

## gINT Contaminated Land Tool

### Statistical Analysis According to CL:AIRE Guidance for Soil and Groundwater Contaminated Data

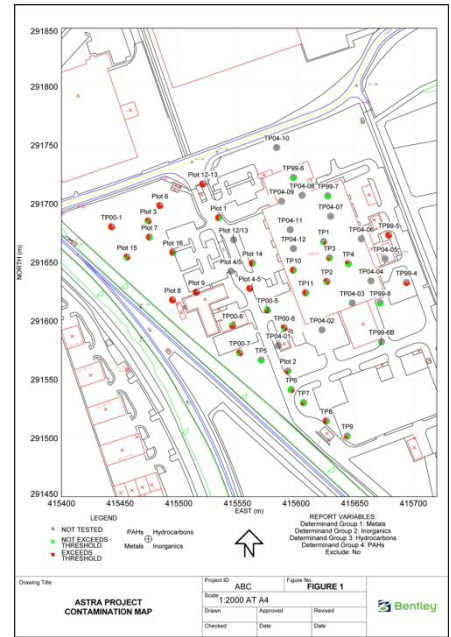
With the gINT Contaminated Land Tool you can store your data for contaminated soil and water in gINT along with your geotechnical and other project data.

The gINT Contaminated Land Tool add-in extends gINT's functionality by providing statistical analysis of contaminated data, as defined by Contaminated Land: Applications in Real Environments<sup>1</sup> (CL:AIRE), with high-quality reports which highlight failures and outliers.

Designed to complement the comprehensive visualisation, reporting, and AGS import capabilities of gINT Professional and gINT Professional Plus, the Contaminated Land Tool determines upper confidence limits (UCL), identifies the critical concentration (threshold) exceedence, and plots results graphically in plans, cross-sections, tables, and histograms.

The gINT Contaminated Land Tool performs statistical analysis based on the following user-defined settings:

- Site zones (populations defined by geology type, sample depth, and location subdivision)
- Confidence limits
- Exclusion of outliers, substitutions, and non-detects



SOIL CONTAMINATION RESULTS																			
CLIENT: Tropic 3800 PROJECT: Astra Project LOCATION: Maida Land PROJECT ID: ABC LAND USE: Residential with plant options. Exclude No																			
Plot	Sample No.	Depth (m)	Soil Type	Parameter	Unit	Value	Threshold	UCL	Notes	Method	Reference	Method	Reference	Method	Reference	Method	Reference	Method	Reference
Plot 1	1.15	1	J	191010204	19102	1.15	1.1	1.15	Sanity CL:LT with some gravel (SASPT)	AS	100	mg/kg	SOILS_T07	24					
Plot 1	1.15	1	J	191010204	19102	1.15	1.1	1.15	Sanity CL:LT with some gravel (SASPT)	BBAP	600	mg/kg	SOILS_T07	64					
Plot 1	1.15	1	J	191010204	19102	1.15	1.1	1.15	Sanity CL:LT with some gravel (SASPT)	CO	40.01	mg/kg	SOILS_T07						
Plot 1	1.15	1	J	191010204	19102	1.15	1.1	1.15	Sanity CL:LT with some gravel (SASPT)	CR	11	mg/kg	SOILS_T07						
Plot 1	1.15	1	J	191010204	19102	1.15	1.1	1.15	Sanity CL:LT with some gravel (SASPT)	CR	28	mg/kg	SOILS_T07						
Plot 1	1.15	1	J	191010204	19102	1.15	1.1	1.15	Sanity CL:LT with some gravel (SASPT)	CU	15	mg/kg	SOILS_T07						
Plot 1	1.15	1	J	191010204	19102	1.15	1.1	1.15	Sanity CL:LT with some gravel (SASPT)	HD	0.01	mg/kg	SOILS_T07						
Plot 1	1.15	1	J	191010204	19102	1.15	1.1	1.15	Sanity CL:LT with some gravel (SASPT)	NI	15	mg/kg	SOILS_T07						
Plot 1	1.15	1	J	191010204	19102	1.15	1.1	1.15	Sanity CL:LT with some gravel (SASPT)	NBS	8	mg/kg	WATER_SOILS						
Plot 1	1.15	1	J	191010204	19102	1.15	1.1	1.15	Sanity CL:LT with some gravel (SASPT)	PH	26	mg/kg	SOILS_T07						
Plot 1	1.15	1	J	191010204	19102	1.15	1.1	1.15	Sanity CL:LT with some gravel (SASPT)	PH275	16.5	mg/kg	SOILS_T07						
Plot 1	1.15	1	J	191010204	19102	1.15	1.1	1.15	Sanity CL:LT with some gravel (SASPT)	PH6	7.85								
Plot 1	1.15	1	J	191010204	19102	1.15	1.1	1.15	Sanity CL:LT with some gravel (SASPT)	SOILS	1	mg/kg	SOILS_T07						
Plot 1	1.15	1	J	191010204	19102	1.15	1.1	1.15	Sanity CL:LT with some gravel (SASPT)	SOILS	6.03	gr	WATER_SOILS						
Plot 1	1.15	1	J	191010204	19102	1.15	1.1	1.15	Sanity CL:LT with some gravel (SASPT)	TOL	1000	mg/kg	SOILS_T07						
Plot 1	1.15	1	J	191010204	19102	1.15	1.1	1.15	Sanity CL:LT with some gravel (SASPT)	TRH	300	mg/kg	SOILS_T07						
Plot 1	1.15	1	J	191010204	19102	1.15	1.1	1.15	Sanity CL:LT with some gravel (SASPT)	V	27	mg/kg	SOILS_T07						
Plot 1	1.15	1	J	191010204	19102	1.15	1.1	1.15	Sanity CL:LT with some gravel (SASPT)	Zn	61	mg/kg	SOILS_T07						
Plot 12-13	0.80	J	191010204	19102	0.80	0.80	0.80	0.80	Sanity S:SL with some Hydrocarbon (SASPT)	111012E	8	mg/kg	SOILS_T07						
Plot 12-13	0.80	J	191010204	19102	0.80	0.80	0.80	0.80	Sanity S:SL with some Hydrocarbon (SASPT)	AS	600	mg/kg	SOILS_T07	20					
Plot 12-13	0.80	J	191010204	19102	0.80	0.80	0.80	0.80	Sanity S:SL with some Hydrocarbon (SASPT)	BBAP	600	mg/kg	SOILS_T07	20					
Plot 12-13	0.80	J	191010204	19102	0.80	0.80	0.80	0.80	Sanity S:SL with some Hydrocarbon (SASPT)	CO	62.0	mg/kg	SOILS_T07						
Plot 12-13	0.80	J	191010204	19102	0.80	0.80	0.80	0.80	Sanity S:SL with some Hydrocarbon (SASPT)	CR	19	mg/kg	SOILS_T07						
Plot 12-13	0.80	J	191010204	19102	0.80	0.80	0.80	0.80	Sanity S:SL with some Hydrocarbon (SASPT)	CU	121	mg/kg	SOILS_T07						
Plot 12-13	0.80	J	191010204	19102	0.80	0.80	0.80	0.80	Sanity S:SL with some Hydrocarbon (SASPT)	HD	0.01	mg/kg	SOILS_T07						
Plot 12-13	0.80	J	191010204	19102	0.80	0.80	0.80	0.80	Sanity S:SL with some Hydrocarbon (SASPT)	NI	28	mg/kg	SOILS_T07						
Plot 12-13	0.80	J	191010204	19102	0.80	0.80	0.80	0.80	Sanity S:SL with some Hydrocarbon (SASPT)	NBS	8	mg/kg	WATER_SOILS						

To purchase the gINT Contaminated Land Tool, call Bentley UK Sales: 01403 259511

<sup>1</sup> Chartered Institute of Environmental Health and CL:AIRE, *Guidance on Comparing Soil Contamination Data with a Critical Concentration* (2008).

