

Remedial Targets Worksheet , Release 3.1



Level 2 - Soil

Contaminant
Target concentration C_T **Nickel** from Level 1
0.02 mg/l from Level 1

This sheet calculates the Level 2 remedial target for soils (mg/kg) or for pore water (mg/l).

The measured soil concentration as mg/kg or pore water concentration should be compared with the Level 2 remedial target to determine the need for further action. Equations presented in 'Hydrogeological risk assessment for land contamination' (Environment Agency 2006)

Input Parameters Variable Value Unit Source of parameter value

Standard entry

Infiltration	Inf	1.00E-03	m/d	Met Eireann/GSI data/Strive Calc	
Area of contaminant source	A	1.67E+04	m ²	Site Survey	Not used in calculation

Entry for groundwater flow below site

Length of contaminant source in direction of groundwater flow	L	1.65E+02	m	Site Survey	
Saturated aquifer thickness	da	1.50E+01	m	Subsoil/Transition zone thickness	
Hydraulic Conductivity of aquifer in which dilution occurs	K	4.60E-01	m/d	Pumping Test	
Hydraulic gradient of water table	i	2.00E-02	fraction	Groundwater Monitoring	
Width of contaminant source perpendicular to groundwater flow	w	1.65E+02	m	Site Survey	Not used in calculation
Background concentration of contaminant in groundwater beneath site	Cu	1.20E-02	mg/l	Groundwater sampling	
Define mixing zone depth by specifying or calculating depth (using pull down list)		Specify			
Enter mixing zone thickness	Mz	1.00E+01	m	Est	
Calculated mixing zone thickness	Mz		m		

Calculated Parameters

Dilution Factor	DF	1.22E+00		
Level 2 Remedial Target		2.45E-02	mg/l	For comparison with measured pore water concentration. This assumes Level 1 Remedial Target is based on Target Concentration
		or		
		7.27E-02	mg/kg	For comparison with measured soil concentration. This assumes Level 1 Remedial Target calculated from soil-water

Additional option

Calculation of impact on receptor

Concentration of contaminant in contaminated discharge (entering receptor)	Cc		mg/l	
Calculated concentration within receptor (dilution only)		0.00E+00	mg/l	0

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