

Appendix 5.10g

Elutriate Test Results for TKO 137

Elutriate Test Results for TKO137

Analyte grouping/Analyte	Units	WQOs / Criteria	MEA2		MEA3		MEA5		MEA6		MEA9		MEA10		MEA12		MEA15		MEA16		MEA19		MEA20		MEA24	
			Blank	Elutriate																						
<i>Inorganic Nonmetallic Parameters</i>																										
NH ₃ -N	mg/L	< 1 **	0.07	3.72	0.03	2.86	0.06	2.33	0.07	1.67	0.02	1.48	0.05	1.34	0.05	0.5	<0.01	1.11	<0.01	1.18	0.01	0.45	<0.01	2.04	0.02	0.70
NO ₂ -N	mg/L	-	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
PO ₄ -P	mg/L	-	0.01	0.03	0.01	0.09	0.02	0.07	0.01	0.09	0.01	0.07	0.01	0.07	0.01	0.07	0.01	0.06	<0.01	0.13	0.01	0.06	0.01	0.08	<0.01	0.06
TKN	mg/L	-	0.2	3.9	0.1	3.4	0.2	2.4	0.2	1.8	0.1	1.5	0.2	1.6	0.2	0.5	<0.1	1.2	0.1	1.4	<0.1	----	<0.1	2.2	<0.1	0.7
TP	mg/L	-	0.01	0.05	0.01	0.12	0.02	0.10	0.01	0.11	0.01	0.08	0.01	0.08	0.01	0.10	0.01	0.07	<0.01	0.13	<0.01	0.06	<0.01	0.08	<0.01	0.09
NO ₃ -N	mg/L	-	0.13	0.11	0.09	0.14	0.12	0.13	0.12	0.14	0.12	0.08	0.10	0.08	0.13	0.18	0.08	0.12	0.09	0.09	0.09	0.08	0.09	0.08	0.07	
TIN *	mg/L	≤ 0.4 #	0.21	3.84	0.13	3.01	0.19	2.47	0.2	1.82	0.15	1.57	0.16	1.43	0.19	0.69	0.1	1.24	0.11	1.28	0.11	0.55	0.1	2.14	0.11	0.78
UIA *	mg/L	≤ 0.021 ##	0.017	0.909	0.007	0.699	0.015	0.569	0.017	0.408	0.005	0.362	0.012	0.327	0.012	0.122	0.002	0.271	0.002	0.288	0.002	0.110	0.002	0.499	0.005	0.171

Notes:

* By calculation

** WSD's target water quality objective for flushing water intake.

All locations are located in Eastern Buffer WCZ where the WQO for total inorganic nitrogen is 0.4 mg/L except for MEA2, which is located in Junk Bay WCZ where the WQO is 0.3 mg/L.

WQO for UIA.

Cell Shaded in Yellow with Bolded Value - The measured elutriate concentration is higher than the assessment criteria value and the measured blank concentration

Cell Shaded in Grey - The measured elutriate concentration is higher than the measured blank concentration

NH₃-N - Ammonia Nitrogen

PO₄-P - Otho-phosphate Phosphorus

TKN - Total Kjeldahl Nitrogen

TP - Total Phosphorus

NO₃-N - Nitrate Nitrogen

NO₂-N - Nitrite Nitrogen

TIN - Total Inorganic Nitrogen

UJA - Unionized Ammonia

'-' - No applicable WQOs / cr

Criteria | MFA2 | MFA3

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Notes:

Cell Shaded in Yellow with Bolded Value - The measured elutriate concentration is higher than the assessment criteria value and the measured blank concentration

Cell Shaded in Grey - The measured elutriate concentration is higher than the measured blank concentration

Bolded Value - Detection limits are higher than the assessment criteria

'-' - No applicable WQOs / criteria