

NSZD Temperature Enhancement Calculator Example

Example Description

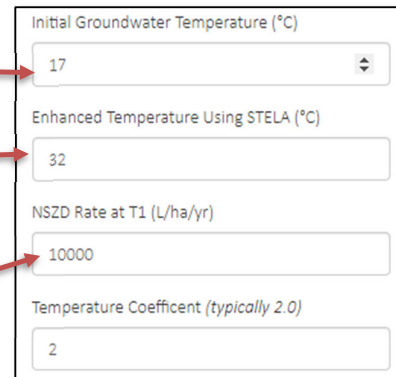
Inputs and Outputs in Toolbox

Site Description

A hydrocarbon-impacted site has an average annual air temperature (roughly equivalent to average groundwater temperature) of **17 °C**.

With low-level subsurface heating, the site groundwater can achieve **32 °C**.

Carbon Traps and Thermal Monitoring were employed to measure NSZD rates seasonally, with a resulting average of **10,000 L/ha/yr**.



The screenshot shows the input fields of the calculator. Red arrows point from the text in the 'Site Description' section to the corresponding input fields: 17 for Initial Groundwater Temperature, 32 for Enhanced Temperature, and 10000 for NSZD Rate at T1.

Initial Groundwater Temperature (°C)	17
Enhanced Temperature Using STELA (°C)	32
NSZD Rate at T1 (L/ha/yr)	10000
Temperature Coefficient (typically 2.0)	2

Output and Interpretation

At this site, the NSZD rate can potentially reach **28,280 L/ha/yr** with the increased temperature.

