14	30-Sep-14	04-Dec-14	04-Feb-15	11-Apr-15	14-Jun-15	14-Aug-15	28-Sep-15	10-Dec-15	04-Feb-16	05-Apr-16
ILLI4	20-Jun-14	05-Aug-14	30-Sep-14	04-Dec-14	04-Feb-15	08-Apr-15	15-Jun-15	14-Aug-15	28-Sep-15	10-Dec-15	04-Feb-16	06-Apr-16
ILLI5	22-Jun-14	05-Aug-14	30-Sep-14	04-Dec-14	04-Feb-15	08-Apr-15	15-Jun-15	14-Aug-15	28-Sep-15	10-Dec-15	05-Feb-16	03-Apr-16
ILLI6	20-Jun-14	05-Aug-14	30-Sep-14	04-Dec-14	04-Feb-15	08-Apr-15	15-Jun-15	14-Aug-15	28-Sep-15	10-Dec-15	05-Feb-16	06-Apr-16
ILLI7	20-Jun-14	07-Aug-14	30-Sep-14	04-Dec-14	04-Feb-15	08-Apr-15	15-Jun-15	14-Aug-15	28-Sep-15	10-Dec-15	05-Feb-16	06-Apr-16
ILLI8	20-Jun-14	26-Aug-14	01-Oct-14	07-Dec-14	08-Feb-15	08-Apr-15	15-Jun-15	14-Aug-15	28-Sep-15	10-Dec-15	07-Feb-16	06-Apr-16
LEE1	23-Jun-14	06-Aug-14	27-Sep-14	10-Dec-14	09-Feb-15	16-Apr-15	11-Jun-15	17-Aug-15	02-Oct-15	09-Dec-15	06-Feb-16	02-Apr-16
LLEE1	23-Jun-14	06-Aug-14	27-Sep-14	10-Dec-14	09-Feb-15	16-Apr-15	11-Jun-15	17-Aug-15	02-Oct-15	09-Dec-15	06-Feb-16	02-Apr-16
LSAL1	24-Jun-14	08-Aug-14	29-Sep-14	07-Dec-14	10-Feb-15	13-Apr-15	12-Jun-15	15-Aug-15	30-Sep-15	08-Dec-15	03-Feb-16	04-Apr-16
MTFK1	23-Jun-14	06-Aug-14	27-Sep-14	10-Dec-14	09-Feb-15	16-Apr-15	11-Jun-15	17-Aug-15	02-Oct-15	09-Dec-15	06-Feb-16	02-Apr-16
OSAG1	19-Jun-14	04-Aug-14	28-Sep-14	08-Dec-14	06-Feb-15	10-Apr-15	13-Jun-15	13-Aug-15	29-Sep-15	07-Dec-15	04-Feb-16	05-Apr-16
OSAG2	19-Jun-14	04-Aug-14	28-Sep-14	08-Dec-14	07-Feb-15	12-Apr-15	13-Jun-15	13-Aug-15	29-Sep-15	07-Dec-15	04-Feb-16	05-Apr-16
SAGE1	18-Jun-14	11-Aug-14	01-Oct-14	09-Dec-14	08-Feb-15	11-Apr-15	13-Jun-15	16-Aug-15	01-Oct-15	11-Dec-15	05-Feb-16	05-Apr-16
SALI1	24-Jun-14	08-Aug-14	29-Sep-14	07-Dec-14	10-Feb-15	13-Apr-15	12-Jun-15	15-Aug-15	30-Sep-15	08-Dec-15	03-Feb-16	04-Apr-16
SPAR1	19-Jun-14	04-Aug-14	28-Sep-14	08-Dec-14	06-Feb-15	10-Apr-15	14-Jun-15	13-Aug-15	29-Sep-15	07-Dec-15	04-Feb-16	05-Apr-16
SPAV1	18-Jun-14	08-Aug-14	01-Oct-14	06-Dec-14	07-Feb-15	12-Apr-15	13-Jun-15	16-Aug-15	30-Sep-15	11-Dec-15	03-Feb-16	05-Apr-16
SPAV2	18-Jun-14	08-Aug-14	01-Oct-14	06-Dec-14	07-Feb-15	12-Apr-15	13-Jun-15	16-Aug-15	30-Sep-15	08-Dec-15	03-Feb-16	04-Apr-16
SPRG1	24-Jun-14	10-Aug-14	29-Sep-14	07-Dec-14	10-Feb-15	13-Apr-15	12-Jun-15	15-Aug-15	29-Sep-15	08-Dec-15	03-Feb-16	04-Apr-16
SPRG2	24-Jun-14	10-Aug-14	29-Sep-14	07-Dec-14	10-Feb-15	13-Apr-15	12-Jun-15	15-Aug-15	30-Sep-15	08-Dec-15	03-Feb-16	04-Apr-16
SPRG3	24-Jun-14	10-Aug-14	29-Sep-14	07-Dec-14	10-Feb-15	13-Apr-15	12-Jun-15	15-Aug-15	30-Sep-15	08-Dec-15	03-Feb-16	04-Apr-16

Site ID	nuis1	nuis3	nuis5	nuis6	nuis9	nuis12	tot1	tot3	tot5	tot6	tot9	tot12
BALL1	483335891	724607241	4079074292	26708162	4154850	514189934	5772013201	2434931523	4561139444	251360174	374228397	636639428
BARR1	1079249442	77533709	2891577498	383631538	180087394	4311947	3232089242	413167869	3043674028	557496168	581186334	141360170
BARR2	611497714	26174797	4663024	0	30305781	0	5089113024	564526355	486474283	201583302	329659907	22367489
BARR3	658872590	69416966	15423984	0	0	0	4403610541	808080993	403019924	564804808	434658213	68305594
BARR4	796704770	213668061	10958159	0	0	3520064	3521793794	674089620	160490499	279663743	420211210	37290725
BEAT1	136700997	20103383	2541965	18102392	0	0	3234014668	651314410	674976779	63444455	345779258	162866948
CANE1	1874888934	0	0	0	2087296237	0	4534075619	600284231	1402150799	724396872	2093459017	97171984
COVE1	0	0	4172302	1864990	3907056	0	467684803	264635095	77804799	155927391	64018652	54189607
EVAN1	2848926	0	0	25121348	5912643	0	2940951721		476670880	543909321	327960386	120242917
FLIN1	238808501	1657701610	1877768113	165171911	0	559182771	3599743761	1967457596	1986228745	453566488	323281158	703412939
FLIN2	443207272	47423269	2681852993	174954500	0	249032786	3566919904	284003272	3009542107	395875471	226403850	296698190
FLIN3	162226387	648136012	884736757	181721211	408483	3586394444	3361777009	703599162	1086878923	489790435	81921918	3591172757
GOOS1	1605396891	1440734205	6130787207	5979202367	349693511	1999573572	1797966862	1522004138	6149972275	6039424144	424930732	2020250302
ILLI1	31172628	0	32062943	240781026	37639723	0	932609726		144587168	428110145	164038135	30699211
ILLI2	279302065	462242418	4847945397	1484442833	251897120	359947395	471767504	733966432	4876772278	1540023387	319607902	379222500
ILLI3	400832202	1179352846	24051737155	413477541	40758440	2873014610	1951474665	2963207730	24078199165	537668095	449337752	2893539536
ILLI4	1712891847	966182092	25364506530	2434461664	0	8287242900	5091355331	1978960116	25566360786	2667809937	493485275	8304521752
ILLI5	302457931	2225657976	21402450315	556268799	162069399	6183964599	913912857	2733043296	21419467270	570878246	526761347	6188251040
ILLI6	462121852	257132904	11312477929	0	228384613	8788930644	1208674540	855105482	11325427896	105372206	369612830	8816277932
ILLI7	643923175	228892387	15231896436	0	81992059	798179297	2718092709	654763332	15749841058	296370312	348210181	812221966
ILLI8	398163919	80441603	26599661133	76905979	65069972	0	2715081700	246189552	26697575439	99313991	240232938	27566255
LEE1	3440576	0	0	2083076	23119624	398925	364136439	106849742	131494973	80944685	208596814	14790801
LLEE1	25788629	25073216	1599413	0	9968376	0	265015228	74707845	20291837	27500321	260446028	6888208
LSAL1	1004170	0	0	159108128	727918	0	1055419942	98453443	1442474556	297407393	332953008	251821712
MTFK1	0	1045247	0	0	6011792	303374	1251338734	300279792	30308528	21403754	167652205	7731028
OSAG1	551242145	1435275580	1033742706	874103538	11596797	4594369327	2356733112	1723344280	1188276717	1183248444	262492987	4702377414
OSAG2	147598500	563645823	18494296113	2109804382	109371512	2789535900	1510086095	791637970	18534062454	2193559457	344538450	2802688551
SAGE1	373944077	1521190662	16302163433	962953016	635357011	1546655115	479148373	1612258159	16302298567	1007364828	1094053283	1564419028
SAL1	48427242	52477802	62387236	269800830	36008518	0	1036365982	508540965	1170718470	396794907	182060275	6618967
SPAR1	979491352	318317717	8834548208	1403349283	119307448	2810755362	1716585467	391087709	8850873198	1483204476	244336276	2834576992
SPAV1	170064339	56005590	20046118	0	0	7536103183	3316577334	638947345	1224077777	801248541	311787236	7686614579
SPAV2	433304594	541762415	94016270	45602622	9757337	397580371	10384779154	818800311	1190748133	996909496	143200379	602859291
SPRG1	123185095	0	184555517	135693650	0	0	638035796	422265734	498766278	2192355938	83056585	164694892
SPRG2	9309408	0	0	0	0	759115	165635527	202693782	2642457471	964150751	164821130	113791320
SPRG3	2084610	0	0	0	0	0	1831060218	345795545	1492508528	632469362	208475588	145347653

Site ID	pleuro1	pleuro2	pleuro3	pleuro4	pleuro5	pleuro6	pleuro7	pleuro8	pleuro9	pleuro10	pleuro11	pleuro12
BALL1	7.8	10.6	34.1	11.6	5.4	12.4	0.8	5.2	4.7	19.4	0.8	4.7
BARR1	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARR2	3.9	17.1	34.1	2.3	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
BARR3	1.6	32.3	25.6	0.0	1.6	0.0	0.0	0.0	0.0	0.8	0.0	0.0
BARR4	0.0	1.8	4.7	4.1	0.0	6.2	0.0	0.0	0.0	0.0	0.0	0.0
BEAT1	2.3	23.5	115.5	16.3	0.8	4.7	0.8	2.3	6.2	9.3	0.8	0.0
CANE1	14.7	123.3	87.6	36.4	4.1	13.4		0.0	1.6		0.0	0.0
EVAN1	0.0	3.1		0.8	0.0	0.0	0.0	3.1	0.8	0.8	0.0	0.0
FLIN1	6.2	24.5	15.5	0.8	3.9	41.9	52.7	164.3	147.3	21.7	1.6	0.0
FLIN2	25.6	24.5	25.6	12.4	6.2	45.0	19.4	21.7	30.2	13.2	0.0	0.8
FLIN3	119.4	196.4	268.2	55.0	5.4	120.9	75.2	130.2	172.1	71.3	18.6	5.4
ILLI1	0.0	0.0		25.6	1.6	7.0	0.8	7.0	38.8	0.8	0.0	3.9
ILLI2	17.1	45.0	69.0	103.1	20.2	117.8	26.4	0.0	2.3	2.3	0.8	1.6
ILLI3	24.8	69.8	198.4	25.6	144.2	87.6	3.1	0.0	1.6	0.0	0.0	3.1
ILLI4	55.8	34.9	246.3	104.7	86.8	62.8	21.7	9.3	3.1	66.7	17.8	0.8
ILLI5	9.3	160.2	127.9	219.4	138.0	287.6	84.5	0.8	2.3	13.2	0.0	3.1
ILLI6	4.7	41.1	52.7	0.8	2.3	3.1	0.8	0.0	10.9	0.8	0.0	0.0
ILLI7	0.0	1.0	26.4	1.0	6.2	3.1	1.6	0.0	0.0	0.8	0.0	0.0
ILLI8	12.4	189.9	257.4	162.8	307.8	279.1	29.5	269.8	250.4	106.2	0.0	0.0
LSAL1	4.7	40.1	204.4	57.4	26.9	99.2	10.1	73.6	127.1	96.1	0.8	0.0
OSAG1	5.4	86.0	714.7	76.7	82.2	243.4	360.5	341.1	700.8	274.4	23.3	32.6
OSAG2	0.0	76.0	303.1	164.3	56.6	48.8	63.6	57.4	60.5	172.9	2.3	4.7
SAGE1	14.0	396.1	732.6	83.7	29.5	138.0	152.7	253.7	93.0	71.3	14.7	38.8
SALI1	48.8	106.5	635.1	552.7	102.3	338.0	3.9	72.1	250.4	162.0	0.0	0.8
SPAR1	10.9	560.5	843.4	650.4	247.3	1354.3	1062.0	376.0	1017.1	1540.3	3.9	13.2
SPAV1	7.0	20.2	298.7	129.5	14.0	224.0	47.3	26.4	46.5	272.1	3.1	10.1
SPAV2	9.3	42.6	24.0	45.7	16.3	22.5	169.0	72.9	264.3	623.3	11.6	0.8
SPRG1	93.8	0.0	243.2	35.9	34.9	302.3	55.0	142.6	420.9	45.7	0.8	0.0
SPRG2	38.0	0.0	460.5	107.8	8.0	108.5	32.6	88.4	159.7	155.8	11.6	4.7
SPRG3	13.2	29.5	201.6	48.8	8.5	104.7	7.0	11.6	153.5	77.5	0.0	0.0

Site ID	q_cfs1	q_cfs2	q_cfs3	q_cfs4	q_cfs5	q_cfs6	q_cfs7	q_cfs8	q_cfs9	q_cfs10	q_cfs11	q_cfs12
BALL1	6.85	2.83	1.19	16.85	7.32	20.38	36.50	13.96	6.50	48.88	17.06	16.96
BARR1	4.18	3.01	0.60	14.32	11.00	27.13	31.00	4.20	7.00	11.00	18.23	19.00
BARR2	25.17	27.41	12.57	73.28	55.61	132.29	142.23	45.81	31.95	170.19	86.95	91.13
BARR3	45.06	30.33	17.85	67.50	95.33	176.77	103.45	66.63	41.00	219.52	161.33	124.55
BARR4	133.00	63.46	41.74	86.00	104.00	244.00	247.00	62.00	25.00	446.00	198.00	181.50
BEAT1	47.77	19.00	6.40	10.00	11.00	47.00	45.00	22.00	15.00	51.00	33.00	24.00
CANE1	31.93	20.00	9.54	23.00	30.00	71.00			32.00		64.00	51.00
COVE1	3.19	1.86	0.85	41.73	20.70	145.32	22.05	1.33	1.80	44.66	16.17	26.34
EVAN1	11.27	3.62		38.48	20.03	38.48	58.78	15.19	6.89	71.97	32.10	42.50
FLIN1	14.84	14.02	6.91	18.72	12.19	23.29	33.13	26.48	19.13	79.40	26.09	22.32
FLIN2	29.25	22.67	11.00	26.00	23.00	38.00	86.00	32.00	28.00	58.00	49.00	34.00
FLIN3	69.30	87.52	21.86	54.00	36.81	83.00	122.00	69.00	53.00	119.00	100.00	76.00
GOOS1	6.06	11.10	7.28	19.15	17.78	22.51	20.59	14.96	12.63	31.38	20.28	17.69
ILLI1	0.79	0.00		12.61	6.29	14.43	3.41	1.86	0.94	23.11	7.61	4.59
ILLI2	37.00	20.54	13.00	33.00	47.00	71.00	95.00	66.00	47.00	115.00	88.80	47.00
ILLI3	214.00	166.00	147.00	217.00	270.00	384.00	552.00	276.00	236.00	525.00	441.00	336.00
ILLI4	276.00	172.00	142.00	217.00	273.00	452.00	627.00	300.00	251.00	483.00	534.00	415.00
ILLI5	238.00	161.00	130.00	211.00	299.00	487.00	589.00	302.00	204.00	605.00	504.00	368.00
ILLI6	377.00	253.00	168.00	280.00	394.00	636.00	772.00	373.00	256.00	825.00	670.00	452.00
ILLI7	377.00	253.00	177.00	333.00	433.00	642.00	915.00	433.00	294.00	1060.00	889.00	540.00
ILLI8	608.00	215.00	171.00	587.00	386.00	826.00	915.00	401.00	289.00	1065.00	842.00	527.00
LEE1	5.01	1.23	0.10	96.40	46.16	430.00	21.27	0.83	0.33	98.13	26.50	81.31
LLEE1	21.00	4.80	4.50	78.00	44.00	338.00	31.00	13.00	10.00	59.00	64.00	49.00
LSAL1	32.07	12.17	5.73	8.37	7.65	17.35	27.76	6.92	5.20	41.81	24.80	17.64
MTFK1	4.63	1.27	0.95	18.25	9.37	60.78	3.22	0.27	0.53	11.11	5.28	12.70
OSAG1	63.42	28.02	23.00	30.00	27.00	32.00	49.00	31.00	21.00	36.00	57.13	36.00
OSAG2	106.00	93.00	93.00	121.00	93.00	114.00	188.00	126.00	128.00	185.00	147.00	112.00
SAGE1	23.02	20.19	4.70	10.00	9.80	14.00	16.00	9.80	8.50	15.00	20.01	11.00
SALI1	106.25	40.00	16.05	34.73	28.86	66.12	94.99	31.67	28.96	127.37	58.87	62.76
SPAR1	44.48	35.33	50.25	55.12	40.00	47.00	49.00	44.00	44.00	52.00	47.95	46.00
SPAV1	23.70	11.92	15.50	26.73	30.00	66.00	103.00	52.00	29.00	72.00	83.00	52.50
SPAV2	95.00	47.00	26.00	59.00	57.00	110.00	180.00	61.00	55.00	125.00	123.00	89.00
SPRG1	20.27	25.57	6.93	17.15	11.87	21.03	25.10	14.91	12.16	40.59	22.27	26.13
SPRG2	50.77	35.41	12.69	25.00	21.98	53.95	67.05	35.49	25.55	86.39	43.51	47.12
SPRG3	78.00	47.00	27.00	36.00	36.00	69.00	92.00	43.00	40.00	146.00	60.00	29.00

Site ID	chla_ugl1	chla_ugl2	chla_ugl3	chla_ugl4	chla_ugl5	chla_ugl6	chla_ugl7	chla_ugl8	chla_ugl9	chla_ugl10	chla_ugl11	chla_ugl12
BALL1	1.49	1.52	1.26	1.60	3.10	4.73	1.35	2.92	0.79	0.47	1.63	1.98
BARR1	1.18	1.03	1.46	4.07	4.84	4.69	1.83	2.06	1.60	0.57	3.61	2.41
BARR2	1.69	1.49	0.48	1.29	1.32	3.78	1.09	1.52	1.06	0.29	2.38	2.15
BARR3	1.86	2.26	0.89	1.12	1.49	0.99	0.92	2.09	1.23	0.32	0.59	2.38
BARR4	1.55	2.18	1.15	1.89	1.81	2.79	1.98	2.32	1.32	0.63	2.41	2.41
BEAT1	1.09	1.15	0.09	0.69	0.34	0.77	1.00	0.60	0.69		1.06	2.15
CANE1	4.01	1.98	0.57	1.00	1.09	1.81		1.18	0.83		1.58	1.60
COVE1	1.23	1.00	0.54	0.66	0.72	1.03	1.35	1.18	0.77	0.57	0.52	0.20
EVAN1	0.92	0.69		0.57	1.26	1.20	0.77	1.07	1.09	0.26	1.33	1.55
FLIN1	1.38	1.98	0.75	1.81	1.52	0.39	1.43	0.83	6.65	0.75	0.92	3.04
FLIN2	1.63	1.32	0.52	0.57	1.49	1.33	1.29	1.00	0.80	0.97	5.04	1.15
FLIN3	2.03	1.60	1.09	1.00	0.89	1.59	1.20	1.65	0.69	0.56	2.95	2.19
GOOS1	1.75	3.15		1.38	2.21	2.92	2.03	1.92	1.32	0.72	1.06	2.03
ILLI1	0.60	0.60		1.09	0.72	1.98	3.35	1.32	1.75	0.77	2.42	0.76
ILLI2	2.32	2.69	4.56	3.67	3.87	5.03	2.52	2.61	3.01	1.26	1.72	6.85
ILLI3	3.53	2.25	1.75	1.09	2.03	7.01	2.84	1.92	1.95	0.95	3.84	3.55
ILLI4	2.41	2.87	0.95	1.89	2.21	3.18	2.26	2.03	1.63	0.72	5.50	7.25
ILLI5	1.89	3.95	1.38	1.69	0.92	2.58	2.64	2.95	1.71	0.54	2.78	8.57
ILLI6	1.81	5.62	1.32	1.69	1.89	2.84	1.86	2.52	1.32	0.69	3.61	7.51
ILLI7	1.92	4.47	1.89	1.75	3.18	1.63	2.87	2.21	1.49	0.40	3.55	9.46
ILLI8	2.09	3.15	0.97	1.69	2.12	0.34	2.12	2.98	1.32	0.53	2.58	5.88
LEE1	1.31	1.26	1.20	0.63	1.32	0.69	0.77	0.34	0.63		0.75	0.66
LLEE1	0.46	0.95	0.75	0.29	0.75	1.33	1.49	2.06	1.09	0.34	1.06	0.93
LSAL1	1.00	1.03	0.43	0.32	0.69	0.99	0.46	0.23	0.57	0.23	0.29	0.46
MTFK1	2.58	0.17	0.49	0.37	0.83	0.77	0.37	0.83	0.40	0.03	0.69	0.69
OSAG1	2.75	1.03	0.63	1.89	1.15	1.33	1.58	0.86	1.06	0.57	2.32	1.83
OSAG2	0.80	1.89	0.57	1.40	1.20	1.55	1.06	2.26	3.53	0.49	2.38	1.92
SAGE1	1.92	1.81	0.77	1.95	14.47	2.75	3.21	0.75	0.23	1.00	3.38	1.95
SALI1	1.39	0.97	1.55	1.15	1.69	2.15	1.00	1.43	1.09	0.52	0.89	0.63
SPAR1	2.15	1.40	1.26	0.83	1.83	3.05	2.44	1.09	0.89	0.80	2.18	2.24
SPAV1	0.97	0.83	0.86	0.86	1.29	1.38	1.26	0.80	0.83	0.63	1.60	1.49
SPAV2	1.12	2.15	0.46	0.75	1.00	1.12	1.81	2.03	0.92	0.97	0.80	2.01
SPRG1	1.26	1.63	1.43	0.69	0.89	1.16	1.60	1.49	0.60	0.27	1.18	2.45
SPRG2	0.63	0.32	0.83	0.17	0.66	0.95	0.46	0.66	0.89	0.11	0.57	1.06
SPRG3	1.49	1.09	0.80	1.03	0.49	0.99	1.20	1.15	0.49	0.89	1.09	0.83

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1	EVENT	Site ID	ANKIstro	AUDoherm	BATROCHO	BULBOCHA	CALOfusc	chloflag	CHLOROOCO	CHROOCOC	chrysoph	CLADglom	CLOSacer	CLOSehre	CLOSTERI	COELASTR	COLEOCHA	COSMARI1	COSMARIU	COSMbotr	DESMabun	DESMarma	DESMquad	diatom
2	1 BALL1						1067987291			14335752		478956216	248763											
3	1 BARR1						340345720		4040180			994584152							28687669					
4	1 BARR2						806293214		858968	9448645		593686059												
5	1 BARR3						1099447559		1597191	19166296		26611395	594327							155571				
6	1 BARR4							970357	11196428			774327287			223142						6001286			
7	1 BEAT1						604355		22247547	3893321		133053432		495259										
8	1 CANE1								1406507			1115692295												
9	1 COVE1						126726447		120123	360370														
10	1 EVAN1						762733061		2437686															
11	1 FLIN1						2242163		22412162			237321889												
12	1 FLIN2	1345202		412474			5680101		8898574	3868945		439011664												
13	1 FLIN3						119385		18930117	631004	951360	160986270												
14	1 GOOS1						274077			763861		1591471605	673805							25697056				
15	1 ILL1						47017264		417002			19951326												
16	1 ILL2			3125448					1596804			263075886								9479668				
17	1 ILL3								7525846			398517128												
18	1 ILL4			224022					828615	1632120		538201657												
19	1 ILL5	748910										295134212												
20	1 ILL6			251986					15477706	2691775		462121852		64706130					33957777					
21	1 ILL7											592629815												
22	1 ILL8			1890686					8198220			397519523											994173	
23	1 LEE1					1696761	119948727		239509	479018														
24	1 LLEE1						123374447		130342			18758176	418937						201090					
25	1 LSA11			471045			22682015		438976											222846				
26	1 MTFK1						21864263			364276														
27	1 OSAG1								14626201			517830007	913025											
28	1 OSAG2			42299					868135	1302202		147082548	262790	262790										
29	1 SAGE1			88130				304333	1825998			373867291												
30	1 SALI1						5027797			804789		48427242												
31	1 SPAR1								2600119			973054318	96158								1891851			
32	1 SPAV1						1443953787		15382862	1153715		166101108		1790855										
33	1 SPAV2						568741		34551354			430418541												
34	1 SPRG1			763105			890046		2351516			122469078												
35	1 SPRG2						24826855		248317															
36	1 SPRG3						15813456																	
37	3 BALL1						75576974					559101319								59108088				
38	3 BARR1						30697666			712477														
39	3 BARR2						13392593					20287726		151032										
40	3 BARR3			340438			7953161					67344225												
41	3 BARR4						23486647			3670003		213668061	238598											
42	3 BEAT1			750319			48088877			12613604		17763655												
43	3 CANE1						46313650			6069217														
44	3 COVE1						99287151		1631361															
45	3 FLIN1			5116167			5723511		78646801	7826369		1653848735		502535		32323								
46	3 FLIN2			426194			18015764		13304970	2407302		47423269											413562	
47	3 FLIN3								18131355			642972090												
48	3 GOOS1			92330					28372386			1432615016												
49	3 ILLI2			35227989		203949	1527964			455232		455532190												
50	3 ILLI3			4538073			4317405			1026182		1178236452	442256											
51	3 ILLI4			2633459			9464864			870311		960484466	1454307											
52	3 ILLI5			327902			14142080					2164847311												
53	3 ILLI6			2278279			4214575			2037438		256821531		740095					17135379					
54	3 ILLI7			232303			4696403			464164		206789876												
55	3 ILLI8			198712			563831		179271	15033806		79521919	86634							45355	212279			
56	3 LEE1						78123760		1754994	138922														
57	3 LLEE1					260893	36485509			577437			200218						210149		4844547			
58	3 LSA11			580890			40420093									301214								
59	3 MTFK1						241861820																	
60	3 OSAG1									644865														
61	3 OSAG2			1129996			1181627		5714100	1550800		1355749351	704156											
62	3 SAGE1			75582					2698773	5249179		563645823												
63	3 SALI1			46897			54583833		23951433	1083398		1443729850						4969994					13423	
64	3 SPAR1			55422						794456		52183233												
65	3 SPAV1						24778255		18080136	3351072		317157323												
66	3 SPAV2			502076			338344		33674177	46711106		44196610		282019										
67	3 SPRG1			1021186			4409614		58019225	5964525		540045442												
68	3 SPRG2			358781			113877968			6408325														

	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV
1	GONGdeba	HOMOEOTH	HYDReti	KOMMA	KYLlatv	LYNGBYA	MERISMOP	MICRpach	MOUGEOTI	OEDOGON1	OEDOGON2	OEDOGON4	OSCILLA2	OSCILLAT	PEDinte	PERIDINI	PSEUDULV	RHIZOCLO	SCENbiju	SCENdimo	SCENEDES	SCHIZOTH	SPIROGY2	SPIROGY3
2		3672042565				20584670		315033		3961038		418638	467272009	28818538	121555				5629277	5629277	5629277			
3		1665340683	69842343			34673829				2778712	12044236			75907571							3844148			
4		3368336351						272292			17811655			286208058						6197783				
5		2452809228	571513369			46235004		865554			59080858	1666968	116550739		72603				1317069	5268274	658534			
6		2500233323	5217659			21944999	3588	989053		1579145	9760109	5820570		165318994						18003857				
7		2820488415									2953964	277821	38573824	209640349				415780						
8		2570024531	512376903			9896042				5532142	241287593			77754618										
9		335406805				1086655								3984402										
10		2083229673								2848926				75343235										
11		3199403477				15839365			20300247			1486612		99260018							1443860			
12		293899561						206944		3153933		1041674		160995737	36295					3190392				
13		3076811432						223014		951992		288125	20929914	78962858			1948663							
14								511984		12318881		1606405					162549551							
15		845862959									11221302			7796007							2099638			
16		152347366				3115574				16226179				22375484							343866			
17		1419573650				8509996				1729036				114884941				586038			387279			
18		3328527900								3581628				45933703				1171108561		1121559				
19		548354315				3896981				7323719				58454720										
20		504285930				7102145								116678094										
21		1889099755								51293360				175234668							3565574			
22		2237609614								644396				63983214							3976693			
23		234391616								1417771		2022805		3611061							329172			
24		105702949						3777916				7030454		5502443		82882								
25		995882231						144353	1004170				10589445	13236806			353271							
26		1207836485				10984318							3844511	4942943							1501937			
27		1640029808	28465345			22617241		539586	3410282			1536512		54281379			59854913				10823965	1546281		
28		989202773				37957521						515952	14397680	312822326							5369079			
29		96846928						104008				76785		3441303			1590412				156849	156849		
30		929415459							69862					13953807			32111089					414776		
31		700251916				4150777		36532	1701249	3441203	1294582			18447900			159607				9459255			
32		1515945583				4638525		1231167	501276	1810521		2152710	4638525	137996108					6342472	12684945				
33		9103528719								2886052				590385186										
34		356637522		330263		1143666						716016		3430997			151331							
35		63456715								9309408				3743849										
36		1777525833										2084610	28425727	6732409										
37		1096891305	148906458			3540705			752799	2061967		560364		474454411				13977133						
38		127992356	30779032			7519371			3075123	31052404	15702272		19335526	145016442						550799	734399			
39		365089519				14459660			22764	1068874			14459660	130739430	36900		4818197							
40		565132578				2405851			127512	1441408			13232181	147959841			631334		20154	1233612				
41		395576964							71923				6916545	30086970					5116					
42		365600474				7830708				2339728				196327043										
43		429491933				5840752								112531817										
44		162104755											667530	890040										
45		109555487							227226	3852875				76698419					21549	733380				
46		142093287											1209823	58676432										
47		8552666				157018				4803237		360685		3689919			24932191							
48		29276230						249763		8119189			16769390	6449765										
49		114491839				1029526				1292311	4978916	439001	87852861	10638432					18163775					
50		1453712465										1116395	319747646											
51		595605254											400646628						5697626					
52		408131398				2938376						914215		81686846				59896451						
53		442702696				10239434						311373	12799292	105466166										
54		397862494				699816				21562780		539731		19594855						717669				
55	26417677	88791338				1707739		394970	6529	919684				7451952				24651323						
56		26076989								575228														
57		5927611							392300		24680115	393101			97835				42927		595204			
58	33478071	22498293				220291							954592											
59	966706	47074033										1045247	7778062											
60		169808579				3377297		2229357		14534902	64398822	592505		22082326					82502538					
61		117794776				2944799								37914287					58449001					
62					6524956	445481				2953941	14937197			6236737					47157366	59569674	609127			
63	129347755	240897819				4791180				294569				15847749					9753473					
64		7371437								1160394				2526192					41385734					
65		255389847				3061999				11808980			54350481	164582442	68903									
66	23303507	55408727								1716973			7398147	85078696										
67	87987750	244912558				1258974								9172521					9519381					
68	12291196	50585412											1165420	17481305										

	AW	AX
1	STIGEOCL	ULOTtenu
2	63302	
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6	203997	
7		1370600
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10	14359141	
11	33968	
12	78406	
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16	37817	
17	148029	
18	195566	
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20	1401145	
21	6269537	
22	265180	
23		
24	35593	
25	158723	7521164
26		
27	258569	
28		
29	689487	
30	3652505	
31		
32	253176	
33	177902	
34	92952	149059303
35	31104510	
36	234769	243413
37		
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39		
40	258697	
41	368792	
42		
43	36862	
44	54257	
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46	32669	
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48	60070	
49		2132448
50	70859	
51	2103201	
52	158718	
53	359224	
54	1603241	
55	6532	
56	179850	
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58		
59	909058	
60	99548	
61	629710	
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65	42527	
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67		
68	525374	

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	
69		3 SPRG3		379315			48158132			1243627															
70		5 BALL1		1493504			392126			2072569		4079074292													
71		5 BARR1		235066								2889072024								278018					
72		5 BARR2					153291					4218527						90446							
73		5 BARR3		194062						975407		15423984									1005419				
74		5 BARR4					2180781			1183100		9377261							40210						
75		5 BEAT1		1139796			1878499			15885987											241772				
76		5 CANE1		304277			2671040			3652027															
77		5 COVE1		160912			3503355												590594	483106					
78		5 EVAN1		630230			1721781			954434									203180						
79		5 FLIN1		717211			568613			94987		1877768113													
80		5 FLIN2		1585078	275410					5793371		2681852993													
81		5 FLIN3		144081						7175524		884736757												69425	
82		5 GOOS1		1437786						1208464		6127415760												748221	
83		5 ILL1					423669			351300		32062943							687436	68160					
84		5 ILL2		7686849			593140			1197935		4847945397													
85		5 ILL3		388591						2215389		24051737155													
86		5 ILL4								1945415		25364506530													
87		5 ILL5								904972		21402450315													
88		5 ILL6								3019994		11312477929													
89		5 ILL7								13963063		15231896436													
90		5 ILL8								8392885		26599661133													
91		5 LEE1					9897604														1238485				
92		5 LLEE1		407479			1417997												517932	130359					
93		5 LSAL1		2505855			2795040																		
94		5 MTFK1					690992														978275				
95		5 OSAG1		1878547			276204			3279716		1033742706													
96		5 OSAG2								4461701		18494296113													
97		5 SAGE1										16302163433													
98		5 SALI1					23803514					62387236									1458871				
99		5 SPAR1										8834548208													
100		5 SPAV1		706207			874113			20271001		20046118													
101		5 SPAV2		21665			613186			9689048		94016270													
102		5 SPRG1		4644092	120790					7238204		1845555517													
103		5 SPRG2					86272800																		
104		5 SPRG3			102149		59101396			2150055															
105		6 BALL1		461988	12369837							22679179	675342					531629							
106		6 BARR1		1297787								381902405													
107		6 BARR2		1481744			495140			477664															
108		6 BARR3								569708															
109		6 BARR4		280565						2291129															
110		6 BEAT1		50656			146300			605372		18102392													
111		6 CANE1					787050			3196039															
112		6 COVE1					2940095																		
113		6 EVAN1		361226						2951778		25121348	374033					2159216		195814					
114		6 FLIN1		899740						4971668		163650374		429988				225657							
115		6 FLIN2		595474			946850					174954500													
116		6 FLIN3		242763						2272904		181721211													
117		6 GOOS1		1516156								5976980279													
118		6 ILL1					4377786			4222390		60237715													
119		6 ILL2		10556570						510613		1484442833						252154		251539					
120		6 ILL3								1185343		413477541													
121		6 ILL4		2609221						972158		2434461664		402742											
122		6 ILL5		169148						495415		555678551													
123		6 ILL6								20981487													584515		255329
124		6 ILL7								872525															
125		6 ILL8		80916						3503656		76905979													
126		6 LEE1					13426643														129930				
127		6 LLEE1		142909			1733495											372758							
128		6 LSAL1		193432	308151						338275														
129		6 MTFK1					1150616																		
130		6 OSAG1		3223969			2019601					874103538	677058												
131		6 OSAG2		8659696						216815		2108563140													
132		6 SAGE1		5910471						20209467		956034147		469267										724567	
133		6 SALI1					1424111			224895		70544039													
134		6 SPAR1		1135111						8458057		1392869913		156714								520496			
135		6 SPAV1		162507			518739			15384427															
136		6 SPAV2		204799			492899			47935711		40693339									63439				

	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV
69	5407445	204260893				47187659								38125129										
70	1125324	191481507							37545394				26560775	145303064										
71		20772463								2505474			9152648	83899270										
72	20675996	323558044								444497			85682617	51121561										
73	4078539	225290823											92648635	59559837										
74	2067509	94123584						42435		1580898			38350648	5797191										
75	1591604	176665413								2541965			45906429	429125313										
76	895950	1237152116											3303679	154171709										
77	205182	59690602								4172302				5009627										
78	3529406	377208751				17513319								71949624										
79	4895417	17551451				14459300								70173654										
80	3599330	109792950				22325364								184098931										
81		141862774												52890361										
82										3371448				15790597										
83	781615	46881030							147174				61439727											
84		18445897											903059											
85													23858031											
86		53254486											146654355											
87		9289886											6822097											
88		3100140											6829833											
89		107502162											396479396											
90		78976513											10544907											
91	3043301	85652369							356556				29185347											
92	11045432	2251808								391596				2921416				1207817						
93	17904483	350925162											234548446											
94	283287	21641375							64010					4767751										
95	339707	140056985											8702852											
96		20356034											14948605											
97																								
98	218178037	616882304							787509				122960429							3539570				
99		8677833											7647157											
100	21561411	774954447											383611216											
101	11815279	519411670											555107946											
102	169738802	121086278											11317168											
103	1023354283	1239086913												293132679										
104	317007689	765132744											349014495											
105	15293615	173790161							25447	2987173		1041810		19053738						983135				
106	16882765	27020929						1147652		1729132				126201607					1085292					
107		161812362												36008519										
108		532193014												28345179						587238				
109		258712519												14392990										
110		24857487												19166995										
111	1097071	515563265											119089337	83982076										
112	60268	127631701							20427	1864990			3308022	19848132										
113	249495	380928513				181810							48318328	81378236						8019				
114	3441827	189562594						108907	64808	1521537			20702535	55682680					46095					
115	831818	139621570				15643							25764486	52054778					718959					
116	146333	256654531												48465299										
117		7098505								2222088				51607115										
118	448692	86688909				10485283						180543311	24715309	55422208						14422				
119								5902212						38107466										
120		102211204											2144559	4289118										
121		179249442											10845872	34414072										
122	7943793	3814221								590249				1493868										
123		64032794											854963											
124	18654127	143308802				3507996							49988945	50865944										
125	11015641	7052230											207154	310731										
126	6051621	38742569							158978	1463703			10242322	9673304								619373		
127		11470100				678844							7749301	4885429										
128	97634013	34725245											5100148									159108128		
129		12823132											2448358	4708381										
130	107327288	125970331				3784387		771684					33218512	10932675										
131	13906185	44513801								1241243			16344520											
132		3607964						356568		6918870			3709350	9008421										
133	3970145	87727986											27464840	5425154										
134	8096817	44060554						297694		4247919	6231451		11419834	5709917				756946					199256791	
135	779784	431410495											332649981	11314625										
136	484979	363710206								4002056			474483382	59703207									907227	

	AW	AX
69	1033346	
70	159000	75931889
71		37759065
72	47949	481354
73	249986	3593232
74	40266	5706616
75		
76		
77	3989119	
78	2960155	
79		
80	218680	
81		
82		
83	358304	1385809
84		
85		
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89		
90		
91	2121311	
92		
93		833795570
94	1882838	
95		
96		
97	135133	
98		120720999
99		
100	70887	1982377
101	73068	
102	65426	
103	610797	
104		
105	1467120	
106	228598	
107	1307873	
108	3109668	
109	3986541	
110	515253	
111	682034	
112	253758	
113	1681507	
114	2857036	9401042
115	371393	
116	287394	
117		
118	954121	
119		
120	14360331	
121	4854766	
122	437672	
123	18918446	
124	29171973	
125	237685	
126	436242	
127	467484	
128		
129	273267	
130	23397	
131	114056	
132	415737	
133		
134		
135	709143	8318840
136	172452	4055801

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
137	6	SPRG1		1008844						3632810		135693650												
138	6	SPRG2					13083481			2393942														
139	6	SPRG3		648175			20135361			1467821														
140	9	BALL1		260182			6529682		63031080	2483210				111479										
141	9	BARR1		448067			4391965		53197419	3963294		169967282								264969				
142	9	BARR2		39616			5005631		54191707	2674102		30305781								128850				
143	9	BARR3					17303775		32816133	944603			112541				2575		118123					
144	9	BARR4		204424			17997559		18070276	1226063			163875				3749							
145	9	BEAT1		65020			5192207		74878335	7269618			80790							126885				
146	9	CANE1							2415689	273173		1898104227												
147	9	COVE1					41805991		2698592				133132						349339	139395				
148	9	EVAN1					7475017		15113027	976585							3391		155552	310346				
149	9	FLIN1		323991			3742869		12583876	2618357														
150	9	FLIN2		4117579			5499025		48637696	2163368														
151	9	FLIN3		167228					31314448	5311689							396182							
152	9	GOOS1		2786602					64345575	440993		346029473	1060715	454592						79329		727299		
153	9	ILL1					13228015		45808490	159389		34435387							57658					
154	9	ILL2		5713951					36941713	267358		251281355	522047	522047			6745655							
155	9	ILL3		926329			2255122		108980698	9585212		40474118	602621	602621					63251					
156	9	ILL4		435822			542208		62609846	5921536			333248						262333	87231				
157	9	ILL5		345249			1526832		46700398	5210599		162069399	134059						70354	70182				
158	9	ILL6		1645876			280400		34398427	3710338		226351855	574459	114892						120296				
159	9	ILL7		102065			2251005		98800610	3802036		74852660	230583	115291						120715				
160	9	ILL8		1029222			15038128		42696732	1207067		65069972	232519											
161	9	LEE1					165439798		3496165										435612	217275				
162	9	LLEE1					196552276		11963552														247911	
163	9	LSAL1		124167			47192505		8608826			617130								646160				
164	9	MTFK1					103244327		11511791	74388									802442	800485				
165	9	OSAG1					3773684		55344381	7614506		11227104	376112											
166	9	OSAG2		272682			1794844		20763376	7043943		109371512	157591				129804					276597		
167	9	SAGE1		720662			153362		21180581	96189609		358740992	188517	188517			310555							
168	9	SALI1					14597353		9222751	417174		31954604							11482491	106747				
169	9	SPAR1							46515474	5435437		119307448	156739						8847759					
170	9	SPAV1		153281			3328381		18331114	18241818				141080										
171	9	SPAV2		32153			236372		19665876	17978254		9757337												
172	9	SPRG1		1167800			679398		30657678	1629423							4777							
173	9	SPRG2		614361			12577563		12665546	393870														
174	9	SPRG3		101188			32730900		8907195															
175	12	BALL1							4036949	1826038		505029846							388149	774405				
176	12	BARR1										922950							484364					
177	12	BARR2										412498							2236947	3959098				
178	12	BARR3																		3197064				
179	12	BARR4																	391543	4296465				
180	12	BEAT1																	3294187	8341772				
181	12	CANE1																	656778	4367841				
182	12	COVE1		247605			250287							615319					3875035	483198				
183	12	EVAN1					252976							310965					2284722	3744317				
184	12	FLIN1		203322								522091178	2720702						8974896	14853850				
185	12	FLIN2		2585464								249032786		166023										
186	12	FLIN3		789551								3586394444												
187	12	GOOS1		901258					7124280	644507		1999573572												
188	12	ILL1												258439	258439				286683	4289750				
189	12	ILL2		3632571								359485450	195819		195819				406886	8794368				
190	12	ILL3		543576								2873014610	1350834	1350834				3391275	1947790					
191	12	ILL4										8287242900			661013					235730				
192	12	ILL5										6183964599	488021	488021										
193	12	ILL6										8788930644												
194	12	ILL7										798179297		292232										
195	12	ILL8												354640										
196	12	LEE1													821857				5668653	4241120				
197	12	LLEE1		1065546											119818				1823534	1630905				
198	12	LSAL1		117635					125168	133389														
199	12	MTFK1					207532								51021									
200	12	OSAG1										4594369327							267757	828022				
201	12	OSAG2		1903434								2789535900							168278					
202	12	SAGE1		8891943						345987		1546655115		489962					151367	452992				
203	12	SALI1																	43760	363776				
204	12	SPAR1										2810755362							216380	2590229			759298	

	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV
137	1415915480	617651956											14377545	3423225						468074				
138	157282043	319471599				15339646							443045058	13534981										
139	66039389	138623283				3540836							308937953	92946948										
140		226587587						197647		1051929	3102920			70718419					7170					
141	337609	180175254								6765889	3354223			155361115	41219					2918029				
142	615650	223036824												12599135						918794				
143	337812	351852179												30924851										
144		372785443												8978550					3513					
145	592790	206915947												50567055										
146		2243380	155252340							1445827	32493843			329489						901050				
147	1287665	12530520								3454705				1104226										452351
148	9786769	246615479	3465352			2650301				2447291				38871083										
149	12371662	191654977												99893386	35127									
150	1399310	155078209												9508664										
151	6410383	36351019								408483				1898286										
152		3621567								3664037				265952						1454597				
153	6046034	56939504								583153	2621183			4133333					9422					
154		15094944						892512		615765				604641										
155		269885858			4541916			518948		284321				10322536										
156		346220725												76857181										
157		144564327				17835197								148201997	32753									
158		68804220				4691783				2032758				26887524										
159	153808	139684046				4827201				7139399				15889536										
160		106562626				1577234								6794237										
161	6228882	8116967								5140085				834506									17979539	
162	9911011	29627206								2285940				2175696									7682437	
163	101060238	109928028			6751668				325549	727918				39629356										
164	11049277	29017520								6011792				4261846						306706				
165	752645	117784134			2516237					369693				62591401					10752					
166	367917	177673008												25892811						276597				
167		338320346								1890054	273605030			1733359									1120936	
168	36451036	66183317				686149			61464		4053914			4459968	99635				8743	625469				
169		57596752				396531								6080137										
170	6681547	236627632												28253132										
171	2059248	92276845												988228										
172	30429807	7829495			9774402									888582										
173	27329144	82334863							58256					28720029										
174	45707568	50665095			1822349									68489944										
175		11246990								9160087														
176		26082557												10215424									4311947	
177														15368881							399277256			
178														55039348							1240044674			
179		28112288								3520064														
180		18843516												71956956										
181		18413242												71666077										
182		30372657												11789461										
183		105231258												6568575						528325				
184	6092600	3940243									37091592			5787093										
185	498349	32190139												11481833										
186	89644													3520344										
187														4858591										
188	517167													18756466								2322441806		
189	783715									461945				1545277										
190		6478174												10466050										
191														16069609										
192														2887246										
193														26877937										
194		10591840												1555639										
195		20044249												3925238										
196									2003041					416769									398925	
197	359655													1701292										
198	12469573	21908704												6133863										
199		2868924												2949542									303374	
200		78890760												23897782										
201		3658870												6985989										
202		1775845						4777754						1304105						178316				
203	787956	341121												3532120										
204		15123628						261075						2776537						1898245				

	AW	AX
137	184355	
138		
139	129595	
140	147092	
141		
142	143818	
143	248198	
144	781507	
145	90610	
146		
147	62737	
148	93583	
149	56912	
150		
151	60383	
152		
153	16567	
154	405914	
155	294201	
156	215144	
157		
158		
159	241224	
160	25202	
161	707987	
162		
163		17341463
164	571632	
165	132338	
166	647571	
167	21321	
168		1649460
169		
170	29252	
171	206065	
172		
173	127499	
174	51349	
175	104176963	
176	121780	99221148
177	390065	
178	2741747	7327435
179	970365	
180	1224149	59206369
181	2068045	
182	6556045	
183	1321779	
184	1707024	99950439
185	248793	494803
186	35465	343309
187	2571661	
188	1707445	
189	79359	7503478
190	99729	
191	548231	
192	423153	
193	469350	
194	1602958	
195	3242128	
196	1240437	
197	187457	
198	353821	210015721
199	254855	
200		5051267
201		
202		
203		1550234
204	196239	

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
205	12	SPAV1		852755								7536103183							4305066	9304893				
206	12	SPAV2					103936					397580371							67049	3344269				
207	12	SPRG1		456415									687414						360755	14215051				
208	12	SPRG2																	781659	9980836				
209	12	SPRG3						2536714					73103						268551	1837003				

	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV
205		40722499												52333523										
206	127832	47131651												145368208										
207		78537779												69209762										
208		45699492												50339642										
209		117788603												19029766	759115									

	AW	AX
205	1372319	41620341
206	323907	8812067
207	1227716	
208	2425706	3804870
209	141241	3672672

Taxon	ShortName	Kingdom	DivisionPhylum	Family	Nuisance
Ankistrodesmus sp.	ANKistro	Plantae	Chlorophyta	Selenastraceae	0
Audouinella hermanii	AUDOherm	Plantae	Rhodophyta	Acrochaetiaceae	0
Batrachospermum sp.	BATROCHO	Plantae	Rhodophyta	Batrachospermaceae	0
Bulbochaete sp.	BULBOCHA	Plantae	Chlorophyta	Oedogoniaceae	0
Calothrix fusca	CALOfusc	Bacteria	Cyanophycota	Rivulariaceae	0
centric diatoms	diatom	Chromista	Bacillariophyta		0
Chlorococcum sp.	CHLOROCO	Plantae	Chlorophyta	Chlorococcaceae	0
Chroococcus sp.	CHROOCOC	Bacteria	Cyanophycota	Chroococcaceae	0
chrysophyte flagellate	chrysoph	Chromista	Chrysophyta		0
Cladophora glomerata	CLADglom	Plantae	Chlorophyta	Cladophoraceae	1
Closterium acerosum	CLOSacer	Plantae	Charophyta	Desmidiaceae	0
Closterium ehrenbergii	CLOSEhre	Plantae	Charophyta	Desmidiaceae	0
Closterium sp.	CLOSTERI	Plantae	Charophyta	Desmidiaceae	0
Coelastrum sp.	COELASTR	Plantae	Chlorophyta	Scenedesmaceae	0
Coleochaete sp.	COLEOCHA	Plantae	Charophyta	Chlorophyceae	0
Cosmarium cf. botrytis	COSMbotr	Plantae	Charophyta	Desmidiaceae	0
Cosmarium sp.	COSMARIU	Plantae	Charophyta	Desmidiaceae	0
Cosmarium sp. 1	COSMARI1	Plantae	Charophyta	Desmidiaceae	0
Desmodesmus abundans	DESMabun	Plantae	Chlorophyta	Scenedesmaceae	0
Desmodesmus armatus	DESMarma	Plantae	Chlorophyta	Scenedesmaceae	0
Desmodesmus quadricauda	DESMquad	Plantae	Chlorophyta	Scenedesmaceae	0
Euglena sp.	EUGLENA	Protozoa	Euglenophycota	Euglenaceae	0
Gongrosira debaryana	GONGdeba	Plantae	Chlorophyta	Chaetophoraceae	0
green algal flagellates	chloflag	Plantae	Chlorophyta		0
Homoeothrix spp.	HOMOEOTH	Bacteria	Cyanophycota	Rivulariaceae	0
Hydrodictyon reticulatum	HYDRreti	Plantae	Chlorophyta	Hydrodictyaceae	1
Komma sp.	KOMMA	Chromista	Cryptophycophyta	Chroomonadaceae	0
Kylinella latvika	KYLlatv	Plantae	Rhodophyta	Stylonematophyceae	0
Lyngbya sp.	LYNGBYA	Bacteria	Cyanophycota	Oscillatoriaceae	0
Merismopedia sp.	MERISMOP	Bacteria	Cyanophycota	Chroococcaceae	0
Microspora pachyderma	MICRpach	Plantae	Chlorophyta	Microsporaceae	0
Mougeotia sp.	MOUGEOTI	Plantae	Chlorophyta	Zygnemataceae	0
Oedogonium sp. 1	OEDOGON1	Plantae	Chlorophyta	Oedogoniaceae	1
Oedogonium sp. 2	OEDOGON2	Plantae	Chlorophyta	Oedogoniaceae	1
Oedogonium sp. 4	OEDOGON4	Plantae	Chlorophyta	Oedogoniaceae	1
Oscillatoria sp.	OSCILLAT	Bacteria	Cyanophycota	Oscillatoriaceae	0
Oscillatoria sp. 2	OSCILLA2	Bacteria	Cyanophycota	Oscillatoriaceae	0
Pediastrum integrum	PEDIinte	Plantae	Chlorophyta	Hydrodictyaceae	0
pennate diatoms	diatom	Chromista	Bacillariophyta		0
Peridiniopsis sp.	PERIDINI	Chromista	Pyrrophycomphyta	Glenodiniaceae	0
Pseudovella sp.	PSEUDULV	Plantae	Chlorophyta	Chaetophoraceae	0
Rhizoclonium sp.	RHIZOCLO	Plantae	Chlorophyta	Cladophoraceae	1
Scenedesmus bijuga	SCENbiju	Plantae	Chlorophyta	Scenedesmaceae	0
Scenedesmus dimorphus	SCENDimo	Plantae	Chlorophyta	Scenedesmaceae	0
Scenedesmus sp.	SCENEDES	Plantae	Chlorophyta	Scenedesmaceae	0
Schizothrix sp.	SCHIZOTH	Bacteria	Cyanophycota	Oscillatoriaceae	0
Spirogyra sp. 2	SPIROGY2	Plantae	Chlorophyta	Zygnemataceae	1
Spirogyra sp. 3	SPIROGY3	Plantae	Chlorophyta	Zygnemataceae	1
Stigeoclonium sp.	STIGEOCL	Plantae	Chlorophyta	Chaetophoraceae	0
Ulothrix tenuissima	ULOTtenu	Plantae	Chlorophyta	Ulotrichaceae	0

Site ID	odo.min	odo.max	odo.range	ph.min	ph.max	ph.range
BALL1	2.66	9.4	6.74	7.26	7.5	0.24
BARR1	4.2	11.09	6.89	7.39	7.99	0.6
BARR2	4.21	9.35	5.14	7.37	7.66	0.29
BARR4	5.21	11.55	6.34	7.35	8.02	0.67
BEAT1	6.17	9.33	3.16	7.48	7.65	0.17
EVAN1	6.39	9.11	2.72	7.47	8	0.53
FLIN1	5.75	8.49	2.74	7.52	7.69	0.17
FLIN2	5.45	8.34	2.89	7.39	7.63	0.24
FLIN3	3.34	9.19	5.85	7.37	7.95	0.58
GOOS1	5.02	9.7	4.68	7.72	8.47	0.75
ILLI2	4.55	8.28	3.73	7.62	8	0.38
ILLI3	4.68	8.81	4.13	7.6	7.88	0.28
ILLI4	5.98	10.25	4.27	7.67	8.24	0.57
ILLI5	5.86	10.97	5.11	7.7	8.3	0.6
ILLI6	5	10.06	5.06	7.62	8.13	0.51
ILLI7	3.39	10.24	6.85	7.08	7.83	0.75
ILLI8	4.84	9.78	4.94	7.59	8.22	0.63
LSAL1	6.83	8.25	1.42	7.32	7.43	0.11
OSAG1	5.91	11.61	5.7	7.62	8.1	0.48
OSAG2	5.09	10.23	5.14	7.67	8.16	0.49
SALI1	7.66	9.93	2.27	7.76	8.15	0.39
SPAR1	4.69	9.32	4.63	7.69	8.28	0.59
SPAV1	6.24	9.29	3.05	7.44	7.64	0.2
SPAV2	6.41	11.31	4.9	7.53	7.83	0.3
SPRG1	6.03	9.15	3.12	7.49	7.77	0.28
SPRG2	6.06	8.92	2.86	7.25	7.43	0.18
SPRG3	6.2	8.44	2.24	7.32	7.47	0.15

Site ID	odo.min	odo.max	odo.range	ph.max	ph.min	ph.range
BALL1	5.41	11.25	5.84	8.06	7.51	0.55
BARR1	6.09	11.14	5.05	7.96	7.56	0.40
BARR2	7.64	11.60	3.96	7.76	7.47	0.29
BARR3	6.41	10.11	3.70	7.97	7.52	0.45
BARR4	6.32	9.72	3.40	7.71	7.29	0.42
BEAT1	3.82	9.06	5.24	7.62	7.26	0.36
CANE1	6.39	9.14	2.75	7.75	7.49	0.26
EVAN1	5.57	9.93	4.36	7.65	7.39	0.26
FLIN2	5.89	8.49	2.60	7.44	7.14	0.30
FLIN3	6.59	9.42	2.83	8.06	7.66	0.40
GOOS1	6.41	10.45	4.04	8.27	7.73	0.54
ILLI2	6.63	9.43	2.80	7.96	7.71	0.25
ILLI3	6.39	9.57	3.18	8.08	7.74	0.34
ILLI4	7.26	11.24	3.98	8.17	7.70	0.47
ILLI5	6.96	10.56	3.60	8.18	7.70	0.48
ILLI6	6.89	11.41	4.52	8.01	7.42	0.59
ILLI7	6.15	11.02	4.87	8.22	7.63	0.59
ILLI8	6.14	10.37	4.23	8.25	7.72	0.53
OSAG1	5.56	10.79	5.23	8.03	7.58	0.45
OSAG2	6.30	11.04	4.74	8.36	7.74	0.62
SAGE1	3.60	8.31	4.71	7.85	7.52	0.33
SPAR1	6.00	10.25	4.25	8.27	7.68	0.59
SPAV1	6.00	8.88	2.88	7.68	7.44	0.24
SPAV2	6.36	10.10	3.74	7.77	7.43	0.34
SPRG3	6.17	8.22	2.05	7.41	7.26	0.15

Site ID	tn1	tn2	tn3	tn4	tn5	tn6	tn7	tn8	tn9	tn10	tn11	tn12
BALL1	1.37	1.85	2.20	2.59	2.71	3.58	4.13	2.95	2.32	3.83	3.93	2.92
BARR1	0.78	0.38	0.49	1.72	2.08	2.03	3.05	2.41	2.08	3.01	3.07	1.70
BARR2	0.61	0.37	0.23	1.16	1.69	1.69	1.75	1.33	1.09	2.26	1.97	1.21
BARR3	0.85	0.43	0.43	1.41	1.93	1.87	1.92	1.60	1.23	2.43	2.25	1.36
BARR4	0.75	0.29	0.33	1.39	1.75	1.83	1.46	1.25	0.99	2.08	1.86	1.15
BEAT1	2.08	1.92	1.57	2.93	3.16	3.96	3.59	2.86	2.47	3.53	3.82	2.64
CANE1	0.87	0.33	0.50	1.28	1.32	1.23		1.26	1.12		1.38	1.37
COVE1	0.16	0.11	0.25	0.05	0.11	0.14	0.13	0.25	0.12	0.06	0.12	0.08
EVAN1	0.36	0.21		0.73	1.13	0.96	1.64	0.83	0.58	1.71	0.97	0.63
FLIN1	3.46	3.86	3.77	4.09	4.27	4.64	4.90	3.82	4.13	4.19	5.07	4.72
FLIN2	1.60	1.47	0.94	2.30	2.19	2.50	2.81	1.64	0.67	3.23	2.64	2.38
FLIN3	1.73	1.78	4.50	2.77	2.53	2.56	2.37	1.72	0.91	3.18	2.73	2.69
GOOS1	4.22	5.20	5.23	3.94	6.51	4.77	5.00	6.16	6.65	4.39	5.66	4.84
ILLI1	0.21	0.29		0.49	0.69	0.35	0.34	0.36	0.27	0.85	0.47	0.25
ILLI2	2.35	2.26	2.16	2.31	2.68	2.67	4.02	3.29	3.41	2.93	2.83	2.60
ILLI3	2.35	2.33	2.26	3.02	2.86	2.96	3.22	2.71	2.83	3.10	3.71	3.06
ILLI4	2.18	1.93	1.87	2.68	2.88	3.08	3.08	2.51	2.53	3.13	3.62	2.85
ILLI5	1.62	1.71	1.62	2.35	2.61	2.91	2.54	2.26	2.24	3.04	3.31	2.46
ILLI6	1.65	1.55	1.50	2.11	2.65	2.77	2.52	2.06	1.85	3.01	3.03	2.38
ILLI7	1.55	1.05	1.04	1.88	2.29	2.60	2.32	1.81	1.58	2.83	2.86	2.03
ILLI8	1.30	0.80	0.68	1.83	1.97	2.48	1.96	1.55	1.24	2.65	2.52	1.63
LEE1	0.19	0.05	0.10	0.05	0.20	0.12	0.09	0.29	0.14	0.08	0.11	0.06
LLEE1	0.17	0.06	0.13	0.05	0.15	0.15	0.11	0.30	0.14	0.21	0.11	0.08
LSAL1	1.20	0.75	0.90	0.91	0.88	1.06	0.85	0.90	0.68	1.38	0.74	0.60
MTFK1	0.15	0.13	0.29	0.05	0.08	0.08	0.10	0.33	0.16	0.04	0.06	0.08
OSAG1	3.76	3.52	4.91	4.12	3.94	4.19	3.41	2.64	3.42	3.13	5.11	3.65
OSAG2	3.51	3.25	3.51	3.53	3.88	4.41	4.18	3.29	3.49	3.48	5.49	4.31
SAGE1	1.77	2.45	2.81	3.01	3.56	3.11	3.26	2.93	1.68	3.42	4.27	3.65
SALI1	1.01	0.66	0.55	0.78	0.81	1.20	0.74	0.72	0.60	1.13	0.66	0.57
SPAR1	2.97	2.69	2.23	3.21	3.45	3.43	3.41	3.53	3.78	3.37	4.80	4.29
SPAV1	2.70	3.11	2.49	3.47	3.50	3.94	3.58	3.03	3.15	3.41	4.10	3.48
SPAV2	3.10	3.12	3.91	3.16	3.94	4.31	3.77	3.29	3.34	3.74	4.49	3.80
SPRG1	0.96	0.89	0.73	0.83	0.62	1.02	0.97	1.01	0.87	1.38	0.91	0.70
SPRG2	0.77	0.58	0.61	0.72	0.87	0.94	0.65	0.77	0.84	1.25	0.66	0.53
SPRG3	0.54	0.33	0.40	0.51	0.78	0.74	0.47	0.62	0.53	1.15	0.58	0.38

Site ID	tp0	tp1	tp2	tp3	tp4	tp5	tp6	tp7	tp8	tp9	tp10	tp11	tp12
BALL1	0.0738	0.1197	0.0647	0.0670	0.0869	0.0362	0.0875	0.0812	0.1193	0.1002	0.1057	0.0683	0.0574
BARR1	0.0245	0.0446	0.0392	0.0462	0.0301	0.0155	0.0448	0.0316	0.0422	0.0375	0.0471	0.0184	0.0208
BARR2	0.0259	0.0376	0.0344	0.0431	0.0358	0.0209	0.0460	0.0310	0.0444	0.0350	0.0445	0.0311	0.0280
BARR3	0.0269	0.0315	0.0280	0.0450	0.0364	0.0237	0.0485	0.0369	0.0487	0.0360	0.0483	0.0300	0.0288
BARR4	0.0149	0.0206	0.0190	0.0325	0.0267	0.0137	0.0408	0.0256	0.0314	0.0241	0.0341	0.0230	0.0152
BEAT1	0.0458	0.0516	0.0478	0.0543	0.0515	0.0377	0.0467	0.0632	0.0687	0.0552	0.0670	0.0566	0.0516
CANE1	0.0278	0.0313	0.0288	0.0436	0.0376	0.0231	0.0500		0.0402	0.0325		0.0262	0.0269
COVE1	0.0099	0.0073	0.0065	0.0136	0.0116	0.0061	0.0131	0.0077	0.0082	0.0069	0.0062	0.0056	0.0054
EVAN1	0.0073	0.0119	0.0101		0.0094	0.0114	0.0316	0.0190	0.0234	0.0183	0.0225	0.0155	0.0142
FLIN1	0.0455	0.0511	0.0489	0.0512	0.0470	0.0433	0.0372	0.0529	0.0530	0.0539	0.0497	0.0380	0.0386
FLIN2	0.0232	0.0406	0.0405	0.0384	0.0285	0.0185	0.0287	0.0403	0.0421	0.0287	0.0366	0.0294	0.0240
FLIN3	0.0720	0.1287	0.1363	0.1150	0.0843	0.0607	0.0662	0.0773	0.0942	0.0846	0.0833	0.0553	0.0636
GOOS1		0.0696	0.0641	0.0902	0.0505	0.0556	0.0525	0.0534	0.0703	0.0572	0.0505	0.0375	0.0403
ILLI1	0.0071	0.0096	0.0123		0.0138	0.0060	0.0085	0.0127	0.0098	0.0103	0.0144	0.0061	0.0090
ILLI2	0.0330	0.0641	0.0518	0.0659	0.0406	0.0250	0.0550	0.0511	0.0544	0.0469	0.0516	0.0211	0.0373
ILLI3		0.0746	0.0662	0.0775	0.0521	0.0297	0.0307	0.0516	0.0617	0.0593	0.0573	0.0333	0.0357
ILLI4	0.0256	0.0726	0.0613	0.0681	0.0401	0.0221	0.0363	0.0506	0.0621	0.0546	0.0603	0.0324	0.0303
ILLI5	0.0323	0.0705	0.0585	0.0607	0.0281	0.0158	0.0385	0.0848	0.0615	0.0543	0.0626	0.0297	0.0249
ILLI6	0.0277	0.0769	0.0660	0.0730	0.0508	0.0317	0.0470	0.0601	0.0689	0.0579	0.0676	0.0376	0.0328
ILLI7	0.0170	0.0553	0.0549	0.0589	0.0309	0.0164	0.0410	0.0468	0.0667	0.0512	0.0678	0.0332	0.0279
ILLI8	0.0276	0.0496	0.0537	0.0539	0.0270	0.0101	0.0450	0.0427	0.0624	0.0463	0.0652	0.0302	0.0275
LEE1	0.0082	0.0058	0.0056	0.0102	0.0068	0.0058	0.0108	0.0068	0.0078	0.0055	0.0089	0.0046	0.0075
LLEE1	0.0088	0.0087	0.0067	0.0125	0.0061	0.0082	0.0107	0.0075	0.0097	0.0069	0.0079	0.0054	0.0052
LSAL1	0.0086	0.0111	0.0112	0.0243	0.0101	0.0103	0.0067	0.0215	0.0129	0.0117	0.0109	0.0104	0.0113
MTFK1	0.0083	0.0081	0.0082	0.0129	0.0127	0.0068	0.0094	0.0087	0.0094	0.0063	0.0069	0.0058	0.0048
OSAG1	0.0680	0.1107	0.0846	0.0951	0.0549	0.0433	0.0474	0.0619	0.0814	0.0911	0.0560	0.0375	0.0588
OSAG2	0.0539	0.0937	0.0749	0.0999	0.0737	0.0508	0.0444	0.0572	0.0712	0.0732	0.0605	0.0454	0.0588
SAGE1	0.1200	0.2497	0.1847	0.1627	0.0848	0.1353	0.0862	0.1023	0.1337		0.1110	0.0992	0.0869
SALI1	0.0082	0.0107	0.0115	0.0221	0.0083	0.0061	0.0087	0.0128	0.0138	0.0107	0.0114	0.0091	0.0101
SPAR1	0.0854	0.1507	0.1020	0.1547	0.1183	0.0844	0.1120	0.0855	0.1100	0.1283	0.0872	0.0758	0.1023
SPAV1		0.0291	0.0253	0.0321	0.0255	0.0216	0.0220	0.0351	0.0336	0.0264	0.0287	0.0235	0.0213
SPAV2	0.0528	0.0559	0.0543	0.0599	0.0613	0.0477	0.0519	0.0577	0.0634	0.0550	0.0602	0.0536	0.0497
SPRG1	0.0235	0.0366	0.0350	0.0395	0.0348	0.0197	0.0279	0.0416	0.0417	0.0340	0.0410	0.0263	0.0220
SPRG2	0.0158	0.0138	0.0124	0.0253	0.0177	0.0104	0.0121	0.0181	0.0171	0.0167	0.0187	0.0137	0.0119
SPRG3	0.0074	0.0134	0.0113	0.0178	0.0074	0.0081	0.0072	0.0110	0.0112	0.0107	0.0122	0.0089	0.0088

Metadata for SRJS_data_portfolio.pdf

<u>Bookmark name</u>	<u>Data type or analyte</u>	<u>Variable short name</u>	<u>Units</u>	<u>Rows</u>	<u>Columns</u>
Event_dates_by_SiteID.pdf	Dates	Date	dd-Month-yy	Site ID	Event number
Total_phosphorus.pdf	Total phosphorus, surface water	tp	mg/L	Site ID	Short name+event number
Benthic_chlorophyll-a.pdf	Benthic chlorophyll-a	chl-a	mg/m2	Site ID	Short name+event number
Cladophora_biovolume.pdf	Biovolume of <i>Cladophora glomerata</i>	clad	um3/cm2	Site ID	Short name+event number
Nuisance_total_soft_biovolume.pdf	Biovolume of nuisance soft algae and total soft algae	nuis and tot, respectively	um3/cm2	Site ID	Short name+event number
Soft_algae_list.pdf	Taxonomic names of soft algae	ShortName	NA	Taxon name	Short name, Kingdom, Division/Phylum, Family, and Nuisance
Soft_algae_cm2_Crosstab.pdf	Biovolume of soft algae by taxon	NA	um3/cm2	Event and Site ID	ShortNames (Soft_algae_cm2_Crosstab)
Diatom list	Taxonomic names of diatoms	Short name	NA	Taxon name	Short name
Diatom_cm2_Crosstab	Biovolume of diatoms by taxon	NA	um3/cm2	Event and Site ID	Short name
Sondes_48h_2014.pdf	Optical dissolved oxygen and pH	odo, ph	mg/L, SUs	Site ID	Short name + min/max/range
Sondes_48h_2015.pdf	Optical dissolved oxygen and pH	odo, ph	mg/L, SUs	Site ID	Short name + min/max/range
Q_cfs.pdf	Surface water discharge	q_cfs	cubic feet per second	Site ID	Short name + event number
Total_nitrogen.pdf	Total nitrogen, surface water	tn	mg/L	Site ID	Short name + event number
Sestonic_chlorophyll-a.pdf	Sestonic chlorophyll-a (surface water)	chl-a_ugl	ug/L	Site ID	Short name+event number
Pleuroceridae_densities.pdf	Densities of pleurocerid snails	pleuro	no/m2	Site ID	Short name+event number

Collection of these data was funded by the Oklahoma-Arkansas Joint Phosphorus Study Committee

Use of these data for publication in peer-reviewed journals without contacting the third-party Principal Investigator (Ryan_S_King@baylor.edu) may violate intellectual property laws and harm graduate student careers.

Please be courteous and contact Dr. King about the status of publications that involve these data and/or propose collaborative publications if synergistic opportunities arise.