



Impact Fertilisers 107 Greenleaf Road Kooragang NSW EPA Licence 5430  
 Sampling requirement : Internal capture pits Monthly on discharge  
 Results must comply with section 120 of the Protection of the Environment Operations Act 1997

## Notes on Monitoring Data

Hardstand runoff from the site is captured in 1 of 4 First Flush Capture Pits then diluted and recycled for site garden irrigation.  
 If the storage capacity of this system is exceeded (approx 450,000 Litres) then subsequent hardstand runoff bypasses the capture pits.

Bypass water is serially mixed and diluted with clean rainwater from the shed roof area (29,170 square metres) prior to discharge.

The following test results are from the bypass sumps of the capture pits - They are not discharge sample results.

### 27/6/13 - PRP3 Sample

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
pH	6.7	6.7	6.7	6.6
TSS	48	44	45	44
Ammonia	-	-	-	-
Nitrite	-	-	-	-
Nitrate	-	-	-	-
Nitrate + Nitrite	0.34	0.35	0.35	0.35
Kjeldahl Nitrogen	9.5	9	9.9	9.6
Nitrogen as N	9.8	9.4	10.2	10
Total Phosphorous as P	5.2	5.13	5.53	4.95
Reactive Phosphorous as P	-	-	-	-

### 28/02/2014

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
pH	6.04	6.87	6.78	7.38
TSS	7	175	9	5
Ammonia	1.78	11.9	17.4	16.2
Nitrite	0.01	0.13	0.19	0.2
Nitrate	0.29	0.44	11.5	3.89
Nitrate + Nitrite	0.29	0.57	11.7	4.09
Kjeldahl Nitrogen	5.6	46.2	71.2	23.6
Nitrogen as N	5.9	46.8	82.9	27.7
Total Phosphorous as P	2.22	17.5	20.7	14.1
Reactive Phosphorous as P	1.28	13.6	18.4	15.6

### 18/11/2013

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
pH	4.81	7.11	8.53	7.98
TSS	5	9	53	5
Ammonia	1	21.9	81.9	9.69
Nitrite	0.01	0.08	0.15	0.25
Nitrate	0.19	0.31	29.8	13.2
Nitrate + Nitrite	0.19	0.39	29.9	13.4
Kjeldahl Nitrogen	1.4	35.4	102	16.5
Nitrogen as N	1.6	35.8	132	29.9
Total Phosphorous as P	1.9	11	28.1	3.56
Reactive Phosphorous as P	1.86	9.49	20.9	3.42

### 27/08/2014

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
pH	6.63	8.45	7.45	7.21
TSS	7	51	12	20
Ammonia	4.44	74.4	8.03	4.31
Nitrite	0.02	0.46	0.23	0.27
Nitrate	0.22	4.56	5.62	6.27
Nitrate + Nitrite	0.24	5.02	5.85	6.54
Kjeldahl Nitrogen	4.8	85.9	14.1	5.2
Nitrogen as N	5	90.9	20	11.7
Total Phosphorous as P	3.83	21.2	4.18	4.27
Reactive Phosphorous as P	3.63	20.7	3.53	2.79

### 22/05/2015

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
pH	6.76	-	6.7	6.27
TSS	11	-	23	18
Ammonia	3.56	-	18.4	5.42
Nitrite	0.06	-	0.16	0.05
Nitrate	2.26	-	7.47	0.49
Nitrate + Nitrite	2.32	-	7.63	0.54
Kjeldahl Nitrogen	4.9	-	28	6.4
Nitrogen as N	7.2	-	35.6	6.9
Total Phosphorous as P	3.57	-	15.9	9.17
Reactive Phosphorous as P	3.29	-	16.1	9.3

### 22/12/2015

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
pH	6.06	6.74	6.24	6.7
TSS	5	24	6	<5
Ammonia	1.6	12.8	68.1	1.94
Nitrite	0.01	0.06	0.08	0.42
Nitrate	0.36	0.37	1.15	1.19
Nitrate + Nitrite	0.37	0.43	1.23	1.61
Kjeldahl Nitrogen	2.6	28.6	185	2.4
Nitrogen as N	3	29	186	4
Total Phosphorous as P	3.3	12.3	100	1.54
Reactive Phosphorous as P	3.34	12.1	108	1.32

(Pit 2 Not Discharging - Weir Gate Closed)

### 06/01/2016

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
pH	6.8	6.92	6.53	6.97
TSS	6	12	19	8
Ammonia	1.42	5.96	10.2	1.45
Nitrite	0.01	0.04	0.12	0.1
Nitrate	0.39	0.22	7.73	8.4
Nitrate + Nitrite	0.4	0.26	7.85	8.5
Kjeldahl Nitrogen	3.9	9.3	18.7	6
Nitrogen as N	4.3	9.6	26.6	14.5
Total Phosphorous as P	2.77	3.39	16.1	2.22
Reactive Phosphorous as P	2.77	3.3	16.2	2.12



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**19/06/2016**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	23	-	-	9.4
Arsenic (dissolved)	<0.001	-	-	<0.001
Arsenic (total)	<0.001	-	-	<0.001
Cadmium (dissolved)	0.0001	-	-	<0.0001
Cadmium (total)	0.0003	-	-	0.0001
Lead (dissolved)	0.001	-	-	<0.001
Lead (total)	0.002	-	-	<0.001
Mercury (dissolved)	<0.0001	-	-	<0.0001
Mercury (total)	<0.0001	-	-	<0.0001
Nitrate	0.47	-	-	0.8
Nitrite	0.04	-	-	0.078
Nitrogen (total)	28	-	-	21
pH	8.28	-	-	6.93
Phosphorus (filterable reactive - ortl)	10	-	-	6.2
Phosphorus (total)	11	-	-	6.7
Sulfate	19	-	-	12
Sulfide (Total)	<0.5	-	-	<0.5
Sulfur	6.6	-	-	4
Total Kjeldahl Nitrogen	28	-	-	20
Total Suspended Solids	13	-	-	7
Zinc (dissolved)	0.023	-	-	0.036
Zinc (total)	0.09	-	-	0.098

(Pit 2 and 3 Not Discharging - Weir Gates Closed)

**13/10/2016**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	1.1	-	-	2.5
Arsenic (dissolved)	<0.001	-	-	<0.001
Arsenic (total)	<0.001	-	-	<0.001
Cadmium (dissolved)	<0.0001	-	-	<0.0001
Cadmium (total)	0.0001	-	-	<0.0001
Lead (dissolved)	<0.001	-	-	<0.001
Lead (total)	<0.001	-	-	<0.001
Mercury (dissolved)	<0.0001	-	-	<0.0001
Mercury (total)	<0.0001	-	-	<0.0001
Nitrate	0.15	-	-	0.58
Nitrite	0.009	-	-	0.48
Nitrogen (total)	2.1	-	-	4.5
pH	6.6	-	-	6.76
Phosphorus (filterable reactive - ortl)	1.1	-	-	1.5
Phosphorus (total)	1.2	-	-	4.5
Sulfate	5.8	-	-	5
Sulfide (Total)	<0.5	-	-	<0.5
Sulfur	2.3	-	-	1.9
Total Kjeldahl Nitrogen	1.9	-	-	3.5
Total Suspended Solids	11	-	-	<5
Zinc (dissolved)	0.097	-	-	0.027
Zinc (total)	0.13	-	-	0.034

(Pit 2 and 3 Not Discharging - Weir Gates Closed)

**27-28/02/2017**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	9.7	-	30	8.5
Arsenic (dissolved)	<0.001	-	0.004	<0.001
Arsenic (total)	<0.001	-	0.004	<0.001
Cadmium (dissolved)	<0.0001	-	0.0001	<0.0001
Cadmium (total)	0.0004	-	0.0014	0.0007
Lead (dissolved)	<0.001	-	<0.001	<0.001
Lead (total)	0.003	-	0.009	0.007
Mercury (dissolved)	<0.0001	-	<0.0001	<0.0001
Mercury (total)	<0.0001	-	<0.0001	<0.0001
Nitrate	0.42	-	1.3	0.48
Nitrite	0.022	-	0.15	0.083
Nitrogen (total)	18	-	100	24
pH	8.22	-	6.77	6.87
Phosphorus (filterable reactive - ortl)	4.2	-	56	4.2
Phosphorus (total)	6.6	-	63	6.6
Sulfate	24	-	240	24
Sulfide (Total)	<0.5	-	<0.5	<0.5
Sulfur	7.8	-	76	7.8
Total Kjeldahl Nitrogen	18	-	100	18
Total Suspended Solids	18	-	63	18
Zinc (dissolved)	0.091	-	0.005	0.091
Zinc (total)	0.28	-	0.2	0.28

(Pit 2 Not Discharging - Weir Gate Closed)

**19/03/2017**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	0.76	49	22	6.6
Arsenic (dissolved)	<0.001	0.002	0.003	0.001
Arsenic (total)	<0.001	0.002	0.004	0.001
Cadmium (dissolved)	<0.0001	0.0002	0.0013	0.0001
Cadmium (total)	0.0001	0.001	0.0014	0.0003
Lead (dissolved)	<0.001	<0.001	<0.001	<0.001
Lead (total)	<0.001	0.003	0.001	0.001
Mercury (dissolved)	<0.0001	<0.0001	<0.0001	<0.0001
Mercury (total)	<0.0001	<0.0001	<0.0001	<0.0001
Nitrate	0.051	0.77	10	8.8
Nitrite	<0.005	0.17	0.14	0.25
Nitrogen (total)	2.1	130	44	20
pH	4.49	8.37	5.18	5.98
Phosphorus (filterable reactive - ortl)	1	16	31	9
Phosphorus (total)	1.3	19	31	9.5
Sulfate	5.9	30	77	18
Sulfide (Total)	<0.5	<0.5	<0.5	<0.5
Sulfur	2.1	9.6	25	6.3
Total Kjeldahl Nitrogen	2.1	130	33	11
Total Suspended Solids	8	34	14	25
Zinc (dissolved)	0.15	0.018	0.55	0.058
Zinc (total)	0.15	0.26	0.54	0.091



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**07/06/2017**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	4.3	-	19	5.7
Arsenic (dissolved)	<0.001	-	<0.001	<0.001
Arsenic (total)	<0.001	-	0.001	<0.001
Cadmium (dissolved)	0.0003	-	0.0004	<0.0001
Cadmium (total)	0.0005	-	0.0008	0.0002
Lead (dissolved)	<0.001	-	<0.001	<0.001
Lead (total)	0.002	-	0.004	0.001
Mercury (dissolved)	0.0005	-	<0.0001	<0.0001
Mercury (total)	<0.0001	-	<0.0001	<0.0001
Nitrate	0.22	-	0.13	1.7
Nitrite	0.02	-	0.027	0.23
Nitrogen (total)	10	-	70	18
pH	6.25	-	7.91	6.76
Phosphorus (filterable reactive - ortl)	4.9	-	11	4.5
Phosphorus (total)	5.9	-	13	5
Sulfate	21	-	22	13
Sulfide (Total)	<0.5	-	<0.5	<0.5
Sulfur	7.3	-	6.8	4.3
Total Kjeldahl Nitrogen	10	-	70	18
Total Suspended Solids	16	-	37	17
Zinc (dissolved)	0.37	-	0.8	0.087
Zinc (total)	0.5	-	0.47	0.15

(Pit 2 Not Discharging - Weir Gate Closed)

**25/08/2017**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	6.5	9	-	4.9
Arsenic (dissolved)	0.001	<0.001	-	<0.001
Arsenic (total)	0.001	<0.001	-	<0.001
Cadmium (dissolved)	0.0002	<0.0001	-	<0.0001
Cadmium (total)	0.0003	0.0003	-	0.0002
Lead (dissolved)	<0.001	<0.001	-	<0.001
Lead (total)	0.001	0.002	-	0.002
Mercury (dissolved)	<0.0001	<0.0001	-	<0.0001
Mercury (total)	<0.0001	<0.0001	-	<0.0001
Nitrate	0.33	0.84	-	0.53
Nitrite	0.012	0.074	-	0.034
Nitrogen (total)	11	17	-	9.7
pH	6.69	7.11	-	6.92
Phosphorus (filterable reactive - ortl)	9.3	6.1	-	4.9
Phosphorus (total)	8.8	6	-	4.7
Sulfate	21	23	-	17
Sulfide (Total)	<0.5	<0.5	-	<0.5
Sulfur	8.4	8.9	-	6.2
Total Kjeldahl Nitrogen	11	17	-	9.2
Total Suspended Solids	11	24	-	8
Zinc (dissolved)	0.068	0.032	-	0.028
Zinc (total)	0.13	0.12	-	0.062

(Pit 3 Not Discharging - Weir Gate Closed)

**06/11/2017**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	1.1	10	4	0.81
Arsenic (dissolved)	<0.001	0.005	<0.001	<0.001
Arsenic (total)	<0.001	0.005	<0.001	<0.001
Cadmium (dissolved)	0.0007	<0.0001	<0.0001	<0.0001
Cadmium (total)	<0.0001	0.0002	<0.0001	<0.0001
Lead (dissolved)	0.002	0.003	<0.001	<0.001
Lead (total)	<0.001	<0.001	<0.001	<0.001
Mercury (dissolved)	<0.0001	<0.0001	<0.0001	<0.0001
Mercury (total)	<0.0001	0.0001	0.0005	<0.0001
Nitrate	0.23	0.5	0.73	0.54
Nitrite	<0.005	0.08	0.059	<0.005
Nitrogen (total)	1.6	17	6.4	1.5
pH	6.24	6.95	6.65	6.65
Phosphorus (filterable reactive - ortl)	1.1	8.3	3.1	0.65
Phosphorus (total)	1.2	7.8	3.1	0.66
Sulfate	4.1	25	15	4.8
Sulfide (Total)	<0.5	<0.5	<0.5	<0.5
Sulfur	1.5	9.3	5.2	1.8
Total Kjeldahl Nitrogen	1.3	16	5.6	0.99
Total Suspended Solids	<5	<5	<5	<5
Zinc (dissolved)	0.078	0.052	0.053	0.023
Zinc (total)	0.067	0.042	0.053	0.018

**26/02/2018**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	3.7	24	1.8	2.1
Arsenic (dissolved)	<0.001	<0.001	<0.001	<0.001
Arsenic (total)	<0.001	<0.001	<0.001	<0.001
Cadmium (dissolved)	0.0003	0.00003	0.0001	0.0001
Cadmium (total)	<0.0001	<0.0001	<0.0001	<0.0001
Lead (dissolved)	0.003	0.003	0.001	0.001
Lead (total)	<0.001	<0.001	<0.001	<0.001
Mercury (dissolved)	<0.0001	<0.0001	<0.0001	<0.0001
Mercury (total)	<0.0001	<0.0001	<0.0001	<0.0001
Nitrate	0.16	0.047	0.56	2.3
Nitrite	0.041	0.035	0.018	0.053
Nitrogen (total)	12	37	3.2	7.4
pH	6.23	6.17	6.29	8.64
Phosphorus (filterable reactive - ortl)	3.2	7.1	1.5	0.91
Phosphorus (total)	3.5	7.8	1.9	1.2
Sulfate	11	7.7	3.2	4.3
Sulfide (Total)	<0.5	<0.5	<0.5	<0.5
Sulfur	3.8	2.5	1.3	1.8
Total Kjeldahl Nitrogen	12	37	2.6	5
Total Suspended Solids	<5	8	6	11
Zinc (dissolved)	0.17	0.11	0.056	0.076
Zinc (total)	0.069	<0.005	0.028	0.03



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**21/03/2018**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	5.7	-	8.5	4.4
Arsenic (dissolved)	<0.001	-	0.001	<0.001
Arsenic (total)	<0.001	-	0.001	<0.001
Cadmium (dissolved)	0.0001	-	<0.0001	0.0001
Cadmium (total)	0.0002	-	0.0001	0.0002
Lead (dissolved)	<0.001	-	<0.001	<0.001
Lead (total)	0.001	-	<0.001	<0.001
Mercury (dissolved)	<0.0001	-	<0.0001	<0.0001
Mercury (total)	<0.0001	-	<0.0001	<0.0001
Nitrate	0.31	-	0.53	1.7
Nitrite	0.019	-	0.016	0.18
Nitrogen (total)	10	-	15	8.5
pH	6.11	-	6.44	6.38
Phosphorus (filterable reactive - ortl)	7.5	-	11	4.6
Phosphorus (total)	7.9	-	11	4.6
Sulfate	13	-	12	13
Sulfide (Total)	<0.5	-	<0.5	<0.5
Sulfur	4.2	-	4	4.2
Total Kjeldahl Nitrogen	9.8	-	15	6.6
Total Suspended Solids	10	-	8	<5
Zinc (dissolved)	0.096	-	0.025	0.066
Zinc (total)	0.15	-	0.061	0.076

(Pit 2 Not Discharging - Weir Gate Closed)

**05/06/2018**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	18	15	11	1.5
Nitrate	0.089	0.1	3.3	1.3
Nitrite	0.015	0.036	0.38	0.053
Nitrogen (total)	24	17	17	4.2
pH	7.24	7.06	6.77	6.83
Phosphorus (filterable reactive - ortl)	26	12	8	1.6
Phosphorus (total)	28	14	8.1	1.8
Sulfate	18	35	24	3.7
Sulfide (Total)	<0.5	0.5	0.8	0.7
Sulfur	7.7	12	8.2	2.5
Total Kjeldahl Nitrogen	24	17	13	2.8
Total Suspended Solids	21	22	<5	<5
Zinc (dissolved)	0.007	0.021	0.046	0.025
Zinc (total)	0.18	0.2	0.17	0.13

**04/09/2018**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	2.2	4.5	14	0.76
Nitrate	0.043	0.14	1.8	0.19
Nitrite	<0.005	0.038	0.085	0.019
Nitrogen (total)	2.9	9.4	30	1.5
pH	7.11	6.92	6.57	6.88
Phosphorus (filterable reactive - ortl)	5.9	4.7	16	0.58
Phosphorus (total)	6.8	6.4	16	0.79
Sulfate	4	22	31	1.8
Sulfide (Total)	<0.5	<0.5	<0.5	<0.5
Sulfur	1	6.6	9.2	0.5
Total Kjeldahl Nitrogen	2.9	9.2	28	1.3
Total Suspended Solids	18	35	7	13
Zinc (dissolved)	0.009	0.034	0.088	0.019
Zinc (total)	0.082	0.17	0.1	0.036

**05/10/2018**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	2.5	-	1.8	0.71
Nitrate	0.26	-	0.066	0.13
Nitrite	0.03	-	0.013	0.008
Nitrogen (total)	4.6	-	3.7	1.4
pH	6.58	-	6.81	6.25
Phosphorus (filterable reactive - ortl)	1.9	-	1.6	0.46
Phosphorus (total)	2.1	-	2.3	0.5
Sulfate	8.5	-	4.7	8.5
Sulfide (Total)	<0.5	-	<0.5	<0.5
Sulfur	3.1	-	1.8	3.2
Total Kjeldahl Nitrogen	4.3	-	3.6	1.3
Total Suspended Solids	8	-	49	<5
Zinc (dissolved)	0.09	-	0.05	0.21
Zinc (total)	0.1	-	0.12	0.21

(Pit 2 Not Discharging - Weir Gate Closed)



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 Sampling requirement : Internal capture pits Monthly on discharge

**29/11/2018**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	2.5	10	8.3	1.8
Nitrate	0.16	0.66	0.66	0.36
Nitrite	0.009	0.34	0.07	0.088
Nitrogen (total)	5.1	22	17	3
pH	6.38	6.66	6.68	6.79
Phosphorus (filterable reactive - ortl)	1.7	6.2	7.4	1.1
Phosphorus (total)	1.7	7	7.8	1.1
Sulfate	12	38	31	5.3
Sulfide (Total)	1.6	<0.5	1.6	1.6
Sulfur	4.4	13	10	11
Total Kjeldahl Nitrogen	4.9	21	16	2.6
Total Suspended Solids	<5	6	7	<5
Zinc (dissolved)	0.096	0.049	0.046	0.04
Zinc (total)	0.081	0.073	0.053	0.047

**17/03/2019**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	7.9	-	-	29
Nitrate	0.42	-	-	7.3
Nitrite	0.05	-	-	1.3
Nitrogen (total)	11	-	-	38
pH	6.69	-	-	7.44
Phosphorus (filterable reactive - ortl)	5.7	-	-	8.3
Phosphorus (total)	5.3	-	-	8.1
Sulfate	31	-	-	88
Sulfide (Total)	<0.5	-	-	<0.5
Sulfur	11	-	-	33
Total Kjeldahl Nitrogen	11	-	-	30
Total Suspended Solids	<5	-	-	<5
Zinc (dissolved)	0.09	-	-	0.017
Zinc (total)	0.087	-	-	0.027

(Pit 2 and 3 Not Discharging - Weir Gate Closed)

**02/04/2019**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	58	17	34	5
Nitrate	0.96	0.32	1.7	5.4
Nitrite	0.98	0.15	0.59	0.18
Nitrogen (total)	69	29	45	11
pH	8.47	6.7	7.88	6.91
Phosphorus (filterable reactive - ortl)	20	16	16	2.7
Phosphorus (total)	20	16	16	2.6
Sulfate	60	46	44	15
Sulfide (Total)	<0.5	<0.5	<0.5	<0.5
Sulfur	20	15	15	6.1
Total Kjeldahl Nitrogen	67	29	43	5.7
Total Suspended Solids	<5	7	<5	<5
Zinc (dissolved)	0.035	0.051	0.033	0.03
Zinc (total)	0.083	0.11	0.087	0.028

**05/05/2019**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	4.6	20	3.4	2.5
Nitrate	0.26	0.33	0.088	0.34
Nitrite	0.017	0.34	0.039	0.013
Nitrogen (total)	5.8	25	5	3.4
pH	7.05	7.34	6.99	6.97
Phosphorus (filterable reactive - ortl)	5.7	20	4.3	2.7
Phosphorus (total)	5.4	20	4	2.8
Sulfate	5.3	16	2.4	2.5
Sulfide (Total)	<0.5	<0.5	<0.5	<0.5
Sulfur	1.8	5	0.8	1
Total Kjeldahl Nitrogen	5.6	24	4.9	3
Total Suspended Solids	<5	9	<5	<5
Zinc (dissolved)	0.035	0.077	0.021	0.018
Zinc (total)	0.03	0.075	0.019	0.016

**04/06/2019**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	3.5	19	12	44
Nitrate	0.32	0.51	0.84	0.93
Nitrite	0.021	0.56	0.15	0.12
Nitrogen (total)	5.4	35	47	160
pH	4.08	6.86	6.8	9.04
Phosphorus (filterable reactive - ortl)	4.5	19	11	4.4
Phosphorus (total)	4	18	9.7	4.3
Sulfate	6	25	19	5.4
Sulfide (Total)	<0.5	<0.5	0.6	<0.5
Sulfur	2.2	8	6.3	1.7
Total Kjeldahl Nitrogen	5.1	34	46	160
Total Suspended Solids	<5	10	7	12
Zinc (dissolved)	0.059	0.034	0.041	0.015
Zinc (total)	0.059	0.072	0.065	0.062

**30/08/2019**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	0.88	9.9	1.2	2.5
Nitrate	0.22	0.26	0.052	0.36
Nitrite	0.011	0.12	0.008	0.37
Nitrogen (total)	1.8	17	1.8	11
pH	7	7.45	7.41	7.34
Phosphorus (filterable reactive - ortl)	1	4.8	1.7	1
Phosphorus (total)	1	4.8	1.6	1
Sulfate	3.1	12	1.5	2.7
Sulfide (Total)	<0.5	1.5	0.6	<0.5
Sulfur	0.9	4.1	0.5	1
Total Kjeldahl Nitrogen	1.5	17	1.7	11
Total Suspended Solids	14	26	6	<5
Zinc (dissolved)	0.039	0.019	0.01	0.011
Zinc (total)	0.045	0.11	0.028	0.02



Impact Fertilisers 107 Greenleaf Road Kooragang NSW EPA Licence 5430  
 Sampling requirement : Internal capture pits Monthly on discharge

**18/09/2019**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	2.8	22	4.6	2.6
Nitrate	0.53	0.34	0.67	0.44
Nitrite	0.042	0.16	0.072	0.078
Nitrogen (total)	6.1	30	13	4.5
pH	6.68	8.11	6.84	6.75
Phosphorus (filterable reactive - ortl)	2.2	5.7	3	1.6
Phosphorus (total)	2.3	6.4	2.9	1.7
Sulfate	6.8	17	19	6.34
Sulfide (Total)	0.9	1.1	1	1
Sulfur	2.7	5.9	3.8	2.5
Total Kjeldahl Nitrogen	5.5	30	12	4
Total Suspended Solids	<5	12	11	5
Zinc (dissolved)	0.05	0.031	0.021	0.027
Zinc (total)	0.052	0.11	0.039	0.03

**12/10/2019**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	2.7	61	15	2.7
Nitrate	0.89	<0.005	0.16	0.89
Nitrite	0.09	<0.005	0.12	0.27
Nitrogen (total)	5.3	66	21	5.1
pH	6.32	7.54	6.7	6.6
Phosphorus (filterable reactive - ortl)	2.5	23	6.1	1.5
Phosphorus (total)	2.6	21	6.3	1.5
Sulfate	11	66	25	5.4
Sulfide (Total)	0.6	0.9	0.6	0.8
Sulfur	3.8	22	8.9	1.8
Total Kjeldahl Nitrogen	4.3	66	21	3.9
Total Suspended Solids	12	<5	6	<5
Zinc (dissolved)	0.12	0.059	0.036	0.029
Zinc (total)	0.11	0.071	0.036	0.031

**09/02/2020**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	1.1	6.9	3.1	5.7
Nitrate	0.099	0.23	11	6.8
Nitrite	0.009	0.046	0.075	0.48
Nitrogen (total)	1.7	9.7	16	14
pH	5.8	6.8	6.48	7.42
Phosphorus (filterable reactive - ortl)	0.92	5.2	2.4	0.96
Phosphorus (total)	0.97	5.5	2.5	0.98
Sulfate	12	17	20	11
Sulfide (Total)	0.9	<0.5	1.4	0.6
Sulfur	4.2	5.9	7.1	4.5
Total Kjeldahl Nitrogen	1.6	9.5	5.2	6.5
Total Suspended Solids	<5	5	8	<5
Zinc (dissolved)	0.17	0.03	0.11	0.075
Zinc (total)	0.15	0.039	0.11	0.055

**06/03/2020**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	4.9	6.2	3.7	0.18
Nitrate	0.2	0.12	0.091	0.038
Nitrite	0.0254	0.023	0.01	<0.005
Nitrogen (total)	5.7	8.3	4.4	0.31
pH	6.55	6.62	6.74	6.6
Phosphorus (filterable reactive - ortl)	6.2	8.2	4.3	0.11
Phosphorus (total)	6.8	8.9	4.7	0.11
Sulfate	6.9	6.7	3.2	<1
Sulfide (Total)	1.1	0.9	1.1	0.6
Sulfur	2.2	2.2	1	0.2
Total Kjeldahl Nitrogen	5.5	8.2	4.3	0.27
Total Suspended Solids	8	<5	<5	<5
Zinc (dissolved)	0.031	0.018	0.015	0.021
Zinc (total)	0.052	0.057	0.04	0.019

**25/05/2020**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	4.1	-	8.5	4.7
Nitrate	0.47	-	1.1	0.54
Nitrite	0.057	-	0.27	0.12
Nitrogen (total)	8.5	-	17	9.1
pH	6.62	-	7.19	6.86
Phosphorus (filterable reactive - ortl)	2.3	-	5.7	3.7
Phosphorus (total)	2.6	-	6.9	4.4
Sulfate	12	-	12	14
Sulfide (Total)	<0.5	-	<0.5	<0.5
Sulfur	4.3	-	4.2	4.8
Total Kjeldahl Nitrogen	8	-	15	8.4
Total Suspended Solids	6	-	27	12
Zinc (dissolved)	0.18	-	0.012	0.16
Zinc (total)	0.13	-	0.063	0.23

**10/06/2020**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	3.5	8	1.9	1.2
Nitrate	0.088	0.059	0.02	0.082
Nitrite	0.008	0.015	<0.005	0.026
Nitrogen (total)	10	19	2.8	6.9
pH	6.71	7.34	7.21	6.94
Phosphorus (filterable reactive - ortl)	1.3	4.6	0.9	0.56
Phosphorus (total)	1.4	5.9	0.95	0.64
Sulfate	13	16	1.4	2.3
Sulfide (Total)	<0.5	<0.5	<0.5	<0.5
Sulfur	4.6	5.4	0.5	0.8
Total Kjeldahl Nitrogen	10	19	2.8	6.8
Total Suspended Solids	<5	6	<5	<5
Zinc (dissolved)	0.056	0.038	0.029	0.12
Zinc (total)	0.056	0.1	0.017	0.12

(Pit 2 Not Discharging - Weir Gate Closed)



Impact Fertilisers 107 Greenleaf Road Kooragang NSW EPA Licence 5430  
 Sampling requirement : Internal capture pits Monthly on discharge

**14/07/2020**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	0.76	4.4	8	1.9
Nitrate	0.11	0.2	0.19	0.15
Nitrite	<0.005	0.029	0.03	0.027
Nitrogen (total)	1.4	10	16	3.3
pH	6.42	6.75	7.99	7.23
Phosphorus (filterable reactive - ortl	0.4	1.8	1.8	0.43
Phosphorus (total)	0.53	2.3	2.1	0.59
Sulfate	12	12	16	12
Sulfide (Total)	<0.5	<0.5	<0.5	<0.5
Sulfur	3.5	3.4	4.8	3.5
Total Kjeldahl Nitrogen	1.3	10	16	3.1
Total Suspended Solids	<5	<5	6	<5
Zinc (dissolved)	0.22	0.066	0.058	0.19
Zinc (total)	0.2	0.13	0.13	0.18

**26/10/2020**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	0.99	2.9	3.3	3.6
Nitrate	0.053	0.22	0.036	0.41
Nitrite	0.007	0.077	0.01	0.13
Nitrogen (total)	4.7	6.8	4.4	6.8
pH	7.04	7.28	8.32	6.59
Phosphorus (filterable reactive - ortl	0.96	2.7	1.2	2.6
Phosphorus (total)	1.4	2.9	1.5	3
Sulfate	4.5	13	2.4	11
Sulfide (Total)	<0.5	<0.5	<0.5	<0.5
Sulfur	3.6	4.3	1.1	4.2
Total Kjeldahl Nitrogen	4.7	6.5	4.3	6.3
Total Suspended Solids	9	5	7	9
Zinc (dissolved)	0.042	0.024	0.025	0.05
Zinc (total)	0.081	0.044	0.07	0.065

**05/11/2020**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	4.5	5.4	3	1.9
Nitrate	0.31	0.14	0.083	0.31
Nitrite	0.024	0.054	0.008	0.037
Nitrogen (total)	8.1	15	3.8	3
pH	6.86	7.49	7.1	7.09
Phosphorus (filterable reactive - ortl	4.6	3.5	2.4	0.88
Phosphorus (total)	5.1	3.5	2.5	0.94
Sulfate	9.1	9.4	3.6	3.3
Sulfide (Total)	<0.5	<0.5	<0.5	<0.5
Sulfur	2.8	3	1.1	1
Total Kjeldahl Nitrogen	7.8	15	3.7	2.6
Total Suspended Solids	<0.5	<0.5	<0.5	<0.5
Zinc (dissolved)	0.027	0.008	0.011	0.012
Zinc (total)	0.068	0.032	0.025	0.014

**21/12/2020**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	1.9	12	4.3	1.3
Nitrate	0.43	0.085	0.29	0.39
Nitrite	0.039	0.24	0.022	0.042
Nitrogen (total)	3.5	37	5.2	2.3
pH	7.82	7	7.29	7.28
Phosphorus (filterable reactive - ortl	2.1	5.7	1.8	1.7
Phosphorus (total)	2.2	6.3	1.9	1.7
Sulfate	5.6	36	7.4	2.4
Sulfide (Total)	0.8	<0.5	<0.5	0.6
Sulfur	2.2	14	3	1
Total Kjeldahl Nitrogen	3.1	36	4.9	1.9
Total Suspended Solids	9	5	7	5
Zinc (dissolved)	0.063	0.041	0.034	0.032
Zinc (total)	0.093	0.17	0.063	0.046

**28/01/2021**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	1.2	6.4	1.6	1.5
Nitrate	0.16	0.51	0.65	1
Nitrite	0.021	0.19	0.1	0.16
Nitrogen (total)	3	15	3	3.2
pH	6.43	7.02	6.83	6.76
Phosphorus (filterable reactive - ortl	0.84	4.9	1.1	0.49
Phosphorus (total)	0.88	5.1	1.2	0.54
Sulfate	4.9	21	3.9	2.9
Sulfide (Total)	<0.5	<0.5	<0.5	<0.5
Sulfur	1.7	7.1	1.3	1
Total Kjeldahl Nitrogen	2.8	14	2.2	2
Total Suspended Solids	5	7	<5	5
Zinc (dissolved)	0.052	0.025	0.019	0.021
Zinc (total)	0.049	0.027	0.019	0.02

**15/03/2021**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	9.4	18	16	20
Nitrate	0.089	0.036	0.13	6.7
Nitrite	0.041	0.3	0.032	0.93
Nitrogen (total)	16	42	23	33
pH	6.45	7.25	6.83	6.82
Phosphorus (filterable reactive - ortl	7.5	15	16	11
Phosphorus (total)	8.1	15	17	13
Sulfate	29	28	21	38
Sulfide (Total)	<0.5	<0.5	<0.5	<0.5
Sulfur	9.9	9.3	7.6	13
Total Kjeldahl Nitrogen	16	42	23	26
Total Suspended Solids	12	10	13	5
Zinc (dissolved)	0.096	0.018	0.024	0.023
Zinc (total)	0.11	0.073	0.036	0.027



Impact Fertilisers 107 Greenleaf Road Kooragang NSW EPA Licence 5430  
 Sampling requirement : Internal capture pits Monthly on discharge

**21/05/2021**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	3.1	2.3	1.3	3.4
Nitrate	0.47	0.42	0.14	1
Nitrite	0.026	0.11	0.013	0.6
Nitrogen (total)	5.5	3.8	3	5.8
pH	7.12	7.16	7.16	7.04
Phosphorus (filterable reactive - ortl)	4.3	3	2.5	3.2
Phosphorus (total)	5.1	3.2	3.1	3.4
Sulfate	11	5.7	2.8	5.9
Sulfide (Total)	<0.5	<0.5	<0.5	<0.5
Sulfur	3.8	2.2	1.1	2.2
Total Kjeldahl Nitrogen	5	3.3	2.8	4.2
Total Suspended Solids	<5	5	12	<5
Zinc (dissolved)	0.037	0.034	0.026	0.027
Zinc (total)	0.096	0.11	0.2	0.081

**24/08/2021**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	0.64	15	1.5	1.9
Nitrate	0.047	<0.005	0.095	2.7
Nitrite	0.009	<0.005	0.13	0.1
Nitrogen (total)	1.1	18	3.9	7.7
pH	7	7.88	7.06	6.97
Phosphorus (filterable reactive - ortl)	0.11	4.2	1	1.5
Phosphorus (total)	0.16	5.3	1.4	1.7
Sulfate	1.1	11	2.8	5.3
Sulfide (Total)	<0.5	<0.5	<0.5	<0.5
Sulfur	0.5	3.7	1	1.8
Total Kjeldahl Nitrogen	1.1	18	3.7	4.9
Total Suspended Solids	<5	12	5	13
Zinc (dissolved)	0.022	0.028	0.04	0.052
Zinc (total)	0.031	0.14	0.15	0.083

**14/09/2021**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	1.5	7.2	1.2	1
Nitrate	0.29	0.66	0.095	0.27
Nitrite	0.025	0.25	0.01	0.02
Nitrogen (total)	3.3	21	2.2	1.9
pH	6.83	7.19	7.04	6.74
Phosphorus (filterable reactive - ortl)	1.8	3.5	1	0.95
Phosphorus (total)	1.7	3.4	1.2	0.9
Sulfate	6.3	15	3.3	2
Sulfide (Total)	<0.5	<0.5	<0.5	<0.5
Sulfur	2.4	5.6	1.3	0.8
Total Kjeldahl Nitrogen	3	20	2.1	1.6
Total Suspended Solids	8	8	16	5
Zinc (dissolved)	0.058	0.041	0.025	0.021
Zinc (total)	0.1	0.14	0.18	0.054

**11/10/2021**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	26	44	22	1.8
Nitrate	0.42	0.87	0.3	<0.5
Nitrite	0.2	0.43	0.15	0.084
Nitrogen (total)	32	97	40	3.1
pH	8.08	8.36	8.22	6.96
Phosphorus (filterable reactive - ortl)	4.1	4.1	1.7	0.67
Phosphorus (total)	4.5	4.5	1.8	0.75
Sulfate	14	54	21	2.1
Sulfide (Total)	<0.5	<0.5	<0.5	<0.5
Sulfur	5.1	18	7.6	0.8
Total Kjeldahl Nitrogen	31	96	40	2.6
Total Suspended Solids	7	<5	<5	8
Zinc (dissolved)	0.035	0.013	0.014	0.013
Zinc (total)	0.055	0.041	0.028	0.017

**08/11/2021**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	4.1	10	2.7	7.9
Nitrate	0.65	1.6	0.42	0.52
Nitrite	0.3	0.94	0.13	0.06
Nitrogen (total)	7.3	19	5.9	9.6
pH	6.74	7.04	7.06	7.95
Phosphorus (filterable reactive - ortl)	2.4	6	1.7	2.2
Phosphorus (total)	2.2	6	1.8	2.1
Sulfate	9.5	35	6.6	6.3
Sulfide (Total)	<0.5	<0.5	<0.5	<0.5
Sulfur	2.7	10	1.5	18
Total Kjeldahl Nitrogen	6.4	16	5.3	9
Total Suspended Solids	<5	<5	12	<5
Zinc (dissolved)	57	0.025	0.038	0.016
Zinc (total)	0.044	0.039	0.1	0.027

**19/01/2022**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	1.2	5.8	2.8	6.7
Nitrate	0.087	0.15	0.11	0.29
Nitrite	0.005	0.17	0.008	0.025
Nitrogen (total)	2	12	3.9	8.2
pH	6.58	7.01	7.07	7.13
Phosphorus (filterable reactive - ortl)	2	9.6	2.7	2.6
Phosphorus (total)	2.4	10	3.3	3
Sulfate	2.2	11	6.3	19
Sulfide (Total)	<0.5	0.6	<0.5	0.6
Sulfur	0.8	3.7	2.2	6.7
Total Kjeldahl Nitrogen	1.9	11	3.8	7.9
Total Suspended Solids	<5	9	<5	<5
Zinc (dissolved)	0.018	0.015	0.018	0.018
Zinc (total)	0.082	0.087	0.08	0.064





Impact Fertilisers 107 Greenleaf Road Kooragang NSW EPA Licence 5430  
 Sampling requirement : Internal capture pits Monthly on discharge

**04/02/2022**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	5.2	9.1	1.4	1.1
Nitrate	0.15	0.3	0.17	0.48
Nitrite	0.13	0.15	0.009	0.016
Nitrogen (total)	6.1	11	1.7	1.7
pH	7.45	7.67	7.45	7.04
Phosphorus (filterable reactive - ortl	4.6	6.1	1.2	0.86
Phosphorus (total)	4.9	7.1	1.3	0.97
Sulfate	7.2	12	2	3.3
Sulfide (Total)	<0.5	<0.5	<0.5	<0.5
Sulfur	2.7	4.5	0.7	1.2
Total Kjeldahl Nitrogen	5.8	11	1.5	1.2
Total Suspended Solids	<5	<5	<5	<5
Zinc (dissolved)	0.023	0.01	0.009	0.015
Zinc (total)	0.029	0.058	0.023	0.016

**03/03/2022**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	1.4	21	0.9	1.1
Nitrate	0.074	0.14	0.49	1.2
Nitrite	0.014	0.072	0.011	0.018
Nitrogen (total)	4.8	33	1.9	3.8
pH	7.02	7.05	7.05	6.76
Phosphorus (filterable reactive - ortl	2.3	17	1	1
Phosphorus (total)	2.8	19	1.6	1.3
Sulfate	11	54	4.3	8
Sulfide (Total)	<0.5	<0.5	<0.5	<0.5
Sulfur	3.4	17	1.3	2.5
Total Kjeldahl Nitrogen	4.8	33	1.4	2.7
Total Suspended Solids	7	23	5	<5
Zinc (dissolved)	0.019	0.011	0.008	0.01
Zinc (total)	0.079	0.21	0.065	0.037

**23/05/2022**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	1.6	29	15	0.2
Nitrate	0.23	0.22	0.57	0.023
Nitrite	0.033	0.19	0.018	<0.005
Nitrogen (total)	2.5	150	150	0.42
pH	6.99	7.38	7.23	6.42
Phosphorus (filterable reactive - ortl	2.1	18	22	0.027
Phosphorus (total)	2.3	23	29	0.07
Sulfate	2.3	58	28	<1
Sulfide (Total)	0.9	0.8	0.8	0.7
Sulfur	1	21	22	0.3
Total Kjeldahl Nitrogen	2.2	150	150	0.39
Total Suspended Solids	<5	23	23	<5
Zinc (dissolved)	0.025	0.014	0.022	0.018
Zinc (total)	0.045	0.24	0.24	0.018

**05/07/2022**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	0.8	27	5	1.3
Nitrate	0.08	0.36	0.87	1
Nitrite	0.012	0.18	0.025	0.029
Nitrogen (total)	1.3	90	9	2.6
pH	6.88	7.22	7.04	6.75
Phosphorus (filterable reactive - ortl	0.9	17	7	1.1
Phosphorus (total)	1	17	7	1.6
Sulfate	2.9	52	28	6.8
Sulfide (Total)	<0.5	<0.5	<0.5	<0.5
Sulfur	0.9	16	9	2.1
Total Kjeldahl Nitrogen	1.3	90	8	1.5
Total Suspended Solids	<5	<5	<5	<5
Zinc (dissolved)	0.021	0.014	0.017	0.031
Zinc (total)	0.03	0.06	0.033	0.025

**15/09/2022**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	0.7	0.6	0.9	1
Nitrate	0.071	4	1.2	4.4
Nitrite	<0.005	2.1	0.17	0.06
Nitrogen (total)	0.74	94	5.6	5.3
pH	6.31	8.63	7.38	7.07
Phosphorus (filterable reactive - ortl	0.03	8.1	0.69	0.6
Phosphorus (total)	0.05	7.9	0.8	0.66
Sulfate	1.3	52	18	23
Sulfide (Total)	0.5	17	6.7	8.3
Sulfur	0.045	0.048	0.038	0.037
Total Kjeldahl Nitrogen	0.67	88	4.2	0.82
Total Suspended Solids	<5	<5	5	<5
Zinc (dissolved)	1.3	52	18	23
Zinc (total)	0.058	0.023	0.039	0.045

**09/10/2022**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	2.3	47	25	12
Nitrate	0.21	0.69	0.6	0.33
Nitrite	0.024	0.76	0.09	0.016
Nitrogen (total)	3.9	54	28	12
pH	6.55	8.75	8.72	5.58
Phosphorus (filterable reactive - ortl	1.3	14	3.7	1.5
Phosphorus (total)	1.6	14	3.8	1.6
Sulfate	5.9	23	15	43
Sulfide (Total)	<0.5	<0.5	<0.5	<0.5
Sulfur	2	7.9	5.2	15
Total Kjeldahl Nitrogen	3.7	52	27	12
Total Suspended Solids	<5	<5	<5	<5
Zinc (dissolved)	0.09	0.035	0.089	0.63
Zinc (total)	0.095	0.11	0.11	0.63



Impact Fertilisers 107 Greenleaf Road Kooragang NSW EPA Licence 5430  
 Sampling requirement : Internal capture pits Monthly on discharge

**14/03/2023**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	2.9	38	25	6
Nitrate	0.24	2.4	0.55	0.41
Nitrite	0.045	1.5	0.07	0.052
Nitrogen (total)	3.6	89	120	8.1
pH	7.59	7.38	7.48	7.4
Phosphorus (filterable reactive - ortl	0.23	19	9	1.2
Phosphorus (total)	0.43	18	9	1.2
Sulfate	4.6	76	60	7
Sulfide (Total)	0.8	0.7	0.9	0.9
Sulfur	0.1	27	21	2.2
Total Kjeldahl Nitrogen	3.3	85	120	7.6
Total Suspended Solids	19	<5	<5	<5
Zinc (dissolved)	0.054	0.02	0.021	0.024
Zinc (total)	0.08	0.064	0.052	0.029

**05/04/2023**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	2.5	17	4	1
Nitrate	0.49	0.81	2.4	0.99
Nitrite	0.2	0.65	0.096	0.015
Nitrogen (total)	3.7	58	7	2.2
pH	6.86	7.25	6.92	6.64
Phosphorus (filterable reactive - ortl	1.6	11	3	0.7
Phosphorus (total)	1.6	11	2.5	0.7
Sulfate	4.5	25	15	5
Sulfide (Total)	2	1.6	2	1
Sulfur	1.6	9	5	1.7
Total Kjeldahl Nitrogen	3	56	5	1.2
Total Suspended Solids	<5	<5	<5	<5
Zinc (dissolved)	0.04	0.041	0.034	0.027
Zinc (total)	0.039	0.032	0.039	0.024

**17/05/2023**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	5.1	-	8	2
Nitrate	0.92	-	1.6	0.79
Nitrite	0.079	-	0.11	0.06
Nitrogen (total)	14	-	19	7.5
pH	6.4	-	6.71	6.51
Phosphorus (filterable reactive - ortl	3.3	-	6	0.8
Phosphorus (total)	3.3	-	6.1	0.8
Sulfate	17	-	33	9
Sulfide (Total)	0.8	-	<0.5	0.8
Sulfur	5.6	-	11	3
Total Kjeldahl Nitrogen	13	-	18	6.7
Total Suspended Solids	<5	-	<5	<5
Zinc (dissolved)	0.14	-	0.1	0.11
Zinc (total)	0.14	-	0.1	0.09

(Pit 2 Not Discharging - Weir Gate Closed)

**14/08/2023**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	6.6	-	10	7
Nitrate	0.7	-	0.37	1
Nitrite	0.05	-	0.027	0.047
Nitrogen (total)	14	-	17	11
pH	7.28	-	7.56	7.33
Phosphorus (filterable reactive - ortl	3.7	-	10	4.3
Phosphorus (total)	3.6	-	11	4.1
Sulfate	7.3	-	6.2	6
Sulfide (Total)	<0.5	-	<0.5	<0.5
Sulfur	2.7	-	2	2.3
Total Kjeldahl Nitrogen	14	-	16	9.8
Total Suspended Solids	<5	-	7	<5
Zinc (dissolved)	0.047	-	0.016	0.019
Zinc (total)	0.062	-	0.22	0.027

(Pit 2 Not Discharging - Weir Gate Closed)

**26/10/2023**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	1.6	8.7	1.4	1.6
Nitrate	0.79	1	0.096	0.56
Nitrite	0.013	0.45	0.006	0.017
Nitrogen (total)	4.1	24	2.2	3.5
pH	6.45	6.52	6.77	6.51
Phosphorus (filterable reactive - ortl	1	5.1	0.7	0.68
Phosphorus (total)	1.6	7.4	1.1	0.94
Sulfate	7.3	23	1.8	4
Sulfide (Total)	<0.5	<0.5	<0.5	<0.5
Sulfur	2.7	8.3	0.7	1.6
Total Kjeldahl Nitrogen	3.3	23	2.1	3
Total Suspended Solids	54	48	11	8
Zinc (dissolved)	0.098	0.086	0.022	0.041
Zinc (total)	0.18	0.38	0.058	0.075

**05/11/2023**

Analyte	Pit 1	Pit 2	Pit 3	Pit 4
Ammonia	1.4	13	1	1.4
Nitrate	0.47	2.5	0.21	0.35
Nitrite	0.01	0.73	0.008	0.015
Nitrogen (total)	2.8	32	2.1	2.3
pH	6.44	6.63	6.73	6.33
Phosphorus (filterable reactive - ortl	0.9	7.3	0.9	0.7
Phosphorus (total)	0.9	7.2	0.9	0.7
Sulfate	5.9	31	1.9	2.3
Sulfide (Total)	<0.5	<0.5	0.6	<0.5
Sulfur	2.1	11	1	1.7
Total Kjeldahl Nitrogen	2.3	29	1.9	1.9
Total Suspended Solids	25	19	12	11
Zinc (dissolved)	0.082	0.072	0.025	0.063
Zinc (total)	0.077	0.11	0.031	0.047



Impact Fertilisers 107 Greenleaf Road Kooragang NSW EPA Licence 5430  
Sampling requirement : Internal capture pits Monthly on discharge

16/02/2024

<u>Analyte</u>	<u>Pit 1</u>	<u>Pit 2</u>	<u>Pit 3</u>	<u>Pit 4</u>
Ammonia	1.8	18	68	3.2
Nitrate	2	1	0.96	3.1
Nitrite	0.015	4.3	1.7	0.27
Nitrogen (total)	5.1	31	96	8.1
pH	6.1	7.76	8.76	7.39
Phosphorus (filterable reactive - ortl	1.2	5.9	8.8	0.94
Phosphorus (total)	1.3	5.1	8	0.85
Sulfate	7	21	27	7.2
Sulfide (Total)	<0.5	0.6	<0.5	<0.5
Sulfur	2.1	9	8.4	2.1
Total Kjeldahl Nitrogen	3.1	26	94	4.8
Total Suspended Solids	8	6	8	5
Zinc (dissolved)	0.029	0.014	0.009	0.16
Zinc (total)	0.044	0.045	0.047	0.21

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