

# Soil & Groundwater Remediation Site Evaluation Form

Submit form: remediation@evonik.com



## Contact information

Company

Contact name

Address

Phone number

City

State/province

email

Postal code

Country

## Site Details

Site name

Location

Project status

Feasibility  
study

Workplan  
development

Pending field  
implementation

Other \_\_\_\_\_

Treatment area(s)  
will include

Source

Plume

PRB

Other \_\_\_\_\_

Is NAPL present  
or suspected

Yes

No

Unknown

Site description (e.g. – pilot/full scale, historical use, buildings, source of contamination, current remediation activities, etc.)

Site cleanup objectives and timing

Which Evonik products are you interested in evaluating for your site?

All applicable

### In Situ chemical oxidation

KLOZUR® CR

KLOZUR® KP

KLOZUR® One

KLOZUR® SP

### Aerobic bioremediation

PERMEOX® Ultra

TERRAMEND® Reagent

### Enhanced reductive dechlorination

ELS® Microemulsion

### In Situ chemical reduction

EHC® Reagent

EHC® Liquid

DARAMEND® Reagent

### Metals treatment

METAFIX® Reagents OR EHC® Metals

### NAPL stabilization / mass flux reduction

ISGS® Technology

### Biogeochemical

GEOFORM® Reagents

# Soil & Groundwater Remediation Site Evaluation Form

Submit form: remediation@evonik.com



What other remediation technologies are being considered?

**Treatment area "A" information** please complete in as much detail as your are able.

Source      Plume      PRB      Other      Other details: \_\_\_\_\_

**Treatment area dimensions**

Width of targeted zone (perpendicular to GW flow)  
 \_\_\_\_\_

Length of targeted zone (parallel to GW flow)  
 \_\_\_\_\_

Depth to top of treatment zone  
 \_\_\_\_\_

Depth to bottom of treatment zone  
 \_\_\_\_\_

Depth to groundwater  
 \_\_\_\_\_

**Soil data**

Soil type  
 \_\_\_\_\_

Fraction organic carbon in soil, FOC  
 \_\_\_\_\_

Soil bulk density (default = 90 lb/ft<sup>3</sup>, 1,400 kg/m<sup>3</sup>)  
 \_\_\_\_\_

Total porosity (default = 35 %)  
 \_\_\_\_\_ %

**Transport characteristics**

Hydraulic conductivity  
 \_\_\_\_\_

Linear groundwater flow velocity  
 \_\_\_\_\_

Hydraulic gradient  
 \_\_\_\_\_

Effective porosity for GW flow  
 \_\_\_\_\_ %

**Contaminant information**

Contaminant	Average conc. in GW (mg/L)	Remediation goal in GW (mg/L)	Average conc. in soil (mg/kg)	Remediation goal in soil (mg/kg)

# Soil & Groundwater Remediation Site Evaluation Form

Submit form: remediation@evonik.com



**Geochemical information** please provide as much information as possible. If unknown, please leave blank.

pH	_____	Carbonate alkalinity (as CaCO <sub>3</sub> )	_____ mg/L
ORP	_____ mV	Groundwater temperature	_____
Conductivity	_____ S/m		
<b>KLOZUR® PERSULFATE parameters</b>		<b>ISCR parameters</b>	
Soil oxidant demand	_____ g of KLOZUR®/kg of soil	Dissolved oxygen	_____ mg/L
Base buffering capacity	_____ g 25 % NaOH/kg soil	Manganese (II) generated	_____ mg/L
<b>PERMEOX® ULTRA parameters</b>		Sulfate	_____ mg/L
	GW mg/L	Soil mg/kg	
Biological oxygen demand	_____	Nitrate (as N)	_____ mg/L
Chemical oxygen demand	_____	Iron (II) generated	_____ mg/L
Dissolved metals (Fe, Mn)	_____		

**Treatment area "B" information** please complete in as much detail as your are able.

Source	Plume	PRB	Other	Other details	_____
--------	-------	-----	-------	---------------	-------

**Treatment area dimensions**

Width of targeted zone (perpendicular to GW flow)  
\_\_\_\_\_

Length of targeted zone (parallel to GW flow)  
\_\_\_\_\_

Depth to top of treatment zone  
\_\_\_\_\_

Depth to bottom of treatment zone  
\_\_\_\_\_

Depth to groundwater  
\_\_\_\_\_

**Soil data**

Check here if same as treatment area "A"

Soil type  
\_\_\_\_\_

Fraction organic carbon in soil, FOC  
\_\_\_\_\_

Soil bulk density (default = 90 lb/ft<sup>3</sup>, 1,400 kg/m<sup>3</sup>)  
\_\_\_\_\_

Total porosity (default = 35 %)  
\_\_\_\_\_ %

# Soil & Groundwater Remediation Site Evaluation Form

Submit form: remediation@evonik.com



## Transport characteristics

Check here if same as treatment area "A"

Hydraulic conductivity

\_\_\_\_\_

Hydraulic gradient

\_\_\_\_\_

Linear groundwater flow velocity

\_\_\_\_\_

Effective porosity for GW flow

\_\_\_\_\_ %

## Contaminant information

Contaminant	Average conc. in GW (mg/L)	Remediation goal in GW (mg/L)	Average conc. in soil (mg/kg)	Remediation goal in soil (mg/kg)

**Geochemical information** please provide as much information as possible. If unknown, please leave blank.

Check here if same as treatment area "A"

pH

\_\_\_\_\_

Carbonate alkalinity (as CaCO<sub>3</sub>)

\_\_\_\_\_ mg/L

ORP

\_\_\_\_\_ mV

Groundwater temperature

\_\_\_\_\_

Conductivity

\_\_\_\_\_ S/m

### KLOZUR® PERSULFATE parameters

Soil oxidant demand

\_\_\_\_\_ g of KLOZUR®/kg of soil

### ISCR parameters

Dissolved oxygen

\_\_\_\_\_ mg/L

Base buffering capacity

\_\_\_\_\_ g 25 % NaOH/kg soil

Manganese (II) generated

\_\_\_\_\_ mg/L

### PERMEOX® ULTRA parameters

	GW mg/L	Soil mg/kg
Biological oxygen demand	_____	_____
Chemical oxygen demand	_____	_____
Dissolved metals (Fe, Mn)	_____	_____

Sulfate

\_\_\_\_\_ mg/L

Biological oxygen demand

Nitrate (as N)

\_\_\_\_\_ mg/L

Chemical oxygen demand

Iron (II) generated

\_\_\_\_\_ mg/L

Dissolved metals (Fe, Mn)