

Appendix 5.10h

Elutriate Test Results for TKO 132

Elutriate Test Results for TKO132

Analyte grouping/Analyte	Units	WQOs / Criteria	MEB2		MEB4		MEB5		MEB7		MEB10		MEB12		MEB13		MEB15		MEB18		MEB20		MEB21		MEB23		MEB26		MEB28		MEB29	
			Blank	Elutriate																												
<i>Inorganic Nonmetallic Parameters</i>																																
NH ₃ -N	mg/L	< 1 **	0.06	2.96	0.04	0.99	0.04	0.30	0.05	1.11	0.04	1.06	0.03	1.18	0.05	1.23	0.05	0.55	0.04	2.07	0.03	3.82	0.06	0.28	0.03	2.22	0.04	3.62	0.02	1.75	0.03	1.35
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	<0.01	<0.01	<0.01	<0.01	<0.01		
PO ₄ -P	mg/L	-	0.02	0.02	0.01	0.13	0.02	0.02	0.02	0.04	0.02	0.06	0.01	0.08	0.02	0.06	0.01	0.04	0.02	0.06	0.01	0.13	0.02	0.03	0.01	0.04	0.01	0.08	0.01	0.07	0.01	0.07
TKN	mg/L	-	0.2	5.0	0.2	1.3	0.2	2.0	0.2	1.9	0.2	2.1	0.1	1.6	0.2	1.4	0.2	0.9	0.2	4.9	0.2	4.9	0.2	1.0	0.1	2.4	0.1	4.2	0.1	2.0	0.2	1.6
TP	mg/L	-	0.02	0.15	0.01	0.16	0.02	0.02	0.05	0.02	0.11	0.01	0.08	0.02	0.08	0.01	0.10	0.02	0.07	0.01	0.15	0.02	0.04	0.01	0.04	0.01	0.12	<0.01	0.08	0.01	0.10	
NO ₃ -N	mg/L	-	0.13	0.11	0.12	0.09	0.17	0.19	0.15	0.15	0.11	0.12	0.07	0.12	0.05	0.12	0.10	0.14	0.21	0.12	0.14	0.14	0.16	0.11	0.10	0.13	0.08	0.10	0.12	0.24	0.11	
TIN *	mg/L	≤ 0.3 #	0.20	3.08	0.17	1.09	0.22	0.50	0.21	1.27	0.20	1.18	0.16	1.26	0.18	1.29	0.18	0.66	0.19	2.29	0.16	3.97	0.21	0.45	0.15	2.33	0.18	3.71	0.13	1.88	0.28	1.47
UIA *	mg/L	≤ 0.021 ##	0.01	0.72	0.01	0.24	0.01	0.07	0.01	0.27	0.01	0.26	0.01	0.29	0.01	0.30	0.01	0.13	0.01	0.51	0.01	0.93	0.01	0.07	0.01	0.54	0.01	0.88	0.00	0.43	0.01	0.33

Notes:

* By calculation

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

All locations are located in Junk Bay WCZ where the WQO for total inorganic nitrogen 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

UIA - Unionized Ammonia

'-' - No applicable WQOs / criteria

Analyte grouping/Analyte	Units	Criteria (Table 5.11)	MEB2		MEB4		MEB5		MEB7		MEB10		MEB12		MEB13		MEB15		MEB18		MEB20		MEB21		MEB23		MEB26		MEB28		MEB29	
			Blank	Elutriate	Blank	Elutriate	Blank	Elutriate	Blank	Elutriate	Blank	Elutriate	Blank	Elutriate	Blank	Elutriate	Blank	Elutriate	Blank	Elutriate	Blank	Elutriate	Blank	Elutriate	Blank	Elutriate	Blank	Elutriate				
<i>Metals and Major Cations</i>																																
Mercury	µg/L	≤ 0.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			
Arsenic	µg/L	≤ 13	1	7	1	15	1	2	1	37	1	8	2	8	2	5	2	15	1	8	2	2	2	4	2	10	1	9	1	6		
Cadmium	µg/L	≤ 2.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2			
Chromium	µg/L	≤ 4.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			
Copper	µg/L	≤ 1.3	<1.0	1.40	<1.0	1.60	<1.																									

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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 assessment criteria value and the measured blank concentration.

Bolded Value - Detection limits are higher than the assessment criteria

'-' - No applicable WOOs / criteria