

Kangaroo Valley Wastewater Treatment Plant - Monitoring Summary

Licensee: Shoalhaven City Council, Shoalhaven Water, PO Box 42 Nowra 2541

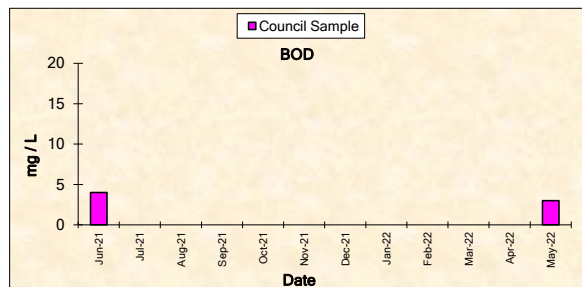
(Final Effluent Quality Monitoring)

Environment Protection License No. 20244

EPA ID No. 3

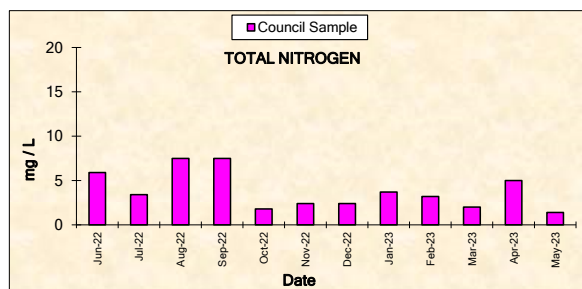
BOD

Frequency	Date Sample Obtained	Date Result Obtained	Unit of Measurement	EPA Limit	Council Sample
Monthly	08-Jun-22	29-Jun-22	milligrams per litre (mg/L)	MONITORING	4
Monthly	13-Jul-22	21-Jul-22	milligrams per litre (mg/L)		<2
Monthly	03-Aug-22	11-Aug-22	milligrams per litre (mg/L)		<2
Monthly	05-Sep-22	13-Sep-22	milligrams per litre (mg/L)		<2
Monthly	05-Oct-22	13-Oct-22	milligrams per litre (mg/L)		<2
Monthly	02-Nov-22	11-Nov-22	milligrams per litre (mg/L)	CONDITION	<2
Monthly	07-Dec-22	15-Dec-22	milligrams per litre (mg/L)		<2
Monthly	09-Jan-23	16-Jan-23	milligrams per litre (mg/L)		<2
Monthly	01-Feb-23	09-Feb-23	milligrams per litre (mg/L)		<2
Monthly	01-Mar-23	09-Mar-23	milligrams per litre (mg/L)		<2
Monthly	20-Apr-23	01-May-23	milligrams per litre (mg/L)		<2
Monthly	03-May-23	10-May-23	milligrams per litre (mg/L)		3



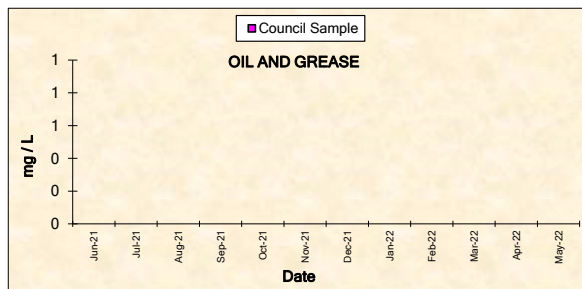
TOTAL NITROGEN

Frequency	Date Sample Obtained	Date Result Obtained	Unit of Measurement	EPA Limit	Council Sample
Monthly	08-Jun-22	29-Jun-22	milligrams per litre (mg/L)	MONITORING	5.9
Monthly	13-Jul-22	21-Jul-22	milligrams per litre (mg/L)		3.4
Monthly	03-Aug-22	11-Aug-22	milligrams per litre (mg/L)		7.5
Monthly	05-Sep-22	13-Sep-22	milligrams per litre (mg/L)		7.5
Monthly	05-Oct-22	13-Oct-22	milligrams per litre (mg/L)		1.8
Monthly	02-Nov-22	11-Nov-22	milligrams per litre (mg/L)	CONDITION	2.4
Monthly	07-Dec-22	15-Dec-22	milligrams per litre (mg/L)		2.4
Monthly	09-Jan-23	16-Jan-23	milligrams per litre (mg/L)		3.7
Monthly	01-Feb-23	09-Feb-23	milligrams per litre (mg/L)		3.2
Monthly	01-Mar-23	09-Mar-23	milligrams per litre (mg/L)		2.0
Monthly	20-Apr-23	01-May-23	milligrams per litre (mg/L)		5.0
Monthly	03-May-23	10-May-23	milligrams per litre (mg/L)		1.4



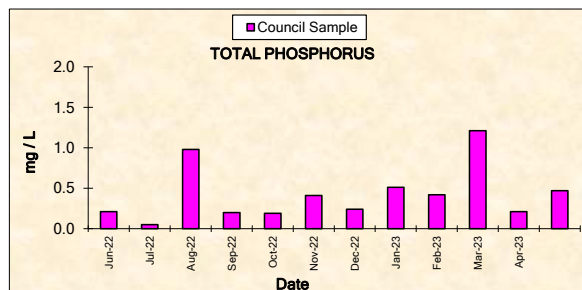
OIL AND GREASE

Frequency	Date Sample Obtained	Date Result Obtained	Unit of Measurement	EPA Limit	Council Sample
Monthly	08-Jun-22	29-Jun-22	milligrams per litre (mg/L)	MONITORING	<1
Monthly	13-Jul-22	21-Jul-22	milligrams per litre (mg/L)		<1
Monthly	03-Aug-22	11-Aug-22	milligrams per litre (mg/L)		<1
Monthly	05-Sep-22	13-Sep-22	milligrams per litre (mg/L)		<1
Monthly	05-Oct-22	13-Oct-22	milligrams per litre (mg/L)		<1
Monthly	02-Nov-22	11-Nov-22	milligrams per litre (mg/L)	CONDITION	<1
Monthly	07-Dec-22	15-Dec-22	milligrams per litre (mg/L)		<1
Monthly	09-Jan-23	16-Jan-23	milligrams per litre (mg/L)		<1
Monthly	01-Feb-23	09-Feb-23	milligrams per litre (mg/L)		<1
Monthly	01-Mar-23	09-Mar-23	milligrams per litre (mg/L)		<1
Monthly	20-Apr-23	01-May-23	milligrams per litre (mg/L)		<1
Monthly	03-May-23	10-May-23	milligrams per litre (mg/L)		<1



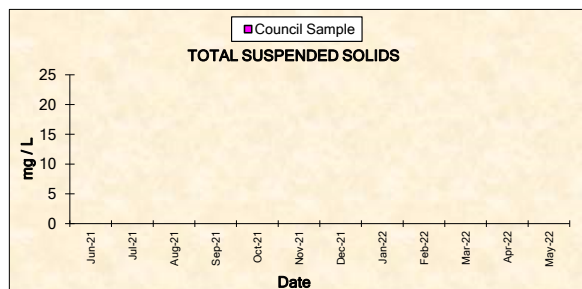
TOTAL PHOSPHORUS

Frequency	Date Sample Obtained	Date Result Obtained	Unit of Measurement	EPA Limit	Council Sample
Monthly	08-Jun-22	29-Jun-22	milligrams per litre (mg/L)	MONITORING	0.21
Monthly	13-Jul-22	21-Jul-22	milligrams per litre (mg/L)		0.05
Monthly	03-Aug-22	11-Aug-22	milligrams per litre (mg/L)		0.98
Monthly	05-Sep-22	13-Sep-22	milligrams per litre (mg/L)		0.20
Monthly	05-Oct-22	13-Oct-22	milligrams per litre (mg/L)		0.19
Monthly	02-Nov-22	11-Nov-22	milligrams per litre (mg/L)	CONDITION	0.41
Monthly	07-Dec-22	15-Dec-22	milligrams per litre (mg/L)		0.24
Monthly	09-Jan-23	16-Jan-23	milligrams per litre (mg/L)		0.51
Monthly	01-Feb-23	09-Feb-23	milligrams per litre (mg/L)		0.42
Monthly	01-Mar-23	09-Mar-23	milligrams per litre (mg/L)		1.21
Monthly	20-Apr-23	01-May-23	milligrams per litre (mg/L)		0.21
Monthly	03-May-23	10-May-23	milligrams per litre (mg/L)		0.47



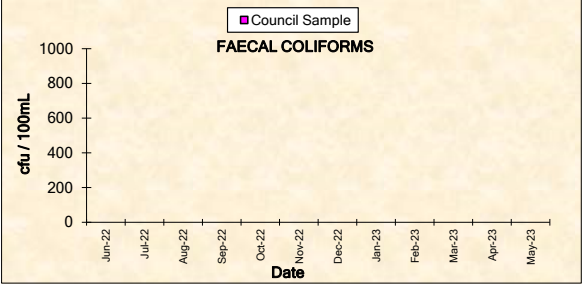
TOTAL SUSPENDED SOLIDS

Frequency	Date Sample Obtained	Date Result Obtained	Unit of Measurement	EPA Limit	Council Sample
Monthly	08-Jun-22	29-Jun-22	milligrams per litre (mg/L)	MONITORING	<1
Monthly	13-Jul-22	21-Jul-22	milligrams per litre (mg/L)		<1
Monthly	03-Aug-22	11-Aug-22	milligrams per litre (mg/L)		<1
Monthly	05-Sep-22	13-Sep-22	milligrams per litre (mg/L)		<1
Monthly	05-Oct-22	13-Oct-22	milligrams per litre (mg/L)		<1
Monthly	02-Nov-22	11-Nov-22	milligrams per litre (mg/L)	CONDITION	<1
Monthly	07-Dec-22	15-Dec-22	milligrams per litre (mg/L)		<1
Monthly	09-Jan-23	16-Jan-23	milligrams per litre (mg/L)		<1
Monthly	01-Feb-23	09-Feb-23	milligrams per litre (mg/L)		<1
Monthly	01-Mar-23	09-Mar-23	milligrams per litre (mg/L)		<1
Monthly	20-Apr-23	01-May-23	milligrams per litre (mg/L)		<1
Monthly	03-May-23	10-May-23	milligrams per litre (mg/L)		<1



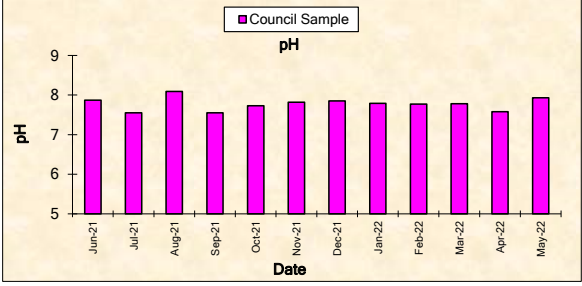
FAECAL COLIFORMS

Frequency	Date Sample Obtained	Date Result Obtained	Unit of Measurement	EPA Limit	Council Sample
Monthly	08-Jun-22	29-Jun-22	colony forming units per 100 millilitres (cfu/100mL)	MONITORING	<1
Monthly	13-Jul-22	21-Jul-22	colony forming units per 100 millilitres (cfu/100mL)		<1
Monthly	03-Aug-22	11-Aug-22	colony forming units per 100 millilitres (cfu/100mL)		<1
Monthly	05-Sep-22	13-Sep-22	colony forming units per 100 millilitres (cfu/100mL)		<1
Monthly	05-Oct-22	13-Oct-22	colony forming units per 100 millilitres (cfu/100mL)		<1
Monthly	02-Nov-22	11-Nov-22	colony forming units per 100 millilitres (cfu/100mL)	CONDITION	<1
Monthly	07-Dec-22	15-Dec-22	colony forming units per 100 millilitres (cfu/100mL)		<1
Monthly	09-Jan-23	16-Jan-23	colony forming units per 100 millilitres (cfu/100mL)		<1
Monthly	01-Feb-23	09-Feb-23	colony forming units per 100 millilitres (cfu/100mL)		<1
Monthly	01-Mar-23	09-Mar-23	colony forming units per 100 millilitres (cfu/100mL)		<1
Monthly	20-Apr-23	01-May-23	colony forming units per 100 millilitres (cfu/100mL)		<1
Monthly	03-May-23	10-May-23	colony forming units per 100 millilitres (cfu/100mL)		<1



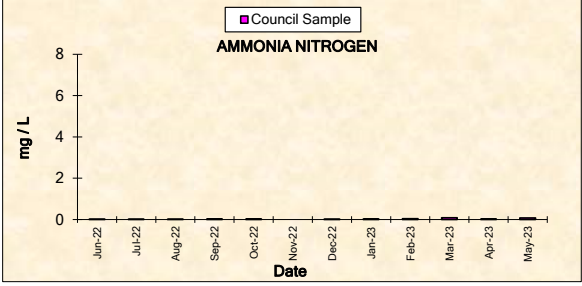
pH

Frequency	Date Sample Obtained	Date Result Obtained	Unit of Measurement	EPA Limit	Council Sample
Monthly	08-Jun-22	29-Jun-22	pH	MONITORING	7.9
Monthly	13-Jul-22	21-Jul-22	pH		7.6
Monthly	03-Aug-22	11-Aug-22	pH		8.1
Monthly	05-Sep-22	13-Sep-22	pH		7.6
Monthly	05-Oct-22	13-Oct-22	pH		7.7
Monthly	02-Nov-22	11-Nov-22	pH	CONDITION	7.8
Monthly	07-Dec-22	15-Dec-22	pH		7.9
Monthly	09-Jan-23	16-Jan-23	pH		7.8
Monthly	01-Feb-23	09-Feb-23	pH		7.8
Monthly	01-Mar-23	09-Mar-23	pH		7.8
Monthly	20-Apr-23	01-May-23	pH		7.6
Monthly	03-May-23	10-May-23	pH		7.9



AMMONIA NITROGEN

Frequency	Date Sample Obtained	Date Result Obtained	Unit of Measurement	EPA Limit	Council Sample
Monthly	08-Jun-22	29-Jun-22	milligrams per litre (mg/L)	MONITORING	0.02
Monthly	13-Jul-22	21-Jul-22	milligrams per litre (mg/L)		0.02
Monthly	03-Aug-22	11-Aug-22	milligrams per litre (mg/L)		0.02
Monthly	05-Sep-22	13-Sep-22	milligrams per litre (mg/L)		0.03
Monthly	05-Oct-22	13-Oct-22	milligrams per litre (mg/L)		0.03
Monthly	02-Nov-22	11-Nov-22	milligrams per litre (mg/L)	CONDITION	<0.01
Monthly	07-Dec-22	15-Dec-22	milligrams per litre (mg/L)		0.02
Monthly	09-Jan-23	16-Jan-23	milligrams per litre (mg/L)		0.03
Monthly	01-Feb-23	09-Feb-23	milligrams per litre (mg/L)		0.04
Monthly	01-Mar-23	09-Mar-23	milligrams per litre (mg/L)		0.09
Monthly	20-Apr-23	01-May-23	milligrams per litre (mg/L)		0.03
Monthly	03-May-23	10-May-23	milligrams per litre (mg/L)		0.08



non-compliance notes:

Kangaroo Valley Wastewater Treatment Plant - Monitoring Summary

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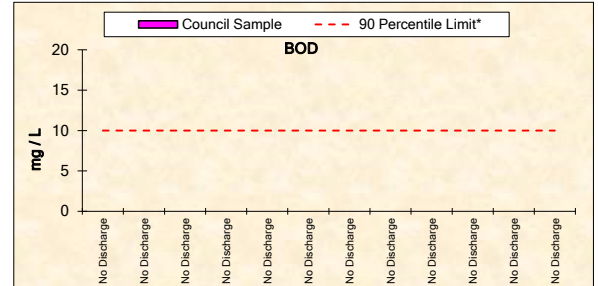
(Discharge to Waters - Grassed Swale)

Environment Protection License No. 20244

EPA ID No. 1

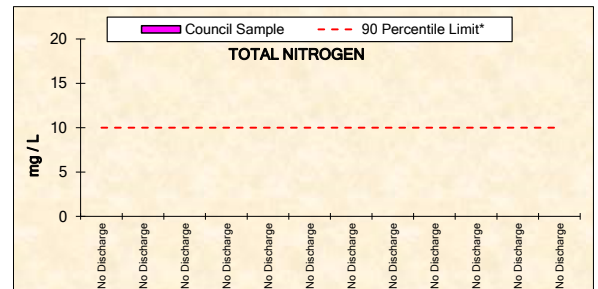
BOD

Frequency	Date Sample Obtained	Date Result Obtained	Unit of Measurement	90 Percentile Limit*	Council Sample
Monthly	No Discharge		milligrams per litre (mg/L)	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	10	-



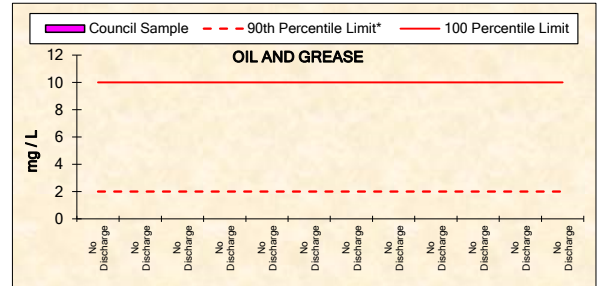
TOTAL NITROGEN

Frequency	Date Sample Obtained	Date Result Obtained	Unit of Measurement	90 Percentile Limit*	Council Sample
Monthly	No Discharge		milligrams per litre (mg/L)	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	10	-



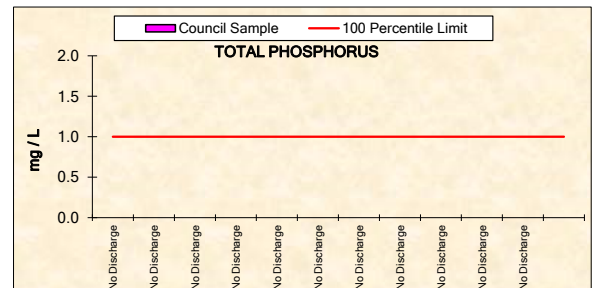
OIL AND GREASE

Frequency	Date Sample Obtained	Date Result Obtained	Unit of Measurement	90th Percentile Limit*	100 Percentile Limit	Council Sample
Monthly	No Discharge		milligrams per litre (mg/L)	2	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	2	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	2	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	2	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	2	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	2	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	2	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	2	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	2	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	2	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	2	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	2	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	2	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	2	10	-
Monthly	No Discharge		milligrams per litre (mg/L)	2	10	-



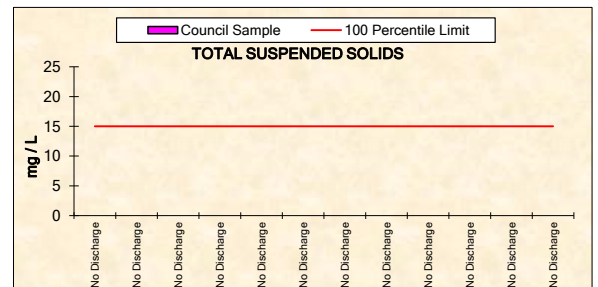
TOTAL PHOSPHORUS

Frequency	Date Sample Obtained	Date Result Obtained	Unit of Measurement	100 Percentile Limit	Council Sample
Monthly	No Discharge		milligrams per litre (mg/L)	1	-
Monthly	No Discharge		milligrams per litre (mg/L)	1	-
Monthly	No Discharge		milligrams per litre (mg/L)	1	-
Monthly	No Discharge		milligrams per litre (mg/L)	1	-
Monthly	No Discharge		milligrams per litre (mg/L)	1	-
Monthly	No Discharge		milligrams per litre (mg/L)	1	-
Monthly	No Discharge		milligrams per litre (mg/L)	1	-
Monthly	No Discharge		milligrams per litre (mg/L)	1	-
Monthly	No Discharge		milligrams per litre (mg/L)	1	-
Monthly	No Discharge		milligrams per litre (mg/L)	1	-
Monthly	No Discharge		milligrams per litre (mg/L)	1	-
Monthly	No Discharge		milligrams per litre (mg/L)	1	-
Monthly	No Discharge		milligrams per litre (mg/L)	1	-
Monthly	No Discharge		milligrams per litre (mg/L)	1	-
Monthly	No Discharge		milligrams per litre (mg/L)	1	-



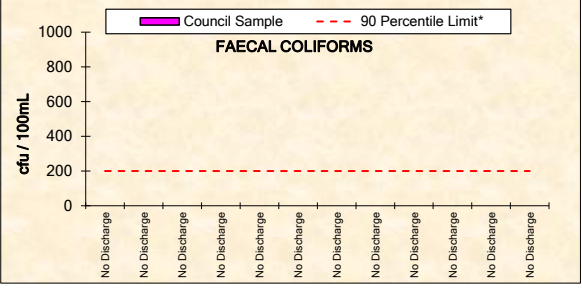
TOTAL SUSPENDED SOLIDS

Frequency	Date Sample Obtained	Date Result Obtained	Unit of Measurement	100 Percentile Limit	Council Sample
Monthly	No Discharge		milligrams per litre (mg/L)	15	-
Monthly	No Discharge		milligrams per litre (mg/L)	15	-
Monthly	No Discharge		milligrams per litre (mg/L)	15	-
Monthly	No Discharge		milligrams per litre (mg/L)	15	-
Monthly	No Discharge		milligrams per litre (mg/L)	15	-
Monthly	No Discharge		milligrams per litre (mg/L)	15	-
Monthly	No Discharge		milligrams per litre (mg/L)	15	-
Monthly	No Discharge		milligrams per litre (mg/L)	15	-
Monthly	No Discharge		milligrams per litre (mg/L)	15	-
Monthly	No Discharge		milligrams per litre (mg/L)	15	-
Monthly	No Discharge		milligrams per litre (mg/L)	15	-
Monthly	No Discharge		milligrams per litre (mg/L)	15	-
Monthly	No Discharge		milligrams per litre (mg/L)	15	-
Monthly	No Discharge		milligrams per litre (mg/L)	15	-
Monthly	No Discharge		milligrams per litre (mg/L)	15	-



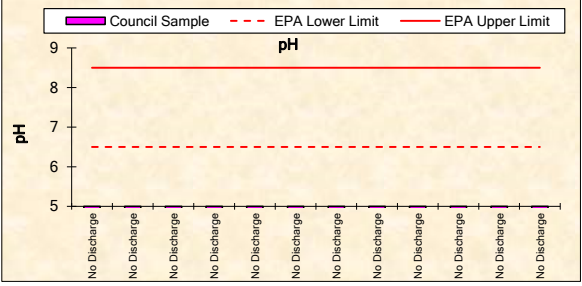
FAECAL COLIFORMS

Frequency	Date Sample Obtained	Date Result Obtained	Unit of Measurement	90 Percentile Limit*	Council Sample
Monthly	No Discharge		colony forming units per 100 millilitres (cfu/100mL)	200	-
Monthly	No Discharge		colony forming units per 100 millilitres (cfu/100mL)	200	-
Monthly	No Discharge		colony forming units per 100 millilitres (cfu/100mL)	200	-
Monthly	No Discharge		colony forming units per 100 millilitres (cfu/100mL)	200	-
Monthly	No Discharge		colony forming units per 100 millilitres (cfu/100mL)	200	-
Monthly	No Discharge		colony forming units per 100 millilitres (cfu/100mL)	200	-
Monthly	No Discharge		colony forming units per 100 millilitres (cfu/100mL)	200	-
Monthly	No Discharge		colony forming units per 100 millilitres (cfu/100mL)	200	-
Monthly	No Discharge		colony forming units per 100 millilitres (cfu/100mL)	200	-
Monthly	No Discharge		colony forming units per 100 millilitres (cfu/100mL)	200	-
Monthly	No Discharge		colony forming units per 100 millilitres (cfu/100mL)	200	-
Monthly	No Discharge		colony forming units per 100 millilitres (cfu/100mL)	200	-



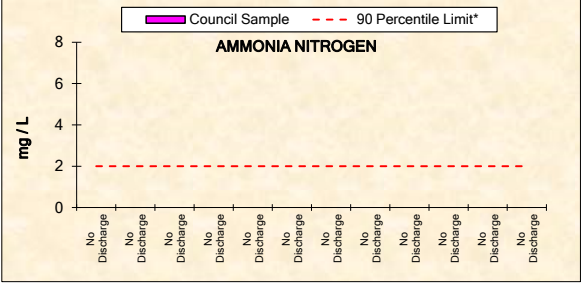
pH

Frequency	Date Sample Obtained	Date Result Obtained	Unit of Measurement	100 Percentile Limit	Council Sample
Monthly	No Discharge		pH	6.5-8.5	-
Monthly	No Discharge		pH	6.5-8.5	-
Monthly	No Discharge		pH	6.5-8.5	-
Monthly	No Discharge		pH	6.5-8.5	-
Monthly	No Discharge		pH	6.5-8.5	-
Monthly	No Discharge		pH	6.5-8.5	-
Monthly	No Discharge		pH	6.5-8.5	-
Monthly	No Discharge		pH	6.5-8.5	-
Monthly	No Discharge		pH	6.5-8.5	-
Monthly	No Discharge		pH	6.5-8.5	-
Monthly	No Discharge		pH	6.5-8.5	-
Monthly	No Discharge		pH	6.5-8.5	-
Monthly	No Discharge		pH	6.5-8.5	-
Monthly	No Discharge		pH	6.5-8.5	-



AMMONIA NITROGEN

Frequency	Date Sample Obtained	Date Result Obtained	Unit of Measurement	90 Percentile Limit*	Council Sample
Monthly	No Discharge		milligrams per litre (mg/L)	2	-
Monthly	No Discharge		milligrams per litre (mg/L)	2	-
Monthly	No Discharge		milligrams per litre (mg/L)	2	-
Monthly	No Discharge		milligrams per litre (mg/L)	2	-
Monthly	No Discharge		milligrams per litre (mg/L)	2	-
Monthly	No Discharge		milligrams per litre (mg/L)	2	-
Monthly	No Discharge		milligrams per litre (mg/L)	2	-
Monthly	No Discharge		milligrams per litre (mg/L)	2	-
Monthly	No Discharge		milligrams per litre (mg/L)	2	-
Monthly	No Discharge		milligrams per litre (mg/L)	2	-
Monthly	No Discharge		milligrams per litre (mg/L)	2	-
Monthly	No Discharge		milligrams per litre (mg/L)	2	-
Monthly	No Discharge		milligrams per litre (mg/L)	2	-
Monthly	No Discharge		milligrams per litre (mg/L)	2	-



* Note: 90th percentile limit compliance calculated on an annual basis

non-compliance notes: