

Richmond Landfill - Historical Results (Surface Water)

Name	Date	1,4-Dioxane mg/L	Alkalinity mg/L	Ammonia (unionized) mg/L	Ammonia mg/L	Biochemical Oxygen Demand mg/L	Boron mg/L	Cadmium mg/L	Calcium mg/L	Chemical Oxygen Demand mg/L	Chloride mg/L	Chromium (III) mg/L	Chromium (Total) mg/L	Chromium (VI) mg/L	Cobalt mg/L	Conductivity µS/cm	Copper mg/L	Dissolved Oxygen mg/L	Field Conductivity µS/cm	Field Temperature °C	Hardness mg/L	Iron mg/L	Lead mg/L	Magnesium mg/L	Naphthalene mg/L	Nickel mg/L	Nitrate mg/L	Nitrite mg/L	Phenols mg/L	Phosphorus (total) mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L	Zinc mg/L	
S2	2016-05-02	< 0.001	220	< 0.0005	< 0.15	< 2	< 0.02	< 0.0001	73	36	17	< 0.005	< 0.005	< 0.0005	< 0.0005	466	< 0.002	7.67	470	9.29	230	0.16	< 0.0005	9.4	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.026	2.1	12	< 1	266	< 1	< 0.01	
S2	2017-05-01	< 0.001	160	0.021	2.26	2	< 0.02	< 0.0001	54	39	11	< 0.005	< 0.005	< 0.0005	< 0.0005	390	0.002			8.4	170	0.7	< 0.0005	8	< 0.00005	0.001	4.92	0.093	< 0.001	0.071	2.5	9.2	< 1	234	< 10	< 0.01	
S2	2017-07-25	< 0.001	170	< 0.0014	< 0.15	< 2	< 0.02	< 0.0001	58	53	11	< 0.005	< 0.005	< 0.0005	< 0.0005	340	< 0.002			17.1	160	0.28	< 0.0005	6.5	< 0.00005	< 0.001	< 0.1	< 0.01	0.003	0.047	2	8.3	< 10	208	< 10	< 0.01	
S2	2017-10-16	< 0.001	200	< 0.0006	< 0.15	< 2	0.022	< 0.0001	67	59	16	< 0.005	< 0.005	< 0.0005	0.0006	420	< 0.002	1.34	330	11.12	210	0.64	< 0.0005	9.5	< 0.00005	0.001	< 0.1	< 0.01	0.0022	0.097	5.2	9.7	16	320	< 10	< 0.01	
S2	2018-05-16	< 0.001	200	< 0.00061	< 0.15	3	< 0.02	< 0.0001	68	44	13	< 0.005	< 0.005	< 0.0005	< 0.0005	410	< 0.002	3.34	390	13.11	180	0.6	< 0.0005	9	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	0.061	1.9	11	< 1	150	< 10	< 0.01	
S2	2018-08-09	< 0.001	98	< 0.0005	< 0.15	2	0.038	0.0002	84	62	9	< 0.005	< 0.005	< 0.0005	0.0005	550	0.008	4.3	540	21.3	250	< 0.1	< 0.0005	12	< 0.00005	0.003	17.3	0.309	< 0.001	0.17	2.8	12	77	425	< 10	0.015	
S2	2018-10-16	< 0.001	290	< 0.00061	< 0.15	< 2	< 0.02	< 0.0001	100	26	16	< 0.005	< 0.005	< 0.0005	0.0024	660	< 0.002		610	7	300	2.2	< 0.0005	15	< 0.00005	0.002	< 0.1	< 0.01	< 0.001	0.14	2.6	14	40	305	17	< 0.01	
S2	2019-05-06	< 0.001	180	0.0033	0.53	< 2	< 0.02	< 0.0001	72	29	19	< 0.005	< 0.005	0.0013	< 0.0005	410	0.003	3.74	330	10.76	200	0.12	< 0.0005	9.5	< 0.00005	0.001	0.18	< 0.01	< 0.001	0.036	2.3	15	< 1	280	< 10	< 0.01	
S2	2019-10-31	< 0.001	110	< 0.00061	0.26	< 2	< 0.02	< 0.0001	49	34	21	< 0.005	< 0.005	0.00093	< 0.0005	360	0.005	2.74	290	11.91	150	0.27	< 0.0005	6.2	< 0.00005	0.001	0.28	< 0.01	< 0.001	0.038	3.6	13	35	215	< 10	< 0.01	
S3	1989-03-27		26		0.24						3.9				85						36	0.16					0.61		0.003	0.087							
S3	1989-04-24		171		0.005						31				460						210	0.04					ND		ND	0.016							
S3	1989-05-12		182		0.012						27				470						230	0.08					ND		ND	0.017							
S3	1990-05-10		217		ND				73		15				432							0.12		10.2			ND		ND	ND	2.8	8.8					
S3	1990-10-01		280		ND				83		142				954							0.19		25			3.2		ND	ND	15.5	75					
S3	1992-07-29		272		0.45	1		ND	93		43		ND		852	ND						0.09	ND	27			ND	0.14		ND	0.26	6	19		14	0.18	
S3	1992-11-27		148		0.02	ND		ND	51		8		ND		321	0.009			5.2			0.68	ND	7			ND	ND		ND	ND	2	5		9	0.03	
S3	1993-04-30				0.02	1		ND			16		ND		452	ND			12.1			0.19	ND							ND	ND			260	9	0.02	
S3	1994-05-01		210		ND	2.1		ND			24.8		ND		270	0.011			19.5		310	0.1	ND				ND	ND	1					1.6	ND		
S3	1994-11-25		200		ND	ND		ND			93.5		0.00045		820	0.0069					700	0.16	ND			0.002	ND		ND					37	ND		
S3	1995-03-28		150	ND	ND	2.8		ND			23.5		ND		420	0.0028					220	0.064	ND				ND	ND		ND	0.14				1.6	0.02	
S3	1995-11-02		155	ND	0.02	1		ND			22		ND		421	ND			10		224	0.44	ND				ND	ND		ND	0.03				6	ND	
S3	1996-04-01		101		ND	ND					10				250						126						ND		ND	0.03					5		
S3	1997-05-01		166		ND	7					15		0.03		371	ND					190	0.12	ND				ND	ND		ND	0.02				5	ND	
S3	1997-11-01		135		0.02	1		ND			17		0.01		392						180	0.16					ND		ND	0.04				236		ND	
S3	1997-12-01		160		0.02		0.01	ND	56	25	18		ND		380	ND					173	0.07	ND	8			ND	ND		ND		2	8	16		ND	
S3	1998-05-12		279		0.05			ND		ND	19		ND		606	ND					302	0.39	ND				ND	ND		ND	0.1				2	ND	
S3	1998-12-23		187		0.07	2		ND			72		ND		710						281	0.1						0.51		ND				440		0.01	
S3	1999-04-07		114		ND	ND		ND			11		ND		287						140	0.03					ND		ND	ND				181		ND	
S3	2000-05-02		212		ND	2		ND			25		ND		501						249	0.09					ND		ND	0.05				300		ND	
S3	2000-11-10		234		0.02	ND		ND			36		ND		583							0.23					ND		ND	0.04				368		ND	
S3	2001-05-24		285		0.06	6		ND	95		38		ND		672						307	0.41		17			ND		ND	0.05				408		ND	
S3	2001-11-30		114		0.17	ND		ND			21		ND		360							0.3					1.01	ND	ND	0.08				234	6	ND	
S3	2002-04-29		133	0.00106	0.09	ND		ND			17		0.003		327				6.5			0.34					ND		ND	0.02				213		ND	
S3	2002-12-20		146	0.00166	0.2	3		ND			44		ND		511				0.7			0.4					0.77		ND	0.07				332		ND	
S3	2003-04-10		120		< 0.02	< 1		< 0.0001			20		< 0.005		322				0			0.23					0.46		< 0.001	0.03				209		< 0.005	
S3	2003-05-15		194		0.04	< 1		< 0.0001			28		< 0.005		477							0.15					< 0.1		< 0.001	0.03				310		< 0.005	
S3	2003-05-29																		5050	16.3																	
S3	2003-10-24		186	< 0.00035	< 0.02	< 1		< 0.0001	88		39		0.002		584						11780	2.5	277	0.11		14			< 0.001	0.03				380		< 0.01	
S3	2004-04-23		202	< 0.00061	< 0.02	< 1		< 0.0001	73		26		0.002		481	0.001	8.3	4.94	8.6	228	0.11	< 0.001	11			< 0.005	< 0.1		< 0.001	0.02				313	< 2	< 0.01	
S3	2004-11-09		225	0.00398	0.2	2		< 0.0001	95		37		< 0.001		595	0.002		0.632	1.7	295	0.17	< 0.001	14			< 0.005	< 0.1		< 0.001	0.04				387	5	< 0.01	
S3	2005-04-25		185	0.00509	0.07	< 1		< 0.0001	80		29		0.002		441	< 0.001		458	6.4	249	0.09	< 0.001	12			< 0.005	0.12		< 0.001	0.02				287	< 2	< 0.01	
S3	2005-10-28							< 0.0001	74				0.001			0.002		544	4.95	242	0.09	< 0.001	14			< 0.005								4	< 0.01		
S3	2006-02-06		130	0.00088	0.02	< 1		< 0.0001	43		18		0.001		319	< 0.001		335	0.4	136	0.09	< 0.001	7			< 0.005	0.12		< 0.001	0.04				207	< 2	< 0.01	
S3	2006-03-14		91	0.00027	0.06	< 1		< 0.0001	28		12		< 0.001		223	0.002		139	2.67	86	0.22	< 0.001	4			< 0.005	0.2		< 0.001	0.07				145	5	< 0.01	
S3	2006-05-01		231		< 0.02	2	0.03	< 0.0001	79	32	34		0.002		546	0.001		560	15.7	247	0.09	< 0.001	12			< 0.005	< 0.1	< 0.1	< 0.001	0.03				355	3	< 0.01	
S3	2006-11-14		167	< 0.00016	< 0.02	< 1		< 0.0001	58		23																										

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S3	2010-05-03		288	< 0.02	< 0.15	< 2	0.023	< 0.0001		49	27		< 0.005		< 0.0005	618	< 0.002	4.53	699	17.4		0.33	< 0.0005			< 0.1	< 0.01	< 0.001	0.041	3.4	17	< 1	400	6	< 0.01			
S3	2010-10-25		250	< 0.02	< 0.15	< 2	0.034	< 0.0001	95	36	35		< 0.005			613	< 0.002			7.24	260	0.12	< 0.0005	15	< 0.0005		< 0.1	< 0.01	< 0.001	0.031	3.9	19	21	392	2	< 0.01		
S3	2011-05-02		201	< 0.02	< 0.15	< 2	< 0.02	< 0.0001	73	30	21		< 0.005		< 0.0005	455	< 0.002			12.38	200	0.12	< 0.0005	9.9	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.034	2.6	13	< 1	272	< 1	0.013		
S3	2011-10-28		150	< 0.02	< 0.15	< 2	0.043	< 0.0001	74	28	40		< 0.005		< 0.0005	588	0.003			4.05	250	0.24	< 0.0005	11	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.057	7.1	21	74	402	1	< 0.01		
S3	2012-04-23		220	< 0.02	< 0.15	< 2	0.022	< 0.0001	78	45	19		< 0.005		< 0.0005	486	< 0.002			6.19	230	0.48	< 0.0005	13	< 0.0025	< 0.001	< 0.1	< 0.01	0.0015	0.09	3.6	13	9	220	11	< 0.01		
S3	2012-10-24		200	< 0.02	< 0.15	< 2	0.055	< 0.0001	95	27	63		< 0.005		0.0005	753	0.003			9.38	310	0.81	< 0.0005	17	< 0.0005	< 0.001	< 0.1	< 0.05	< 0.001	0.058	8.3	41	80	466	76	0.012		
S3	2013-04-25		190		< 0.15	< 2	< 0.02	< 0.0001	67	15	17		< 0.005		< 0.0005	427	< 0.002				200	< 0.1	< 0.0005	10	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.016	1.9	11	13	256	2	< 0.01		
S3	2013-07-09		310		0.16	< 2	0.066	< 0.0001	130	14	82		< 0.005		0.0005	919	< 0.002				380	0.42	< 0.0005	20	< 0.0005	0.001	< 0.1	< 0.01	< 0.001	0.048	9.5	50	49	590	2	< 0.01		
S3	2013-09-23		160		< 0.15	< 2	0.033	< 0.0001	64	33	14		< 0.005		< 0.0005	419	0.004				190	0.47	< 0.0005	10	< 0.0005	0.001	< 0.1	< 0.01	< 0.001	0.11	4.2	10	37	276	5	< 0.01		
S3	2013-10-22		270		< 0.15	< 2	< 0.02	< 0.0001	95	20	24	< 0.005	< 0.005	< 0.0005	< 0.0005	615	< 0.002				260	0.16	< 0.0005	15	< 0.0005	< 0.001	< 0.1	< 0.01	0.0017	0.049	4.6	16	22	374	2	< 0.01		
S3	2014-04-15		130		< 0.15	< 2	< 0.02	< 0.0001	2.7	22	14	< 0.005	< 0.005	< 0.0005	< 0.0005	296	< 0.002				140	< 0.02	< 0.0005	0.6	< 0.0005	< 0.001	< 0.1	< 0.01	0.0011	0.019	< 1	1.5	6	212	1	< 0.01		
S3	2014-05-05		180		1.2	< 2	< 0.02	< 0.0001	71	20	26	< 0.005	< 0.005	< 0.0005	< 0.0005	435	< 0.002				200	0.02	< 0.0005	9.4	< 0.0005	< 0.001	< 0.1	< 0.01	0.001	0.015	3	16	4	244	1	< 0.01		
S3	2014-10-02	< 0.001																																				
S3	2014-10-20		260	< 0.00063	< 0.15	< 2	0.026	< 0.0001	100	21	59	< 0.005	< 0.005	< 0.0005	0.0009	735	0.002			7.64	280	3.5	0.0009	16	< 0.0005	0.002	< 0.1	< 0.01	< 0.001	0.12	11	41	49	460	2	0.01		
S3	2015-04-21		160	< 0.0016	< 0.15	< 2	< 0.02	< 0.0001	60	30	18	< 0.005	< 0.005	< 0.0005	< 0.0005	366	< 0.002	12	370	10.66	170	0.16	< 0.0005	8.5	< 0.0005	< 0.001	< 0.1	< 0.01	0.0046	0.039	2	11	11	210	2	< 0.01		
S3	2015-09-14	< 0.001	150	0.0041	0.59		0.052	< 0.0001	69	26	33	< 0.005	< 0.005	< 0.0005	< 0.0005	530	0.002		560	15.1	210	0.63	< 0.0005	9.4	< 0.0005	0.001	< 0.1	< 0.01	< 0.001	0.11	6	22	58	368	3	< 0.01		
S3	2015-11-23	< 0.001	200	0.0011	0.28		< 0.02	< 0.0001	76	21	24	< 0.005	< 0.005	< 0.0005	< 0.0005	484	< 0.002		430	1.12	230	0.07	< 0.0005	10	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.019	3	13	14	270	< 1	< 0.01		
S3	2016-05-02	< 0.001	230	< 0.00073	< 0.15	< 2	0.027	< 0.0001	72	21	18	< 0.005	< 0.005	< 0.0005	< 0.0005	478	< 0.002	9.65	480	8.53	240	< 0.1	< 0.0005	10	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.015	1.9	12	< 1	244	< 1	< 0.01		
S3	2016-08-15	< 0.001	320	0.0015	0.45	< 2	0.13	< 0.0001	160	17	77	< 0.005	< 0.005	< 0.0005	< 0.0005	1100	< 0.002	4.62	1000	13.49	490	0.92	< 0.0005	30	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.099	12	56	160	1020	< 10	< 0.01		
S3	2016-10-18	< 0.001	130	0.0011	0.27	< 2	0.051	< 0.0001	88	34	34	< 0.005	< 0.005	< 0.0005	0.0005	660	0.003	9.58	730	13.65	270	0.41	< 0.0005	12	< 0.0005	0.001	1.95	0.015	< 0.001	0.086	4.7	21	160	454	13	< 0.01		
S3	2017-05-01	< 0.001	170	0.0022	0.31	2	0.02	< 0.0001	57	24	18	< 0.005	< 0.005	< 0.0005	< 0.0005	380	< 0.002			8.3	170	0.86	< 0.0005	8.6	< 0.0005	0.002	< 0.1	0.023	< 0.001	< 0.03	2.3	12	< 1	236	11	< 0.01		
S3	2017-07-25	< 0.001	170	< 0.0019	< 0.15	< 2	0.024	< 0.0001	54	38	10	< 0.005	< 0.005	< 0.0005	< 0.0005	340	< 0.002			17.1	160	0.26	< 0.0005	7.4	< 0.0005	< 0.001	< 0.1	< 0.01	0.0022	0.048	2	8.8	< 1	192	< 10	< 0.01		
S3	2017-10-16	< 0.001	250	< 0.00093	< 0.15	< 2	0.049	< 0.0001	76	24	19	< 0.005	< 0.005	< 0.0005	< 0.0005	500	< 0.002	6.52	380	11.76	260	0.1	< 0.0005	11	< 0.0005	0.001	< 0.1	< 0.01	< 0.001	0.039	3.3	15	3.6	310	62	< 0.01		
S3	2018-05-16	< 0.001	230	< 0.00062	< 0.15	< 2	< 0.02	< 0.0001	76	31	17	< 0.005	< 0.005	< 0.0005	< 0.0005	480	< 0.002	2.54	460	12.98	210	0.12	< 0.0005	11	< 0.0005	0.001	0.24	< 0.01	< 0.001	< 0.03	2.3	14	< 1	195	< 10	< 0.01		
S3	2018-08-09	< 0.001	320	< 0.0005	< 0.15	< 2	0.09	< 0.0001	130	18	91	< 0.005	< 0.005	< 0.0005	0.0006	960	< 0.002	4.28	870	18.3	340	2.2	< 0.0005	19	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.13	12	64	52	570	34	< 0.01		
S3	2018-10-16	< 0.001	310	< 0.00061	< 0.15	< 2	0.05	< 0.0001	110	9.8	100	< 0.005	< 0.005	< 0.0005	< 0.0005	980	< 0.002		970	8.1	340	1.2	< 0.0005	19	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	< 0.03	13	59	51	520	60	< 0.01		
S3	2019-05-06	< 0.001	170	< 0.00061	0.7	2	< 0.02	< 0.0001	61	23	16	< 0.005	< 0.005	0.0013	< 0.0005	400	< 0.002	4.61	390	11.67	180	< 0.1	< 0.0005	8.2	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	< 0.03	2	11	< 1	255	< 10	< 0.01		
S3	2019-10-31	< 0.001	97	0.14	1.9	< 2	0.022	< 0.0001	45	25	17	< 0.005	< 0.005	0.00089	< 0.0005	340	0.004	4.62	270	11.45	140	0.26	< 0.0005	6.4	< 0.0005	0.001	< 0.1	< 0.01	< 0.001	0.058	3.8	11	39	190	< 10	< 0.01		
S4R	2011-05-02		321	< 0.02	< 0.15	< 2	< 0.02	< 0.0001	110	22	8		< 0.005		< 0.0005	661	< 0.002			11.97	310	< 0.1	< 0.0005	20	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.019	3.1	19	29	388	< 1	< 0.01		
S4R	2012-04-23		150	< 0.02	0.28	10	< 0.02	< 0.0001	60	81	4		< 0.005		0.0015	470	0.008			6.06	200	1.5	0.0007	17	< 0.0025	0.002	0.79	0.026	0.003	0.33	5.5	21	86	274	17	< 0.01		
S4R	2013-04-25		240		< 0.15	3	< 0.02	< 0.0001	80	20	5		< 0.005		< 0.0005	483	< 0.002				240	0.27	< 0.0005	13	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.049	2.9	9.3	14	294	47	< 0.01		
S4R	2015-04-21		200	< 0.0029	< 0.15	< 2	0.026	< 0.0001	68	14	4	< 0.005	< 0.005	< 0.0005	< 0.0005	408	< 0.002	7.2	210	12.88	200	0.07	< 0.0005	11	< 0.0005	< 0.001	0.12	0.036	0.0049	0.039	4	5.1	12	230	< 1	< 0.01		
S4R	2017-05-01	< 0.001	210	< 0.0015	< 0.15	< 2	< 0.02	< 0.0001	70	25	< 1	< 0.005	< 0.005	< 0.0005	< 0.0005	380	< 0.002			8.2	200	< 0.1	< 0.0005	6.8	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.063	0.68	2.4	< 1	222	17	< 0.01		
S4R	2018-05-16	< 0.001	340	0.0063	0.41	< 2	< 0.02	< 0.0001	110	29	1.3	< 0.005	< 0.0																									

Richmond Landfill - Historical Results (Surface Water)

Name	Date	1,4-Dioxane mg/L	Alkalinity mg/L	Ammonia (unionized) mg/L	Ammonia mg/L	Biochemical Oxygen Demand mg/L	Boron mg/L	Cadmium mg/L	Calcium mg/L	Chemical Oxygen Demand mg/L	Chloride mg/L	Chromium (III) mg/L	Chromium (Total) mg/L	Chromium (VI) mg/L	Cobalt mg/L	Conductivity µS/cm	Copper mg/L	Dissolved Oxygen mg/L	Field Conductivity µS/cm	Field Temperature °C	Hardness mg/L	Iron mg/L	Lead mg/L	Magnesium mg/L	Naphthalene mg/L	Nickel mg/L	Nitrate mg/L	Nitrite mg/L	Phenols mg/L	Phosphorus (total) mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L	Zinc mg/L		
S5	2003-11-18		212		0.04	<1		<0.0001	74		8		0.001			452					230	0.03		11			<0.1		<0.001	0.02				294		<0.01		
S5	2004-04-23		225	0.00059	0.03	<1		<0.0001	75		3		0.002			426	0.001	12.9	4.38	8.4	237	0.07	<0.001	12		<0.005	<0.1		<0.001	0.02				277	<2	<0.01		
S5	2005-01-13		49	0.02467	0.34	5		<0.0001	15		4		<0.005			120	<0.001		125.4	0.2	50	0.1	<0.001	3		<0.005	0.6		0.002	0.08			78	5	<0.01			
S5	2005-04-25		216	0.00281	0.05	<1		<0.0001	84		2		0.001			407	<0.001		410	8.7	263	0.04	<0.001	13		<0.005	<0.1		<0.001	0.03			265	2	<0.01			
S5	2005-09-27		99		0.07	6		<0.0001	43		6		0.002			270	0.004				126	0.14	<0.001	4		<0.005	0.3		<0.001	0.28			176	9	<0.01			
S5	2006-02-06		142	<0.00079	<0.02	<1		<0.0001	45		1		<0.001			277	<0.001		286	0.5	141	0.05	<0.001	7		<0.005	<0.1		<0.001	0.03			180	2	<0.01			
S5	2006-03-14		105	0.00023	0.03	<1		<0.0001	32		2		<0.001			210	0.001		125	3.42	100	0.03	<0.001	5		<0.005	<0.1		<0.001	0.05			137	3	<0.01			
S5	2006-05-01		256	0.00092	0.05	1	0.01	<0.0001	74	23	3		0.002			476	0.001		492	20.5	242	0.08	<0.001	14		<0.005	<0.1	<0.1	<0.001	0.1			309	12	<0.01			
S5	2006-11-14		210	<0.00016	<0.02	<1		<0.0001	65		3		<0.001			422	0.001		424	7.27	203	0.07	<0.001	10		<0.005	<0.1		<0.001	0.05			274	5	<0.01			
S5	2007-04-17		160	<0.00017	<0.02	<1		<0.0001	50		1		<0.001			311	<0.001		304	3.85	158	<0.03	<0.001	8		<0.005	<0.1		<0.001	0.03			202	<2	<0.01			
S5	2008-05-15		241	<0.02	<0.15	<2		<0.0001	82		2		<0.005			446	<0.002		458	13.8	230	0.56	0.0005	13		<0.001	<0.1		<0.001	0.12			310	10	0.015			
S5	2008-11-17		216	<0.02	<0.15	<2		<0.0001	75		3		<0.005			442	<0.002		468	4	210	<0.1	<0.0005	13		<0.001	<0.1	<0.01	<0.001	0.03			290	1	<0.01			
S5	2009-03-11		83	<0.02	0.25			<0.0001	26		3		<0.005			172	<0.002			2.32	81	<0.1	<0.0005	3.6		<0.001	<0.1	<0.01	<0.001	0.09			110	2	<0.01			
S5	2009-06-02		253	<0.02	<0.15	<2		<0.0001	76		<1		<0.005			462	<0.002			12.5	240	<0.1	<0.0005	14		<0.001	<0.1	<0.01	0.001	0.037			300	2	<0.01			
S5	2009-11-24		215	<0.02	<0.15	<2		<0.0001	69		3		<0.005			428	<0.002			4.23	220	<0.1	<0.0005	14		<0.001	<0.1	<0.01	<0.001	0.02			285	1	<0.01			
S5	2010-10-25		276	<0.02	<0.15	<2	<0.02	0.0002	99	32	32		<0.005			616	0.004			8.03	310	0.19	<0.0005	20	<0.0005		<0.1	<0.01	<0.001	0.11	5.2	8.2	13	392	18	<0.01		
S5	2011-05-02		237	<0.02	<0.15	<2	<0.02	<0.0001	81	22	4		<0.005	<0.0005		462	<0.002			11.77	240	<0.1	<0.0005	13	<0.0005	<0.001	<0.1	<0.01	<0.001	0.031	1.9	4.3	<1	270	<1	<0.01		
S5	2012-04-23		240	<0.02	<0.15	<2	<0.02	<0.0001	76	35	7		<0.005	<0.0005		479	<0.002			5.59	240	0.37	<0.0005	16	<0.0025	<0.001	0.11	<0.01	0.0015	0.098	4.2	6.8	16	250	3	<0.01		
S5	2013-04-25		200		<0.15	<2	<0.02	<0.0001	68	23	4		<0.005	<0.0005		406	<0.002				210	0.47	<0.0005	12	<0.0005	<0.001	<0.1	<0.01	<0.001	0.089	2.1	5	10	206	7	<0.01		
S5	2013-09-23		130		<0.15	<2	<0.02	<0.0001	52	40	4		<0.005	<0.0005		327	0.003				160	0.21	<0.0005	9.6	<0.0005	<0.001	<0.1	<0.01	<0.001	0.1	2.9	5.3	36	234	4	<0.01		
S5	2014-05-05		240		0.64	2	<0.02	<0.0001	79	32	3	<0.005	<0.005	<0.0005	<0.0005	460	<0.002				250	0.37	<0.0005	14	<0.0005	<0.001	<0.1	<0.01	<0.001	0.13	2	5	8	252	18	<0.01		
S5	2015-04-21		190	0.0046	0.23	<2	<0.02	<0.0001	63	17	3	<0.005	<0.005	<0.0005	<0.0005	376	<0.002	8.4	290	13.26	190	0.15	<0.0005	11	<0.0005	<0.001	0.22	0.083	0.0045	0.055	2	4	13	210	2	<0.01		
S5	2015-11-23	<0.001	290	<0.00067	<0.15		<0.02	<0.0001	91	14	2.9	<0.005	<0.005	<0.0005	<0.0005	562	<0.002		500	1.49	290	0.05	<0.0005	17	<0.0005	<0.001	<0.1	<0.01	<0.001	0.034	2	6	15	316	1	<0.01		
S5	2016-05-02	<0.001	280	<0.00078	<0.15	<2	<0.02	<0.0001	83	15	2.2	<0.005	<0.005	<0.0005	<0.0005	524	<0.002	10.52	480	8.3	290	<0.1	<0.0005	16	<0.0005	<0.001	<0.1	<0.01	<0.001	0.019	1.7	5.2	3.1	286	<1	<0.01		
S5	2017-05-01	<0.001	160	<0.002	<0.15	<2	<0.02	<0.0001	52	29	2.4	<0.005	<0.005	<0.0005	<0.0005	320	<0.002			10.4	160	0.13	<0.0005	8.3	<0.00005	<0.001	0.22	0.015	<0.001	0.036	1.7	3.1	<1	188	<10	<0.01		
S5	2017-07-25	<0.001	170	<0.0018	<0.15	<2	<0.02	<0.0001	50	28	1.1	<0.005	<0.005	<0.0005	<0.0005	310	<0.002			18.7	160	0.2	<0.0005	9.7	<0.00005	<0.001	<0.1	<0.01	0.0016	0.046	1.6	2.7	<1	160	<10	<0.01		
S5	2017-10-16	<0.001	200	<0.0011	<0.15	<2	<0.02	<0.0001	63	29	2.7	<0.005	<0.005	<0.0005	<0.0005	360	<0.002	4.63	290	11.04	230	0.4	<0.0005	12	<0.00005	0.001	<0.1	<0.01	<0.001	0.07	2.1	4.5	23	255	16	<0.01		
S5	2018-05-16	<0.001	310	0.0015	0.17	<2	<0.02	<0.0001	93	24	2.1	<0.005	<0.005	<0.0005	<0.0005	550	<0.002	3.58	490	14.69	290	0.58	<0.0005	18	<0.00005	0.001	<0.1	<0.01	<0.001	0.044	1.9	5.7	<5	220	<10	<0.01		
S5	2019-05-06	<0.001	210	0.17	9.2	<2	<0.02	<0.0001	72	15	2.1	<0.005	<0.005	<0.0005	<0.0005	400	<0.002	3.1	400	14.19	210	<0.1	<0.0005	11	<0.00005	<0.001	<0.1	<0.01	<0.001	<0.03	2	3.4	<1	245	<10	<0.01		
S5	2019-10-31	<0.001	94	0.003	0.51	<2	<0.02	<0.0001	33	32	3.1	<0.005	<0.005	<0.0005	<0.0005	240	0.004	2.68	230	11.12	110	0.15	<0.0005	5.7	<0.00005	0.001	<0.1	<0.01	<0.001	0.078	3.2	2.7	21	145	11	<0.01		
S6	1993-04-30				0.04	ND		ND			15		ND			458	ND					0.26	ND			ND			ND	ND				270	9	ND		
S6	1994-05-01		200		ND	4.7		ND			24.7		ND			540	0.0096				22	300	0.15	ND		ND	ND		ND						1.6	ND		
S6	1994-11-25		165		ND	ND		ND			55.7		0.00068			610	0.0073					250	0.39	ND		0.0016	ND		0.011						240	ND		
S6	1995-03-28		150	ND	ND	3.3		ND			23.8		ND			400	0.0029					220	ND	ND		ND	ND		ND	0.14						2.8	ND	
S6	1995-11-02		136	ND	ND	1		ND			17		0.01			371	0.005				7.5	194	0.68	ND		0.01	ND		ND	0.17						11	ND	
S6	1996-04-01		107		ND	ND					9					243											ND		ND	0.02							10	
S6	1996-04-30																																					
S6	1997-05-01		158		0.03	0.02					14		ND			357	ND						0.19	ND			ND	ND		0.036	0.02						ND	ND
S6	1997-11-01		127		0.02	ND		ND			16		ND			371							0.16	ND			ND	ND		ND	0.03					224		ND
S6	1997-12-01		153		0.03		ND	ND	54	28	16		ND		ND	373	ND					168	0.09	ND	8		ND	ND		ND		2	7	15			ND	
S6	1998-05-12		271		0.08			ND		8	12		ND			563	ND						286	1.83	ND			ND	ND		ND	0.26						

Richmond Landfill - Historical Results (Surface Water)

Name	Date	1,4-Dioxane mg/L	Alkalinity mg/L	Ammonia (unionized) mg/L	Ammonia mg/L	Biochemical Oxygen Demand mg/L	Boron mg/L	Cadmium mg/L	Calcium mg/L	Chemical Oxygen Demand mg/L	Chloride mg/L	Chromium (III) mg/L	Chromium (Total) mg/L	Chromium (VI) mg/L	Cobalt mg/L	Conductivity µS/cm	Copper mg/L	Dissolved Oxygen mg/L	Field Conductivity µS/cm	Field Temperature °C	Hardness mg/L	Iron mg/L	Lead mg/L	Magnesium mg/L	Naphthalene mg/L	Nickel mg/L	Nitrate mg/L	Nitrite mg/L	Phenols mg/L	Phosphorus (total) mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L	Zinc mg/L	
S6	2004-04-23		197		0.03	< 1		< 0.0001	69		22		0.002		448	0.001	10.6	4.66	9.7	213	0.14	< 0.001	10		< 0.005	< 0.1		< 0.001	0.02					291	< 2	< 0.01	
S6	2004-11-09		205		< 0.02	< 1		< 0.0001	88		29		0.001		531	0.002		0.565	0.7	269	0.31	< 0.001	12		< 0.005	0.15		< 0.001	0.07					345	16	< 0.01	
S6	2005-04-25		182	0.00274	0.04	< 1		< 0.0001	75		26		< 0.001		430	0.002		445	7.5	233	0.11	< 0.001	11		< 0.005	< 0.1		< 0.001	0.02					280	2	< 0.01	
S6	2005-10-28							< 0.0001	64				0.001			0.002		424	4.56	209	0.08	< 0.001	12		< 0.005										< 2	< 0.01	
S6	2006-05-01		220	0.00079	0.06	1		< 0.0001	75		29		< 0.001		488	0.001		505	18.9	228	0.07	< 0.001	10		< 0.005	< 0.1		< 0.001	0.07					317	4	< 0.01	
S6	2006-11-14		160	< 0.00012	< 0.02	< 1		< 0.0001	61		19		0.001		391	0.001		396	7.16	185	0.24	< 0.001	8		< 0.005	0.52		< 0.001	0.04					254	< 2	< 0.01	
S6	2007-04-17		134	0.00119	0.11	< 1		< 0.0001	48		17		< 0.001		332	0.001		293	5.11	149	0.14	< 0.001	7		< 0.005	0.18		< 0.001	0.04					216	< 2	< 0.01	
S6	2008-05-15		205	< 0.02	< 0.15	< 2		< 0.0001	74		19		< 0.005		441	< 0.002		447	16.4	210	0.3	< 0.0005	9.9		< 0.001	< 0.1		< 0.001	< 0.06					300	3	< 0.01	
S6	2008-11-17		171	< 0.02	< 0.15	< 2		< 0.0001	66		24		< 0.005		432	0.003		455	3.9	180	0.25	< 0.0005	10		< 0.001	< 0.1	< 0.01	< 0.001	< 0.03					280	2	< 0.01	
S6	2009-06-02		222	< 0.02	< 0.15	< 2		< 0.0001	75		21		< 0.005		483	< 0.002			12.2	220	0.29	< 0.0005	11		< 0.001	< 0.1	< 0.01	0.001	0.036					310	2	< 0.01	
S6	2009-11-24		174	< 0.02	< 0.15	< 2		< 0.0001	61		27		< 0.005		443	< 0.002			3.91	200	0.12	< 0.0005	9.2		< 0.001	< 0.1	< 0.01	< 0.001	0.016					295	3	< 0.01	
S6	2011-10-28		152	< 0.02	< 0.15	< 2	0.024	< 0.0001	69	28	24		< 0.005		< 0.0005	499	0.003			3.07	230	0.12	< 0.0005	11	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.066	5.1	11	57	344	2	< 0.01	
S6	2012-04-23		230	< 0.02	< 0.15	< 2	< 0.02	< 0.0001	75	41	16		< 0.005		< 0.0005	478	< 0.002			6.42	230	0.49	< 0.0005	12	< 0.0025	< 0.001	< 0.1	< 0.01	0.002	0.08	2.8	10	12	220	4	< 0.01	
S6	2012-10-24		130	< 0.02	< 0.15	2	0.044	< 0.0001	65	34	37		< 0.005		< 0.0005	500	0.004			9.2	200	< 0.1	< 0.0005	11	< 0.0005	0.001	< 0.1	< 0.01	< 0.001	0.079	5.3	19	49	324	31	< 0.01	
S6	2013-04-25		180		< 0.15	< 2	< 0.02	< 0.0001	62	18	16		< 0.005		< 0.0005	421	< 0.002				200	< 0.1	< 0.0005	9.3	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.017	1.7	9.9	12	238	< 1	< 0.01	
S6	2013-09-23		160		< 0.15	< 2	0.026	< 0.0001	65	36	11		< 0.005		0.0005	401	0.005				190	1.6	0.0007	11	< 0.0005	0.002	0.14	0.016	< 0.001	0.11	4.8	8.9	35	280	10	< 0.01	
S6	2013-10-22		280		< 0.15	< 2	< 0.02	< 0.0001	99	29	20	< 0.005	< 0.005	< 0.0005	0.0009	620	< 0.002				270	1.2	0.0006	16	< 0.0005	< 0.001	< 0.1	< 0.01	0.0019	0.14	4.1	14	22	370	20	< 0.01	
S6	2014-05-05		180		1.26	< 2	< 0.02	< 0.0001	69	23	26	< 0.005	< 0.005	< 0.0005	< 0.0005	431	< 0.002				200	0.05	< 0.0005	9.1	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.016	3	16	2	234	2	< 0.01	
S6	2014-10-20		340	< 0.0006	< 0.15	2	0.041	0.0002	120	60	26	< 0.005	< 0.005	< 0.0005	0.013	714	0.013			7.11	320	1.8	0.0072	24	< 0.0005	0.012	0.22	< 0.01	< 0.001	0.57	9	23	11	406	40	0.071	
S6	2015-04-21		150	< 0.0016	< 0.15	< 2	< 0.02	< 0.0001	57	24	20	< 0.005	< 0.005	< 0.0005	< 0.0005	369	< 0.002	10	270	10.88	160	0.17	< 0.0005	7.8	< 0.0005	< 0.001	< 0.1	< 0.01	0.0053	0.033	2	11	9	210	2	< 0.01	
S6	2015-09-14	< 0.001	170	0.006	0.35		0.029	< 0.0001	72	31	19	< 0.005	< 0.005	< 0.0005	< 0.0005	516	0.002		550	16.1	230	0.18	< 0.0005	11	< 0.0005	< 0.001	0.21	< 0.01	< 0.001	0.11	5	15	61	368	3	< 0.01	
S6	2015-11-23	< 0.001	210	0.0009	0.16		< 0.02	< 0.0001	75	27	24	< 0.005	< 0.005	< 0.0005	< 0.0005	487	< 0.002		430	1.49	230	0.17	< 0.0005	9.7	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.021	3	13	13	284	2	< 0.01	
S6	2016-05-02	< 0.001	220	< 0.00063	< 0.15	< 2	< 0.02	< 0.0001	74	26	16	< 0.005	< 0.005	< 0.0005	< 0.0005	467	< 0.002	9.17	460	8.76	240	< 0.1	< 0.0005	10	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.018	1.8	11	< 1	256	2	< 0.01	
S6	2017-05-01	< 0.001	170	< 0.0017	< 0.15	2	< 0.02	< 0.0001	59	35	17	< 0.005	< 0.005	< 0.0005	< 0.0005	370	< 0.002			9.4	180	0.47	< 0.0005	8.6	< 0.00005	0.001	< 0.1	< 0.01	< 0.001	0.033	2.1	11	< 1	230	< 10	< 0.01	
S6	2017-07-25	< 0.001	160	0.0021	0.18	< 2	< 0.02	< 0.0001	53	39	8.9	< 0.005	< 0.005	< 0.0005	< 0.0005	320	< 0.002			17.3	150	0.33	< 0.0005	7	< 0.00005	< 0.001	< 0.1	< 0.01	0.0028	0.046	2	7.9	< 1	184	< 10	< 0.01	
S6	2017-10-16	< 0.001	250	< 0.001	< 0.15	< 2	0.047	< 0.0001	77	27	18	< 0.005	< 0.005	< 0.0005	< 0.0005	500	< 0.002	4.9	380	11.01	250	0.46	< 0.0005	12	< 0.00005	0.001	< 0.1	< 0.01	< 0.001	0.046	3.1	15	< 1	310	< 10	< 0.01	
S6	2018-05-16	< 0.001	220	0.002	0.34	2	< 0.02	< 0.0001	79	34	15	< 0.005	< 0.005	< 0.0005	< 0.0005	440	< 0.002	6.75	440	13.23	220	0.27	< 0.0005	11	< 0.00005	< 0.001	0.2	0.024	< 0.001	0.03	2.4	13	< 1	165	< 10	< 0.01	
S6	2019-05-06	< 0.001	170	0.0036	0.45	< 2	< 0.02	< 0.0001	63	20	15	< 0.005	< 0.005	0.0011	< 0.0005	380	0.002	6.08	380	10.86	180	0.15	< 0.0005	8.3	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	< 0.03	2	12	< 1	215	< 10	< 0.01	
S6	2019-10-31	< 0.001	97	0.082	15	< 2	0.021	< 0.0001	46	26	15	< 0.005	< 0.005	0.00094	0.0005	330	0.005	3.59	260	11.1	140	0.81	< 0.0005	6.6	< 0.00005	0.002	< 0.1	0.02	< 0.001	0.091	3.3	10	39	195	19	< 0.01	
S7	1994-05-01		200		ND	ND		ND			24.7		ND		550	0.0088				21.8	310	0.12	ND		0.025	ND		ND						1.6	ND		
S7	1994-11-25		160		0.0005	2.6		ND			62.3		0.00236		750	0.013					300	0.66	ND		0.0025	ND		0.0022						38	ND		
S7	1995-03-28		150	ND	ND	2.3		ND			24.3		ND		410	0.0069					210	ND	ND		ND	ND		ND	0.11						1.6	ND	
S7	1995-11-02		149		0.05	ND		ND			52		ND		495	0.005				9.5	230	0.46	0.002		ND	ND		ND	0.12						11	0.01	
S7	1996-04-01		110		0.03	ND		ND			11		0.05		254	ND					121	0.05	ND		0.01	ND		ND	0.01						ND	ND	
S7	1997-05-01		166		ND	7					17		0.02		374	ND					193	0.16	ND		ND	ND		ND	0.01						2	ND	
S7	1997-11-01		134		ND	ND		ND			22		ND		397						190	0.16				ND		ND	0.04						228		ND
S7	1997-12-01		148		ND		0.01	ND	54	28	18		ND		367	ND					168	0.09	ND	8		ND	ND		ND								ND
S7	1998-05-12		270		0.07			ND		ND	14		ND		572	ND					293	1.22	ND		ND	ND		ND	0.16							10	ND
S7	1998-12-23		176		0.22	2		ND			71		ND		685																						

Richmond Landfill - Historical Results (Surface Water)

Name	Date	1,4-Dioxane mg/L	Alkalinity mg/L	Ammonia (unionized) mg/L	Ammonia mg/L	Biochemical Oxygen Demand mg/L	Boron mg/L	Cadmium mg/L	Calcium mg/L	Chemical Oxygen Demand mg/L	Chloride mg/L	Chromium (III) mg/L	Chromium (Total) mg/L	Chromium (VI) mg/L	Cobalt mg/L	Conductivity µS/cm	Copper mg/L	Dissolved Oxygen mg/L	Field Conductivity µS/cm	Field Temperature °C	Hardness mg/L	Iron mg/L	Lead mg/L	Magnesium mg/L	Naphthalene mg/L	Nickel mg/L	Nitrate mg/L	Nitrite mg/L	Phenols mg/L	Phosphorus (total) mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L	Zinc mg/L
S7	2005-10-28							< 0.0001	70				0.002			0.002		506	4.89	232	0.07	< 0.001	14		< 0.005										< 2	< 0.01
S7	2006-05-01		223	< 0.00039	< 0.02	1		< 0.0001	78		38		0.001			539	0.001		559	18.9	240	0.07	< 0.001	11		< 0.005	< 0.1		< 0.001	0.03				350	6	< 0.01
S7	2006-11-14		162	< 0.00013	< 0.02	< 1		< 0.0001	62		24		0.002			415	0.002		420	7.06	192	0.3	< 0.001	9		< 0.005	0.47		< 0.001	0.07				270	2	< 0.01
S7	2007-04-17		134	0.0001	0.08	< 1		< 0.0001	48		18		< 0.001			335	0.001		331	4.85	149	0.15	< 0.001	7		< 0.005	0.15		< 0.001	0.06				218	< 2	< 0.01
S7	2007-11-07		67		< 0.02	< 1		< 0.0001	53		13		0.002			340	0.004				157	0.23	< 0.001	6		< 0.005	9.49		< 0.001	0.05				221	19	< 0.01
S7	2008-05-15		208	< 0.02	< 0.15	2		< 0.0001	74		21		< 0.005			450	< 0.002		453	18.11	210	0.28	< 0.0005	11		< 0.001	< 0.1		< 0.001	0.06				300	1	< 0.01
S7	2008-11-17		177	< 0.02	< 0.15	< 2		< 0.0001	67		24		< 0.005			440	0.003		226	3.4	170	0.23	< 0.0005	9.9		< 0.001	< 0.1	< 0.01	< 0.001	< 0.03				278	1	< 0.01
S7	2009-06-02		225	< 0.02	< 0.15	< 2		< 0.0001	76		21		< 0.005			488	< 0.002			12.1	220	0.19	< 0.0005	11		< 0.001	< 0.1	< 0.01	< 0.001	0.032				300	1	< 0.01
S7	2009-11-24		175	< 0.02	< 0.15	< 2		< 0.0001	66		27		< 0.005			444	0.002			3.92	200	< 0.1	< 0.0005	10		< 0.001	< 0.1	< 0.01	< 0.001	0.018				295	< 1	< 0.01
S7	2010-05-03		279	< 0.02	< 0.15	3	< 0.02	< 0.0001		64	22		< 0.005		< 0.0005	577	< 0.002	3.99	638	19.5		< 0.1	< 0.0005				< 0.1	< 0.01	< 0.001	0.068	3.1	13	< 1	380	3	< 0.01
S7	2011-10-28		142	< 0.02	< 0.15	< 2	0.038	< 0.0001	71	33	26		< 0.005		< 0.0005	489	0.003			3.4	220	0.14	< 0.0005	12	< 0.0005	< 0.001	< 0.1	< 0.01	0.002	0.13	8.3	13	58	338	7	< 0.01
S7	2012-04-23		220	< 0.02	< 0.15	< 2	0.022	< 0.0001	79	45	19		< 0.005		< 0.0005	484	< 0.002			6.28	230	0.49	< 0.0005	13	< 0.0025	< 0.001	< 0.1	< 0.01	0.0015	0.089	3.2	13	10	214	5	< 0.01
S7	2012-10-24		170	< 0.02	< 0.15	< 2	0.032	< 0.0001	88	36	31		< 0.005		0.001	566	0.004			8.4	270	1.2	< 0.0005	14	< 0.0005	< 0.001	< 0.1	< 0.01	0.0013	0.12	5.6	15	64	332	10	0.011
S7	2013-04-25		180		< 0.15	< 2	< 0.02	< 0.0001	63	19	17		< 0.005		< 0.0005	426	< 0.002				200	0.1	< 0.0005	9.2	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.015	1.7	10	12	270	2	< 0.01
S7	2013-09-23		150		< 0.15	< 2	0.025	< 0.0001	66	42	12		< 0.005		< 0.0005	406	0.004				190	0.84	< 0.0005	11	< 0.0005	0.002	0.11	< 0.01	< 0.001	0.13	4.5	9.3	36	272	7	0.012
S7	2013-10-22		270		< 0.15	< 2	< 0.02	< 0.0001	96	24	20	< 0.005	< 0.005	< 0.0005	< 0.0005	600	< 0.002				260	0.14	< 0.0005	16	< 0.0005	< 0.001	< 0.1	< 0.01	0.0014	0.053	4.4	13	21	356	3	< 0.01
S7	2014-05-05		180		0.52	< 2	< 0.02	< 0.0001	71	17	26	< 0.005	< 0.005	< 0.0005	< 0.0005	434	< 0.002				200	0.02	< 0.0005	9.5	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.022	3	16	2	246	2	< 0.01
S7	2014-10-20		280	0.0012	0.58	< 2	< 0.02	< 0.0001	98	26	26	< 0.005	< 0.005	< 0.0005	< 0.0005	621	< 0.002			7.25	270	0.14	< 0.0005	15	< 0.0005	0.002	< 0.1	< 0.01	< 0.001	0.076	7	19	17	382	2	< 0.01
S7	2015-04-21		160	< 0.0017	< 0.15	< 2	< 0.02	< 0.0001	58	24	18	< 0.005	< 0.005	< 0.0005	< 0.0005	370	< 0.002	10	370	10.82	170	0.16	< 0.0005	8.2	< 0.0005	< 0.001	< 0.1	< 0.01	0.0045	0.032	2	11	11	220	2	< 0.01
S7	2015-09-14	< 0.001	140	0.0018	0.56		0.033	< 0.0001	58	36	22	< 0.005	< 0.005	< 0.0005	< 0.0005	430	0.003		500	15.4	180	0.14	< 0.0005	8	< 0.0005	< 0.001	0.37	< 0.01	< 0.001	0.18	8	13	42	292	< 1	< 0.01
S7	2015-11-23	< 0.001	200	< 0.0005	< 0.15		< 0.02	< 0.0001	74	23	23	< 0.005	< 0.005	< 0.0005	< 0.0005	489	< 0.002		430	1.59	220	0.06	< 0.0005	9.6	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.019	3	12	13	284	< 1	< 0.01
S7	2016-05-02	< 0.001	220	< 0.00069	< 0.15	< 2	< 0.02	< 0.0001	73	27	18	< 0.005	< 0.005	< 0.0005	< 0.0005	478	< 0.002	8.59	470	8.73	240	< 0.1	0.0023	10	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.018	1.8	11	< 1	270	1	< 0.01
S7	2016-10-18	< 0.001	100	< 0.0005	< 0.15	3	0.027	< 0.0001	46	55	9.6	< 0.005	< 0.005	< 0.0025	0.0005	360	0.006	2.75	390	13.49	140	1	< 0.0005	7.5	< 0.00005	0.002	4.37	0.197	< 0.001	0.23	4.2	6.9	46	246	14	< 0.01
S7	2017-05-01	< 0.001	170	0.0027	0.24	2	< 0.02	< 0.0001	57	31	19	< 0.005	< 0.005	< 0.0005	< 0.0005	390	< 0.002			9	170	0.41	< 0.0005	8.6	< 0.00005	0.001	< 0.1	0.012	< 0.001	< 0.03	2.2	13	< 1	314	< 10	< 0.01
S7	2017-07-25	< 0.001	160	< 0.0016	< 0.15	< 2	0.022	< 0.0001	55	37	9.2	< 0.005	< 0.005	< 0.0005	< 0.0005	330	< 0.002			17.2	160	0.3	< 0.0005	7.2	< 0.00005	0.001	< 0.1	< 0.01	0.0024	0.048	2.1	8.2	< 1	190	< 10	< 0.01
S7	2017-10-16	< 0.001	250	< 0.0012	< 0.15	< 2	0.049	< 0.0001	80	29	19	< 0.005	< 0.005	< 0.0005	< 0.0005	490	< 0.002	3.86	390	11.8	260	0.26	< 0.0005	12	< 0.00005	0.001	< 0.1	< 0.01	< 0.001	0.047	3.4	16	< 1	350	< 10	< 0.01
S7	2018-05-16	< 0.001	230	0.0026	0.29	< 2	< 0.02	< 0.0001	72	34	17	< 0.005	< 0.005	< 0.0005	< 0.0005	470	< 0.002	12.21	450	13.52	230	0.17	< 0.0005	10	< 0.00005	0.001	0.33	0.02	< 0.001	< 0.03	2.3	14	< 1	175	< 10	< 0.01
S7	2019-05-06	< 0.001	170	0.0023	0.44	< 2	< 0.02	< 0.0001	60	< 4	16	< 0.005	< 0.005	0.0014	< 0.0005	390	< 0.002	5.37	390	11.29	180	< 0.1	< 0.0005	8.3	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	< 0.03	1.9	11	< 1	250	< 10	< 0.01
S7	2019-10-31	< 0.001	95	0.046	1.5	< 2	0.021	< 0.0001	46	32	15	< 0.005	< 0.005	< 0.0005	< 0.0005	330	0.004	3.77	260	11.4	130	0.3	< 0.0005	6.5	< 0.00005	0.001	< 0.1	0.023	< 0.001	0.069	3.6	9.9	38	225	< 10	0.012
S8R	2009-06-02		268	< 0.02	< 0.15	4		< 0.0001	87		7		< 0.005			520	< 0.002			16.2	220	< 0.1	< 0.0005	18		< 0.001	0.2	< 0.01	0.001	0.008				340	2	< 0.01
S8R	2010-05-03		332	< 0.02	0.4	4	0.044	< 0.0001		18	7		< 0.005		< 0.0005	652	< 0.002	11.26	831	17.4		< 0.1	< 0.0005			1.8	0.14	< 0.001	0.59	4.7	8.3	15	410	4	< 0.01	
S8R	2010-10-25		253	< 0.02	< 0.15	< 2	0.027	< 0.0001	96	13	18		< 0.005			637	< 0.002			8.8	280	< 0.1	< 0.0005	20	< 0.0005		0.2	< 0.01	< 0.001	0.032	2.7	17	63	392	< 1	< 0.01
S8R	2011-05-02		226	< 0.02	< 0.15	2	< 0.02	< 0.0001	85	24	3		< 0.005		< 0.0005	437	0.003			11.43	220	1.2	0.0006	12	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.065	2	4.7	6	252	32	< 0.01
S8R	2012-04-23		230	< 0.02	< 0.15	< 2	< 0.02	< 0.0001	77	32	5		< 0.005		< 0.0005	454	0.003			5.51	240	0.11	< 0.0005	14	< 0.0025	< 0.001	< 0.1	< 0.01	0.0021	0.055	2.1	8	14	196	4	< 0.01
S8R	2013-04-25		200		< 0.15	< 2	0.031	< 0.0001	67	25	38		< 0.005		< 0.0005	561	< 0.002				220	0.12	< 0.0005	14	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.057	4.1	29	24	316	7	< 0.01
S8R	20																																			

Richmond Landfill - Historical Results (Surface Water)

Name	Date	1,4-Dioxane mg/L	Alkalinity mg/L	Ammonia (unionized) mg/L	Ammonia mg/L	Biochemical Oxygen Demand mg/L	Boron mg/L	Cadmium mg/L	Calcium mg/L	Chemical Oxygen Demand mg/L	Chloride mg/L	Chromium (III) mg/L	Chromium (Total) mg/L	Chromium (VI) mg/L	Cobalt mg/L	Conductivity µS/cm	Copper mg/L	Dissolved Oxygen mg/L	Field Conductivity µS/cm	Field Temperature °C	Hardness mg/L	Iron mg/L	Lead mg/L	Magnesium mg/L	Naphthalene mg/L	Nickel mg/L	Nitrate mg/L	Nitrite mg/L	Phenols mg/L	Phosphorus (total) mg/L	Potassium mg/L	Sodium mg/L	Sulphate mg/L	Total Dissolved Solids mg/L	Total Suspended Solids mg/L	Zinc mg/L		
S18	2017-10-16	< 0.001	200	< 0.0053	< 0.15	4	0.023	< 0.0001	76	34	5.4	< 0.005	< 0.005	< 0.0005	< 0.0005	390	< 0.002	10.54	290	12.8	200	0.74	< 0.0005	5.6	< 0.00005	0.001	< 0.1	< 0.01	< 0.001	0.09	4.7	4.3	22	280	24	< 0.01		
S18	2018-05-16	< 0.001	160	0.02	0.68	< 2	< 0.02	< 0.0001	59	19	3.6	< 0.005	< 0.005	< 0.0005	< 0.0005	310	< 0.002	4.37	310	20.62	170	0.18	< 0.0005	3.3	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	< 0.03	1.3	2.9	1	125	< 10	< 0.01		
S18	2018-08-09	< 0.001	130	< 0.004	< 0.15	3	0.024	< 0.0001	55	35	13	< 0.005	< 0.005	< 0.0005	0.0006	340	< 0.002	4.2	3300	26.6	140	1.8	< 0.0005	4.2	< 0.00005	0.001	< 0.1	< 0.01	< 0.001	0.1	8	5.9	27	240	27	< 0.01		
S18	2018-10-16	< 0.001	180	< 0.00055	< 0.15	13	< 0.02	< 0.0001	68	33	6	< 0.005	< 0.005	< 0.0005	< 0.0005	400	< 0.002		370	7.5	180	0.26	< 0.0005	4.2	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	0.069	5.2	3.8	24	235	10	< 0.01		
S18	2019-05-06	< 0.001	170	0.0057	0.4	< 2	< 0.02	< 0.0001	72	21	9.4	< 0.005	< 0.005	0.0013	< 0.0005	370	< 0.002	3.07	360	15.75	180	< 0.1	< 0.0005	3.8	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	0.036	2.2	6.2	< 1	250	< 10	< 0.01		
S18	2019-08-08	< 0.001	180	1	41	8	0.024	< 0.0001	62	59	18	0.01	0.01	< 0.0005	0.0033	410	0.006	4.14	430	28.3	180	7.7	0.0024	6.8	< 0.00005	0.007	< 0.1	< 0.01	0.035	0.44	14	6	4.5	325	180	0.021		
S18	2019-10-31	< 0.001	82	0.025	0.84	3	< 0.02	< 0.0001	36	34	5.1	< 0.005	< 0.005	0.00091	< 0.0005	230	0.002	3.55	180	11.74	99	0.23	< 0.0005	2.3	< 0.00005	0.001	< 0.1	< 0.01	< 0.001	0.12	5.3	2.4	22	125	< 10	< 0.01		
S19	2016-05-02	< 0.001	260	< 0.00076	< 0.15	< 2	0.044	< 0.0001	87	16	26	< 0.005	< 0.005	< 0.0005	< 0.0005	574	< 0.002	8	590	9.95	280	< 0.1	< 0.0005	10	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.011	2.6	19	9.9	310	3	< 0.01		
S19	2016-10-18	< 0.001	100	< 0.0005	< 0.15	< 2	0.059	< 0.0001	140	47	110	< 0.005	< 0.005	< 0.0005	< 0.0005	1100	0.002	5.63	1000	13.06	420	< 0.1	< 0.0005	17	< 0.00005	0.002	< 0.1	< 0.01	< 0.001	0.13	10	41	300	776	21	< 0.01		
S19	2017-05-01	< 0.001	200	< 0.0032	< 0.15	< 2	0.054	< 0.0001	64	14	19	< 0.005	< 0.005	< 0.0005	< 0.0005	440	< 0.002			11.7	190	< 0.1	< 0.0005	9.1	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	< 0.03	2	15	< 1	250	< 10	< 0.01		
S19	2017-07-25	< 0.001	290	< 0.0026	< 0.15	< 2	0.056	< 0.0001	96	25	19	< 0.005	< 0.005	< 0.0005	0.0006	580	< 0.002			18.9	260	2.7	< 0.0005	11	< 0.00005	< 0.001	< 0.1	< 0.01	0.001	0.039	2.1	17	< 1	312	< 10	< 0.01		
S19	2017-10-16	< 0.001	320	< 0.001	< 0.15	< 2	0.063	< 0.0001	120	28	28	< 0.005	< 0.005	< 0.0005	0.001	660	< 0.002	5.76	540	12.26	320	2.1	< 0.0005	12	< 0.00005	0.001	< 0.1	< 0.01	0.0014	0.089	4.4	22	29	435	22	< 0.01		
S19	2018-05-16	< 0.001	260	0.0043	0.18	< 2	0.03	< 0.0001	87	24	13	< 0.005	< 0.005	< 0.0005	< 0.0005	490	< 0.002	4.96	490	26.14	250	0.11	< 0.0005	7.5	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	0.036	2.1	11	< 1	210	13	< 0.01		
S19	2018-08-09	< 0.001	140	< 0.0005	< 0.15	< 2	0.084	< 0.0001	86	42	27	< 0.005	< 0.005	< 0.0005	< 0.0005	590	< 0.002	3.73	580	20.9	250	< 0.1	< 0.0005	8.2	< 0.00005	0.002	< 0.1	< 0.01	< 0.001	0.051	4.5	22	120	410	< 10	< 0.01		
S19	2018-10-16	< 0.001	270	< 0.00061	< 0.15	< 2	0.032	< 0.0001	100	17	22	< 0.005	< 0.005	< 0.0005	< 0.0005	620	< 0.002		550	6.9	280	< 0.1	< 0.0005	8.1	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	< 0.03	3.7	14	31	290	< 10	< 0.01		
S19	2019-05-06	< 0.001	210	0.0086	0.71	< 2	< 0.02	< 0.0001	86	12	19	< 0.005	< 0.005	0.0012	< 0.0005	470	< 0.002	2.14	460	16.39	220	< 0.1	< 0.0005	6.4	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	< 0.03	3	13	6.1	250	< 10	< 0.01		
S19	2019-10-31	< 0.001	160	0.2	14	< 2	0.022	< 0.0001	76	19	11	< 0.005	< 0.005	< 0.0005	< 0.0005	430	< 0.002	3.94	410	10.41	200	< 0.1	< 0.0005	4.7	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	< 0.03	3	6.4	37	240	< 10	< 0.01		
S20	2016-05-02	< 0.001	250	< 0.00071	< 0.15	< 2	0.031	< 0.0001	83	18	22	< 0.005	< 0.005	< 0.0005	< 0.0005	530	< 0.002	10.52	560	10.92	260	0.13	< 0.0005	9.7	< 0.0005	< 0.001	< 0.1	< 0.01	< 0.001	0.019	2	15	4.2	284	2	< 0.01		
S20	2016-08-15	< 0.001	210	0.035	8.18	15	0.082	0.0001	94	240	48	< 0.005	0.008	< 0.0005	0.0038	740	0.01	0.68	800	21.76	250	7.6	0.0035	12	< 0.00005	0.009	< 0.5	< 0.05	0.0026	0.25	34	21	68	636	140	0.022		
S20	2016-10-18	< 0.004	230	0.013	15.5	33	0.041	0.0002	69	320	69	< 0.005	0.012	< 0.0005	0.0042	770	0.012	8.21	770	13.01	180	9.3	0.0063	12	< 0.00005	0.011	< 0.1	0.441	0.0011	2.1	50	21	39	486	260	0.045		
S20	2016-10-25	< 0.001	160																																			
S20	2017-05-01	< 0.001	170	< 0.0027	< 0.15	< 2	< 0.02	< 0.0001	58	18	8.1	< 0.005	< 0.005	< 0.0005	< 0.0005	340	< 0.002			9.9	160	< 0.1	< 0.0005	6.3	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	< 0.03	0.76	6.1	1.5	200	< 10	< 0.01		
S20	2017-07-25	< 0.001	220	< 0.0025	< 0.15	< 2	0.038	< 0.0001	73	31	15	< 0.005	< 0.005	< 0.0005	< 0.0005	450	< 0.002			20.9	210	0.26	< 0.0005	7.5	< 0.00005	< 0.001	< 0.1	< 0.01	0.0022	< 0.03	1.9	11	< 1	252	< 10	< 0.01		
S20	2017-10-16	< 0.001	230	0.0023	0.21	< 2	0.046	< 0.0001	82	29	23	< 0.005	< 0.005	< 0.0005	< 0.0005	530	< 0.002	5.72	400	12.61	240	0.52	< 0.0005	9	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	0.057	5.5	15	31	355	11	< 0.01		
S20	2018-05-16	< 0.001	240	< 0.0056	< 0.15	< 2	< 0.02	< 0.0001	91	39	9.7	< 0.005	< 0.005	< 0.0005	< 0.0005	450	< 0.002	3.07	290	24.92	230	0.36	< 0.0005	6.2	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	0.041	1.7	11	< 1	195	12	< 0.01		
S20	2018-08-09	< 0.001	150	< 0.0025	< 0.15	4	0.051	< 0.0001	51	45	18	< 0.005	< 0.005	< 0.0005	< 0.0005	380	< 0.002	3.94	3900	23.5	150	1.2	< 0.0005	6.9	< 0.00005	0.001	< 0.1	< 0.01	< 0.001	0.19	7.8	15	23	225	27	< 0.01		
S20	2018-10-16	< 0.001	250	< 0.00065	< 0.15	< 2	0.039	< 0.0001	90	26	19	< 0.005	< 0.005	< 0.0005	< 0.0005	560	< 0.002		550	7.5	250	0.26	< 0.0005	8.7	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	< 0.03	3.8	15	26	305	13	< 0.01		
S20	2019-05-06	< 0.001	200	0.051	2.7	< 2	0.023	< 0.0001	83	15	9.5	< 0.005	< 0.005	0.0012	< 0.0005	420	< 0.002	3.32	420	15.81	210	0.47	< 0.0005	6.9	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	0.034	2.2	8.2	< 1	265	14	< 0.01		
S20	2019-08-08	< 0.001	160	0.55	47	< 2	0.027	< 0.0001	47	45	22	< 0.005	< 0.005	< 0.0005	< 0.0005	380	< 0.002	1.6	480	29	160	0.74	< 0.0005	8	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	0.063	7	16	< 1	225	< 10	< 0.01		
S20	2019-10-31	< 0.001	160	< 0.00061	0.49	< 2	0.03	< 0.0001	69	25	14	< 0.005	< 0.005	0.0008	< 0.0005	420	< 0.002	5.01	330	10.6	190	< 0.1	< 0.0005	5.8	< 0.00005	< 0.001	< 0.1	< 0.01	< 0.001	< 0.03	3.5	9	32	240	< 10	< 0.01		