



Sediment Quality Verification Dataset 2017 - North Saskatchewan River Summary

Note: Sediment samples sent to ALS for Petroleum Hydrocarbon (PHC) analysis

Sediment+ samples sent to AXYS for polycyclic aromatic hydrocarbon (PAH) analysis (results pending)

Sample Date	Sample Time	Location	Sample Type	ID	Substance	Result	Unit (Dry Weight)
WSA Sediment Quality Sampling							

Highway #3 (upstream of Point of Entry)

23-Jun-17	12:45	West Bank	Sediment	L1949202-1	Benzene	0.0051	mg/kg
					Ethylbenzene	0.015	mg/kg
					Toluene	0.155	mg/kg
					m+p-Xylene	0.062	mg/kg
23-Jun-17	13:30	Mid-Channel	Sediment	L1949202-2	Toluene	0.069	mg/kg
23-Jun-17	14:15	East Bank	Sediment	L1949202-3	Toluene	0.089	mg/kg

Highway #21

14-Jun-17	11:00	West Bank	Sediment	L1942981-1	Toluene	0.074	mg/kg
14-Jun-17	13:00	East Bank	Sediment	L1942981-2	Toluene	0.182	mg/kg
					F3 (C16-C34)	56	mg/kg

North Battleford near water intake

21-Jun-17	10:15	West Bank	Sediment	L1947003-1	ND	--	--
21-Jun-17	11:15	Mid-Channel	Sediment	L1947003-2	Toluene	0.251	mg/kg

21-Jun-17	11:13	Mid-Channel	Sediment	L1947003-2	F3 (C16-C34)	64	mg/kg
21-Jun-17	11:50	East Bank	Sediment	L1947003-3	Toluene	0.097	mg/kg
					F3 (C16-C34)	58	mg/kg

Prince Albert near water intake

22-Jun-17	11:13	West Bank	Sediment	L1947352-1	ND	--	--
22-Jun-17	11:45	Mid-Channel	Sediment	L1947352-2	Toluene	0.159	mg/kg
22-Jun-17	12:12	East Bank	Sediment	L1947352-3	ND	--	--

Notes:

ND Not Detected

Exceeds guideline - CCME Sediment Quality Guidelines for Protection of Aquatic Life

NS No Standard

1 Interim Sediment Quality Guidelines

2 Probable Effect Level

ALS Laboratories

Contaminant	Detection Limit	CCME	CCME
	(mg/kg)	ISQC	PEL
Benzene	0.005	NS	NS
Ethylbenzene	0.01	NS	NS
m+p-Xylene	0.05	NS	NS
o-Xylene	0.05	NS	NS
Total Xylene	0.1	NS	NS
Toluene	0.05	NS	NS
Hydrocarbons, F1 (C6-C10)	10	NS	NS
Hydrocarbons, F2 (C10-C16)	30	NS	NS
Hydrocarbons, F3 (C16-C34)	50	NS	NS
Hydrocarbons, F4 (C34-C50)	50	NS	NS
Total Hydrocarbons	50	NS	NS