

Cudgen Lakes Sand Quarry

Deposited Dust Monitoring

Samples On	Samples Off	Month	DG1		DG2		DG3		Annual Criteria	Comments
			Insoluble Matter	Rolling Annual Average	Insoluble Matter	Rolling Annual Average	Insoluble Matter	Rolling Annual Average		
11/07/2017	10/08/2017	Jul-17	0.28	ID	0.98	ID	0.42	ID	4	
10/08/2017	9/09/2017	Aug-17	0.54	ID	0.82	ID	0.74	ID	4	DG1 - cloudy/organic matter.
9/09/2017	9/10/2017	Sep-17	1.36	ID	0.66	ID	0.68	ID	4	
9/10/2017	8/11/2017	Oct-17	4.23	ID	1.71	ID	0.36	ID	4	DG1 - cloudy/organic matter.
8/11/2017	9/12/2017	Nov-17	17.4	ID	15.55	ID	1.02	ID	4	DG1 - cloudy/organic matter. DG2 - green/organic matter. DG3 - slightly green/funnel missing. Only dredging undertaken at Quarry (i.e. no dust generating activities) - earthworks activiites occuring southeast of Quarry.
9/12/2017	9/01/2018	Dec-17	9.25	ID	0.84	ID	0.7	ID	4	DG1 - cloudy/organic matter. DG2 - insects. Only dredging undertaken at Quarry (i.e. no dust generating activities) - earthworks activiites occuring southeast of Quarry.
9/01/2018	9/02/2018	Jan-18	3.56	ID	0.39	ID	1.04	ID	4	DG1 - cloudy/organic matter. DG2 - organic matter. Only dredging undertaken at Quarry (i.e. no dust generating activities) - earthworks activiites occuring southeast of Quarry.
14/04/2020	14/05/2020	Apr-20	13.35	ID	0.64	ID	0.86	ID	4	DG1 - Insects, seeds, two frogs (deceased & semi mature). DG2 - Bird droppings, insects, seeds. DG3 - Insects.
14/05/2020	12/06/2020	May-20	0.85	ID	1.00	ID	0.35	ID	4	DG1 - Grass & seeds, live tree frog removed. DG2 - Ants, seeds, relatively clear. DG3 - Grass & seeds, ants, relatively clear.
12/06/2020	13/07/2020	Jun-20	0.21	ID	0.10	ID	0.13	ID	4	DG1 - Bee, seeds, bird droppings on funnel. DG2 - Insects, seeds, feather. DG3 - Insects, seeds.
13/07/2020	13/08/2020	Jul-20	2.66	ID	2.11	ID	0.17	ID	4	DG1 - Film on surface, ants, seeds. DG2 - Film on surface, ants, seeds. DG3 - Clear, few seeds, few insects.
13/08/2020	11/09/2020	Aug-20	2.6	ID	2.70	ID	0.40	ID	4	DG1 - Bird poo, algae, milky, seeds. DG2 - Seeds, milky. DG3 - Clear, algae, fly.
11/09/2020	13/10/2020	Sep-20	10	ID	2.10	ID	0.20	ID	4	DG1 - Dark grey/black colour, dead frog, bugs, bettles, flies, grass seeds. DG2 - Bird poo, spider, grass seeds, milky colour. DG3 - Clear, spider.
13/10/2020	10/11/2020	Oct-20	3.34	ID	1.66	ID	0.34	ID	4	DG1 - Insects, grass seeds, algae?, water is brown. DG2 - 20 bettles, bird poos, insects, grass seed, water is clear. DG3 - Bettle, insects, grass seeds, algae, water is clear.
10/11/2020	10/12/2020	Nov-20	0.33	ID	0.75	ID	0.37	ID	4	All sites - insects, grass seed, clear.
1/12/2020	11/01/2021	Dec-21	0.02	ID	0.04	ID	0.32	ID	4	All sites - insects, grass seeds. DG2 - Analysed sample volume (0.35L) reduced due to breakage.
11/01/2021	8/02/2021	Jan-21	0.87	ID	0.76	ID	0.00	ID	4	DG1 & DG2 - insects and grass seeds. DG3 - grass seeds.
8/02/2021	9/03/2021	Feb-21	1.44	ID	0.64	ID	2.07	ID	4	All sites - insects, grass seeds, clear.
9/03/2021	9/04/2021	Mar-21	NS	NS	0.83	1.11	0.80	0.50	4	DG2 & DG3 - insects, grass seeds, clear. DG1 sample broken during collection.
9/04/2021	10/05/2021	Apr-21	0.74	2.10	0.07	1.06	0.69	0.49	4	DG1 - grass seeds, insects, bird poo, cloudy. DG2 - grass seeds, ants. DG3 - Bird poo, grass seeds, slightly cloudy.
10/05/2021	7/06/2021	May-21	3.08	2.30	0.12	0.99	0.08	0.46	4	DG1 - insects, grass seeds, algae, cloudy. DG2 - grass seeds, insects, clear. DG3 -
7/06/2021	7/07/2021	Jun-21	2.62	2.52	0.75	1.04	NS	NS	4	DG1 - grass seeds, insects, clear. DG2 - grass seeds, insects, clear. DG3 - grass seeds, bird poo, insects, algae, clear.
7/07/2021	6/08/2021	Jul-21	0.28	2.30	0.29	0.89	0.58	0.53	4	DG1 - grass, insects, clear. DG2 - grass, insects, clear. DG3 - grass, insects, bird droppings.
6/08/2021	6/09/2021	Aug-21	0.60	2.12	0.59	0.72	0.76	0.56	4	DG1 - grass seeds, insects, clear. DG2 - grass seeds, clear. DG3 - grass seeds, insects, clear.
6/09/2021	8/10/2021	Sep-21	0.06	1.22	0.55	0.59	0.45	0.59	4	All- ants
8/10/2021	9/11/2021	Oct-21	0.90	0.99	11.41	1.40	NS	NS	4	DG1-bugs, fine org. matter, DG2- dirt, large org. matter
9/11/2021	8/12/2021	Nov-21	2.44	1.19	1.98	1.50	NS	NS	4	DG2-bugs
8/12/2021	7/01/2022	Dec-21	0.45	1.23	1.06	1.59	1.62	0.78	4	All- fine org. matter
7/01/2022	9/02/2022	Jan-22	0.50	1.19	0.32	1.55	0.35	0.82	4	DG2 fine organic matter, all sites insects, grass (seeds)
9/02/2022	10/03/2022	Feb-22	0.87	1.14	17.37*	NS	3.16	0.94	4	DG2 fine organic matter, cloudy
10/03/2022	27/04/2022	Mar-22	NS	NS	NS	NS	NS	NS	4	No samples due to flooding
27/04/2022	27/04/2022	Apr-22	NS	NS	NS	NS	NS	NS	4	No samples due to flooding
27/04/2022	23/05/2022	May-22	NS	NS	NS	NS	NS	NS	4	No samples due to flooding
23/05/2022	29/06/2022	Jun-22	NS	NS	NS	NS	NS	NS	4	Bottles reset
30/06/2022	26/07/2022	Jul-22	NS	NS	NS	NS	NS	NS	4	
27/07/2022	25/08/2022	Aug-22	2.97	1.17	3.05	3.06	0.22	1.16	4	fine org. matter, cloudy, yellow
26/08/2022	28/09/2022	Sep-22	3.41	1.65	5.65	3.91	0.06	1.08	4	
28/09/2022	26/10/2022	Oct-22	1.75	1.77	2.91	2.50	1.56	1.16	4	fine org. matter
26/10/2022	24/11/2022	Nov-22	1.57	1.65	2.65	2.61	0.48	1.06	4	dead bugs, yellow, yellow, cloudy, dead bugs
24/11/2022	21/12/2022	Dec-22	0.39	1.64	1.08	2.61	0.00	0.83	4	beetles/ants, large org. matter , fine org. matter

21/12/2022	22/01/2023	Jan-23	0.12	1.58	1.01	2.73	0.26	0.82	4	
22/01/2023	23/02/2023	Feb-23	0.57	1.54	0.43	2.40	0.04	0.37	4	seeds and ants
23/02/2023	27/03/2023	Mar-23	NS	NS	NS	NS	NS	NS	4	Samples not analysed, bottles broken during transit
27/03/2023	24/04/2023	Apr-23	1.17	1.49	0.77	2.19	0.28	0.36	4	seeds and bugs
24/04/2023	24/05/2023	May-23	0.55	1.39	2.88	2.27	3.02	0.66	4	small bugs/bugs, sticks, algae, fine org. matter, Green
24/05/2023	23/06/2023	Jun-23	0.66	1.32	2.44	2.29	0.69	0.66	4	fine and large org. matter, cloudy
23/06/2023	25/07/2023	Jul-23	0.62	1.25	1.59	2.22	*51.08	NS	4	grass, plant material, org. matter, cloudy, brown. DG3 sample invalid due to high proportion of organic matter.
25/07/2023	23/08/2023	Aug-23	0.34	1.01	2.32	2.16	1.26	0.77	4	DG1 - spider, cricket, fine org. matter, DG2 - fine org. matter, cloudy, DG3 - twigs, bugs, fine org. matter
23/08/2023	19/09/2023	Sep-23	0.22	0.72	6.29	2.22	1.04	0.86	4	DG1-bugs, fine org. matter, DG2-twig, org. matter, cloudy, yellow, DG3-seed shells, org. matter, cloudy
19/09/2023	25/10/2023	Oct-23	0.45	0.61	8.23	2.70	3.29	1.04	4	DG1-bugs, org. matter, DG2-seeds, grass, fine org. matter, cloudy, brown, DG3-algae, fine org. matter, cloudy
25/10/2023	22/11/2023	Nov-23	4.99	0.92	*23.89	NS	*67.9	NS	4	DG1 - algae, bugs, fine org. matter, DG2 - algae, bugs, org. matter, DG3 - algae, bugs, fine org. matter, cloudy, yellow. DG2 & DG3 samples invalid due to high proportion of organic matter.
22/11/2023	20/12/2023	Dec-23	1.23	0.99	1.94	2.79	3.09	1.44	4	DG1- bugs, algae, twigs, fine org. matter, DG2- bugs, algae, fine org. matter, DG3- fine org. matter
20/12/2023	19/01/2024	Jan-24	13.70	2.23	8.79	3.57	*65	NA	4	DG1 - bugs, algae, twigs, fine org. matter, DG2- bugs, algae, fine org. matter, DG3 - fine org. matter. DG3 sample deemed invalid due to high proportion of organic matter
19/01/2024	21/02/2024	Feb-24	0.13	2.19	0.05	3.53	NS	NS	4	DG1- leaves, seeds, fine org. matter, cloudy, DG2-insects, fine org. matter, cloudy, DG3- bottle broken in transit to lab
21/02/2024	22/03/2024	Mar-24	0.47	2.04	0.1	3.22	0.61	1.66	4	DG1- bug, seeds, fine org. matter, cloudy, DG2-fine org. matter, DG3-bugs, fine org. matter
22/03/2024	22/04/2024	Apr-24	2.63	2.17	0.82	3.22	2.92	1.99	4	DG1- Fine org. matter, green colour, algae, cloudy, DG2-fine org. matter, DG3-fine org. matter, yellow, cloudy, seeds, algae, insects
22/04/2024	31/05/2024	May-24	NS	NS	NS	NS	NS	NS	4	
31/05/2024	26/06/2024	Jun-24	3.70	2.59	1.9	3.20	3.1	2.19	4	DG1- Insects, grass (seeds), org. matter, DG2-Insects, grass (seeds), org. matter, DG3-Insects, grass (seeds), org. matter
26/06/2024	23/07/2024	Jul-24	0.77	2.60	0.67	3.11	0.45	1.97	4	DG1- moth, mosquitoes, fine org. matter, cloudy, DG2-mosquitoes, fine org. matter, cloudy, DG3-mosquitoes, fine org. Matter
23/07/2024	23/08/2024	Aug-24	0.98	2.66	0.67	2.95	9.69	3.02	4	DG1- sticks, fine org. matter, DG2-insects, fine org. matter, DG3-sticks, lots of organic matter, insects
23/08/2024	24/09/2024	Sep-24	0.16	2.66	0.26	2.34	*194	NS	4	DG1- fine org. Matter DG2-fine org. matter, DG3-seeds/dirt/sand, fine org. matter, brown
24/09/2024	23/10/2024	Oct-24	NS	NS	NS	NS	9	4.12	4	DG1 & DG2 - sample broken during collection. DG3 - Sticks, sediment present, broken bug shells
23/10/2024	24/11/2024	Nov-24	5.70	2.95	1.2	1.64	11	4.98	4	DG1 - Bugs, DG2 - Insects, DG3 - Bugs
24/11/2024	21/12/2024	Dec-24	NS	NS	NS	NS	NS	NS	4	
21/12/2024	21/01/2025	Jan-25	NS	NS	NS	NS	NS	NS	4	DG1- Organic Matter, Insects, Grass Seeds, DG2-Organic Matter, Insects, DG3-Significant organic matter including insects and grass seeds
21/01/2025	21/02/2025	Feb-25	0.18	1.82	0.63	0.78	0.64	4.68	4	DG1- Organic Matter, Insects, Grass Seeds, DG2-Organic Matter, Insects, DG3-Organic matter including insects and grass seeds
21/02/2025	21/03/2025	Mar-25	NS	NS	NS	NS	NS	NS	4	
21/03/2025	23/04/2025	Apr-25	0.48	1.83	13	2.39	0.18	4.87	4	DG1-Organic Matter, Grass Seeds, DG2-Organic Matter, Insects. Water green/brown colour. Funnel clogged with bird droppings, Ash content 1.8 indicating significant organic matter, DG3-Organic matter including insects and grass seeds
23/04/2025	21/05/2025	May-25	0.80	1.60	8.8	3.39	NS	NS	4	DG1-Organic Matter, Grass Seeds, awaiting results, DG2-Organic Matter, Insects. Water slightly turbid brown colour, Ash content less than 0.1 indicating significant organic matter, DG3-Bottle broken during transit
Monthly Minimum (g/m ²)			0.12	-	0.05	-	0.04	-	-	
Monthly Maximum (g/m2)			13.70	-	13.00	-	11.00	-	-	
Average (g/m2)			1.77	-	2.95	-	2.81	-	-	

ID = Insufficient Data *Sample assessed as contaminated. Result not included in statistical analysis.
NS - No Sample / Invalid Sample (broken, inaccessible, contaminated, etc)

