

Licence No: 1580

Link to licence: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=29021&SYSUID=1&LICID=1580>

licensee's name: NESTLE AUSTRALIA LTD

licensee's address: Rawson Street Smithtown, NSW 2440

Location of monitoring point: Drain discharging to Macleay River approx. 52m from the northern boundary and marked as "DP001" on drawing titled "Nestle Site Plan" submitted with Licence Information form dated 27/1/00

### Monitoring Period : Jan-17

External Lab Analysis

Sampled: 18/01/2017

Results: 19/01/2017

Monthly Measure	Unit	Sample Frequency	Lower Limit	Upper Limit	Result	Exceed (Y/N)
pH	pH	Monthly	6.5	8.5	8.49	N
TSS	mg/L	Monthly	Lab Result		3	N
TSS (calculated)	kg/day	Monthly	0	24	0.7	N
BOD	mg/L	Monthly	0	20	1.0	N
Oils and Grease	mg/L	Monthly	0	10	4	N

Daily Onsite Analysis

Daily Summarised Measure	Unit	Sample	Upper Limit	Min	Max	Median	Mean	Exceed
Discharge Volume	kL/day	daily	800	75	329	240	232	N
Daily TSS	kg/day	daily	24	1.2	9.8	4.1	4.2	N

mg: milligram

L: Litre

TSS: Total Suspended Solids

kg: kilogram

BOD: Biological Oxygen Demand

kL: kilolitre

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### Monitoring Period : Feb-17

External Lab Analysis

Sampled: 15/02/2017

Results: 16/02/2017

Monthly Measure	Unit	Sample Frequency	Lower Limit	Upper Limit	Result	Exceed (Y/N)
pH	pH	Monthly	6.5	8.5	8.18	N
TSS	mg/L	Monthly	Lab Result		3	N
TSS (calculated)	kg/day	Monthly	0	24	0.9	N
BOD	mg/L	Monthly	0	20	1	N
Oils and Grease	mg/L	Monthly	0	10	<2	N

Daily Onsite Analysis

Daily Summarised Measure	Unit	Sample Frequency	Upper Limit	Min	Max	Median	Mean	Exceed
Discharge Volume	kL/day	daily	800	0	420	195	163.46	N
Daily TSS	kg/day	daily	24	0	56.28	5.4	9.7	N

mg: milligram

L: Litre

TSS: Total Suspended Solids

kg: kilogram

BOD: Biological Oxygen Demand

kL: kilolitre

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### Monitoring Period : Mar-17

External Lab Analysis

Sampled: 15/03/2017

Results: 16/03/2017

Monthly Measure	Unit	Sample Frequency	Lower Limit	Upper Limit	Result	Exceed (Y/N)
pH	pH	Monthly	6.5	8.5	8.21	N
TSS	mg/L	Monthly	Lab Result		3	N
TSS (calculated)	kg/day	Monthly	0	24	0.7	N
BOD	mg/L	Monthly	0	20	2	N
Oils and Grease	mg/L	Monthly	0	10	4	N

Daily Onsite Analysis

Daily Summarised Measure	Unit	Sample Frequency	Upper Limit	Min	Max	Median	Mean	Exceed
Discharge Volume	kL/day	daily	800	127	346	240	248	N
Daily TSS	kg/day	daily	24	0.6	16	7.6	7.7	N

mg: milligram

L: Litre

TSS: Total Suspended Solids

kg: kilogram

BOD: Biological Oxygen Demand

kL: kilolitre

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### Monitoring Period : Apr-17

External Lab Analysis

Sampled: 19/04/2017

Results: 20/04/2017

Monthly Measure	Unit	Sample Frequency	Lower Limit	Upper Limit	Result	Exceed (Y/N)
pH	pH	Monthly	6.5	8.5	8.29	N
TSS	mg/L	Monthly	Lab Result		9	N
TSS (calculated)	kg/day	Monthly	0	24	0.7	N
BOD	mg/L	Monthly	0	20	3	N
Oils and Grease	mg/L	Monthly	0	10	6	N

Daily Onsite Analysis

Daily Summarised	Unit	Sample	Upper Limit	Min	Max	Median	Mean	Exceed
Discharge Volume	kL/day	daily	800	30	323	151	169.2	N
Daily TSS	kg/day	daily	24	0.3	9.9	1.3	2.1	N

mg: milligram

L: Litre

TSS: Total Suspended Solids

kg: kilogram

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### Monitoring Period : May-17

External Lab Analysis

Sampled: 18/05/2017

Results: 19/05/2017

Monthly Measure	Unit	Sample Frequency	Lower Limit	Upper Limit	Result	Exceed (Y/N)
pH	pH	Monthly	6.5	8.5	8.26	N
TSS	mg/L	Monthly	Lab Result		3	N
TSS (calculated)	kg/day	Monthly	0	24	0.6	N
BOD	mg/L	Monthly	0	20	1	N
Oils and Grease	mg/L	Monthly	0	10	<2	N

Daily Onsite Analysis

Daily Summarised	Unit	Sample	Upper Limit	Min	Max	Median	Mean	Exceed
Discharge Volume	kL/day	daily	800	0	346	210	197	N
Daily TSS	kg/day	daily	24	0	3.2	1.3	1.3	N

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L: Litre

TSS: Total Suspended Solids

kg: kilogram

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### Monitoring Period : Jun-17

External Lab Analysis

Sampled: 21/06/2017

Results: 22/06/2017

Monthly Measure	Unit	Sample Frequency	Lower Limit	Upper Limit	Result	Exceed (Y/N)
pH	pH	Monthly	6.5	8.5	8.25	N
TSS	mg/L	Monthly	Lab Result		18	N
TSS (calculated)	kg/day	Monthly	0	24	2.7	N
BOD	mg/L	Monthly	0	20	2	N
Oils and Grease	mg/L	Monthly	0	10	<2	N

Daily Onsite Analysis

Daily Summarised Measure	Unit	Sample Frequency	Upper Limit	Min	Max	Median	Mean	Exceed
Discharge Volume	kL/day	daily	800	150	226	192	190	N
Daily TSS	kg/day	daily	24	0.2	1.9	0.8	0.9	N

mg: milligram

L: Litre

TSS: Total Suspended Solids

kg: kilogram

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### Monitoring Period : Jul-17

External Lab Analysis

Sampled: 20/07/2017

Results: 21/07/2017

Monthly Measure	Unit	Sample Frequency	Lower Limit	Upper Limit	Result	Exceed (Y/N)
pH	pH	Monthly	6.5	8.5	8.14	N
TSS	mg/L	Monthly	Lab Result		2	N
TSS (calculated)	kg/day	Monthly	0	24	0.2	N
BOD	mg/L	Monthly	0	20	0.9	N
Oils and Grease	mg/L	Monthly	0	10	<2	N

Daily Onsite Analysis

Daily Summarised Measure	Unit	Sample Frequency	Upper Limit	Min	Max	Median	Mean	Exceed
Discharge Volume	kL/day	daily	800	75	285	195	196.25	N
Daily TSS	kg/day	daily	24	0.1	2.9	0.7	0.8	N

mg: milligram

L: Litre

TSS: Total Suspended Solids

kg: kilogram

BOD: Biological Oxygen Demand

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### Monitoring Period : Aug-17

External Lab Analysis

Sampled: 22/08/2017

Results: 23/08/2017

Monthly Measure	Unit	Sample Frequency	Lower Limit	Upper Limit	Result	Exceed (Y/N)
pH	pH	Monthly	6.5	8.5	8.24	N
TSS	mg/L	Monthly	Lab Result		3	N
TSS (calculated)	kg/day	Monthly	0	24	0.7	N
BOD	mg/L	Monthly	0	20	1	N
Oils and Grease	mg/L	Monthly	0	10	3.4	N

Daily Onsite Analysis

Daily Summarised Measure	Unit	Sample Frequency	Upper Limit	Min	Max	Median	Mean	Exceed
Discharge Volume	kL/day	daily	800	49	394	240	219	N
Daily TSS	kg/day	daily	24	0.2	3.0	1.0	1.2	N

mg: milligram

L: Litre

TSS: Total Suspended Solids

kg: kilogram

BOD: Biological Oxygen Demand

kL: kilolitre



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### Monitoring Period : Sep-17

External Lab Analysis

Sampled: 20/09/2017

Results: 21/09/2017

Monthly Measure	Unit	Sample Frequency	90 Percentile Concentration Limit	100 Percentile Concentration Limit	Result	Exceed (Y/N)
pH	pH	Monthly	-	6.5-8.5	8.15	N
TSS	mg/L	Monthly	15	30	3	N
BOD	mg/L	Monthly	10	20	2	N
Oils and Grease	mg/L	Monthly	5	10	<2	N
Nitrogen (ammonia)	mg/L	Monthly	2	5	0.2	N
Nitrogen (Total)	mg/L	Monthly	10	20	1.6	N
Phosphorus (Total)	mg/L	Monthly	Sample only		10.4	N

Daily Onsite Analysis

Daily Summarised Measure	Unit	Sample Frequency	Upper Limit	Min	Max	Median	Mean	Exceed (Y/N)
Discharge Volume	kL/day	daily	800	75	300	166.5	179.23	N

mg:

milligram

L: Litre

TSS: Total Suspended Solids

kg: kilogram

BOD: Biological Oxygen Demand

kL: kilolitre

percentile:

percentage (e.g.90%) of the number of samples taken that must meet the concentration limit specified in the licence for the pollutant over a specified period of time.

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### Monitoring Period : Oct-17

External Lab Analysis

Sampled: 18/10/2017

Results: 19/10/2017

Monthly Measure	Unit	Sample Frequency	90 Percentile Concentration Limit	100 Percentile Concentration Limit	Result	Exceed (Y/N)
pH	pH	Monthly	-	6.5-8.5	8.11	N
TSS	mg/L	Monthly	15	30	5	N
BOD	mg/L	Monthly	10	20	2	N
Oils and Grease	mg/L	Monthly	5	10	3	N
Nitrogen (ammonia)	mg/L	Monthly	2	5	0.015	N
Nitrogen (Total)	mg/L	Monthly	10	20	1.28	N
Phosphorus (Total)	mg/L	Monthly	Sample only		12.1	N

Daily Onsite Analysis

Daily Summarised Measure	Unit	Sample Frequency	Upper Limit	Min	Max	Median	Mean	Exceed (Y/N)
Discharge Volume	kL/day	daily	800	5	340	240	202	N

mg:

milligram

L: Litre

TSS: Total Suspended Solids

kg: kilogram

BOD: Biological Oxygen Demand

kL: kilolitre

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### Monitoring Period : Nov-17

External Lab Analysis

Sampled: 15/11/2017

Results: 16/11/2017

Monthly Measure	Unit	Sample Frequency	90 Percentile Concentration Limit	100 Percentile Concentration	Result	Exceed (Y/N)
pH	pH	Monthly	-	6.5-8.5	8.19	N
TSS	mg/L	Monthly	15	30	5	N
BOD	mg/L	Monthly	10	20	2	N
Oils and Grease	mg/L	Monthly	5	10	3	N
Nitrogen (ammonia)	mg/L	Monthly	2	5	0.029	N
Nitrogen (Total)	mg/L	Monthly	10	20	1.19	N
Phosphorus (Total)	mg/L	Monthly	Sample only		4.09	N

Daily Onsite Analysis

Daily Summarised Measure	Unit	Sample Frequency	Upper Limit	Min	Max	Median	Mean	Exceed (Y/N)
Discharge Volume	kL/day	daily	800	0	346	150	163	N

mg: milligram

L: Litre

TSS: Total Suspended Solids

kg: kilogram

BOD: Biological Oxygen Demand

kL: kilolitre

percentile: percentage (e.g.90%) of the number of samples taken that must meet the concentration limit

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### Monitoring Period : Dec-17

External Lab Analysis

Sampled: 21/12/2017

Results: 22/12/2017

Monthly Measure	Unit	Sample Frequency	50 Percentile Concentration Limit	100 Percentile Concentration	Result	Exceed (Y/N)
pH	pH	Monthly	-	6.5-8.5	8.22	N
TSS	mg/L	Monthly	15	30	<0.5	N
BOD	mg/L	Monthly	10	20	<0.5	N
Oils and Grease	mg/L	Monthly	5	10	<0.5	N
Nitrogen (ammonia)	mg/L	Monthly	2	5	0.017	N
Nitrogen (Total)	mg/L	Monthly	10	20	0.76	N
Phosphorus (Total)	mg/L	Monthly	Sample only		0.82	N

Daily Onsite Analysis

Daily Summarised Measure	Unit	Sample Frequency	Upper Limit	Min	Max	Median	Mean	Exceed (Y/N)
Discharge Volume	kL/day	daily	800	0	275	151	166	N

mg: milligram

L: Litre

TSS: Total Suspended Solids

kg: kilogram

BOD: Biological Oxygen Demand

kL: kilolitre

percentile: percentage (e.g.90%) of the number of samples taken that must meet the concentration limit