

Team	Broad focus	Specific focus	Lab	Where	Frequency	Motivation
GroundTruth	Aquatic Ecosystem Toxicity	4 Trophic Levels	BioTox	SW00, SW07, SW09, SW12, SW16, SW21, SW27	Monthly	Assess the toxicity of the water and it's impacts on different trophic levels within the aquatic ecosystem. Also to assess how this toxicity changes as water moves downstream, as well as the impacts of the TDs on toxicity
GroundTruth/GeoMeasure	Surface Water Chemistry	Targeted Signature Compounds + Organics	Talbot UIS Organic Laboratory	SW00, SW07, SW15, SW16, SW21, SW23, SW27	Monthly	We have identified key inorganic substances and compounds likely to have arisen from the warehouse that pose toxic threats to aquatic ecosystems. Additionally, organic substances of concern have also been identified. These will be monitored to assess their concentrations over time, allowing for the threats to the system to be monitored. Sampling at the selected points allows for the change in concentrations of substances to be monitored as the water moves downstream.
		SANS241	Talbot	SW21, SW25 and SW27	Monthly	Key sites where people may potentially access water for use will be monitored to assess the risk they pose to human health.
GroundTruth	Biomonitoring	SASS5, Benthic diatoms, fish	in-field and NWU	SW00, SW01, SW02, SW04, SW07, SW13, SW15, SW16, SW21, SW23, SW24, SW25, SW26, SW27	Monthly	Key sites to assess the impacts the spill has had on aquatic algae, macroinvertebrates and vertebrates, as well as to monitor the recovery of these taxa. Additionally, sites are also selected to assess whether sources/events external to the spill may be impacting the system
	In-situ monitoring	DO, pH, Clarity, Conductivity	in-field	SW04, SW07, SW10, SW16, SW21, SW23, SW27	Weekly	Assessment of in-situ water quality to monitor the system, and it's recovery, as well as allow for rapid response to any issues that may arise
GroundTruth/GeoMeasure	Sediment	Ostracod screening	BioTox	SS02, SS04, SS07, SS08, SS1	Monthly	Assessment of key sites to allow for toxicity (i.e. how much of the toxicants in the water have been adsorbed by the sediment) of the sediment to be assessed and the potential impact of this on ostracods to be assessed. Selection of sites allows for the change in toxicity as one moves downstream to be assessed.
		Full suite organic and inorganics	Element and UIS	SS02, SS04, SS07, SS08, SS1	Monthly	Selection of sites and scanning of key organic and inorganic substances allows for the threat posed to aquatic ecosystems by the chemicals adsorbed by the sediments to be assessed. Monitoring of this at these sites allows for spatial and temporal changes in concentration to be monitored.
GroundTruth	In channel clean-up	Targeted Signature Compounds	Talbot	Selected sites in cleaning zones	Twice Weekly until completed	Whilst stream cleaning is being undertaken on the impacted tributary, water and sediment samples will be collected before and after cleaning to allow for efficacy of the cleaning at reducing concentrations to toxic substances in the water to be assessed, and treatment approaches adapted accordingly.
	In-situ liming treatment	pH>11 check	in-field	Upstream and Downstream at all TDs	Daily	pH will be monitored daily both upstream and downstream of TDs in order to ensure pH is being raised to a high enough level to effectively assist in reducing toxicity.
GeoMeasure	Groundwater	Full suite organic and inorganics (VOCs, SVOCs, Herbicide, Fungicide and Insecticides)	UIS and Bureau Veritas	MW1, MW2, MW3, MW4, MW5, MW6, MW7, MW8	Monthly	Monthly monitoring of the groundwater wells is required to identify and delineate any product plumes which may have been introduced during the initial "flush event" and subsequently infiltrated into the underlying aquifers from entrapped product within the soil. Additionally, monthly monitoring is required to ensure no seepage is occurring from the pollution containment dam.
GeoMeasure	Soil	Full suite organic and inorganics (VOCs, SVOCs, Herbicide, Fungicide and Insecticides)	UIS and Bureau Veritas	Sites where remediation/clean-up efforts have been made	Monthly	Soil samples collected to determine the effectiveness of remediation/clean-up efforts and to provide an indication if further remediation / clean-up efforts are required