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STUDIE ONTVANGENDE GROEVE EN GRAVERIJ – METHODOLOGIE ATTENUATIEFACTOREN

STANDAARDPROCEDURE
REGELING VOOR GEBRUIK VAN BODEMMATERIALEN

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2.01.2019

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De standaardprocedure voor het uitvoeren van een studie voor de vergunning van de opvulling van groeven en graverijen met bodemmaterialen. De standaardprocedure geeft richtlijnen voor de karakterisatie, modellering en risico-analyse van de opvulling door middel van de methodologie met attenuatiefactoren. De impact op (grond)waterkwaliteit is hierbij het uitgangspunt.</p> <p>6 <i>Aantal bladzijden:</i> 2117</p> <p>8 <i>Datum publicatie:</i>
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1 LIJST VAN SYMBOLEN EN AFKORTINGEN

Afkortingen

AF	attenuatiefactor
ALBON	Afdeling Land en Bodembescherming, Ondergrond, Natuurlijke Rijkdommen
BBO	beschrijvend bodemonderzoek
BETXS	kleine groep aromatische koolwaterstoffen
BPA	bijzonder plan van aanleg
BSN	bodemsaneringsnorm
CDE	Convectie-dispersie vergelijking
CEC	cation exchange capacity
HCM	hydrogeologisch conceptueel model
MER	milieu effect rapport
MO	minerale olie
MTBE	methyl-tert-butylether
OHH	enkele alkanen
PAK	polyaromatische koolwaterstoffen
PCB	polychloorbiphenyl
RUP	ruimtelijk uitvoeringsplan
TW	toetsingswaarde
VLAREBO	Vlaams reglement rond de Bodemsanering
VLAREM	Vlaams reglement betreffende de milieuvergunning
VOCI	vluchtige organochloor verbindingen
WVG	waarde vrij gebruik

Symbolen

$C_{0,max}$	toetsingswaarde voor totaalconcentraite in de opvulling	(mg/kg DS)
$C_{gw,c}$	kritische grondwaterconcentratie	(mg/l)
$C_{max,receptor}$	maximale concentratie aan receptor	(mg/m ³)
C_o	concentratie in poriënwater opvulmateriaal	(mg/m ³)
D	dispersiecoëfficiënt	(m ² /j)
D_a	diffusiecoëfficiënt in lucht	(m ² /u)
DF	verdunningsfactor	(-)
Ec	elektrische geleidbaarheid	(μ S/cm)
f_{nd}	fractie niet-gedissocieerd	(-)
f_{oc}	fractie organische koolstof	(-)
g	graviteitsconstante	(m/s ²)
h	stijghoogte, grondwaterpotentiaal	(m)

H'	dimensieloze Henry coëfficiënt	--
i	hydraulische gradiënt	(m/m)
k	hydraulische geleidbaarheid	(m/d)
kD	doorlaatvermogen, transmissiviteit	(m ² /d)
K_d	vast-vloeibaar verdelingscoëfficiënt	(m ³ /kg)
K_H	Henry coëfficiënt	(Pa.m ³ /mol)
K_{oc}	organische koolstof-water verdelingscoëfficiënt	(m ³ /kg)
K_{ow}	octanol-water verdelingscoëfficiënt	(m ³ /kg)
M_{pw}	concentratie in poriënwater	(mg/m ³)
M_{tot}	totaalconcentratie	(mg/kg)
MW	moleculair gewicht	(g/mol)
n	porositeit als volumetrisch vochtgehalte bij verzadiging	(-)
n_e	effectieve porositeit	(-)
p	vloeistofdruk	(N/m ²)
pH	zuurtegraad	(-)
q	eenheidsdebiet of filtersnelheid, Darcy flux	(m/d)
Q	(doorstroom)debiet	(m ³ /d)
S	oplosbaarheid	(mol/m ³) of (µg/l)
V	volume materiaal	(m ³)
v	stromingsnelheid grondwater (aquifer)	(m/d)
v	poriënwatersnelheid (bodem)	(m/j)
V_{por}	poriënvolume	(m ³)
z	plaatshoogte	(m)
θ	volumetrisch vochtgehalte	(m ³ /m ³)
θ_g	gravimetrisch vochtgehalte	(kg/kg)
λ	dispersiviteit	(-)
ρ	specifiek volumegewicht, droge stof dichtheid	(kg/m ³)
ρ_w	dichtheid van water	(kg/m ³)
Φ	porositeit, benaderend via dichtheid kwarts	(cm ³ /cm ³)
ω	hydrostatische druk	(m)

2 INLEIDING

Conform de bepalingen van artikel 5.60.2 van het besluit van de Vlaamse Regering van 1 juni 1995 houdende algemene en sectorale bepalingen inzake milieuhygiëne, kunnen groeven, graverijen, uitgravingen of andere putten, die conform hun nabestemming ingedeeld worden ingedeeld in bestemmingstype I, II en III, opgevuld worden met bodemmaterialen die voldoen aan 80 % van de overeenstemmende bodemsaneringsnormen van

het overeenkomstige bestemmingstype, vermeld in bijlage IV van het VLAREBO. Voor groeven, graverijen, uitgravingen of andere putten, die conform hun nabestemming ingedeeld worden ingedeeld in bestemmingstype IV en V, moeten de bodemmaterialen voldoen aan de waarde van bijlage IV voor een bestemmingstype III.

De bouwheer moet door middel van een studie, uitgevoerd door een bodemsaneringsdeskundige volgens een standaardprocedure, het bewijs leveren dat het gebruik van bodemmaterialen als bodem geen verontreiniging van het grondwater kan veroorzaken en dat mogelijke blootstelling aan de verontreinigde stoffen geen extra risico oplevert. Richtlijnen voor de karakterisatie, modellering en risico-analyse van de opvulling zijn uitgewerkt in de standaardprocedure voor het opvullen van groeven en graverijen. Hierin wordt als mogelijkheid voor het bepalen van toetsingswaarden voor de opvulling verwezen naar de methode attenuatiefactoren. Deze methode wordt in dit rapport uitgewerkt en de attenuatiefactoren voor een aantal vaststaande scenario's worden gegeven in bijlage.

Indien in de risico-analyse een toetsingswaarde wordt bepaald waaraan de aangevoerde bodemmaterialen moeten voldoen, kan deze door de deskundige worden berekend via attenuatiefactoren. De attenuatiefactoren zijn in dit rapport bepaald voor alle VLAREBO-stoffen en zijn afhankelijk van de uitloogkarakteristieken van de aangevoerde bodem en van de afstand van de groeve tot de receptor. Indien de concentratie van een stof in de aangevoerde bodemmaterialen voldoet aan de toetsingswaarde, is er geen risico voor de receptor en kan de groeve de betreffende bodem ontvangen. Indien de concentraties in de aangevoerde bodemmaterialen de toetsingswaarde overschrijden, dan kan een risico voor de receptor niet uitgesloten worden met deze methode.

3 BEPALEN VAN TOETSINGSWAARDEN A.H.V. ATTENUATIEFACTOREN

3.1 SELECTIE GRONDWATERCRITERIA

In deze stap dienen de kritische concentraties in grondwater geselecteerd te worden. De berekening die hierop volgt, heeft als uitgangspunt dat deze kritische concentratie in grondwater ter hoogte van de receptor niet overschreden wordt.

In VLAREBO bijlage IV zijn de bodemsaneringsnormen voor grondwater opgenomen. De bodemsaneringsnormen beantwoorden aan een niveau van bodemverontreiniging dat een risico inhoudt van negatieve effecten voor de mens of het milieu, gelet op de kenmerken van de bodem en de functies die deze vervult. Een overschrijding van de bodemsaneringsnormen is een signaal om een beschrijvend bodemonderzoek uit te voeren. De bodemsaneringsnormen voor grondwater liggen op het niveau van de drinkwaterkwaliteitsnorm.

Voor de VLAREBO parameters zijn er op basis van de bodemsaneringsnormen voor grondwater uit VLAREBO attenuatiefactoren berekend en opgenomen in bijlage B en C (zie volgende paragrafen).

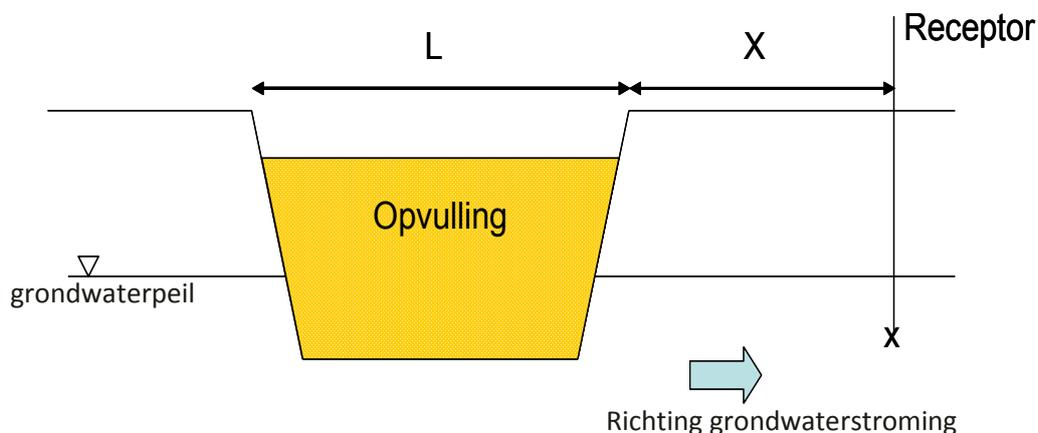
In VLAREM II bijlage 2.4.1 zijn milieukwaliteitsnormen voor grondwater opgenomen. Voor een lijst van fysisch-chemische parameters, ongewenste stoffen, toxische stoffen en microbiologische parameters zijn er richtwaarden opgenomen (art. 1). Daarnaast zijn er voor een aantal metalen en kationen per grondwaterlichaam achtergrondniveaus (art. 2) en drempelwaarden (art. 3) vastgelegd. Als milieukwaliteitsnormen voor de beoordeling van de chemische toestand van grondwater gelden de minst strenge van de richtwaarden uit artikel 1 en de achtergrondniveaus uit artikel 2. Drempelwaarden zijn zodanig vastgesteld dat, als de meetresultaten in een representatief meetpunt de drempelwaarden overschrijden, dat wijst op een risico dat er niet is voldaan aan een of meer van de voorwaarden voor een goede chemische toestand van het grondwaterlichaam.

Voor As, Cd, Ni, Pb, Zn, fluoranteen, benzo(a)pyreen, benzo(b)fluoranteen, benzo(g,h,i)peryleen, benzo(k)fluoranteen, indeno(1,2,3-cd)pyreen, tetrachlooretheen, trichlooretheen en PCB zijn er op basis van deze normen uit VLAREM II attenuatiefactoren berekend en opgenomen in bijlage D en E (zie volgende paragrafen).

3.2 BEPALEN VAN DE ATTENUATIE TUSSEN OPVULLING EN RECEPTOR

Een stof die uitloopt uit het opvulmateriaal wordt verdund op haar weg naar de receptor. De verdunding wordt uitgedrukt onder de vorm van attenuatiefactoren. In de analyse wordt onderscheid gemaakt tussen opvulling geheel of gedeeltelijk in verzadigde zone enerzijds (Figuur 1) en opvulling geheel in de onverzadigde zone anderzijds (Figuur 2).

3.2.1 Opvulling geheel of gedeeltelijk in de verzadigde zone



Figuur 1: Schematische voorstelling van een opvulling in de verzadigde zone

Attenuatiefactoren voor diverse scenario's zijn gegeven in Tabel 1, Tabel 2 en Bijlage B en D. De attenuatiefactoren worden gegeven voor de verschillende types groeven, i.c. zand, leem, klei en grind, en voor verschillende groottes van groeven. Daarnaast werden de attenuatiefactoren berekend voor 3 verschillende afstanden tot de receptor. Bij het vastleggen van de scenario's is uitgegaan van concentraties in het grondwater gelijk aan de streefwaarde zoals vastgelegd in Bijlage 3 van VLAREBO voor de metalen of de achtergrondniveaus uit Bijlage 2.4.1 VLAREM II en gelijk aan 0 voor de overige VLAREBO-stoffen. De Kd-waarden uit Tabel 2 zijn gehanteerd voor de aquifers in zand, leem klei en grind. Indien uit de inventarisatiefase blijkt dat de situatie zeer sterk afwijkt van deze assumpties (bv. een zeer lage pH in het grondwater ten gevolge van menselijk ingrijpen) en dat de werkelijke Kd-waarden aanzienlijk lager liggen dan deze uit de tabel, kunnen de berekende AF niet toegepast worden. In dergelijke situaties kan men de AF gelijk aan 1 stellen (minimale waarde en zeker beschermend genoeg).

Parameter	Grind	Zand	Leem	Klei
pH		5,5	6,0	6,5
organische koolstof (kg/kg)		0,001	0,001	0,001
klei (%)		5	10	20
K _d As (L/kg)	20	364	871	2086
K _d Cd (L/kg)	20	219	372	631
K _d Cr (L/kg)	20	6166	8511	11749
K _d Cu (L/kg)	20	65	85	112
K _d Hg (L/kg)	20	5706	5706	5706
K _d Pb (L/kg)	20	17000	29543	51339
K _d Ni (L/kg)	20	484	646	861
K _d Zn (L/kg)	20	184	372	750

Tabel 1: Representatieve geochemische eigenschappen voor aquifermaterialen

De attenuatiefactoren werden berekend aan de hand van een stoftransportmodel (zie bijlage A). Het verspreidingsmodel berekent de attenuatie (door verdunning, dispersie, sorptie, vervluchtiging en/of afbraak) van een contaminant op de weg tussen de opvulling en de receptor. Op die manier wordt de uitloogconcentratie C_0 door het model vertaald naar een maximale concentratie $C_{max,receptor}$ die in het grondwater (op termijn) kan bereikt worden ter hoogte van de receptor. De verhouding van de twee concentraties is de attenuatiefactor $AF_{grondwater}$:

$$AF = AF_{grondwater} = \frac{C_0}{C_{max,receptor}}$$

De berekende $AF_{grondwater}$ voor metalen verschilt naargelang type van aquifer (grind, zand, leem of klei), geselecteerd grondwatercriterium en afstand tot de receptor (30 m < X < 100 m; 100 m < X < 200 m; X > 200 m). Deze tabellen zijn weergegeven in Bijlage B en D en in Tabel 2 staan ter illustratie de waarden voor Cd in een zandige aquifer voor verschillende afstanden tot de receptor. In de tabellen zijn zones afgebakend (grijze

cursief gedrukte gebieden) waar de $AF_{\text{grondwater}}$ zo hoog is dat de berekende toetsingswaarde hoger ligt dan bodemsaneringsnorm type III d.w.z. dat onder deze scenario's alle concentraties lager dan BSN type III geen aanleiding geven tot overschrijding van de bodemsaneringsnorm voor grondwater aan de receptor en dat de BSN type III dus beschermend genoeg is voor de receptor.

a) $30 \text{ m} < X < 100 \text{ m}$

Cd	L (m)	$K_{d,vul}$ (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	7.7	4.3	1.3	1.0	1.0	1.0
	10-50	2.3	1.4	1.0	1.0	1.0	1.0
	50-100	1.4	1.1	1.0	1.0	1.0	1.0
	100-200	1.1	1.0	1.0	1.0	1.0	1.0
	200-300	1.0	1.0	1.0	1.0	1.0	1.0
	300-400	1.0	1.0	1.0	1.0	1.0	1.0
	400-500	1.0	1.0	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

b) $100 \text{ m} < X < 200 \text{ m}$

Cd	L (m)	$K_{d,vul}$ (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	15.5	8.0	1.9	1.1	1.0	1.0
	10-50	4.7	2.8	1.1	1.0	1.0	1.0
	50-100	2.9	1.7	1.0	1.0	1.0	1.0
	100-200	1.7	1.2	1.0	1.0	1.0	1.0
	200-300	1.3	1.1	1.0	1.0	1.0	1.0
	300-400	1.2	1.0	1.0	1.0	1.0	1.0
	400-500	1.1	1.0	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

c) $X > 200 \text{ m}$

Cd	L (m)	$K_{d,vul}$ (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	19.2	9.9	2.2	1.2	1.0	1.0
	10-50	8.0	3.9	1.3	1.0	1.0	1.0
	50-100	4.3	2.5	1.1	1.0	1.0	1.0
	100-200	2.5	1.5	1.0	1.0	1.0	1.0
	200-300	1.9	1.2	1.0	1.0	1.0	1.0
	300-400	1.5	1.1	1.0	1.0	1.0	1.0
	400-500	1.3	1.0	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

Tabel 2: Attenuatiefactoren voor verspreiding van Cd in een zandige aquifer

De berekende $AF_{\text{grondwater}}$ voor PAK's (behalve naftaleen), VOCl, cyanides, hexaan, heptaan en octaan verschillen in functie van de grootte van de groeve, het gehalte organische koolstof van het opvulmateriaal en de afstand tot de receptor. Onderlinge verschillen zijn klein en enkel bepaald door de K_{oc} -waarde van de stof.

De waarden voor antraceen staan in Tabel 3 en alle waarden staan in Bijlage B en D, waar tevens de scenario's zijn aangeduid waarvoor het respecteren van BSN type III voldoende is om geen overschrijding van de bodemsaneringsnorm voor grondwater te hebben aan de receptor.

a) $30\text{ m} < X < 100\text{ m}$

antraceen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	2.7	1.6	1.1	1.0	1.0	1.0
	10-50	1.1	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

b) $100\text{ m} < X < 200\text{ m}$

antraceen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	6.8	3.5	1.7	1.2	1.1	1.0
	10-50	1.7	1.2	1.0	1.0	1.0	1.0
	50-100	1.2	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

c) $X > 200\text{ m}$

antraceen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	11.2	5.7	2.6	1.6	1.2	1.0
	10-50	2.5	1.5	1.1	1.0	1.0	1.0
	50-100	1.5	1.1	1.0	1.0	1.0	1.0
	100-200	1.1	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

Tabel 2: Attenuatiefactoren voor verspreiding in grondwater van antraceen

Voor benzeen, toluen, ethylbenzeen, xylenen, styreen, MTBE en naftaleen is degradatie in het grondwater (tijdens het traject van groeve tot receptor) in rekening gebracht. De afbraak wordt beschouwd als een eerste orde reactie met snelheidsconstanten weergegeven in Tabel 4. Deze constanten zijn de minimale waarden teruggevonden in literatuur (Suthersan, 1996) en vertegenwoordigen een conservatieve schatting van de degradatie van deze stoffen.

Stof	Snelheidsconstante k (j^{-1})
benzeen	0,3514
tolueen	9,0357
ethylbenzeen	1,1096
xylenen	0,7028

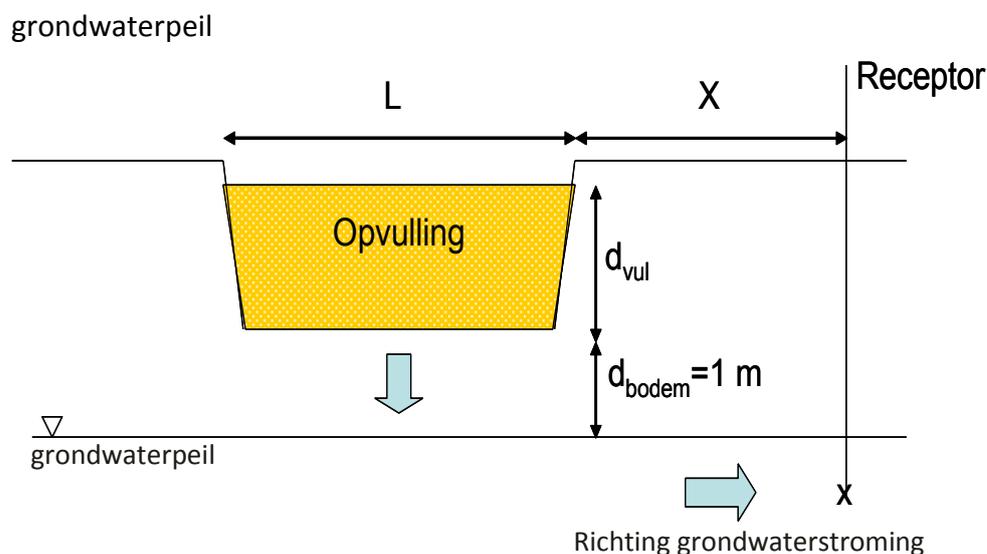
styreen	1,2048
MTBE	0.7028
naftaleen	0,9806

Tabel 4: Literatuurwaarden voor de snelheidsconstanten voor eerste orde afbraak van BTEXS, MTBE en naftaleen (naar Suthersan, 1996)

De berekende $AF_{\text{grondwater}}$ voor benzeen, toluen, ethylbenzeen, xylenen, styreen, MTBE en naftaleen staan in Bijlage B, waar de scenario's zijn aangeduid waarvoor het respecteren van BSN type III voldoende is om overschrijding van de BSN grondwater aan de receptor te voorkomen. Uit Bijlage B blijkt dat voor toluen de bodemsaneringsnormen voor elke grootte van groeve en f_{oc} beschermend genoeg zijn voor elke receptor. Voor ethylbenzeen, xylenen, styreen, naftaleen en MTBE zijn de bodemsaneringsnormen beschermend genoeg voor een receptor indien de receptor op een afstand van 200 m of meer ligt.

3.2.2 Opvulling geheel in de onverzadigde zone (boven de natuurlijke grondwatertafel)

Voor een opvulling die zich volledig in de onverzadigde zone bevindt, dient de bijkomende attenuatie ten gevolge van transport door de bodem naar het grondwater bepaald te worden. Een schematische voorstelling van een opvulling in de onverzadigde zone is gegeven in Figuur 2.



Figuur 2: Schematische voorstelling van een opvulling in de onverzadigde zone

Bij de berekening van attenuatiefactoren is gebruik gemaakt van hetzelfde verspreidingsmodel om attenuatie te berekenen van de toepassing tot aan de grondwatertafel (zie Bijlage A). Een standaardafstand van 1 m tussen de opvulling en de grondwatertafel is gehanteerd. Naast sorptie en dispersie is ook vervluchtiging in rekening gebracht. Met afbraak is in deze scenario's geen rekening gehouden.

Attenuatiefactoren voor diverse scenario's zijn gegeven in Bijlage C en E. De attenuatiefactoren worden gegeven voor de verschillende diktes van opvulling en verschillende types van bodem (gekaracteriseerd door de K_d bodem waarde/ f_{oc} bodem waarde). Bij de berekening van de AF_{bodem} -waarden is uitgegaan van concentraties in de onderliggende bodem gelijk aan de streefwaarde (zoals vastgelegd in Bijlage III van Vlarebo) of achtergrondniveau (Bijlage 2.4.1 van VLAREM II) voor de metalen en gelijk aan 0 voor de overige Vlarebo-stoffen. Ook wordt verondersteld dat infiltratie in de bodem homogeen en verticaal plaatsvindt met een infiltratie flux van 265 mm/j. Indien uit de inventarisatiefase blijkt dat de situatie zeer sterk afwijkt van deze assumpties (bv. scheuren of spleten in de onderliggende bodemlaag) kunnen de berekende AF_{bodem} niet toegepast worden. In dergelijke situaties kan men de AF_{bodem} gelijk aan 1 stellen (minimale waarde en zeker beschermend genoeg).

De globale attenuatie voor een opvulling geheel in de onverzadigde zone wordt bepaald door de attenuatie in de (onverzadigde) bodem te vermenigvuldigen met de attenuatie in het grondwater:

$$AF = AF_{grondwater} AF_{bodem}$$

3.3 BEREKENING VAN DE TOELAATBARE CONCENTRATIE IN DE OPVULLING

Eens de attenuatiefactor gekend, kan de kritische grondwaterconcentratie $c_{gw,c}$ teruggerekend worden naar een toetsingswaarde voor het opvulmateriaal, een toelaatbare totaalconcentratie $c_{0,max}$ (mg/kg DS).

$$c_{0,max} = c_{gw,c} AF (K_d + \frac{\theta}{\rho})$$

Met

$c_{0,max}$	toetsingswaarde voor totaalconcentratie in de opvulling (mg/kg DS)
$c_{gw,c}$	kritische grondwaterconcentratie (mg/L)
AF	globale attenuatiefactor (zie vgl. 7)
K_d	bodem-water verdelingscoëfficiënt van de aangevoerde bodem (L/kg)
θ	volumetrisch vochtgehalte van de aangevoerde bodem (L/L)
ρ	droge stofdichtheid van de aangevoerde bodem (kg/L).

Van een partij aangevoerde bodemmaterialen dienen dus zowel de K_d als de totaalconcentratie gekend te zijn om evaluatie van het bodemmateriaal toe te laten. Op basis van de AF (tabellen in bijlage B en bijlage C) en de K_d kan de toetsingswaarde $c_{0,max}$ berekend worden. De toetsingswaarde dient nog bijgesteld te worden op basis van de waarde voor vrij gebruik en op basis van de bodemsaneringsnorm van toepassing op de groeve. Indien de berekende toetsingswaarde lager ligt dan de waarde voor vrij gebruik, dient de waarde voor vrij gebruik toegepast te worden. Indien de toetsingswaarde hoger ligt dan de waarde voor vrij gebruik, dan moet aan volgende voldaan worden.

$$TW = \text{MIN}(\text{MAX}(c_{0,max}; WVG); 80\%BSNI) \quad \text{voor bestemmingstype I}$$

$TW = \text{MIN}(\text{MAX}(c_{0,\text{max}}; WVG); 80\%BSNII)$	voor bestemmingstype II
$TW = \text{MIN}(\text{MAX}(c_{0,\text{max}}; WVG); 80\%BSNIII)$	voor bestemmingstype III
$TW = \text{MIN}(\text{MAX}(c_{0,\text{max}}; WVG); BSNIII)$	voor bestemmingstype IV
$TW = \text{MIN}(\text{MAX}(c_{0,\text{max}}; WVG); BSNIII)$	voor bestemmingstype V

Indien de gemeten totaalconcentratie deze toetsingswaarde TW niet overschrijdt, vormen de aangevoerde bodemmaterialen geen risico voor overschrijding van de kritische grondwaterconcentratie in de receptor. Indien de gemeten totaalconcentratie de toetsingswaarde overschrijdt, voldoen de aangevoerde bodemmaterialen niet en kan risico voor de receptor niet uitgesloten worden.

3.4 VOORBEELDBEREKENING

3.4.1 Bepalen van de attenuatie tussen opvulling en receptor

De methodiek voor het berekenen van toetsingswaarden wordt geïllustreerd aan de hand van het voorbeeld van een leemgroeve. Uit het hydrogeologisch model wordt afgeleid dat de groeve een lengte L van 88 m heeft in de richting van de grondwaterstroming. Op 75 m van de rand van de groeve (in de richting van de grondwaterstroming) ligt een grondwateronttrekking die als receptor geïdentificeerd is in de voorstudie. De groeve ligt in bestemmingstype IV, heeft een diepte van 9 m en is volledig in de onverzadigde zone gelegen, met een laag van 2,5 m dikte tussen de bodem van de groeve en de natuurlijke grondwatertafel. Deze laag is gekarakteriseerd tijdens eerste fase van de studie en heeft een pH van 6,2, een kleigehalte van 11,9% en een organische stofgehalte van 2%. A.h.v. deze gegevens worden K_d-waarden voor de bodemlaag afgeleid.

Invoer

L=88 m

X=75 m

d_{vul}=9 m

%OC,bodem = 2

K_{d,bodem} As = 1080 l/kg

K_{d,bodem} Cd = 459 l/kg

K_{d,bodem} Cr = 9680 l/kg

K_{d,bodem} Cu = 763 l/kg

K_{d,bodem} Hg = 5710 l/kg

K_{d,bodem} Pb = 36900 l/kg

K_{d,bodem} Ni = 724 l/kg

K_{d,bodem} Zn = 492 l/kg

Op basis van deze gegevens en de AF-factoren uit Bijlage B en C kan Tabel 4 opgesteld. Deze tabel geeft voor alle VLAREBO-stoffen de AF-waarden karakteristiek voor de groeve in functie van de K_d/foc-waarde van het vulmateriaal.

AF _{grondwater}		K _{d,vul} (l/kg)					
L = 88 m		<50	50-100	100-500	500-1000	1000-2000	>2000
As		4.2	2.3	1.1	1.0	1.0	1.0
Cd		2.0	1.3	1.0	1.0	1.0	1.0
Cr		33.7	17.4	3.8	2.1	1.3	1.0
Cu		1.1	1.0	1.0	1.0	1.0	1.0
Hg		25.4	13.1	2.9	1.7	1.2	1.0
Ni		3.2	1.8	1.0	1.0	1.0	1.0
Pb		>100	55.5	11.7	5.9	3.2	1.6
Zn		2.0	1.3	1.0	1.0	1.0	1.0
AF _{grondwater}		%OC _{vul}					
L = 88 m		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
benzeen		1.5	1.5	1.5	1.5	1.5	1.5
ethylbenzeen		3.4	3.4	3.4	3.4	3.4	3.4
tolueen		>100	>100	>100	>100	>100	>100
xyleen		2.2	2.2	2.2	2.2	2.2	2.2
styreen		3.8	3.8	3.8	3.8	3.8	3.8
hexaan		1.0	1.0	1.0	1.0	1.0	1.0
heptaan		1.0	1.0	1.0	1.0	1.0	1.0
octaan		1.0	1.0	1.0	1.0	1.0	1.0
MTBE		2.2	2.2	2.2	2.2	2.2	2.2
acenafteen		1.0	1.0	1.0	1.0	1.0	1.0
acenaftyleen		1.0	1.0	1.0	1.0	1.0	1.0
antraceen		1.0	1.0	1.0	1.0	1.0	1.0
benzo(a)antraceen		1.0	1.0	1.0	1.0	1.0	1.0
benzo(a)pyreen		1.0	1.0	1.0	1.0	1.0	1.0
benzo(b)fluoranteen		1.0	1.0	1.0	1.0	1.0	1.0
benzo(ghi)peryleen		1.0	1.0	1.0	1.0	1.0	1.0
benzo(k)fluoranteen		1.0	1.0	1.0	1.0	1.0	1.0
chryseen		1.0	1.0	1.0	1.0	1.0	1.0
dibenz(a,h)antraceen		1.0	1.0	1.0	1.0	1.0	1.0
fenantreen		1.0	1.0	1.0	1.0	1.0	1.0
fluoranteen		1.0	1.0	1.0	1.0	1.0	1.0
fluoreen		1.0	1.0	1.0	1.0	1.0	1.0
indeno(123-cd)pyreen		1.0	1.0	1.0	1.0	1.0	1.0
naftaleen		3.0	3.0	3.0	3.0	3.0	3.0
pyreen		1.0	1.0	1.0	1.0	1.0	1.0
1,1,1-trichloorethaan		1.0	1.0	1.0	1.0	1.0	1.0
1,1,2-trichloorethaan		1.0	1.0	1.0	1.0	1.0	1.0
1,1-dichloorethaan		1.0	1.0	1.0	1.0	1.0	1.0
1,2-dichloorbenzeen		1.0	1.0	1.0	1.0	1.0	1.0
1,2-dichloorethaan		1.0	1.0	1.0	1.0	1.0	1.0
1,3-dichloorbenzeen		1.0	1.0	1.0	1.0	1.0	1.0
1,4-dichloorbenzeen		1.0	1.0	1.0	1.0	1.0	1.0
cis-1,2-dichlooretheen		1.0	1.0	1.0	1.0	1.0	1.0
dichloormethaan		1.0	1.0	1.0	1.0	1.0	1.0
hexachloorbenzeen		1.0	1.0	1.0	1.0	1.0	1.0
monochloorbenzeen		1.0	1.0	1.0	1.0	1.0	1.0
pentachloorbenzeen		1.0	1.0	1.0	1.0	1.0	1.0
tetrachloorbenzeen		1.0	1.0	1.0	1.0	1.0	1.0

tetrachlooretheen	1.0	1.0	1.0	1.0	1.0	1.0
tetrachloormethaan	1.0	1.0	1.0	1.0	1.0	1.0
trans-1,2-dichlooretheen	1.0	1.0	1.0	1.0	1.0	1.0
trichloorbenzeen	1.0	1.0	1.0	1.0	1.0	1.0
trichlooretheen	1.0	1.0	1.0	1.0	1.0	1.0
trichloormethaan	1.0	1.0	1.0	1.0	1.0	1.0
vinylchloride	1.0	1.0	1.0	1.0	1.0	1.0
cyanide	1.0	1.0	1.0	1.0	1.0	1.0

AF _{bodem}	d _{vul} = 9 m	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
As (K _d 1080 l/kg)	2.6	1.6	1.0	1.0	1.0	1.0	
Cd (K _d 459 l/kg)	1.1	1.0	1.0	1.0	1.0	1.0	
Cr (K _d 9680 l/kg)	6.8	3.0	1.1	1.0	1.0	1.0	
Cu (K _d 763 l/kg)	1.6	1.1	1.0	1.0	1.0	1.0	
Hg (K _d 5710 l/kg)	7.0	3.0	1.1	1.0	1.0	1.0	
Ni (K _d 724 l/kg)	1.6	1.1	1.0	1.0	1.0	1.0	
Pb (K _d 36900 l/kg)	6.9	3.0	1.1	1.0	1.0	1.0	
Zn (K _d 492 l/kg)	1.1	1.0	1.0	1.0	1.0	1.0	
%OC _{bodem} = 2	%OC _{vul}						
	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0	
benzeen	1.2	1.2	1.1	1.0	1.0	1.0	
ethylbenzeen	1.3	1.1	1.0	1.0	1.0	1.0	
tolueen	1.3	1.2	1.1	1.0	1.0	1.0	
xyleen	1.3	1.1	1.0	1.0	1.0	1.0	
styreen	1.1	1.0	1.0	1.0	1.0	1.0	
hexaan	3.3	2.2	1.4	1.2	1.0	1.0	
heptaan	3.6	2.1	1.3	1.1	1.1	1.0	
octaan	2.6	1.6	1.2	1.1	30.0	10.0	
MTBE	1.0	1.0	1.0	1.0	1.0	1.0	
acenaftteen	1.1	1.0	1.0	1.0	1.0	1.0	
acenaftyleen	1.1	1.0	1.0	1.0	1.0	1.0	
antraceen	1.1	1.0	1.0	1.0	1.0	1.0	
benzo(a)antraceen	1.1	1.0	1.0	1.0	1.0	1.0	
benzo(a)pyreen	1.1	1.0	1.0	1.0	1.0	1.0	
benzo(b)fluoranteen	1.1	1.0	1.0	1.0	1.0	1.0	
benzo(ghi)peryleen	1.1	1.0	1.0	1.0	1.0	1.0	
benzo(k)fluoranteen	1.1	1.0	1.0	1.0	1.0	1.0	
chryseen	1.1	1.0	1.0	1.0	1.0	1.0	
dibenz(ah)antraceen	1.1	1.0	1.0	1.0	1.0	1.0	
fenantreen	1.1	1.0	1.0	1.0	1.0	1.0	
fluoranteen	1.1	1.0	1.0	1.0	1.0	1.0	
fluoreen	1.1	1.0	1.0	1.0	1.0	1.0	
indeno(123-cd)pyreen	1.1	1.1	1.1	1.0	1.0	1.0	
naftaleen	1.1	1.0	1.0	1.0	1.0	1.0	
pyreen	1.1	1.0	1.0	1.0	1.0	1.0	
1,1,1-trichloorethaan	1.3	1.2	1.1	1.0	1.0	1.0	
1,1,2-trichloorethaan	1.1	1.0	1.0	1.0	1.0	1.0	
1,1-dichloorethaan	1.1	1.1	1.1	1.0	1.0	1.0	
1,2-dichloorbenzeen	1.1	1.0	1.0	1.0	1.0	1.0	

1,2-dichloorethaan	1.1	1.0	1.0	1.0	1.0	1.0
1,3-dichloorbenzeen	1.1	1.0	1.0	1.0	1.0	1.0
1,4-dichloorbenzeen	1.1	1.0	1.0	1.0	1.0	1.0
cis-1,2-dichlooretheen	1.1	1.1	1.0	1.0	1.0	1.0
dichloormethaan	1.1	1.1	1.0	1.0	1.0	1.0
hexachloorbenzeen	1.1	1.0	1.0	1.0	1.0	1.0
monochloorbenzeen	1.2	1.1	1.0	1.0	1.0	1.0
pentachloorbenzeen	1.1	1.0	1.0	1.0	1.0	1.0
tetrachloorbenzeen	1.1	1.0	1.0	1.0	1.0	1.0
tetrachlooretheen	1.3	1.1	1.0	1.0	1.0	1.0
tetrachloormethaan	1.5	1.2	1.1	1.0	1.0	1.0
trans-1,2-dichlooretheen	1.2	1.2	1.1	1.0	1.0	1.0
trichloorbenzeen	1.1	1.0	1.0	1.0	1.0	1.0
trichlooretheen	1.2	1.1	1.0	1.0	1.0	1.0
trichloormethaan	1.2	1.1	1.1	1.0	1.0	1.0
vinylchloride	1.8	1.7	1.6	1.5	1.4	1.0
cyanide	2.8	1.7	1.2	1.1	1.0	1.0

Tabel 4: Attenuatie-factoren karakteristiek voor de groeve.

3.4.2 Berekening van de toelaatbare concentratie in de opvulling

Men zou de groeve willen opvullen met bodem die een pH van 5, een kleigehalte van 7,8% en een organische stofgehalte van 1,8% heeft. Op basis van deze gegevens wordt de K_d -waarde van de verschillende metalen geschat op basis van de relaties uit Tabel 3. Uit Tabel 4 kunnen dan de juiste AF-factoren geselecteerd worden en kan de maximaal toelaatbare concentratie in het vulmateriaal berekend worden. De berekende waarde wordt nog bijgesteld indien ze lager dan de waarde voor vrij gebruik of hoger dan 80% van de bodemsaneringsnorm (voor bestemmingstype I-III) of hoger dan bodemsaneringsnorm type III ligt (voor bestemmingstype IV-V). Het resultaat is voor elke Vlarebo-stof een toetsingswaarde waaraan de totaalconcentratie in het vulmateriaal moet voldoen om risico voor de receptor te kunnen uitsluiten (zie Tabel 5). In dit geval wordt als kritische concentratie in grondwater de bodemsaneringsnorm voor grondwater gehanteerd.

Invoer

$$\%OC_{,vul} = 1.8$$

$$K_{d,vul} \text{ As} = 637 \text{ l/kg}$$

$$K_{d,vul} \text{ Cd} = 129 \text{ l/kg}$$

$$K_{d,vul} \text{ Cr} = 4470 \text{ l/kg}$$

$$K_{d,vul} \text{ Cu} = 360 \text{ l/kg}$$

$$K_{d,vul} \text{ Hg} = 5710 \text{ l/kg}$$

$$K_{d,vul} \text{ Pb} = 9780 \text{ l/kg}$$

$$K_{d,vul} \text{ Ni} = 363 \text{ l/kg}$$

$$K_{d,vul} \text{ Zn} = 91.2 \text{ l/kg}$$

	AF _{grondwater}	AF _{bodem}	AF	C _{gw,c} µg/l	C _{0,max} mg/kg	WVG mg/kg	BSNIII mg/kg	TW mg/kg
As	1.0	1.0	1.0	20	12.7	35	103	35
Cd	1.0	1.0	1.0	5	0.6	1.2	6	1.2
Cr	1.0	1.0	-	50	-	91	240	240
Cu	1.0	1.0	1.0	100	36.0	72	197	72
Hg	1.0	1.0	-	1	-	1.7	4.8	4.8
Ni	1.0	1.0	1.0	40	14.5	120	560	120
Pb	1.6	1.0	1.6	20	313	56	95	95
Zn	1.3	1.0	1.3	500	59.4	200	333	200
benzeen	1.5	1.0	1.5	10	0.02	0.3	0.5	0.3
ethylbenzeen	3.4	1.0	3.4	300	3.8	0.8	10	3.8
tolueen	>100	1.0	-	700	-	1.6	7	7
xyleen	2.2	1.0	2.2	500	4.0	1.2	11	4.0
styreen	3.8	1.0	3.8	20	1.0	0.32	3	1.0
hexaan	1.0	1.2	-	180	-	0.6	1.5	1.5
heptaan	1.0	1.1	-	3000	-	10	25	25
octaan	1.0	1.1	1.1	600	135	30	90	90
MTBE	2.2	1.0	2.2	300	0.2	1	9	1
acenaften	1.0	1.0	-	180	-	4.6	14	14
acenaftyleen	1.0	1.0	-	70	-	0.6	1	1
antraceen	1.0	1.0	-	75	-	1.5	70	70
benzo(a)antraceen	1.0	1.0	-	7	-	2.5	10.5	10.5
benzo(a)pyreen	1.0	1.0	-	0.7	-	0.3	3.6	3.6
benzo(b)fluoranteen	1.0	1.0	1.0	1.2	11.7	1.1	7	7
benzo(ghi)peryleen	1.0	1.0	1.0	0.26	1.9	35	3920	35
benzo(k)fluoranteen	1.0	1.0	1.0	0.76	6.3	0.6	11.5	6.3
chryseen	1.0	1.0	1.0	1.5	14.2	5.1	180	14.2
dibenz(a,h)antraceen	1.0	1.0	-	0.5	-	0.3	2.9	2.9
fenantreen	1.0	1.0	1.0	120	88	30	65	65
fluoranteen	1.0	1.0	1.0	4	12	10.1	30	12
fluoreen	1.0	1.0	1.0	120	53	19	3950	53
indeno(123-cd)pyreen	1.0	1.0	1.0	0.1	20	0.55	20	20
naftaleen	3.0	1.0	3.0	60	4.8	0.8	5	4.8
pyreen	1.0	1.0	1.0	90	123	62	395	123
1,1,1-trichloorethaan	1.0	1.0	1.0	500	1	4	13	4
1,1,2-trichloorethaan	1.0	1.0	1.0	12	0.02	0.08	0.6	0.08
1,1-dichloorethaan	1.0	1.0	1.0	330	0.25	0.08	5	0.25
1,2-dichloorbenzeen	1.0	1.0	1.0	1000	9.45	14	110	14
1,2-dichloorethaan	1.0	1.0	1.0	30	0.02	0.06	0.1	0.06
1,3-dichloorbenzeen	1.0	1.0	1.0	1000	18	16	140	18
1,4-dichloorbenzeen	1.0	1.0	1.0	300	2.7	1.6	15	2.7
cis-1,2-dichlooretheen	1.0	1.0	1.0	50	0.05	0.16	0.7	0.16
dichloormethaan	1.0	1.0	1.0	20	0.01	0.05	0.35	0.05
hexachloorbenzeen	1.0	1.0	-	1	-	0.06	0.1	0.1
monochloorbenzeen	1.0	1.0	1.0	300	1	1	8	1
pentachloorbenzeen	1.0	1.0	-	2.4	-	0.2	1.3	1.3
tetrachloorbenzeen	1.0	1.0	-	9	-	0.04	0.3	0.3
tetrachlooretheen	1.0	1.0	1.0	40	0.20	0.28	1.4	0.28
tetrachloormethaan	1.0	1.0	1.0	2	0.01	0.04	0.1	0.04
trans-1,2-dichlooretheen	1.0	1.0	1.0	50	0.05	0.16	0.7	0.16

	AF _{grondwater}	AF _{bodem}	AF	C _{gw,c} µg/l	C _{0,max} mg/kg	WVG mg/kg	BSNIII mg/kg	TW mg/kg
trichloorbenzeen	1.0	1.0	1.0	20	0.56	0.2	2	0.56
trichlooretheen	1.0	1.0	1.0	70	0.12	0.26	1.4	0.26
trichloormethaan	1.0	1.0	-	200	-	0.06	0.1	0.1
vinylchloride	1.0	1.5	1.5	5	0.003	0.06	0.1	0.06
vrij cyanide	1.0	1.1	1.1	70	1	3	5	3

Tabel 5: Toetsingswaarden voor de groeve en het vulmateriaal.

4 REFERENTIES

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BIJLAGE A: BEPALING VAN DE ATTENUATIEFACTOR

Het grondwater verspreidingsmodel gaat uit van een evenwichtsverdeling van de contaminant tussen de vaste fase, vloeibare fase en lucht van de bodem en brengt volgende processen in rekening:

- convectie: beweging met het bodem- en grondwater
- diffusie: in de water- en luchtfase
- dispersie: spreiding ten gevolge van het poreuze en heterogene karakter van de bodemmatrix
- vervluchtiging

De verspreiding van contaminanten in het bodem/grondwater continuüm wordt wiskundig uitgedrukt onder de vorm van de convectie-dispersie vergelijking (CDE, hier weergegeven voor ééndimensionaal stoftransport):

$$\frac{\partial \theta_w C_w}{\partial t} + \frac{\partial \rho_b C_s}{\partial t} + \frac{\partial \theta_a C_a}{\partial t} = \frac{\partial}{\partial z} (\theta_w D_w \frac{\partial C_w}{\partial z}) + \frac{\partial}{\partial z} (\theta_a D_a \frac{\partial C_a}{\partial z}) - \frac{\partial q C_w}{\partial z} - \mu_w \theta_w C_w - \mu_s \rho C_s - \mu_a \theta_a C_a \quad (\text{A.1})$$

met:

C_w	concentratie in de bodemoplossing (kg/m ³)
C_a	concentratie in de bodemlucht (kg/m ³)
C_s	concentratie op de vaste fase (kg/kg)
D_w	longitudinale hydrodynamische dispersiecoëfficiënt (m ² /s)
D_a	effectieve diffusiecoëfficiënt (m ² /s)
q	Darcy waterflux (m/s)
ρ	schijnbare droge dichtheid (kg/m ³)
θ_w	volumetrisch vochtgehalte (m ³ /m ³)
θ_a	volumetrisch luchtgehalte (m ³ /m ³)
μ_w, μ_a, μ_s	eerste-orde afbraakconstanten in de water-, lucht- en vaste fase (1/s)
z	de afstand tot de rand (m)
t	de tijd (s)

De wiskundige oplossing van de CDE voorspelt de contaminantconcentratie $C(z,t)$ op plaats z op tijd t voor een gegeven initiële conditie (bij toepassing van een opvulling de concentratie in het ontvangende bodem- en grondwater) en gekende randvoorwaarden aan de bovenste rand (infiltratieflux gelijk aan het neerslagsurplus, een exponentieel dalende concentratieterm).

Het model berekent aldus de concentratie van de contaminant aan de onderzijde van het bodemprofiel (met toepassing NV bouwstof). Daaruit wordt de concentratie in het grondwater berekend door volledige menging te veronderstellen van de concentraties die uitlogen uit de bodem met het grondwater dat een bepaalde

gemeten initiële concentratie heeft. De grondwaterconcentratie onder de beschouwde toepassing wordt dan gegeven door:

$$C_{gw,n} = \frac{C_{w,n}Lq + C_{gw,0}kih}{qL + kih}$$

Met:

C_{gw}	concentratie in het grondwater ($\mu\text{g/l}$)
C_w	concentratie aan de onderzijde van het bodemprofiel ($\mu\text{g/l}$)
$C_{gw,0}$	initiële grondwaterconcentratie (stroomopwaarts van terrein) ($\mu\text{g/l}$)
L	lengte van de toepassing in stromingsrichting van het grondwater (m)
Q	infiltratieflux (m/j)
k	verzadigde doorlaatbaarheid van de aquifer (m/j)
i	verhang van de aquifer (m/m)
h	menghoogte in de watervoerende laag (m)

De aldus berekende grondwaterconcentratie die ontstaat ten gevolge van uitloging uit de bodem, wordt vervolgens als randvoorwaarde gebruikt voor de verspreidingsberekeningen in grondwater. Vergelijking A.1 wordt dus zowel voor verspreiding in de onverzadigde zone als de verzadigde zone gebruikt.

BIJLAGE B: ATTENUATIEFACTOR VOOR VERSPREIDING IN GRONDWATER MET MKN UIT VLAREBO

Volgende tabellen geven $AF_{\text{grondwater}}$ voor de verschillende Vlarebo-parameters voor verschillende afmetingen van de groeve, types van aquifer, afstand tot de receptor en K_d van het vulmateriaal. De milieukwaliteitsnorm in grondwater is de bodemsaneringsnorm voor grondwater (VLAREBO bijlage IV; ligt op het niveau van de drinkwaternorm). Binnen de tabellen zijn domeinen afgebakend (grijze cursief gedrukte gebieden) die de scenario's aflijnen waarbij concentraties lager dan BSN type III geen aanleiding geven tot overschrijding van de bodemsaneringsnorm voor grondwater aan de receptor en waar een verdere berekening dus niet nodig is.

B1 Zware metalen en metalloïden

B1.1 Grind

a) 30 m < X < 100 m

As	L (m)	$K_{d,vul}$ (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10	<10	1.5	1.1	1.0	1.0	1.0	1.0
10-50	10-50	1.0	1.0	1.0	1.0	1.0	1.0
50-100	50-100	1.0	1.0	1.0	1.0	1.0	1.0
100-200	100-200	1.0	1.0	1.0	1.0	1.0	1.0
200-300	200-300	1.0	1.0	1.0	1.0	1.0	1.0
300-400	300-400	1.0	1.0	1.0	1.0	1.0	1.0
400-500	400-500	1.0	1.0	1.0	1.0	1.0	1.0
>500	>500	1.0	1.0	1.0	1.0	1.0	1.0

Cd	L (m)	$K_{d,vul}$ (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10	<10	1.4	1.1	1.0	1.0	1.0	1.0
10-50	10-50	1.0	1.0	1.0	1.0	1.0	1.0
50-100	50-100	1.0	1.0	1.0	1.0	1.0	1.0
100-200	100-200	1.0	1.0	1.0	1.0	1.0	1.0
200-300	200-300	1.0	1.0	1.0	1.0	1.0	1.0
300-400	300-400	1.0	1.0	1.0	1.0	1.0	1.0
400-500	400-500	1.0	1.0	1.0	1.0	1.0	1.0
>500	>500	1.0	1.0	1.0	1.0	1.0	1.0

Cr	L (m)	$K_{d,vul}$ (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10	<10	1.5	1.1	1.0	1.0	1.0	1.0

10-50	1.0	1.0	1.0	1.0	1.0	1.0
50-100	1.0	1.0	1.0	1.0	1.0	1.0
100-200	1.0	1.0	1.0	1.0	1.0	1.0
200-300	1.0	1.0	1.0	1.0	1.0	1.0
300-400	1.0	1.0	1.0	1.0	1.0	1.0
400-500	1.0	1.0	1.0	1.0	1.0	1.0
>500	1.0	1.0	1.0	1.0	1.0	1.0

Cu	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	1.5	1.1	1.0	1.0	1.0	1.0
	10-50	1.0	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	200-300	1.0	1.0	1.0	1.0	1.0	1.0
	300-400	1.0	1.0	1.0	1.0	1.0	1.0
	400-500	1.0	1.0	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

Hg	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	1.5	1.1	1.0	1.0	1.0	1.0
	10-50	1.0	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	200-300	1.0	1.0	1.0	1.0	1.0	1.0
	300-400	1.0	1.0	1.0	1.0	1.0	1.0
	400-500	1.0	1.0	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

Ni	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	1.5	1.1	1.0	1.0	1.0	1.0
	10-50	1.0	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	200-300	1.0	1.0	1.0	1.0	1.0	1.0
	300-400	1.0	1.0	1.0	1.0	1.0	1.0
	400-500	1.0	1.0	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

Pb	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	1.5	1.1	1.0	1.0	1.0	1.0
	10-50	1.0	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	200-300	1.0	1.0	1.0	1.0	1.0	1.0
	300-400	1.0	1.0	1.0	1.0	1.0	1.0
	400-500	1.0	1.0	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

Zn	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	1.5	1.1	1.0	1.0	1.0	1.0
	10-50	1.0	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	200-300	1.0	1.0	1.0	1.0	1.0	1.0
	300-400	1.0	1.0	1.0	1.0	1.0	1.0
	400-500	1.0	1.0	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

b) 100 m < X < 200 m

As	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	2.9	1.7	1.0	1.0	1.0	1.0
	10-50	1.1	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	200-300	1.0	1.0	1.0	1.0	1.0	1.0
	300-400	1.0	1.0	1.0	1.0	1.0	1.0
	400-500	1.0	1.0	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

Cd	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	2.8	1.7	1.0	1.0	1.0	1.0
	10-50	1.1	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	200-300	1.0	1.0	1.0	1.0	1.0	1.0
	300-400	1.0	1.0	1.0	1.0	1.0	1.0
	400-500	1.0	1.0	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

Cr	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	2.9	1.7	1.0	1.0	1.0	1.0
	10-50	1.1	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	200-300	1.0	1.0	1.0	1.0	1.0	1.0
	300-400	1.0	1.0	1.0	1.0	1.0	1.0
	400-500	1.0	1.0	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

Cu	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	2.9	1.7	1.0	1.0	1.0	1.0
	10-50	1.1	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0

200-300	1.0	1.0	1.0	1.0	1.0	1.0
300-400	1.0	1.0	1.0	1.0	1.0	1.0
400-500	1.0	1.0	1.0	1.0	1.0	1.0
>500	1.0	1.0	1.0	1.0	1.0	1.0

Hg	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	2.9	1.7	1.0	1.0	1.0	1.0
	10-50	1.1	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	200-300	1.0	1.0	1.0	1.0	1.0	1.0
	300-400	1.0	1.0	1.0	1.0	1.0	1.0
	400-500	1.0	1.0	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

Ni	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	2.9	1.7	1.0	1.0	1.0	1.0
	10-50	1.1	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	200-300	1.0	1.0	1.0	1.0	1.0	1.0
	300-400	1.0	1.0	1.0	1.0	1.0	1.0
	400-500	1.0	1.0	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

Pb	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	2.9	1.7	1.0	1.0	1.0	1.0
	10-50	1.1	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	200-300	1.0	1.0	1.0	1.0	1.0	1.0
	300-400	1.0	1.0	1.0	1.0	1.0	1.0
	400-500	1.0	1.0	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

Zn	L (m)	$K_{d,vul}$ (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	2.9	1.7	1.0	1.0	1.0	1.0
	10-50	1.1	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	200-300	1.0	1.0	1.0	1.0	1.0	1.0
	300-400	1.0	1.0	1.0	1.0	1.0	1.0
	400-500	1.0	1.0	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

c) X>200 m

As	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	4.7	2.6	1.1	1.0	1.0	1.0
	10-50	1.4	1.1	1.0	1.0	1.0	1.0
	50-100	1.1	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	200-300	1.0	1.0	1.0	1.0	1.0	1.0
	300-400	1.0	1.0	1.0	1.0	1.0	1.0
	400-500	1.0	1.0	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

Cd	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	4.3	2.4	1.1	1.0	1.0	1.0
	10-50	1.4	1.1	1.0	1.0	1.0	1.0
	50-100	1.1	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	200-300	1.0	1.0	1.0	1.0	1.0	1.0
	300-400	1.0	1.0	1.0	1.0	1.0	1.0
	400-500	1.0	1.0	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

Cr	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	4.7	2.6	1.1	1.0	1.0	1.0
	10-50	1.4	1.1	1.0	1.0	1.0	1.0
	50-100	1.1	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	200-300	1.0	1.0	1.0	1.0	1.0	1.0
	300-400	1.0	1.0	1.0	1.0	1.0	1.0
	400-500	1.0	1.0	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

Cu	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	4.6	2.5	1.1	1.0	1.0	1.0
	10-50	1.4	1.1	1.0	1.0	1.0	1.0
	50-100	1.1	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0

200-300	1.0	1.0	1.0	1.0	1.0	1.0
300-400	1.0	1.0	1.0	1.0	1.0	1.0
400-500	1.0	1.0	1.0	1.0	1.0	1.0
>500	1.0	1.0	1.0	1.0	1.0	1.0

Hg	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	4.8	2.6	1.1	1.0	1.0	1.0
	10-50	1.4	1.1	1.0	1.0	1.0	1.0
	50-100	1.1	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	200-300	1.0	1.0	1.0	1.0	1.0	1.0
	300-400	1.0	1.0	1.0	1.0	1.0	1.0
	400-500	1.0	1.0	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

Ni	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	4.7	2.6	1.1	1.0	1.0	1.0
	10-50	1.4	1.1	1.0	1.0	1.0	1.0
	50-100	1.1	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	200-300	1.0	1.0	1.0	1.0	1.0	1.0
	300-400	1.0	1.0	1.0	1.0	1.0	1.0
	400-500	1.0	1.0	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

Pb	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	4.8	2.6	1.1	1.0	1.0	1.0
	10-50	1.4	1.1	1.0	1.0	1.0	1.0
	50-100	1.1	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	200-300	1.0	1.0	1.0	1.0	1.0	1.0
	300-400	1.0	1.0	1.0	1.0	1.0	1.0
	400-500	1.0	1.0	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

Zn	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	4.6	2.5	1.1	1.0	1.0	1.0
	10-50	1.4	1.1	1.0	1.0	1.0	1.0
	50-100	1.1	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	200-300	1.0	1.0	1.0	1.0	1.0	1.0
	300-400	1.0	1.0	1.0	1.0	1.0	1.0
	400-500	1.0	1.0	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

B1.2 Zand

a) 30 m < X < 100 m

As	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	15.8	7.6	2.0	1.3	1.1	1.0
	10-50	3.6	2.0	1.0	1.0	1.0	1.0
	50-100	2.0	1.3	1.0	1.0	1.0	1.0
	100-200	1.3	1.1	1.0	1.0	1.0	1.0
	200-300	1.1	1.0	1.0	1.0	1.0	1.0
	300-400	1.0	1.0	1.0	1.0	1.0	1.0
	400-500	1.0	1.0	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

Cd	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	7.7	4.3	1.3	1.0	1.0	1.0
	10-50	2.3	1.4	1.0	1.0	1.0	1.0
	50-100	1.4	1.1	1.0	1.0	1.0	1.0
	100-200	1.1	1.0	1.0	1.0	1.0	1.0
	200-300	1.0	1.0	1.0	1.0	1.0	1.0
	300-400	1.0	1.0	1.0	1.0	1.0	1.0
	400-500	1.0	1.0	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

Cr	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	>100	60.7	13.3	6.8	3.6	1.6
	10-50	44.7	23.4	5.0	2.7	1.6	1.1
	50-100	25.5	13.2	2.9	1.7	1.2	1.0
	100-200	13.8	6.5	1.7	1.2	1.0	1.0
	200-300	9.4	4.8	1.3	1.1	1.0	1.0
	300-400	6.9	3.7	1.2	1.0	1.0	1.0
	400-500	4.2	3.0	1.1	1.0	1.0	1.0
	>500	2.8	1.7	1.0	1.0	1.0	1.0

Cu	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	3.3	1.9	1.0	1.0	1.0	1.0
	10-50	1.2	1.0	1.0	1.0	1.0	1.0

50-100	1.0	1.0	1.0	1.0	1.0	1.0
100-200	1.0	1.0	1.0	1.0	1.0	1.0
200-300	1.0	1.0	1.0	1.0	1.0	1.0
300-400	1.0	1.0	1.0	1.0	1.0	1.0
400-500	1.0	1.0	1.0	1.0	1.0	1.0
>500	1.0	1.0	1.0	1.0	1.0	1.0

Hg	L (m)	$K_{d,vul}$ (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	>100	81.6	20.3	10.6	5.5	2.5
	10-50	44.2	24.0	5.2	2.8	1.7	1.1
	50-100	24.5	12.9	2.9	1.7	1.2	1.0
	100-200	13.0	6.7	1.7	1.2	1.0	1.0
	200-300	8.8	4.5	1.3	1.1	1.0	1.0
	300-400	6.7	3.2	1.2	1.0	1.0	1.0
	400-500	5.4	2.9	1.1	1.0	1.0	1.0
	>500	1.7	1.6	1.0	1.0	1.0	1.0

Ni	L (m)	$K_{d,vul}$ (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	20.0	8.7	2.4	1.5	1.1	1.0
	10-50	4.6	2.5	1.1	1.0	1.0	1.0
	50-100	2.5	1.5	1.0	1.0	1.0	1.0
	100-200	1.5	1.1	1.0	1.0	1.0	1.0
	200-300	1.2	1.0	1.0	1.0	1.0	1.0
	300-400	1.1	1.0	1.0	1.0	1.0	1.0
	400-500	1.0	1.0	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

Pb	L (m)	$K_{d,vul}$ (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	>100	>100	35.0	17.9	9.1	3.8
	10-50	>100	53.9	12.9	6.7	3.4	1.7
	50-100	57.7	32.6	7.3	3.7	2.1	1.2
	100-200	34.2	18.2	3.9	2.2	1.4	1.0
	200-300	24.0	12.6	2.8	1.6	1.2	1.0
	300-400	18.6	9.7	2.2	1.4	1.1	1.0
	400-500	15.2	7.9	1.8	1.2	1.0	1.0
	>500	7.9	4.1	1.2	1.0	1.0	1.0

Zn	L (m)	$K_{d,vul}$ (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	8.0	4.1	1.3	1.1	1.0	1.0
	10-50	2.0	1.4	1.0	1.0	1.0	1.0
	50-100	1.3	1.1	1.0	1.0	1.0	1.0
	100-200	1.1	1.0	1.0	1.0	1.0	1.0
	200-300	1.0	1.0	1.0	1.0	1.0	1.0
	300-400	1.0	1.0	1.0	1.0	1.0	1.0
	400-500	1.0	1.0	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

b) 100 m < X < 200 m

As	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10		36.0	19.1	4.2	2.3	1.5	1.1
10-50		9.2	4.4	1.4	1.1	1.0	1.0
50-100		4.5	2.6	1.1	1.0	1.0	1.0
100-200		2.6	1.5	1.0	1.0	1.0	1.0
200-300		1.8	1.2	1.0	1.0	1.0	1.0
300-400		1.5	1.1	1.0	1.0	1.0	1.0
400-500		1.3	1.0	1.0	1.0	1.0	1.0
>500		1.0	1.0	1.0	1.0	1.0	1.0

Cd	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10		15.5	8.0	1.9	1.1	1.0	1.0
10-50		4.7	2.8	1.1	1.0	1.0	1.0
50-100		2.9	1.7	1.0	1.0	1.0	1.0
100-200		1.7	1.2	1.0	1.0	1.0	1.0
200-300		1.3	1.1	1.0	1.0	1.0	1.0
300-400		1.2	1.0	1.0	1.0	1.0	1.0
400-500		1.1	1.0	1.0	1.0	1.0	1.0
>500		1.0	1.0	1.0	1.0	1.0	1.0

Cr	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10		>100	85.5	17.3	8.7	4.4	1.8
10-50		82.1	45.4	10.2	5.3	2.8	1.4
50-100		54.5	29.6	6.5	3.4	1.9	1.1
100-200		33.0	17.4	3.1	2.1	1.3	1.0
200-300		23.6	12.3	2.7	1.6	1.1	1.0
300-400		18.4	9.5	2.1	1.3	1.1	1.0
400-500		15.1	7.8	1.8	1.2	1.0	1.0
>500		7.9	3.5	1.2	1.0	1.0	1.0

Cu	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10		7.6	4.2	1.3	1.1	1.0	1.0
10-50		2.0	1.3	1.0	1.0	1.0	1.0
50-100		1.3	1.1	1.0	1.0	1.0	1.0
100-200		1.0	1.0	1.0	1.0	1.0	1.0

200-300	1.0	1.0	1.0	1.0	1.0	1.0
300-400	1.0	1.0	1.0	1.0	1.0	1.0
400-500	1.0	1.0	1.0	1.0	1.0	1.0
>500	1.0	1.0	1.0	1.0	1.0	1.0

Hg	L (m)	K _{d,vul} (l/kg)				
		<50	50-100	100-500	500-1000	1000-2000
<10	>100	>100	37.8	20.3	10.6	4.5
10-50	>100	53.5	13.0	6.7	3.4	1.7
50-100	55.8	31.6	7.1	3.6	2.1	1.2
100-200	32.7	17.4	3.7	2.1	1.3	1.0
200-300	22.8	12.0	2.6	1.5	1.1	1.0
300-400	17.6	9.2	2.1	1.3	1.0	1.0
400-500	14.3	7.4	1.7	1.2	1.0	1.0
>500	7.4	3.9	1.2	1.0	1.0	1.0

Ni	L (m)	K _{d,vul} (l/kg)				
		<50	50-100	100-500	500-1000	1000-2000
<10	44.0	23.0	4.9	2.6	1.6	1.0
10-50	11.6	6.0	1.6	1.2	1.0	1.0
50-100	6.2	3.2	1.2	1.0	1.0	1.0
100-200	3.3	1.8	1.0	1.0	1.0	1.0
200-300	2.3	1.4	1.0	1.0	1.0	1.0
300-400	1.8	1.2	1.0	1.0	1.0	1.0
400-500	1.6	1.1	1.0	1.0	1.0	1.0
>500	1.1	1.0	1.0	1.0	1.0	1.0

Pb	L (m)	K _{d,vul} (l/kg)				
		<50	50-100	100-500	500-1000	1000-2000
<10	>100	>100	45.0	22.9	11.6	4.7
10-50	>100	>100	26.3	13.7	7.1	3.0
50-100	>100	72.5	17.0	8.8	4.2	2.0
100-200	80.2	44.5	9.9	4.7	2.7	1.4
200-300	59.5	32.2	7.0	3.6	2.0	1.2
300-400	47.4	25.1	5.1	2.8	1.6	1.1
400-500	39.4	20.6	3.2	2.3	1.4	1.1
>500	21.1	10.9	2.4	1.4	1.1	1.1

Zn	L (m)	$K_{d,vul}$ (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	18.6	9.8	2.3	1.5	1.1	1.0
	10-50	4.8	2.6	1.1	1.0	1.0	1.0
	50-100	2.6	1.6	1.0	1.0	1.0	1.0
	100-200	1.5	1.1	1.0	1.0	1.0	1.0
	200-300	1.2	1.0	1.0	1.0	1.0	1.0
	300-400	1.1	1.0	1.0	1.0	1.0	1.0
	400-500	1.1	1.0	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

c) X>200 m

As	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10		51.3	27.9	6.2	3.3	1.9	1.1
10-50		15.0	7.8	1.9	1.3	1.1	1.0
50-100		8.0	3.9	1.3	1.0	1.0	1.0
100-200		4.0	2.2	1.0	1.0	1.0	1.0
200-300		2.9	1.6	1.0	1.0	1.0	1.0
300-400		2.2	1.4	1.0	1.0	1.0	1.0
400-500		1.9	1.2	1.0	1.0	1.0	1.0
>500		1.2	1.0	1.0	1.0	1.0	1.0

Cd	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10		19.2	9.9	2.2	1.2	1.0	1.0
10-50		8.0	3.9	1.3	1.0	1.0	1.0
50-100		4.3	2.5	1.1	1.0	1.0	1.0
100-200		2.5	1.5	1.0	1.0	1.0	1.0
200-300		1.9	1.2	1.0	1.0	1.0	1.0
300-400		1.5	1.1	1.0	1.0	1.0	1.0
400-500		1.3	1.0	1.0	1.0	1.0	1.0
>500		1.0	1.0	1.0	1.0	1.0	1.0

Cr	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10		>100	90.7	18.0	9.0	4.5	1.8
10-50		98.4	58.0	13.3	6.9	3.6	1.6
50-100		73.9	41.4	9.4	4.9	2.6	1.3
100-200		49.7	26.5	5.8	3.1	1.7	1.1
200-300		36.4	19.4	4.2	2.3	1.4	1.0
300-400		29.2	15.3	2.9	1.9	1.2	1.0
400-500		24.1	12.6	2.8	1.6	1.1	1.0
>500		13.1	6.8	1.6	1.1	1.0	1.0

Cu	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10		13.1	6.4	1.7	1.2	1.0	1.0
10-50		3.1	1.8	1.0	1.0	1.0	1.0
50-100		1.8	1.2	1.0	1.0	1.0	1.0
100-200		1.2	1.0	1.0	1.0	1.0	1.0

200-300	1.1	1.0	1.0	1.0	1.0	1.0
300-400	1.0	1.0	1.0	1.0	1.0	1.0
400-500	1.0	1.0	1.0	1.0	1.0	1.0
>500	1.0	1.0	1.0	1.0	1.0	1.0

Hg	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10	>100	>100	50.5	26.5	13.6	5.6	
10-50	>100	86.3	20.6	10.6	4.9	2.4	
50-100	93.0	52.4	11.7	5.5	3.2	1.5	
100-200	55.2	29.3	5.9	3.2	1.8	1.1	
200-300	38.8	20.4	4.3	2.3	1.4	1.0	
300-400	30.0	15.6	3.3	1.8	1.2	1.0	
400-500	24.5	12.6	2.7	1.6	1.1	1.0	
>500	12.7	6.5	1.6	1.1	1.0	1.0	

Ni	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10	57.4	31.1	6.9	3.5	2.0	1.1	
10-50	19.0	9.9	2.3	1.4	1.1	1.0	
50-100	10.4	5.1	1.4	1.1	1.0	1.0	
100-200	5.3	2.9	1.1	1.0	1.0	1.0	
200-300	3.7	2.0	1.0	1.0	1.0	1.0	
300-400	2.9	1.6	1.0	1.0	1.0	1.0	
400-500	2.3	1.4	1.0	1.0	1.0	1.0	
>500	1.4	1.1	1.0	1.0	1.0	1.0	

Pb	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10	>100	>100	47.1	23.7	11.9	4.8	
10-50	>100	>100	39.2	20.0	10.2	4.3	
50-100	>100	>100	32.7	16.9	8.8	4.0	
100-200	>100	>100	25.2	13.4	7.7	3.9	
200-300	>100	91.4	21.0	11.9	7.3	3.9	
300-400	>100	76.9	18.2	11.0	7.2	3.9	
400-500	>100	66.8	15.6	10.5	7.1	3.9	
>500	76.6	41.4	13.1	9.9	7.1	3.9	

Zn	L (m)	$K_{d,vul}$ (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	28.4	14.8	3.3	1.9	1.2	1.0
	10-50	7.8	4.1	1.3	1.1	1.0	1.0
	50-100	4.2	2.3	1.0	1.0	1.0	1.0
	100-200	2.3	1.4	1.0	1.0	1.0	1.0
	200-300	1.7	1.2	1.0	1.0	1.0	1.0
	300-400	1.4	1.1	1.0	1.0	1.0	1.0
	400-500	1.2	1.0	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

B1.3 Leem

a) 30 m < X < 100 m

As	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	32.7	17.0	3.7	2.1	1.4	1.0
	10-50	7.6	4.1	1.3	1.1	1.0	1.0
	50-100	4.2	2.3	1.1	1.0	1.0	1.0
	100-200	2.3	1.4	1.0	1.0	1.0	1.0
	200-300	1.7	1.2	1.0	1.0	1.0	1.0
	300-400	1.4	1.1	1.0	1.0	1.0	1.0
	400-500	1.2	1.0	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

Cd	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	11.4	6.0	1.6	1.1	1.0	1.0
	10-50	3.4	2.0	1.0	1.0	1.0	1.0
	50-100	2.0	1.3	1.0	1.0	1.0	1.0
	100-200	1.3	1.1	1.0	1.0	1.0	1.0
	200-300	1.1	1.0	1.0	1.0	1.0	1.0
	300-400	1.0	1.0	1.0	1.0	1.0	1.0
	400-500	1.0	1.0	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

Cr	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	>100	68.0	14.9	7.6	3.9	1.7
	10-50	56.9	30.0	5.4	3.4	1.9	1.2
	50-100	33.7	17.4	3.8	2.1	1.3	1.0
	100-200	18.5	9.5	2.2	1.4	1.1	1.0
	200-300	12.8	6.3	1.6	1.1	1.0	1.0
	300-400	9.8	5.0	1.4	1.1	1.0	1.0
	400-500	7.4	4.0	1.2	1.0	1.0	1.0
	>500	4.1	2.2	1.0	1.0	1.0	1.0

Cu	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	4.1	2.3	1.1	1.0	1.0	1.0
	10-50	1.3	1.1	1.0	1.0	1.0	1.0

50-100	1.1	1.0	1.0	1.0	1.0	1.0
100-200	1.0	1.0	1.0	1.0	1.0	1.0
200-300	1.0	1.0	1.0	1.0	1.0	1.0
300-400	1.0	1.0	1.0	1.0	1.0	1.0
400-500	1.0	1.0	1.0	1.0	1.0	1.0
>500	1.0	1.0	1.0	1.0	1.0	1.0

Hg	L (m)	$K_{d,vul}$ (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10	>100	89.5	20.9	10.8	5.6	2.5	
10-50		47.2	24.9	5.3	2.8	1.7	1.1
50-100		25.4	13.1	2.9	1.7	1.2	1.0
100-200		13.2	6.3	1.7	1.2	1.0	1.0
200-300		8.9	4.6	1.3	1.1	1.0	1.0
300-400		6.5	3.5	1.2	1.0	1.0	1.0
400-500		4.1	2.9	1.1	1.0	1.0	1.0
>500		2.7	1.6	1.0	1.0	1.0	1.0

Ni	L (m)	$K_{d,vul}$ (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10		25.1	13.0	2.9	1.7	1.2	1.0
10-50		6.0	3.2	1.2	1.0	1.0	1.0
50-100		3.2	1.8	1.0	1.0	1.0	1.0
100-200		1.8	1.2	1.0	1.0	1.0	1.0
200-300		1.4	1.1	1.0	1.0	1.0	1.0
300-400		1.2	1.0	1.0	1.0	1.0	1.0
400-500		1.1	1.0	1.0	1.0	1.0	1.0
>500		1.0	1.0	1.0	1.0	1.0	1.0

Pb	L (m)	$K_{d,vul}$ (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10	>100	>100	41.0	21.0	10.7	4.3	
10-50	>100	90.5	20.0	10.1	5.1	2.3	
50-100	>100	55.5	11.7	5.9	3.2	1.6	
100-200		60.0	31.3	6.4	3.4	1.9	1.2
200-300		42.2	21.3	3.2	2.4	1.5	1.1
300-400		32.5	16.4	3.5	1.9	1.3	1.1
400-500		25.7	13.3	2.8	1.6	1.2	1.1
>500		13.5	6.9	1.6	1.1	1.1	1.1

Zn	L (m)	$K_{d,vul}$ (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	14.6	7.6	1.9	1.3	1.1	1.0
	10-50	3.6	2.0	1.0	1.0	1.0	1.0
	50-100	2.0	1.3	1.0	1.0	1.0	1.0
	100-200	1.3	1.1	1.0	1.0	1.0	1.0
	200-300	1.1	1.0	1.0	1.0	1.0	1.0
	300-400	1.0	1.0	1.0	1.0	1.0	1.0
	400-500	1.0	1.0	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

b) 100 m < X < 200 m

As	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10		61.9	34.1	7.6	3.9	2.2	1.2
10-50		20.0	10.4	2.4	1.5	1.1	1.0
50-100		10.9	5.5	1.5	1.1	1.0	1.0
100-200		5.7	3.0	1.1	1.0	1.0	1.0
200-300		3.2	2.1	1.0	1.0	1.0	1.0
300-400		3.0	1.7	1.0	1.0	1.0	1.0
400-500		2.4	1.5	1.0	1.0	1.0	1.0
>500		1.4	1.1	1.0	1.0	1.0	1.0

Cd	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10		19.2	9.9	2.2	1.2	1.0	1.0
10-50		7.5	4.1	1.3	1.0	1.0	1.0
50-100		4.5	2.4	1.1	1.0	1.0	1.0
100-200		2.5	1.5	1.0	1.0	1.0	1.0
200-300		1.8	1.2	1.0	1.0	1.0	1.0
300-400		1.5	1.1	1.0	1.0	1.0	1.0
400-500		1.3	1.0	1.0	1.0	1.0	1.0
>500		1.0	1.0	1.0	1.0	1.0	1.0

Cr	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10		>100	87.0	17.8	8.9	4.5	1.8
10-50		>100	54.1	12.1	6.2	3.3	1.5
50-100		68.1	37.2	8.1	3.9	2.3	1.2
100-200		42.8	22.7	4.5	2.6	1.5	1.1
200-300		31.3	16.3	3.5	1.9	1.3	1.0
300-400		24.5	12.7	2.7	1.6	1.1	1.0
400-500		20.2	10.4	2.3	1.4	1.1	1.0
>500		10.8	5.4	1.4	1.1	1.0	1.0

Cu	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10		10.0	5.3	1.5	1.1	1.0	1.0
10-50		2.5	1.5	1.0	1.0	1.0	1.0
50-100		1.5	1.1	1.0	1.0	1.0	1.0
100-200		1.1	1.0	1.0	1.0	1.0	1.0

200-300	1.0	1.0	1.0	1.0	1.0	1.0
300-400	1.0	1.0	1.0	1.0	1.0	1.0
400-500	1.0	1.0	1.0	1.0	1.0	1.0
>500	1.0	1.0	1.0	1.0	1.0	1.0

Hg	L (m)	K _{d,vul} (l/kg)				
		<50	50-100	100-500	500-1000	1000-2000
<10	>100	>100	39.7	20.9	10.8	4.4
10-50	>100	58.7	13.2	6.5	3.5	1.7
50-100	61.6	33.2	7.0	3.7	2.1	1.2
100-200	34.2	17.9	3.8	2.1	1.3	1.0
200-300	23.7	12.2	2.7	1.5	1.1	1.0
300-400	18.1	9.3	2.1	1.3	1.0	1.0
400-500	14.6	7.5	1.7	1.2	1.0	1.0
>500	7.5	3.9	1.2	1.0	1.0	1.0

Ni	L (m)	K _{d,vul} (l/kg)				
		<50	50-100	100-500	500-1000	1000-2000
<10	51.4	27.2	5.7	3.1	1.8	1.1
10-50	15.4	7.7	1.9	1.3	1.1	1.0
50-100	8.1	4.3	1.3	1.1	1.0	1.0
100-200	4.3	2.3	1.0	1.0	1.0	1.0
200-300	3.0	1.7	1.0	1.0	1.0	1.0
300-400	2.3	1.4	1.0	1.0	1.0	1.0
400-500	1.9	1.2	1.0	1.0	1.0	1.0
>500	1.2	1.0	1.0	1.0	1.0	1.0

Pb	L (m)	K _{d,vul} (l/kg)				
		<50	50-100	100-500	500-1000	1000-2000
<10	>100	>100	47.6	23.9	11.9	4.8
10-50	>100	>100	46.1	23.2	11.7	4.7
50-100	>100	>100	44.5	22.5	11.5	4.7
100-200	>100	>100	42.3	21.9	11.4	4.7
200-300	>100	>100	40.5	21.6	11.4	4.7
300-400	>100	>100	40.0	21.5	11.4	4.7
400-500	>100	>100	39.5	21.5	11.4	4.7
>500	>100	>100	38.8	21.5	11.4	4.7

Zn	L (m)	$K_{d,vul}$ (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	30.0	15.9	3.5	2.0	1.3	1.0
	10-50	9.0	4.6	1.4	1.1	1.0	1.0
	50-100	4.8	2.6	1.1	1.0	1.0	1.0
	100-200	2.6	1.5	1.0	1.0	1.0	1.0
	200-300	1.9	1.2	1.0	1.0	1.0	1.0
	300-400	1.5	1.1	1.0	1.0	1.0	1.0
	400-500	1.3	1.1	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

c) X>200 m

As	L (m)	$K_{d,vul}$ (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10		85.1	43.9	10.0	5.2	2.7	1.3
10-50		30.8	16.4	3.4	2.0	1.3	1.0
50-100		17.5	9.1	2.1	1.3	1.1	1.0
100-200		9.4	4.9	1.3	1.1	1.0	1.0
200-300		6.5	2.9	1.1	1.0	1.0	1.0
300-400		4.9	2.6	1.1	1.0	1.0	1.0
400-500		3.9	2.1	1.0	1.0	1.0	1.0
>500		2.1	1.3	1.0	1.0	1.0	1.0

Cd	L (m)	$K_{d,vul}$ (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10		21.9	11.2	2.3	1.2	1.0	1.0
10-50		11.7	5.8	1.5	1.1	1.0	1.0
50-100		6.9	3.7	1.2	1.0	1.0	1.0
100-200		4.0	2.2	1.0	1.0	1.0	1.0
200-300		2.5	1.6	1.0	1.0	1.0	1.0
300-400		2.2	1.4	1.0	1.0	1.0	1.0
400-500		1.9	1.2	1.0	1.0	1.0	1.0
>500		1.2	1.0	1.0	1.0	1.0	1.0

Cr	L (m)	$K_{d,vul}$ (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10		>100	90.7	18.1	9.1	4.5	1.8
10-50		>100	70.6	15.1	7.7	3.9	1.7
50-100		99.3	52.9	11.5	5.9	3.2	1.6
100-200		68.7	36.0	7.9	4.3	2.6	1.5
200-300		51.9	27.4	5.5	3.6	2.5	1.5
300-400		42.2	22.2	5.3	3.3	2.5	1.5
400-500		35.6	18.7	4.6	3.2	2.5	1.5
>500		20.2	10.7	3.7	3.1	2.5	1.5

Cu	L (m)	$K_{d,vul}$ (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10		16.4	8.3	2.0	1.3	1.1	1.0
10-50		3.9	2.2	1.0	1.0	1.0	1.0
50-100		2.2	1.4	1.0	1.0	1.0	1.0
100-200		1.3	1.1	1.0	1.0	1.0	1.0

200-300	1.1	1.0	1.0	1.0	1.0	1.0
300-400	1.0	1.0	1.0	1.0	1.0	1.0
400-500	1.0	1.0	1.0	1.0	1.0	1.0
>500	1.0	1.0	1.0	1.0	1.0	1.0

Hg	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10	>100	>100	49.7	26.3	13.6	5.6	
10-50	>100	83.7	20.4	10.6	5.2	2.4	
50-100	95.0	51.9	11.7	5.8	3.1	1.5	
100-200	54.0	29.1	6.2	3.3	1.8	1.2	
200-300	38.4	20.2	3.0	2.3	1.4	1.2	
300-400	29.8	15.5	3.3	1.8	1.3	1.2	
400-500	24.3	12.6	2.7	1.6	1.2	1.2	
>500	12.7	6.5	1.6	1.3	1.2	1.2	

Ni	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10	71.9	34.8	7.8	4.1	2.2	1.1	
10-50	23.6	12.4	2.8	1.7	1.2	1.0	
50-100	13.3	6.9	1.7	1.2	1.0	1.0	
100-200	7.1	3.6	1.2	1.0	1.0	1.0	
200-300	4.9	2.6	1.1	1.0	1.0	1.0	
300-400	3.7	2.0	1.0	1.0	1.0	1.0	
400-500	2.7	1.7	1.0	1.0	1.0	1.0	
>500	1.7	1.1	1.0	1.0	1.0	1.0	

Pb	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10	>100	>100	48.0	24.0	12.0	4.8	
10-50	>100	>100	48.0	24.0	12.0	4.8	
50-100	>100	>100	48.0	24.0	12.0	4.8	
100-200	>100	>100	48.0	24.0	12.0	4.8	
200-300	>100	>100	48.0	24.0	12.0	4.8	
300-400	>100	>100	48.0	24.0	12.0	4.8	
400-500	>100	>100	48.0	24.0	12.0	4.8	
>500	>100	>100	48.0	24.0	12.0	4.8	

Zn	L (m)	$K_{d,vul}$ (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	42.2	22.1	4.7	2.5	1.5	1.0
	10-50	14.5	7.3	1.8	1.2	1.0	1.0
	50-100	7.8	4.1	1.3	1.0	1.0	1.0
	100-200	4.2	2.2	1.0	1.0	1.0	1.0
	200-300	2.9	1.7	1.0	1.0	1.0	1.0
	300-400	2.3	1.4	1.0	1.0	1.0	1.0
	400-500	1.8	1.2	1.0	1.0	1.0	1.0
	>500	1.2	1.0	1.0	1.0	1.0	1.0

B1.4 Klei

a) 30 m < X < 100 m

As	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10		60.8	32.1	6.2	3.6	2.0	1.2
10-50		17.9	8.0	2.1	1.4	1.1	1.0
50-100		8.7	4.8	1.4	1.1	1.0	1.0
100-200		4.9	2.6	1.1	1.0	1.0	1.0
200-300		3.4	1.9	1.0	1.0	1.0	1.0
300-400		2.6	1.5	1.0	1.0	1.0	1.0
400-500		2.2	1.3	1.0	1.0	1.0	1.0
>500		1.3	1.1	1.0	1.0	1.0	1.0

Cd	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10		15.7	7.8	1.9	1.1	1.0	1.0
10-50		5.3	2.8	1.1	1.0	1.0	1.0
50-100		3.0	1.7	1.0	1.0	1.0	1.0
100-200		1.7	1.2	1.0	1.0	1.0	1.0
200-300		1.4	1.1	1.0	1.0	1.0	1.0
300-400		1.2	1.0	1.0	1.0	1.0	1.0
400-500		1.1	1.0	1.0	1.0	1.0	1.0
>500		1.0	1.0	1.0	1.0	1.0	1.0

Cr	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10		>100	76.3	16.2	8.2	4.1	1.7
10-50		68.8	36.7	8.0	4.2	2.3	1.3
50-100		42.5	22.4	4.1	2.6	1.6	1.1
100-200		24.3	12.6	2.8	1.6	1.2	1.0
200-300		17.0	8.8	2.0	1.3	1.1	1.0
300-400		13.1	6.7	1.6	1.2	1.0	1.0
400-500		10.7	4.9	1.4	1.1	1.0	1.0
>500		5.2	2.9	1.1	1.0	1.0	1.0

Cu	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10		5.2	2.8	1.2	1.0	1.0	1.0
10-50		1.5	1.1	1.0	1.0	1.0	1.0

50-100	1.1	1.0	1.0	1.0	1.0	1.0
100-200	1.0	1.0	1.0	1.0	1.0	1.0
200-300	1.0	1.0	1.0	1.0	1.0	1.0
300-400	1.0	1.0	1.0	1.0	1.0	1.0
400-500	1.0	1.0	1.0	1.0	1.0	1.0
>500	1.0	1.0	1.0	1.0	1.0	1.0

Hg	L (m)	$K_{d,vul}$ (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10	>100	89.5	21.0	10.8	5.6	2.5	
10-50		47.5	25.0	5.3	2.8	1.7	1.1
50-100		25.5	13.1	2.9	1.7	1.2	1.0
100-200		13.2	5.7	1.7	1.2	1.0	1.0
200-300		9.0	4.6	1.3	1.1	1.0	1.0
300-400		6.1	3.4	1.2	1.0	1.0	1.0
400-500		5.4	2.9	1.1	1.0	1.0	1.0
>500		2.8	1.6	1.0	1.0	1.0	1.0

Ni	L (m)	$K_{d,vul}$ (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10		31.9	16.4	3.5	2.0	1.3	1.0
10-50		7.9	4.0	1.3	1.1	1.0	1.0
50-100		4.1	2.3	1.1	1.0	1.0	1.0
100-200		2.2	1.4	1.0	1.0	1.0	1.0
200-300		1.6	1.2	1.0	1.0	1.0	1.0
300-400		1.4	1.1	1.0	1.0	1.0	1.0
400-500		1.2	1.0	1.0	1.0	1.0	1.0
>500		1.0	1.0	1.0	1.0	1.0	1.0

Pb	L (m)	$K_{d,vul}$ (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10		>100	>100	44.9	22.8	11.5	4.7
10-50		>100	>100	27.8	14.3	6.6	3.1
50-100		>100	82.4	18.1	8.4	4.7	2.3
100-200		93.7	49.7	9.8	5.4	3.1	2.1
200-300		68.1	35.5	7.5	4.0	2.6	2.1
300-400		53.2	27.6	5.8	3.4	2.5	2.1
400-500		43.8	22.6	4.9	3.0	2.5	2.1
>500		23.3	11.9	3.1	2.7	2.5	2.1

Zn	L (m)	$K_{d,vul}$ (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	25.5	13.1	2.9	1.7	1.2	1.0
	10-50	6.8	3.6	1.2	1.0	1.0	1.0
	50-100	3.6	2.0	1.0	1.0	1.0	1.0
	100-200	2.0	1.3	1.0	1.0	1.0	1.0
	200-300	1.5	1.1	1.0	1.0	1.0	1.0
	300-400	1.3	1.0	1.0	1.0	1.0	1.0
	400-500	1.2	1.0	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

b) 100 m<X<200 m

As	L (m)	K _{d,vul} (l/kg)				
		<50	50-100	100-500	500-1000	1000-2000
<10	>100	51.4	11.3	5.8	3.0	1.3
10-50		40.8	21.4	4.6	2.5	1.1
50-100		23.7	12.2	2.7	1.6	1.0
100-200		12.9	6.4	1.6	1.2	1.0
200-300		8.9	4.6	1.3	1.0	1.0
300-400		6.8	3.5	1.1	1.0	1.0
400-500		4.8	2.8	1.1	1.0	1.0
>500		2.8	1.6	1.0	1.0	1.0

Cd	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10		21.7	11.1	2.3	1.2	1.0	1.0
10-50		11.5	5.6	1.5	1.1	1.0	1.0
50-100		6.6	3.6	1.2	1.0	1.0	1.0
100-200		3.9	2.1	1.0	1.0	1.0	1.0
200-300		2.8	1.6	1.0	1.0	1.0	1.0
300-400		2.2	1.4	1.0	1.0	1.0	1.0
400-500		1.8	1.2	1.0	1.0	1.0	1.0
>500		1.2	1.0	1.0	1.0	1.0	1.0

Cr	L (m)	K _{d,vul} (l/kg)				
		<50	50-100	100-500	500-1000	1000-2000
<10	>100	86.2	18.0	9.0	4.5	1.8
10-50	>100	64.6	13.9	7.1	3.7	1.6
50-100		87.3	46.4	10.0	5.0	2.7
100-200		56.4	29.6	6.1	3.3	1.8
200-300		41.6	21.6	4.6	2.4	1.5
300-400		32.9	17.0	3.6	2.0	1.4
400-500		27.3	14.0	2.9	1.7	1.4
>500		14.6	7.5	1.7	1.4	1.4

Cu	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10		13.0	6.6	1.7	1.2	1.0	1.0
10-50		3.1	1.8	1.0	1.0	1.0	1.0
50-100		1.8	1.2	1.0	1.0	1.0	1.0
100-200		1.2	1.0	1.0	1.0	1.0	1.0

200-300	1.1	1.0	1.0	1.0	1.0	1.0
300-400	1.0	1.0	1.0	1.0	1.0	1.0
400-500	1.0	1.0	1.0	1.0	1.0	1.0
>500	1.0	1.0	1.0	1.0	1.0	1.0

Hg	L (m)	K_{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10		>100	>100	40.1	20.9	10.8	4.3
10-50		>100	59.0	13.2	6.3	3.6	1.7
50-100		62.6	33.4	6.8	3.7	2.1	1.2
100-200		34.4	17.9	3.8	2.1	1.3	1.0
200-300		23.8	12.2	2.7	1.5	1.1	1.0
300-400		18.2	9.3	2.1	1.3	1.0	1.0
400-500		14.7	7.5	1.7	1.2	1.0	1.0
>500		7.5	3.9	1.2	1.0	1.0	1.0

Ni	L (m)	K_{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10		62.0	32.6	6.8	3.6	2.0	1.1
10-50		18.8	9.9	2.3	1.5	1.1	1.0
50-100		10.4	5.4	1.5	1.1	1.0	1.0
100-200		5.6	2.8	1.1	1.0	1.0	1.0
200-300		3.8	2.1	1.0	1.0	1.0	1.0
300-400		2.9	1.7	1.0	1.0	1.0	1.0
400-500		2.1	1.4	1.0	1.0	1.0	1.0
>500		1.4	1.1	1.0	1.0	1.0	1.0

Pb	L (m)	K_{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10		>100	>100	48.0	24.0	12.0	4.8
10-50		>100	>100	48.0	24.0	12.0	4.8
50-100		>100	>100	48.0	24.0	12.0	4.8
100-200		>100	>100	48.0	24.0	12.0	4.8
200-300		>100	>100	48.0	24.0	12.0	4.8
300-400		>100	>100	48.0	24.0	12.0	4.8
400-500		>100	>100	48.0	24.0	12.0	4.8
>500		>100	>100	48.0	24.0	12.0	4.8

Zn	L (m)	$K_{d,vul}$ (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	45.3	23.6	4.9	2.7	1.5	1.0
	10-50	16.5	7.9	2.0	1.3	1.1	1.0
	50-100	8.7	4.7	1.3	1.1	1.0	1.0
	100-200	4.8	2.5	1.1	1.0	1.0	1.0
	200-300	3.3	1.9	1.0	1.0	1.0	1.0
	300-400	2.5	1.5	1.0	1.0	1.0	1.0
	400-500	1.9	1.3	1.0	1.0	1.0	1.0
	>500	1.3	1.0	1.0	1.0	1.0	1.0

c) X>200 m

As	L (m)	K _{d,vul} (l/kg)				
		<50	50-100	100-500	500-1000	1000-2000
<10	>100	62.1	12.9	6.6	3.3	1.4
10-50		58.3	6.8	3.6	2.0	1.1
50-100		36.2	3.6	2.3	1.4	1.0
100-200		20.8	2.4	1.4	1.1	1.0
200-300		14.6	1.8	1.2	1.0	1.0
300-400		11.2	1.5	1.1	1.0	1.0
400-500		9.1	1.3	1.0	1.0	1.0
>500		4.5	1.0	1.0	1.0	1.0

Cd	L (m)	K _{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10		23.2	11.7	2.4	1.2	1.0	1.0
10-50		15.7	8.1	1.9	1.1	1.0	1.0
50-100		10.5	5.2	1.4	1.1	1.0	1.0
100-200		6.0	3.2	1.1	1.0	1.0	1.0
200-300		4.4	2.4	1.0	1.0	1.0	1.0
300-400		3.5	1.9	1.0	1.0	1.0	1.0
400-500		2.8	1.6	1.0	1.0	1.0	1.0
>500		1.6	1.1	1.0	1.0	1.0	1.0

Cr	L (m)	K _{d,vul} (l/kg)				
		<50	50-100	100-500	500-1000	1000-2000
<10	>100	90.7	18.2	9.1	4.5	1.8
10-50	>100	87.6	17.8	8.9	4.5	1.8
50-100	>100	85.1	17.3	8.8	4.4	1.8
100-200	>100	80.6	16.8	8.6	4.4	1.8
200-300	>100	76.8	16.4	8.6	4.4	1.8
300-400	>100	73.7	16.2	8.5	4.4	1.8
400-500	>100	71.0	16.1	8.5	4.4	1.8
>500	>100	62.0	16.0	8.5	4.4	1.8

Cu	L (m)	K _{d,vul} (l/kg)				
		<50	50-100	100-500	500-1000	1000-2000
<10		20.1	2.4	1.5	1.1	1.0
10-50		4.8	1.1	1.0	1.0	1.0
50-100		2.7	1.0	1.0	1.0	1.0
100-200		1.6	1.0	1.0	1.0	1.0

200-300	1.2	1.0	1.0	1.0	1.0	1.0
300-400	1.1	1.0	1.0	1.0	1.0	1.0
400-500	1.1	1.0	1.0	1.0	1.0	1.0
>500	1.0	1.0	1.0	1.0	1.0	1.0

Hg	L (m)	K_{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10	>100	>100	50.2	26.4	13.6	5.6	
10-50	>100	85.6	20.5	10.6	5.0	2.4	
50-100	92.1	52.2	11.7	5.6	3.1	1.6	
100-200	54.9	29.3	6.0	3.2	1.8	1.4	
200-300	38.9	20.3	4.3	2.3	1.5	1.4	
300-400	29.9	15.6	3.3	1.8	1.4	1.4	
400-500	24.4	12.6	2.7	1.6	1.4	1.4	
>500	12.7	6.5	1.6	1.4	1.4	1.4	

Ni	L (m)	K_{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10	74.7	40.1	8.8	4.6	2.4	1.1	
10-50	30.2	15.9	3.5	2.0	1.3	1.0	
50-100	17.3	8.9	2.1	1.3	1.1	1.0	
100-200	9.3	4.3	1.3	1.1	1.0	1.0	
200-300	6.4	3.3	1.1	1.0	1.0	1.0	
300-400	4.5	2.5	1.0	1.0	1.0	1.0	
400-500	2.6	2.1	1.0	1.0	1.0	1.0	
>500	2.1	1.3	1.0	1.0	1.0	1.0	

Pb	L (m)	K_{d,vul} (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
<10	>100	>100	48.0	24.0	12.0	4.8	
10-50	>100	>100	48.0	24.0	12.0	4.8	
50-100	>100	>100	48.0	24.0	12.0	4.8	
100-200	>100	>100	48.0	24.0	12.0	4.8	
200-300	>100	>100	48.0	24.0	12.0	4.8	
300-400	>100	>100	48.0	24.0	12.0	4.8	
400-500	>100	>100	48.0	24.0	12.0	4.8	
>500	>100	>100	48.0	24.0	12.0	4.8	

Zn	L (m)	$K_{d,vul}$ (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<10	52.4	27.6	5.9	3.1	1.6	1.0
	10-50	24.4	12.8	2.9	1.7	1.2	1.0
	50-100	14.4	7.5	1.8	1.2	1.0	1.0
	100-200	8.0	3.8	1.2	1.0	1.0	1.0
	200-300	5.5	2.9	1.1	1.0	1.0	1.0
	300-400	4.0	2.2	1.0	1.0	1.0	1.0
	400-500	2.5	1.9	1.0	1.0	1.0	1.0
	>500	1.9	1.2	1.0	1.0	1.0	1.0

B2 Monocyclische aromatische KWS en overige organische stoffen

a) 30 m < X < 100 m

benzeen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	3.0	2.8	2.2	1.8	1.6	1.5
	10-50	1.6	1.6	1.5	1.5	1.5	1.5
	50-100	1.5	1.5	1.5	1.5	1.5	1.5
	100-200	1.5	1.5	1.5	1.5	1.5	1.5
	200-300	1.5	1.5	1.5	1.5	1.5	1.5
	300-400	1.5	1.5	1.5	1.5	1.5	1.5
	400-500	1.5	1.5	1.5	1.5	1.5	1.5
	>500	1.5	1.5	1.5	1.5	1.5	1.5

ethylbenzeen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	6.0	5.1	4.1	3.7	3.5	3.4
	10-50	3.6	3.5	3.4	3.4	3.4	3.4
	50-100	3.4	3.4	3.4	3.4	3.4	3.4
	100-200	3.4	3.4	3.4	3.4	3.4	3.4
	200-300	3.4	3.4	3.4	3.4	3.4	3.4
	300-400	3.4	3.4	3.4	3.4	3.4	3.4
	400-500	3.4	3.4	3.4	3.4	3.4	3.4
	>500	3.4	3.4	3.4	3.4	3.4	3.4

tolueen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	>100	>100	>100	>100	>100	>100
	10-50	>100	>100	>100	>100	>100	>100
	50-100	>100	>100	>100	>100	>100	>100
	100-200	>100	>100	>100	>100	>100	>100
	200-300	>100	>100	>100	>100	>100	>100
	300-400	>100	>100	>100	>100	>100	>100
	400-500	>100	>100	>100	>100	>100	>100
	>500	>100	>100	>100	>100	>100	>100

xyleen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	4.2	3.6	2.8	2.4	2.3	2.2
	10-50	2.4	2.3	2.2	2.2	2.2	2.2

50-100	2.2	2.2	2.2	2.2	2.2	2.2
100-200	2.2	2.2	2.2	2.2	2.2	2.2
200-300	2.2	2.2	2.2	2.2	2.2	2.2
300-400	2.2	2.2	2.2	2.2	2.2	2.2
400-500	2.2	2.2	2.2	2.2	2.2	2.2
>500	2.2	2.2	2.2	2.2	2.2	2.2

styreen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<10		7.4	5.5	4.2	3.8	3.8	3.8
10-50		3.9	3.8	3.8	3.8	3.8	3.8
50-100		3.8	3.8	3.8	3.8	3.8	3.8
100-200		3.8	3.8	3.8	3.8	3.8	3.8
200-300		3.8	3.8	3.8	3.8	3.8	3.8
300-400		3.8	3.8	3.8	3.8	3.8	3.8
400-500		3.8	3.8	3.8	3.8	3.8	3.8
>500		3.8	3.8	3.8	3.8	3.8	3.8

hexaan	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<10		2.4	1.7	1.2	1.0	1.0	1.0
10-50		1.1	1.0	1.0	1.0	1.0	1.0
50-100		1.0	1.0	1.0	1.0	1.0	1.0
100-200		1.0	1.0	1.0	1.0	1.0	1.0
200-300		1.0	1.0	1.0	1.0	1.0	1.0
300-400		1.0	1.0	1.0	1.0	1.0	1.0
400-500		1.0	1.0	1.0	1.0	1.0	1.0
>500		1.0	1.0	1.0	1.0	1.0	1.0

heptaan	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<10		2.7	1.7	1.2	1.0	1.0	1.0
10-50		1.1	1.0	1.0	1.0	1.0	1.0
50-100		1.0	1.0	1.0	1.0	1.0	1.0
100-200		1.0	1.0	1.0	1.0	1.0	1.0
200-300		1.0	1.0	1.0	1.0	1.0	1.0
300-400		1.0	1.0	1.0	1.0	1.0	1.0
400-500		1.0	1.0	1.0	1.0	1.0	1.0
>500		1.0	1.0	1.0	1.0	1.0	1.0

octaan	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	2.7	1.7	1.1	1.0	1.0	1.0
	10-50	1.1	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	200-300	1.0	1.0	1.0	1.0	1.0	1.0
	300-400	1.0	1.0	1.0	1.0	1.0	1.0
	400-500	1.0	1.0	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

MTBE	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	5.0	5.0	4.2	3.9	3.5	2.8
	10-50	2.3	2.3	2.3	2.3	2.3	2.2
	50-100	2.2	2.2	2.2	2.2	2.2	2.2
	100-200	2.2	2.2	2.2	2.2	2.2	2.2
	200-300	2.2	2.2	2.2	2.2	2.2	2.2
	300-400	2.2	2.2	2.2	2.2	2.2	2.2
	400-500	2.2	2.2	2.2	2.2	2.2	2.2
	>500	2.2	2.2	2.2	2.2	2.2	2.2

b) 100 m<X<200 m

benzeen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<10		15.8	14.0	10.3	7.6	5.6	4.1
10-50		5.4	5.0	4.3	4.0	3.8	3.8
50-100		4.2	4.0	3.8	3.8	3.8	3.8
100-200		3.8	3.8	3.8	3.8	3.8	3.8
200-300		3.8	3.8	3.8	3.8	3.8	3.8
300-400		3.8	3.8	3.8	3.8	3.8	3.8
400-500		3.8	3.8	3.8	3.8	3.8	3.8
>500		3.8	3.8	3.8	3.8	3.8	3.8

ethylbenzeen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<10		>100	>100	82.4	61.5	49.9	44.9
10-50		57.5	51.3	46.1	44.9	44.7	44.7
50-100		47.0	45.5	44.8	44.7	44.7	44.7
100-200		44.8	44.7	44.7	44.7	44.7	44.7
200-300		44.7	44.7	44.7	44.7	44.7	44.7
300-400		44.7	44.7	44.7	44.7	44.7	44.7
400-500		44.7	44.7	44.7	44.7	44.7	44.7
>500		44.7	44.7	44.7	44.7	44.7	44.7

tolueen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<10		>100	>100	>100	>100	>100	>100
10-50		>100	>100	>100	>100	>100	>100
50-100		>100	>100	>100	>100	>100	>100
100-200		>100	>100	>100	>100	>100	>100
200-300		>100	>100	>100	>100	>100	>100
300-400		>100	>100	>100	>100	>100	>100
400-500		>100	>100	>100	>100	>100	>100
>500		>100	>100	>100	>100	>100	>100

xyleen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<10		51.4	38.1	25.4	18.4	14.5	12.7
10-50		17.2	15.1	13.1	12.6	12.5	12.5
50-100		13.5	12.9	12.6	12.5	12.5	12.5
100-200		12.6	12.5	12.5	12.5	12.5	12.5

200-300	12.5	12.5	12.5	12.5	12.5	12.5
300-400	12.5	12.5	12.5	12.5	12.5	12.5
400-500	12.5	12.5	12.5	12.5	12.5	12.5
>500	12.5	12.5	12.5	12.5	12.5	12.5

styreen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<10		>100	>100	92.4	69.6	61.3	59.3
10-50		78.2	65.3	59.8	59.3	59.3	59.3
50-100		62.5	59.8	59.3	59.3	59.3	59.3
100-200		59.4	59.3	59.3	59.3	59.3	59.3
200-300		59.3	59.3	59.3	59.3	59.3	59.3
300-400		59.3	59.3	59.3	59.3	59.3	59.3
400-500		59.3	59.3	59.3	59.3	59.3	59.3
>500		59.3	59.3	59.3	59.3	59.3	59.3

hexaan	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<10		6.5	4.0	2.0	1.4	1.1	1.0
10-50		1.7	1.3	1.0	1.0	1.0	1.0
50-100		1.2	1.0	1.0	1.0	1.0	1.0
100-200		1.0	1.0	1.0	1.0	1.0	1.0
200-300		1.0	1.0	1.0	1.0	1.0	1.0
300-400		1.0	1.0	1.0	1.0	1.0	1.0
400-500		1.0	1.0	1.0	1.0	1.0	1.0
>500		1.0	1.0	1.0	1.0	1.0	1.0

heptaan	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<10		6.2	3.7	1.8	1.3	1.1	1.0
10-50		1.7	1.2	1.0	1.0	1.0	1.0
50-100		1.2	1.0	1.0	1.0	1.0	1.0
100-200		1.0	1.0	1.0	1.0	1.0	1.0
200-300		1.0	1.0	1.0	1.0	1.0	1.0
300-400		1.0	1.0	1.0	1.0	1.0	1.0
400-500		1.0	1.0	1.0	1.0	1.0	1.0
>500		1.0	1.0	1.0	1.0	1.0	1.0

octaan	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	6.0	3.6	1.8	1.2	1.1	1.0
	10-50	1.7	1.2	1.0	1.0	1.0	1.0
	50-100	1.2	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	200-300	1.0	1.0	1.0	1.0	1.0	1.0
	300-400	1.0	1.0	1.0	1.0	1.0	1.0
	400-500	1.0	1.0	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

MTBE	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	55.1	55.1	42.2	39.6	35.5	26.0
	10-50	17.0	16.8	16.2	15.6	14.8	13.4
	50-100	13.4	13.4	13.3	13.1	12.9	12.6
	100-200	12.6	12.6	12.6	12.6	12.5	12.5
	200-300	12.5	12.5	12.5	12.5	12.5	12.5
	300-400	12.5	12.5	12.5	12.5	12.5	12.5
	400-500	12.5	12.5	12.5	12.5	12.5	12.5
	>500	12.5	12.5	12.5	12.5	12.5	12.5

c) X>200 m

benzeen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<10		90.3	80.0	56.6	40.5	27.4	16.8
10-50		26.6	23.5	19.2	15.9	14.1	13.5
50-100		18.0	16.5	14.6	13.8	13.5	13.5
100-200		14.2	13.8	13.5	13.5	13.5	13.5
200-300		13.6	13.5	13.5	13.5	13.5	13.5
300-400		13.5	13.5	13.5	13.5	13.5	13.5
400-500		13.5	13.5	13.5	13.5	13.5	13.5
>500		13.5	13.5	13.5	13.5	13.5	13.5

ethylbenzeen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<10		>100	>100	>100	>100	>100	>100
10-50		>100	>100	>100	>100	>100	>100
50-100		>100	>100	>100	>100	>100	>100
100-200		>100	>100	>100	>100	>100	>100
200-300		>100	>100	>100	>100	>100	>100
300-400		>100	>100	>100	>100	>100	>100
400-500		>100	>100	>100	>100	>100	>100
>500		>100	>100	>100	>100	>100	>100

tolueen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<10		>100	>100	>100	>100	>100	>100
10-50		>100	>100	>100	>100	>100	>100
50-100		>100	>100	>100	>100	>100	>100
100-200		>100	>100	>100	>100	>100	>100
200-300		>100	>100	>100	>100	>100	>100
300-400		>100	>100	>100	>100	>100	>100
400-500		>100	>100	>100	>100	>100	>100
>500		>100	>100	>100	>100	>100	>100

xyleen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<10		>100	>100	>100	>100	>100	>100
10-50		>100	>100	>100	>100	>100	>100
50-100		>100	>100	>100	>100	>100	>100
100-200		>100	>100	>100	>100	>100	>100

200-300	>100	>100	>100	>100	>100	>100
300-400	>100	>100	>100	>100	>100	>100
400-500	>100	>100	>100	>100	>100	>100
>500	>100	>100	>100	>100	>100	>100

styreen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<10	>100	>100	>100	>100	>100	>100	>100
10-50	>100	>100	>100	>100	>100	>100	>100
50-100	>100	>100	>100	>100	>100	>100	>100
100-200	>100	>100	>100	>100	>100	>100	>100
200-300	>100	>100	>100	>100	>100	>100	>100
300-400	>100	>100	>100	>100	>100	>100	>100
400-500	>100	>100	>100	>100	>100	>100	>100
>500	>100	>100	>100	>100	>100	>100	>100

hexaan	L (m)	%OC,vul				
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0
<10	11.2	6.6	3.1	1.9	1.3	1.0
10-50	2.5	1.7	1.1	1.0	1.0	1.0
50-100	1.5	1.2	1.0	1.0	1.0	1.0
100-200	1.1	1.0	1.0	1.0	1.0	1.0
200-300	1.0	1.0	1.0	1.0	1.0	1.0
300-400	1.0	1.0	1.0	1.0	1.0	1.0
400-500	1.0	1.0	1.0	1.0	1.0	1.0
>500	1.0	1.0	1.0	1.0	1.0	1.0

heptaan	L (m)	%OC,vul				
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0
<10	11.2	6.0	2.7	1.6	1.2	1.0
10-50	2.5	1.6	1.1	1.0	1.0	1.0
50-100	1.5	1.1	1.0	1.0	1.0	1.0
100-200	1.1	1.0	1.0	1.0	1.0	1.0
200-300	1.0	1.0	1.0	1.0	1.0	1.0
300-400	1.0	1.0	1.0	1.0	1.0	1.0
400-500	1.0	1.0	1.0	1.0	1.0	1.0
>500	1.0	1.0	1.0	1.0	1.0	1.0

octaan	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	11.2	5.9	2.6	1.6	1.2	1.0
	10-50	2.5	1.5	1.1	1.0	1.0	1.0
	50-100	1.5	1.1	1.0	1.0	1.0	1.0
	100-200	1.1	1.0	1.0	1.0	1.0	1.0
	200-300	1.0	1.0	1.0	1.0	1.0	1.0
	300-400	1.0	1.0	1.0	1.0	1.0	1.0
	400-500	1.0	1.0	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0	1.0	1.0

MTBE	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	>100	>100	>100	>100	>100	>100
	10-50	>100	>100	>100	>100	>100	>100
	50-100	>100	>100	>100	>100	>100	>100
	100-200	>100	>100	>100	>100	>100	>100
	200-300	>100	>100	>100	>100	>100	>100
	300-400	>100	>100	>100	>100	>100	>100
	400-500	>100	>100	>100	>100	>100	>100
	>500	>100	>100	>100	>100	>100	>100

B3 PAK's

a) 30 m<X<100 m

acenafteen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	2.7	1.7	1.1	1.0	1.0	1.0
	10-50	1.1	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

acenaftyleen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	2.7	1.7	1.1	1.0	1.0	1.0
	10-50	1.1	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

antraceen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	2.7	1.6	1.1	1.0	1.0	1.0
	10-50	1.1	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

benzo(a)antraceen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	2.7	1.6	1.1	1.0	1.0	1.0
	10-50	1.1	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

benzo(a)pyreen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	2.7	1.6	1.1	1.0	1.0	1.0
	10-50	1.1	1.0	1.0	1.0	1.0	1.0

50-100	1.0	1.0	1.0	1.0	1.0	1.0
100-200	1.0	1.0	1.0	1.0	1.0	1.0
>200	1.0	1.0	1.0	1.0	1.0	1.0

benzo(b)fluoranteen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<10		2.7	1.6	1.1	1.0	1.0	1.0
10-50		1.1	1.0	1.0	1.0	1.0	1.0
50-100		1.0	1.0	1.0	1.0	1.0	1.0
100-200		1.0	1.0	1.0	1.0	1.0	1.0
>200		1.0	1.0	1.0	1.0	1.0	1.0

benzo(ghi)peryleen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<10		2.7	1.6	1.1	1.0	1.0	1.0
10-50		1.1	1.0	1.0	1.0	1.0	1.0
50-100		1.0	1.0	1.0	1.0	1.0	1.0
100-200		1.0	1.0	1.0	1.0	1.0	1.0
>200		1.0	1.0	1.0	1.0	1.0	1.0

benzo(k)fluoranteen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<10		2.7	1.6	1.1	1.0	1.0	1.0
10-50		1.1	1.0	1.0	1.0	1.0	1.0
50-100		1.0	1.0	1.0	1.0	1.0	1.0
100-200		1.0	1.0	1.0	1.0	1.0	1.0
>200		1.0	1.0	1.0	1.0	1.0	1.0

chryseen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<10		2.7	1.6	1.1	1.0	1.0	1.0
10-50		1.1	1.0	1.0	1.0	1.0	1.0
50-100		1.0	1.0	1.0	1.0	1.0	1.0
100-200		1.0	1.0	1.0	1.0	1.0	1.0
>200		1.0	1.0	1.0	1.0	1.0	1.0

dibenz(a,h)antraceen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	2.7	1.6	1.1	1.0	1.0	1.0
	10-50	1.1	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

fenantreen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	2.7	1.7	1.1	1.0	1.0	1.0
	10-50	1.1	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

fluoranteen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	2.7	1.6	1.1	1.0	1.0	1.0
	10-50	1.1	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

fluoreen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	2.7	1.7	1.1	1.0	1.0	1.0
	10-50	1.1	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

indeno(123-cd)pyreen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	2.7	1.6	1.1	1.0	1.0	1.0
	10-50	1.1	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

naftaleen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	6.3	4.4	3.3	3.0	3.0	3.0
	10-50	3.2	3.0	3.0	3.0	3.0	3.0
	50-100	3.0	3.0	3.0	3.0	3.0	3.0
	100-200	3.0	3.0	3.0	3.0	3.0	3.0
	>200	3.0	3.0	3.0	3.0	3.0	3.0

pyreen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	2.7	1.6	1.1	1.0	1.0	1.0
	10-50	1.1	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

b) 100 m<X<200 m

acenaftteen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	6.8	3.6	1.7	1.2	1.1	1.0
	10-50	1.7	1.2	1.0	1.0	1.0	1.0
	50-100	1.2	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

acenaftyleen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	6.8	3.6	1.8	1.3	1.1	1.0
	10-50	1.7	1.2	1.0	1.0	1.0	1.0
	50-100	1.2	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

antraceen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	6.8	3.5	1.7	1.2	1.1	1.0
	10-50	1.7	1.2	1.0	1.0	1.0	1.0
	50-100	1.2	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

benzo(a)antraceen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	6.8	3.5	1.7	1.2	1.1	1.0
	10-50	1.7	1.2	1.0	1.0	1.0	1.0
	50-100	1.2	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

benzo(a)pyreen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	6.7	3.5	1.7	1.2	1.1	1.0
	10-50	1.7	1.2	1.0	1.0	1.0	1.0
	50-100	1.2	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0

>200	1.0	1.0	1.0	1.0	1.0	1.0
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benzo(b)fluoranteen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	6.8	3.4	1.7	1.2	1.1	1.0
	10-50	1.7	1.2	1.0	1.0	1.0	1.0
	50-100	1.2	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

benzo(ghi)peryleen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	6.8	3.5	1.7	1.2	1.1	1.0
	10-50	1.7	1.2	1.0	1.0	1.0	1.0
	50-100	1.2	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

benzo(k)fluoranteen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	6.8	3.5	1.7	1.2	1.1	1.0
	10-50	1.7	1.2	1.0	1.0	1.0	1.0
	50-100	1.2	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

chryseen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	6.8	3.5	1.7	1.2	1.1	1.0
	10-50	1.7	1.2	1.0	1.0	1.0	1.0
	50-100	1.2	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

dibenz(a,h)antraceen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	6.7	3.5	1.7	1.2	1.1	1.0
	10-50	1.7	1.2	1.0	1.0	1.0	1.0
	50-100	1.2	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

fenantreen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	6.8	3.6	1.7	1.2	1.1	1.0
	10-50	1.7	1.2	1.0	1.0	1.0	1.0
	50-100	1.2	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

fluoranteen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	6.8	3.6	1.7	1.2	1.1	1.0
	10-50	1.7	1.2	1.0	1.0	1.0	1.0
	50-100	1.2	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

fluoreen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	6.7	3.5	1.7	1.2	1.1	1.0
	10-50	1.7	1.2	1.0	1.0	1.0	1.0
	50-100	1.2	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

indeno(123-cd)pyreen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	6.8	3.5	1.7	1.2	1.1	1.0
	10-50	1.7	1.2	1.0	1.0	1.0	1.0
	50-100	1.2	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

naftaleen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	>100	83.5	45.7	34.7	31.0	30.2
	10-50	41.2	33.3	30.4	30.2	30.2	30.2
	50-100	32.2	30.5	30.2	30.2	30.2	30.2
	100-200	30.3	30.2	30.2	30.2	30.2	30.2
	>200	30.2	30.2	30.2	30.2	30.2	30.2

pyreen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	6.7	3.5	1.7	1.2	1.1	1.0
	10-50	1.7	1.2	1.0	1.0	1.0	1.0
	50-100	1.2	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

c) X>200 m

acenaftteen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	11.4	5.3	2.6	1.6	1.2	1.0
	10-50	2.5	1.5	1.1	1.0	1.0	1.0
	50-100	1.5	1.1	1.0	1.0	1.0	1.0
	100-200	1.1	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

acenaftyleen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	11.4	6.0	2.7	1.6	1.2	1.0
	10-50	2.5	1.6	1.1	1.0	1.0	1.0
	50-100	1.5	1.1	1.0	1.0	1.0	1.0
	100-200	1.1	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

antraceen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	11.2	5.7	2.6	1.6	1.2	1.0
	10-50	2.5	1.5	1.1	1.0	1.0	1.0
	50-100	1.5	1.1	1.0	1.0	1.0	1.0
	100-200	1.1	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

benzo(a)antraceen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	11.2	5.8	2.6	1.6	1.2	1.0
	10-50	2.5	1.5	1.1	1.0	1.0	1.0
	50-100	1.5	1.1	1.0	1.0	1.0	1.0
	100-200	1.1	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

benzo(a)pyreen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	11.4	5.9	2.6	1.6	1.2	1.0
	10-50	2.5	1.5	1.1	1.0	1.0	1.0
	50-100	1.5	1.1	1.0	1.0	1.0	1.0
	100-200	1.1	1.0	1.0	1.0	1.0	1.0

>200	1.0	1.0	1.0	1.0	1.0	1.0
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benzo(b)fluoranteen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<10		11.4	5.2	2.6	1.6	1.2	1.0
10-50		2.5	1.5	1.1	1.0	1.0	1.0
50-100		1.5	1.1	1.0	1.0	1.0	1.0
100-200		1.1	1.0	1.0	1.0	1.0	1.0
>200		1.0	1.0	1.0	1.0	1.0	1.0

benzo(ghi)peryleen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<10		11.3	5.7	2.6	1.6	1.2	1.0
10-50		2.5	1.5	1.1	1.0	1.0	1.0
50-100		1.5	1.1	1.0	1.0	1.0	1.0
100-200		1.1	1.0	1.0	1.0	1.0	1.0
>200		1.0	1.0	1.0	1.0	1.0	1.0

benzo(k)fluoranteen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<10		11.3	5.6	2.6	1.6	1.2	1.0
10-50		2.5	1.5	1.1	1.0	1.0	1.0
50-100		1.5	1.1	1.0	1.0	1.0	1.0
100-200		1.1	1.0	1.0	1.0	1.0	1.0
>200		1.0	1.0	1.0	1.0	1.0	1.0

chryseen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<10		11.4	5.3	2.6	1.6	1.2	1.0
10-50		2.5	1.5	1.1	1.0	1.0	1.0
50-100		1.5	1.1	1.0	1.0	1.0	1.0
100-200		1.1	1.0	1.0	1.0	1.0	1.0
>200		1.0	1.0	1.0	1.0	1.0	1.0

dibenz(a,h)antraceen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	11.4	5.9	2.6	1.6	1.2	1.0
	10-50	2.5	1.5	1.1	1.0	1.0	1.0
	50-100	1.5	1.1	1.0	1.0	1.0	1.0
	100-200	1.1	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

fenantreen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	11.3	5.8	2.6	1.6	1.2	1.0
	10-50	2.5	1.5	1.1	1.0	1.0	1.0
	50-100	1.5	1.1	1.0	1.0	1.0	1.0
	100-200	1.1	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

fluoranteen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	11.4	5.4	2.6	1.6	1.2	1.0
	10-50	2.5	1.5	1.1	1.0	1.0	1.0
	50-100	1.5	1.1	1.0	1.0	1.0	1.0
	100-200	1.1	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

fluoreen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	11.5	5.9	2.6	1.6	1.2	1.0
	10-50	2.5	1.5	1.1	1.0	1.0	1.0
	50-100	1.5	1.1	1.0	1.0	1.0	1.0
	100-200	1.1	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

indeno(123-cd)pyreen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	11.2	5.7	2.6	1.6	1.2	1.0
	10-50	2.5	1.5	1.1	1.0	1.0	1.0
	50-100	1.5	1.1	1.0	1.0	1.0	1.0
	100-200	1.1	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

naftaleen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	>100	>100	>100	>100	>100	>100
	10-50	>100	>100	>100	>100	>100	>100
	50-100	>100	>100	>100	>100	>100	>100
	100-200	>100	>100	>100	>100	>100	>100
	>200	>100	>100	>100	>100	>100	>100

pyreen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	11.5	5.9	2.6	1.6	1.2	1.0
	10-50	2.5	1.5	1.1	1.0	1.0	1.0
	50-100	1.5	1.1	1.0	1.0	1.0	1.0
	100-200	1.1	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

B4 Gechloreerde solventen

a) 30 m < X < 100 m

1,1,1-trichloorethaan	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	2.2	1.8	1.4	1.2	1.1	1.0
	10-50	1.1	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

1,1,2-trichloorethaan	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	2.1	1.9	1.6	1.3	1.1	1.0
	10-50	1.1	1.1	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

1,1-dichloorethaan	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	2.0	1.9	1.7	1.5	1.2	1.0
	10-50	1.1	1.1	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

1,2-dichloorbenzeen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	2.2	1.7	1.2	1.1	1.0	1.0
	10-50	1.1	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

1,2-dichloorethaan	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	2.4	1.9	1.7	1.5	1.3	1.1
	10-50	1.1	1.1	1.0	1.0	1.0	1.0

50-100	1.0	1.0	1.0	1.0	1.0	1.0
100-200	1.0	1.0	1.0	1.0	1.0	1.0
>200	1.0	1.0	1.0	1.0	1.0	1.0

1,3-dichloorbenzeen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	2.4	1.7	1.2	1.0	1.0	1.0
	10-50	1.1	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

1,4-dichloorbenzeen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	2.3	1.7	1.2	1.1	1.0	1.0
	10-50	1.1	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

cis-1,2-dichlooretheen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	2.0	1.9	1.7	1.4	1.2	1.0
	10-50	1.1	1.1	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

dichloormethaan	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	2.4	1.9	1.8	1.6	1.4	1.1
	10-50	1.1	1.1	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

hexachloorbenzeen		%OC,vul					
L (m)	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0	
<10	2.7	1.7	1.1	1.0	1.0	1.0	
10-50	1.1	1.0	1.0	1.0	1.0	1.0	
50-100	1.0	1.0	1.0	1.0	1.0	1.0	
100-200	1.0	1.0	1.0	1.0	1.0	1.0	
>200	1.0	1.0	1.0	1.0	1.0	1.0	

monochloorbenzeen		%OC,vul					
L (m)	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0	
<10	2.1	1.8	1.3	1.1	1.0	1.0	
10-50	1.1	1.0	1.0	1.0	1.0	1.0	
50-100	1.0	1.0	1.0	1.0	1.0	1.0	
100-200	1.0	1.0	1.0	1.0	1.0	1.0	
>200	1.0	1.0	1.0	1.0	1.0	1.0	

pentachloorbenzeen		%OC,vul					
L (m)	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0	
<10	2.7	1.6	1.1	1.0	1.0	1.0	
10-50	1.1	1.0	1.0	1.0	1.0	1.0	
50-100	1.0	1.0	1.0	1.0	1.0	1.0	
100-200	1.0	1.0	1.0	1.0	1.0	1.0	
>200	1.0	1.0	1.0	1.0	1.0	1.0	

tetrachloorbenzeen		%OC,vul					
L (m)	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0	
<10	2.7	1.7	1.1	1.0	1.0	1.0	
10-50	1.1	1.0	1.0	1.0	1.0	1.0	
50-100	1.0	1.0	1.0	1.0	1.0	1.0	
100-200	1.0	1.0	1.0	1.0	1.0	1.0	
>200	1.0	1.0	1.0	1.0	1.0	1.0	

tetrachlooretheen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	2.1	1.7	1.3	1.1	1.0	1.0
	10-50	1.1	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

tetrachloormethaan	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	2.1	1.8	1.4	1.1	1.0	1.0
	10-50	1.1	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

trans-1,2-dichlooretheen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	2.0	1.9	1.7	1.4	1.2	1.0
	10-50	1.1	1.1	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

trichloorbenzeen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	2.5	1.7	1.2	1.0	1.0	1.0
	10-50	1.1	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

trichlooretheen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	2.2	1.9	1.5	1.3	1.1	1.0
	10-50	1.1	1.1	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

trichloormethaan	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	2.1	2.0	1.5	1.3	1.1	1.0
	10-50	1.1	1.1	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

vinylchloride	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	2.4	2.4	1.9	1.7	1.5	1.2
	10-50	1.1	1.1	1.1	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

b) 100 m<X<200 m

1,1,1-trichloorethaan	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	5.0	4.1	2.9	2.1	1.5	1.1
	10-50	1.6	1.4	1.2	1.1	1.0	1.0
	50-100	1.2	1.1	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

1,1,2-trichloorethaan	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	4.8	4.4	3.3	2.5	1.8	1.2
	10-50	1.6	1.5	1.2	1.1	1.0	1.0
	50-100	1.2	1.1	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

1,1-dichloorethaan	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	4.8	4.4	3.8	2.9	2.2	1.4
	10-50	1.6	1.5	1.3	1.2	1.1	1.0
	50-100	1.2	1.1	1.1	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

1,2-dichloorbenzeen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	5.7	4.1	2.2	1.5	1.1	1.0
	10-50	1.7	1.3	1.1	1.0	1.0	1.0
	50-100	1.2	1.1	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

1,2-dichloorethaan	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	5.9	4.5	4.0	3.2	2.5	1.5
	10-50	1.6	1.5	1.4	1.2	1.1	1.0
	50-100	1.2	1.1	1.1	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0

>200	1.0	1.0	1.0	1.0	1.0	1.0
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1,3-dichloorbenzeen	L (m)	%OC,vul				
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0
<10	6.4	3.9	2.0	1.4	1.1	1.0
10-50	1.7	1.3	1.0	1.0	1.0	1.0
50-100	1.2	1.0	1.0	1.0	1.0	1.0
100-200	1.0	1.0	1.0	1.0	1.0	1.0
>200	1.0	1.0	1.0	1.0	1.0	1.0

1,4-dichloorbenzeen	L (m)	%OC,vul				
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0
<10	5.6	3.8	2.2	1.5	1.1	1.0
10-50	1.7	1.3	1.1	1.0	1.0	1.0
50-100	1.2	1.1	1.0	1.0	1.0	1.0
100-200	1.0	1.0	1.0	1.0	1.0	1.0
>200	1.0	1.0	1.0	1.0	1.0	1.0

cis-1,2-dichlooretheen	L (m)	%OC,vul				
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0
<10	4.8	4.4	3.5	2.7	2.0	1.3
10-50	1.6	1.5	1.3	1.1	1.0	1.0
50-100	1.2	1.1	1.1	1.0	1.0	1.0
100-200	1.0	1.0	1.0	1.0	1.0	1.0
>200	1.0	1.0	1.0	1.0	1.0	1.0

dichloormethaan	L (m)	%OC,vul				
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0
<10	5.9	4.5	4.0	3.3	2.5	1.6
10-50	1.6	1.5	1.4	1.3	1.1	1.0
50-100	1.2	1.1	1.1	1.0	1.0	1.0
100-200	1.0	1.0	1.0	1.0	1.0	1.0
>200	1.0	1.0	1.0	1.0	1.0	1.0

hexachloorbenzeen		%OC,vul					
L (m)	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0	
<10	6.8	3.6	1.7	1.2	1.1	1.0	
10-50	1.7	1.2	1.0	1.0	1.0	1.0	
50-100	1.2	1.0	1.0	1.0	1.0	1.0	
100-200	1.0	1.0	1.0	1.0	1.0	1.0	
>200	1.0	1.0	1.0	1.0	1.0	1.0	

monochloorbenzeen		%OC,vul					
L (m)	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0	
<10	5.2	4.0	2.6	1.8	1.3	1.0	
10-50	1.6	1.4	1.1	1.0	1.0	1.0	
50-100	1.2	1.1	1.0	1.0	1.0	1.0	
100-200	1.0	1.0	1.0	1.0	1.0	1.0	
>200	1.0	1.0	1.0	1.0	1.0	1.0	

pentachloorbenzeen		%OC,vul					
L (m)	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0	
<10	6.7	3.5	1.7	1.2	1.1	1.0	
10-50	1.7	1.2	1.0	1.0	1.0	1.0	
50-100	1.2	1.0	1.0	1.0	1.0	1.0	
100-200	1.0	1.0	1.0	1.0	1.0	1.0	
>200	1.0	1.0	1.0	1.0	1.0	1.0	

tetrachloorbenzeen		%OC,vul					
L (m)	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0	
<10	6.8	3.6	1.7	1.2	1.1	1.0	
10-50	1.7	1.2	1.0	1.0	1.0	1.0	
50-100	1.2	1.0	1.0	1.0	1.0	1.0	
100-200	1.0	1.0	1.0	1.0	1.0	1.0	
>200	1.0	1.0	1.0	1.0	1.0	1.0	

tetrachlooretheen		%OC,vul					
L (m)	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0	
<10	5.2	4.0	2.4	1.6	1.2	1.0	
10-50	1.6	1.3	1.1	1.0	1.0	1.0	
50-100	1.2	1.1	1.0	1.0	1.0	1.0	
100-200	1.0	1.0	1.0	1.0	1.0	1.0	
>200	1.0	1.0	1.0	1.0	1.0	1.0	

tetrachloormethaan	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	5.2	4.0	2.6	1.8	1.3	1.0
	10-50	1.6	1.4	1.1	1.0	1.0	1.0
	50-100	1.2	1.1	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

trans-1,2-dichlooretheen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	4.8	4.4	3.4	2.7	2.0	1.2
	10-50	1.6	1.5	1.3	1.1	1.0	1.0
	50-100	1.2	1.1	1.1	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

trichloorbenzeen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	6.8	3.8	1.9	1.3	1.1	1.0
	10-50	1.7	1.2	1.0	1.0	1.0	1.0
	50-100	1.2	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

trichlooretheen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	4.9	4.3	3.1	2.2	1.6	1.1
	10-50	1.6	1.4	1.2	1.1	1.0	1.0
	50-100	1.2	1.1	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

trichloormethaan	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	4.9	4.4	3.2	2.4	1.7	1.2
	10-50	1.6	1.4	1.2	1.1	1.0	1.0
	50-100	1.2	1.1	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

vinylchloride	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	5.7	5.7	4.2	3.8	3.2	2.1
	10-50	1.6	1.5	1.5	1.4	1.2	1.1
	50-100	1.1	1.1	1.1	1.1	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

c) X>200 m

1,1,1-trichloorethaan	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	8.4	7.0	5.8	3.6	2.3	1.3
	10-50	2.5	2.1	1.5	1.2	1.1	1.0
	50-100	1.5	1.3	1.1	1.0	1.0	1.0
	100-200	1.1	1.1	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

1,1,2-trichloorethaan	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	8.2	7.4	5.5	4.0	2.7	1.5
	10-50	2.5	2.2	1.7	1.4	1.1	1.0
	50-100	1.5	1.4	1.2	1.1	1.0	1.0
	100-200	1.1	1.1	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

1,1-dichloorethaan	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	8.0	7.5	6.4	4.9	3.5	1.9
	10-50	2.3	2.2	1.8	1.6	1.3	1.0
	50-100	1.5	1.4	1.3	1.1	1.0	1.0
	100-200	1.1	1.1	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

1,2-dichloorbenzeen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	11.4	6.6	3.5	2.1	1.4	1.0
	10-50	2.5	1.7	1.2	1.0	1.0	1.0
	50-100	1.5	1.2	1.0	1.0	1.0	1.0
	100-200	1.1	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

1,2-dichloorethaan	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	10.2	7.5	6.6	5.3	4.0	2.2
	10-50	2.3	2.2	1.9	1.6	1.4	1.1
	50-100	1.5	1.4	1.3	1.2	1.1	1.0
	100-200	1.1	1.1	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

1,3-dichloorbenzeen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	11.2	6.5	3.1	1.8	1.3	1.0
	10-50	2.5	1.7	1.1	1.0	1.0	1.0
	50-100	1.5	1.2	1.0	1.0	1.0	1.0
	100-200	1.1	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

1,4-dichloorbenzeen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	11.4	6.7	3.5	2.1	1.4	1.0
	10-50	2.5	1.8	1.2	1.0	1.0	1.0
	50-100	1.5	1.2	1.0	1.0	1.0	1.0
	100-200	1.1	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

cis-1,2-dichlooretheen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	8.1	7.4	5.8	4.4	3.1	1.7
	10-50	2.3	2.1	1.8	1.5	1.2	1.0
	50-100	1.5	1.4	1.2	1.1	1.0	1.0
	100-200	1.1	1.1	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

dichloormethaan	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	10.1	7.6	6.7	5.4	4.2	2.3
	10-50	2.3	2.2	1.9	1.7	1.4	1.1
	50-100	1.5	1.4	1.3	1.2	1.1	1.0
	100-200	1.1	1.1	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

hexachloorbenzeen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	11.3	5.6	2.6	1.6	1.2	1.0
	10-50	2.5	1.5	1.1	1.0	1.0	1.0
	50-100	1.5	1.1	1.0	1.0	1.0	1.0
	100-200	1.1	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

monochloorbenzeen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	11.2	8.4	4.8	2.9	1.8	1.1
	10-50	2.5	2.0	1.4	1.1	1.0	1.0
	50-100	1.5	1.3	1.1	1.0	1.0	1.0
	100-200	1.1	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

pentachloorbenzeen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	11.4	5.9	2.6	1.6	1.2	1.0
	10-50	2.5	1.5	1.1	1.0	1.0	1.0
	50-100	1.5	1.1	1.0	1.0	1.0	1.0
	100-200	1.1	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

tetrachloorbenzeen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	11.3	5.6	2.6	1.6	1.2	1.0
	10-50	2.5	1.5	1.1	1.0	1.0	1.0
	50-100	1.5	1.1	1.0	1.0	1.0	1.0
	100-200	1.1	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

tetrachlooretheen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	11.3	7.8	4.2	2.5	1.6	1.1
	10-50	2.5	1.9	1.3	1.1	1.0	1.0
	50-100	1.5	1.2	1.0	1.0	1.0	1.0
	100-200	1.1	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

tetrachloormethaan	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	11.2	8.4	4.9	3.0	1.9	1.1
	10-50	2.5	2.0	1.4	1.1	1.0	1.0
	50-100	1.5	1.3	1.1	1.0	1.0	1.0
	100-200	1.1	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

trans-1,2-dichlooretheen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	8.1	7.4	5.7	4.4	3.0	1.7
	10-50	2.3	2.1	1.8	1.4	1.2	1.0
	50-100	1.5	1.4	1.2	1.1	1.0	1.0
	100-200	1.1	1.1	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

trichloorbenzeen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	11.4	6.0	2.9	1.7	1.2	1.0
	10-50	2.5	1.6	1.1	1.0	1.0	1.0
	50-100	1.5	1.1	1.0	1.0	1.0	1.0
	100-200	1.1	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

trichlooretheen	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	8.4	7.4	5.0	4.0	2.5	1.3
	10-50	2.5	2.1	1.6	1.3	1.1	1.0
	50-100	1.5	1.3	1.1	1.0	1.0	1.0
	100-200	1.1	1.1	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

trichloormethaan	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	8.2	7.4	5.4	3.9	2.8	1.4
	10-50	2.5	2.2	1.7	1.3	1.1	1.0
	50-100	1.5	1.4	1.2	1.1	1.0	1.0
	100-200	1.1	1.1	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

vinylchloride	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	9.7	9.7	7.1	6.4	5.2	3.2
	10-50	2.3	2.2	2.1	1.9	1.6	1.2
	50-100	1.4	1.4	1.4	1.3	1.2	1.0
	100-200	1.1	1.1	1.1	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

B5 Cyanides

a) 30 m<X<100 m

cyanide	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	2.3	1.7	1.2	1.1	1.0	1.0
	10-50	1.1	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

b) 100 m<X<200 m

cyanide	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	6.7	4.1	2.1	1.4	1.1	1.0
	10-50	1.7	1.3	1.0	1.0	1.0	1.0
	50-100	1.2	1.0	1.0	1.0	1.0	1.0
	100-200	1.0	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

c) X>200 m

cyanide	L (m)	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<10	11.3	6.8	3.2	1.9	1.3	1.0
	10-50	2.5	1.7	1.2	1.0	1.0	1.0
	50-100	1.5	1.2	1.0	1.0	1.0	1.0
	100-200	1.1	1.0	1.0	1.0	1.0	1.0
	>200	1.0	1.0	1.0	1.0	1.0	1.0

BIJLAGE C: ATTENUATIEFACTOR VOOR TRANSPORT DOOR ONDERLIGGENDE ONVERZADIGDE BODEM MET MKN UIT VLAREBO

Volgende tabellen geven AF_{bodem} voor de verschillende Vlarebo-parameters voor verschillende diktes van de opvulling, K_d van de onderliggende bodem (1 m dikte) en K_d van het vulmateriaal. Als milieukwaliteitsnorm in grondwater is de bodemsaneringsnorm voor grondwater (hetzelfde niveau als de drinkwaternorm) gebruikt (VLAREBO bijlage IV). Binnen de tabellen zijn domeinen afgebakend (cursief gedrukte grijze gebieden) die de scenario's aflijnen waar concentraties lager dan BSN type III geen aanleiding geven tot overschrijding van de bodemsaneringsnorm voor grondwater aan de receptor en waar de berekening dus niet uitgevoerd hoeft te worden.

C1 Zware metalen en metalloïden

a) $d_{vul} < 10$ m

As	Kd,bodem (l/kg)	Kd,vul (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<50	1.0	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-500	1.1	1.0	1.0	1.0	1.0	1.0
	500-1000	1.6	1.1	1.0	1.0	1.0	1.0
	1000-2000	2.6	1.6	1.0	1.0	1.0	1.0
	>2000	6.8	3.0	1.1	1.0	1.0	1.0

Cd	Kd,bodem (l/kg)	Kd,vul (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<50	1.0	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-500	1.1	1.0	1.0	1.0	1.0	1.0
	500-1000	1.6	1.1	1.0	1.0	1.0	1.0
	1000-2000	2.6	1.6	1.0	1.0	1.0	1.0
	>2000	6.9	3.0	1.1	1.0	1.0	1.0

Cr	Kd,bodem (l/kg)	Kd,vul (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<50	1.0	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0

100-500	1.1	1.0	1.0	1.0	1.0	1.0
500-1000	1.6	1.1	1.0	1.0	1.0	1.0
1000-2000	2.6	1.6	1.0	1.0	1.0	1.0
>2000	6.8	3.0	1.1	1.0	1.0	1.0

Cu Kd,bodem (l/kg)	Kd,vul (l/kg)					
	<50	50-100	100-500	500-1000	1000-2000	>2000
<50	1.0	1.0	1.0	1.0	1.0	1.0
50-100	1.0	1.0	1.0	1.0	1.0	1.0
100-500	1.1	1.0	1.0	1.0	1.0	1.0
500-1000	1.6	1.1	1.0	1.0	1.0	1.0
1000-2000	2.6	1.6	1.0	1.0	1.0	1.0
>2000	6.9	3.0	1.1	1.0	1.0	1.0

Hg Kd,bodem (l/kg)	Kd,vul (l/kg)					
	<50	50-100	100-500	500-1000	1000-2000	>2000
<50	1.0	1.0	1.0	1.0	1.0	1.0
50-100	1.0	1.0	1.0	1.0	1.0	1.0
100-500	1.1	1.0	1.0	1.0	1.0	1.0
500-1000	1.6	1.1	1.0	1.0	1.0	1.0
1000-2000	2.7	1.6	1.0	1.0	1.0	1.0
>2000	7.0	3.0	1.1	1.0	1.0	1.0

Ni Kd,bodem (l/kg)	Kd,vul (l/kg)					
	<50	50-100	100-500	500-1000	1000-2000	>2000
<50	1.0	1.0	1.0	1.0	1.0	1.0
50-100	1.0	1.0	1.0	1.0	1.0	1.0
100-500	1.1	1.0	1.0	1.0	1.0	1.0
500-1000	1.6	1.1	1.0	1.0	1.0	1.0
1000-2000	2.6	1.6	1.0	1.0	1.0	1.0
>2000	6.9	3.0	1.1	1.0	1.0	1.0

Pb Kd,bodem (l/kg)	Kd,vul (l/kg)					
	<50	50-100	100-500	500-1000	1000-2000	>2000
<50	1.0	1.0	1.0	1.0	1.0	1.0
50-100	1.0	1.0	1.0	1.0	1.0	1.0
100-500	1.1	1.0	1.0	1.0	1.0	1.0
500-1000	1.6	1.1	1.0	1.0	1.0	1.0
1000-2000	2.6	1.6	1.0	1.0	1.0	1.0
>2000	6.9	3.0	1.1	1.0	1.0	1.0

Zn	Kd,bodem (l/kg)	Kd,vul (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<50	1.0	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-500	1.1	1.0	1.0	1.0	1.0	1.0
	500-1000	1.6	1.1	1.0	1.0	1.0	1.0
	1000-2000	2.6	1.6	1.0	1.0	1.0	1.0
	>2000	6.9	3.0	1.1	1.0	1.0	1.0

b) $10 \text{ m} < d_{\text{vul}} < 20 \text{ m}$

As	Kd,bodem (l/kg)	Kd,vul (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<50	1.0	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0	1.0	1.0
	500-1000	1.1	1.0	1.0	1.0	1.0	1.0
	1000-2000	1.6	1.1	1.0	1.0	1.0	1.0
	>2000	3.2	1.9	1.0	1.0	1.0	1.0

Cd	Kd,bodem (l/kg)	Kd,vul (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<50	1.0	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0	1.0	1.0
	500-1000	1.1	1.0	1.0	1.0	1.0	1.0
	1000-2000	1.6	1.1	1.0	1.0	1.0	1.0
	>2000	3.2	1.9	1.0	1.0	1.0	1.0

Cr	Kd,bodem (l/kg)	Kd,vul (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<50	1.0	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0	1.0	1.0
	500-1000	1.1	1.0	1.0	1.0	1.0	1.0
	1000-2000	1.6	1.1	1.0	1.0	1.0	1.0
	>2000	3.2	1.9	1.0	1.0	1.0	1.0

Cu	Kd,bodem (l/kg)	Kd,vul (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<50	1.0	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0	1.0	1.0
	500-1000	1.1	1.0	1.0	1.0	1.0	1.0
	1000-2000	1.6	1.1	1.0	1.0	1.0	1.0
	>2000	3.2	1.9	1.0	1.0	1.0	1.0

Hg	Kd,bodem (l/kg)	Kd,vul (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000

<50	1.0	1.0	1.0	1.0	1.0	1.0	1.0
50-100	1.0	1.0	1.0	1.0	1.0	1.0	1.0
100-500	1.0	1.0	1.0	1.0	1.0	1.0	1.0
500-1000	1.1	1.0	1.0	1.0	1.0	1.0	1.0
1000-2000	1.6	1.1	1.0	1.0	1.0	1.0	1.0
>2000	3.2	1.9	1.0	1.0	1.0	1.0	1.0

Ni	Kd,bodem (l/kg)	Kd,vul (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<50	1.0	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0	1.0	1.0
	500-1000	1.1	1.0	1.0	1.0	1.0	1.0
	1000-2000	1.6	1.1	1.0	1.0	1.0	1.0
	>2000	3.2	1.9	1.0	1.0	1.0	1.0

Pb	Kd,bodem (l/kg)	Kd,vul (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<50	1.0	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0	1.0	1.0
	500-1000	1.1	1.0	1.0	1.0	1.0	1.0
	1000-2000	1.6	1.1	1.0	1.0	1.0	1.0
	>2000	3.2	1.9	1.0	1.0	1.0	1.0

Zn	Kd,bodem (l/kg)	Kd,vul (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<50	1.0	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0	1.0	1.0
	500-1000	1.1	1.0	1.0	1.0	1.0	1.0
	1000-2000	1.6	1.1	1.0	1.0	1.0	1.0
	>2000	3.2	1.9	1.0	1.0	1.0	1.0

c) $d_{vul} > 20$ m

As	Kd,bodem (l/kg)	Kd,vul (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<50	1.0	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0	1.0	1.0
	500-1000	1.0	1.0	1.0	1.0	1.0	1.0
	1000-2000	1.0	1.0	1.0	1.0	1.0	1.0
	>2000	1.6	1.1	1.0	1.0	1.0	1.0

Cd	Kd,bodem (l/kg)	Kd,vul (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<50	1.0	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0	1.0	1.0
	500-1000	1.0	1.0	1.0	1.0	1.0	1.0
	1000-2000	1.0	1.0	1.0	1.0	1.0	1.0
	>2000	1.6	1.1	1.0	1.0	1.0	1.0

Cr	Kd,bodem (l/kg)	Kd,vul (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<50	1.0	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0	1.0	1.0
	500-1000	1.0	1.0	1.0	1.0	1.0	1.0
	1000-2000	1.0	1.0	1.0	1.0	1.0	1.0
	>2000	1.6	1.1	1.0	1.0	1.0	1.0

Cu	Kd,bodem (l/kg)	Kd,vul (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000
	<50	1.0	1.0	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0	1.0	1.0
	500-1000	1.0	1.0	1.0	1.0	1.0	1.0
	1000-2000	1.0	1.0	1.0	1.0	1.0	1.0
	>2000	1.6	1.1	1.0	1.0	1.0	1.0

Hg	Kd,bodem (l/kg)	Kd,vul (l/kg)					
		<50	50-100	100-500	500-1000	1000-2000	>2000

<50	1.0	1.0	1.0	1.0	1.0	1.0	1.0
50-100	1.0	1.0	1.0	1.0	1.0	1.0	1.0
100-500	1.0	1.0	1.0	1.0	1.0	1.0	1.0
500-1000	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1000-2000	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>2000	1.6	1.1	1.0	1.0	1.0	1.0	1.0

Ni Kd,bodem (l/kg)	Kd,vul (l/kg)					
	<50	50-100	100-500	500-1000	1000-2000	>2000
<50	1.0	1.0	1.0	1.0	1.0	1.0
50-100	1.0	1.0	1.0	1.0	1.0	1.0
100-500	1.0	1.0	1.0	1.0	1.0	1.0
500-1000	1.0	1.0	1.0	1.0	1.0	1.0
1000-2000	1.0	1.0	1.0	1.0	1.0	1.0
>2000	1.6	1.1	1.0	1.0	1.0	1.0

Pb Kd,bodem (l/kg)	Kd,vul (l/kg)					
	<50	50-100	100-500	500-1000	1000-2000	>2000
<50	1.0	1.0	1.0	1.0	1.0	1.0
50-100	1.0	1.0	1.0	1.0	1.0	1.0
100-500	1.0	1.0	1.0	1.0	1.0	1.0
500-1000	1.0	1.0	1.0	1.0	1.0	1.0
1000-2000	1.0	1.0	1.0	1.0	1.0	1.0
>2000	1.6	1.1	1.0	1.0	1.0	1.0

Zn Kd,bodem (l/kg)	Kd,vul (l/kg)					
	<50	50-100	100-500	500-1000	1000-2000	>2000
<50	1.0	1.0	1.0	1.0	1.0	1.0
50-100	1.0	1.0	1.0	1.0	1.0	1.0
100-500	1.0	1.0	1.0	1.0	1.0	1.0
500-1000	1.0	1.0	1.0	1.0	1.0	1.0
1000-2000	1.0	1.0	1.0	1.0	1.0	1.0
>2000	1.6	1.1	1.0	1.0	1.0	1.0

C2 Monocyclische aromatische KWS en overige organische stoffen

a) $d_{vul} < 10$ m

benzeen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.1	1.1	1.0	1.0	1.0	1.0
	0.2-0.5	1.1	1.1	1.0	1.0	1.0	1.0
	0.5-1.0	1.2	1.1	1.0	1.0	1.0	1.0
	1.0-2.0	1.2	1.2	1.1	1.0	1.0	1.0
	2.0-6.0	1.4	1.3	1.1	1.0	1.0	1.0
	>6.0	2.5	1.8	1.3	1.1	1.0	1.0

ethylbenzeen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.1	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.1	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.2	1.1	1.0	1.0	1.0	1.0
	1.0-2.0	1.3	1.1	1.0	1.0	1.0	1.0
	2.0-6.0	1.6	1.2	1.1	1.0	1.0	1.0
	>6.0	3.4	1.5	1.2	1.1	1.0	1.0

tolueen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.1	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.1	1.1	1.0	1.0	1.0	1.0
	0.5-1.0	1.2	1.1	1.0	1.0	1.0	1.0
	1.0-2.0	1.3	1.2	1.1	1.0	1.0	1.0
	2.0-6.0	1.5	1.3	1.1	1.0	1.0	1.0
	>6.0	3.0	2.0	1.3	1.1	1.0	1.0

xyleen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.1	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.1	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.2	1.1	1.0	1.0	1.0	1.0
	1.0-2.0	1.3	1.1	1.0	1.0	1.0	1.0
	2.0-6.0	1.5	1.2	1.1	1.0	1.0	1.0
	>6.0	3.3	1.5	1.2	1.1	1.0	1.0

styreen	%OC,vul					
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%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.1	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.5	1.1	1.0	1.0	1.0	1.0
>6.0	3.7	2.1	1.2	1.0	1.0	1.0

hexaan	%OC,vul					
%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.2	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.6	1.2	1.0	1.0	1.0	1.0
0.5-1.0	2.2	1.6	1.2	1.0	1.0	1.0
1.0-2.0	3.3	2.2	1.4	1.2	1.0	1.0
2.0-6.0	5.3	3.2	1.8	1.3	1.1	1.0
>6.0	13.9	7.0	3.1	1.9	1.3	1.1

heptaan	%OC,vul					
%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.5	1.3	1.1	1.1	1.0	1.0
0.2-0.5	1.7	1.4	1.2	1.1	1.1	1.0
0.5-1.0	2.4	1.6	1.2	1.1	1.1	1.0
1.0-2.0	3.6	2.1	1.3	1.1	1.1	1.0
2.0-6.0	6.0	3.0	1.6	1.2	1.1	1.0
>6.0	>100	>100	>100	>100	59.9	20.0

octaan	%OC,vul					
%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.3	1.2	1.1	1.1	1.1	1.0
0.2-0.5	1.4	1.2	1.1	1.1	1.0	1.0
0.5-1.0	1.9	1.4	1.1	1.1	1.0	1.0
1.0-2.0	2.6	1.6	1.2	1.1	30.0	10.0
2.0-6.0	>100	>100	>100	>100	60.0	20.0
>6.0	>100	>100	>100	>100	>100	60.0

MTBE	%OC,vul					
%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0

2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0
>6.0	1.0	1.0	1.0	1.0	1.0	1.0

b) 10 m < d_{vul} < 20 m

benzeen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.1	1.1	1.0	1.0	1.0	1.0
	2.0-6.0	1.1	1.1	1.0	1.0	1.0	1.0
	>6.0	1.4	1.2	1.1	1.0	1.0	1.0

ethylbenzeen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.1	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.1	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.2	1.1	1.0	1.0	1.0	1.0
	>6.0	1.7	1.3	1.1	1.0	1.0	1.0

tolueen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.1	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.1	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.2	1.1	1.0	1.0	1.0	1.0
	>6.0	1.3	1.2	1.1	1.0	1.0	1.0

xyleen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.1	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.1	1.1	1.0	1.0	1.0	1.0
	>6.0	1.3	1.3	1.0	1.0	1.0	1.0

styreen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0

0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.1	1.0	1.0	1.0	1.0	1.0
>6.0	2.0	1.3	1.0	1.0	1.0	1.0

hexaan	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.1	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.2	1.1	1.0	1.0	1.0	1.0
	0.5-1.0	1.4	1.2	1.1	1.0	1.0	1.0
	1.0-2.0	1.7	1.4	1.1	1.1	1.0	1.0
	2.0-6.0	2.3	1.7	1.3	1.1	1.0	1.0
	>6.0	4.7	2.8	1.6	1.3	1.1	1.0

heptaan	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.1	1.1	1.0	1.0	1.0	1.0
	0.2-0.5	1.2	1.1	1.0	1.0	1.0	1.0
	0.5-1.0	1.4	1.2	1.1	1.0	1.0	1.0
	1.0-2.0	1.7	1.3	1.1	1.0	1.0	1.0
	2.0-6.0	2.3	1.6	1.2	1.1	1.0	1.0
	>6.0	>100	>100	>100	>100	59.9	20.0

octaan	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.1	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.1	1.1	1.0	1.0	1.0	1.0
	0.5-1.0	1.3	1.1	1.0	1.0	1.0	1.0
	1.0-2.0	1.5	1.2	1.1	1.0	1.0	10.0
	2.0-6.0	>100	>100	>100	>100	60.0	20.0
	>6.0	>100	>100	>100	>100	>100	60.0

MTBE	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0
	>6.0	1.0	1.0	1.0	1.0	1.0	1.0

c) $d_{vul} > 20$ m

benzeen		%OC,vul					
%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0	
<0.2	1.0	1.0	1.0	1.0	1.0	1.0	
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0	
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0	
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0	
2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0	
>6.0	1.1	1.0	1.0	1.0	1.0	1.0	

ethylbenzeen		%OC,vul					
%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0	
<0.2	1.0	1.0	1.0	1.0	1.0	1.0	
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0	
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0	
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0	
2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0	
>6.0	1.1	1.0	1.0	1.0	1.0	1.0	

tolueen		%OC,vul					
%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0	
<0.2	1.0	1.0	1.0	1.0	1.0	1.0	
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0	
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0	
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0	
2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0	
>6.0	1.1	1.0	1.0	1.0	1.0	1.0	

xyleen		%OC,vul					
%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0	
<0.2	1.0	1.0	1.0	1.0	1.0	1.0	
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0	
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0	
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0	
2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0	
>6.0	1.1	1.0	1.0	1.0	1.0	1.0	

styreen		%OC,vul					
%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0	
<0.2	1.0	1.0	1.0	1.0	1.0	1.0	

0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0
>6.0	1.1	1.0	1.0	1.0	1.0	1.0

hexaan	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.1	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.2	1.1	1.0	1.0	1.0	1.0
	2.0-6.0	1.3	1.1	1.1	1.0	1.0	1.0
	>6.0	1.7	1.4	1.1	1.1	1.0	1.0

heptaan	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.1	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.2	1.1	1.0	1.0	1.0	1.0
	2.0-6.0	1.3	1.1	1.0	1.0	1.0	1.0
	>6.0	>100	>100	>100	>100	59.9	20.0

octaan	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.1	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.1	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	>100	>100	>100	>100	60.0	20.0
	>6.0	>100	>100	>100	>100	>100	60.0

MTBE	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0
	>6.0	1.0	1.0	1.0	1.0	1.0	1.0

C3 PAK's

a) $d_{vul} < 10$ m

acenafteen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.1	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.6	1.1	1.0	1.0	1.0	1.0
	>6.0	4.3	2.2	1.2	1.0	1.0	1.0

acenaftyleen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.1	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.6	1.1	1.0	1.0	1.0	1.0
	>6.0	3.4	2.1	1.2	1.0	1.0	1.0

antraceen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.1	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.6	1.1	1.0	1.0	1.0	1.0
	>6.0	3.7	2.2	1.2	1.0	1.0	1.0

benzo(a)antraceen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.1	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.6	1.1	1.0	1.0	1.0	1.0
	>6.0	4.3	2.2	1.2	1.0	1.0	1.0

benzo(a)pyreen	%OC,vul					
	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0

%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.1	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.6	1.1	1.0	1.0	1.0	1.0
>6.0	2.7	2.2	1.2	1.1	1.1	1.1

benzo(b)fluoranteen	%OC,vul					
%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.1	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.6	1.1	1.0	1.0	1.0	1.0
>6.0	4.2	2.2	1.2	1.0	1.0	1.0

benzo(ghi)peryleen	%OC,vul					
%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.1	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.5	1.1	1.0	1.0	1.0	1.0
>6.0	2.9	2.0	1.2	1.0	1.0	1.0

benzo(k)fluoranteen	%OC,vul					
%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.1	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.6	1.1	1.0	1.0	1.0	1.0
>6.0	4.1	2.2	1.2	1.0	1.0	1.0

chryseen	%OC,vul					
%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.1	1.0	1.0	1.0	1.0	1.0

2.0-6.0	1.6	1.1	1.0	1.0	1.0	1.0
>6.0	4.3	2.2	1.2	1.0	1.0	1.0

dibenz(ah)antraceen %OC,bodem	%OC,vul					
	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.1	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.6	1.1	1.0	1.0	1.0	1.0
>6.0	2.7	2.2	1.2	1.1	1.1	1.1

fenantreen %OC,bodem	%OC,vul					
	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.1	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.6	1.1	1.0	1.0	1.0	1.0
>6.0	4.3	2.3	1.2	1.0	1.0	1.0

fluoranteen %OC,bodem	%OC,vul					
	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.1	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.6	1.1	1.0	1.0	1.0	1.0
>6.0	4.3	2.3	1.2	1.0	1.0	1.0

fluoreen %OC,bodem	%OC,vul					
	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.1	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.6	1.1	1.0	1.0	1.0	1.0
>6.0	3.6	2.2	1.2	1.0	1.0	1.0

indeno(123-cd)pyreen	%OC,vul					
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%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.1	1.1	1.1	1.0	1.0	1.0
2.0-6.0	3.7	3.6	3.4	3.0	2.5	1.5
>6.0	>100	>100	66.0	33.0	16.5	5.5

naftaleen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.1	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.5	1.1	1.0	1.0	1.0	1.0
	>6.0	3.1	2.1	1.2	1.0	1.0	1.0

pyreen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.1	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.6	1.1	1.0	1.0	1.0	1.0
	>6.0	4.3	2.3	1.2	1.0	1.0	1.0

b) 10 m < d_{vul} < 20 m

acenafteen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.1	1.0	1.0	1.0	1.0	1.0
	>6.0	2.2	1.3	1.0	1.0	1.0	1.0

acenaftyleen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.1	1.0	1.0	1.0	1.0	1.0
	>6.0	2.1	1.3	1.0	1.0	1.0	1.0

antraceneen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.1	1.0	1.0	1.0	1.0	1.0
	>6.0	2.2	1.3	1.0	1.0	1.0	1.0

benzo(a)antraceneen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.1	1.0	1.0	1.0	1.0	1.0
	>6.0	2.3	1.3	1.0	1.0	1.0	1.0

benzo(a)pyreen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0

<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.1	1.0	1.0	1.0	1.0	1.0
>6.0	2.2	1.3	1.1	1.1	1.1	1.1

benzo(b)fluoranteen %OC,bodem	%OC,vul					
	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.1	1.0	1.0	1.0	1.0	1.0
>6.0	2.2	1.3	1.0	1.0	1.0	1.0

benzo(ghi)peryleen %OC,bodem	%OC,vul					
	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.1	1.0	1.0	1.0	1.0	1.0
>6.0	2.1	1.3	1.0	1.0	1.0	1.0

benzo(k)fluoranteen %OC,bodem	%OC,vul					
	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.1	1.0	1.0	1.0	1.0	1.0
>6.0	2.2	1.3	1.0	1.0	1.0	1.0

chryseen %OC,bodem	%OC,vul					
	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.1	1.0	1.0	1.0	1.0	1.0

>6.0	2.2	1.3	1.0	1.0	1.0	1.0
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dibenz(ah)antraceen %OC,bodem	%OC,vul					
	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.1	1.0	1.0	1.0	1.0	1.0
>6.0	2.2	1.3	1.1	1.1	1.1	1.1

fenantreen %OC,bodem	%OC,vul					
	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.1	1.0	1.0	1.0	1.0	1.0
>6.0	2.2	1.3	1.0	1.0	1.0	1.0

fluoranteen %OC,bodem	%OC,vul					
	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.1	1.0	1.0	1.0	1.0	1.0
>6.0	2.2	1.3	1.0	1.0	1.0	1.0

fluoreen %OC,bodem	%OC,vul					
	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.1	1.0	1.0	1.0	1.0	1.0
>6.0	2.2	1.3	1.0	1.0	1.0	1.0

indeno(123-cd)pyreen %OC,bodem	%OC,vul					
	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.1	1.0	1.0	1.0	1.0	1.0
>6.0	2.2	1.3	1.0	1.0	1.0	1.0

<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.1	1.1	1.1	1.0	1.0	1.0
2.0-6.0	3.7	3.6	3.4	3.0	2.5	1.5
>6.0	>100	>100	66.0	33.0	16.5	5.5

naftaleen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.1	1.0	1.0	1.0	1.0	1.0
	>6.0	2.0	1.3	1.0	1.0	1.0	1.0

pyreen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.1	1.0	1.0	1.0	1.0	1.0
	>6.0	2.2	1.3	1.0	1.0	1.0	1.0

c) $d_{vul} > 20$ m

acenafteen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0
	>6.0	1.2	1.0	1.0	1.0	1.0	1.0

acenaftyleen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0
	>6.0	1.2	1.0	1.0	1.0	1.0	1.0

antraceen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0
	>6.0	1.2	1.0	1.0	1.0	1.0	1.0

benzo(a)antraceen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0
	>6.0	1.2	1.0	1.0	1.0	1.0	1.0

benzo(a)pyreen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0

<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0
>6.0	1.2	1.1	1.1	1.1	1.1	1.1

benzo(b)fluoranteen %OC,bodem	%OC,vul					
	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0
>6.0	1.1	1.0	1.0	1.0	1.0	1.0

benzo(ghi)peryleen %OC,bodem	%OC,vul					
	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0
>6.0	1.2	1.0	1.0	1.0	1.0	1.0

benzo(k)fluoranteen %OC,bodem	%OC,vul					
	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0
>6.0	1.2	1.0	1.0	1.0	1.0	1.0

chryseen %OC,bodem	%OC,vul					
	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0

>6.0	1.2	1.0	1.0	1.0	1.0	1.0
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dibenz(ah)antraceen %OC,bodem	%OC,vul					
	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0
>6.0	1.2	1.1	1.1	1.1	1.1	1.1

fenantreen %OC,bodem	%OC,vul					
	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0
>6.0	1.2	1.0	1.0	1.0	1.0	1.0

fluoranteen %OC,bodem	%OC,vul					
	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0
>6.0	1.2	1.0	1.0	1.0	1.0	1.0

fluoreen %OC,bodem	%OC,vul					
	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0
>6.0	1.2	1.0	1.0	1.0	1.0	1.0

indeno(123-cd)pyreen %OC,bodem	%OC,vul					
	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0
>6.0	1.2	1.0	1.0	1.0	1.0	1.0

<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.1	1.1	1.1	1.0	1.0	1.0
2.0-6.0	3.7	3.6	3.4	3.0	2.5	1.5
>6.0	>100	>100	66.0	33.0	16.5	5.5

naftaleen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0
	>6.0	1.1	1.0	1.0	1.0	1.0	1.0

pyreen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0
	>6.0	1.2	1.0	1.0	1.0	1.0	1.0

C4 Gechloreerde solventen

a) $d_{vul} < 10$ m

1,1,1-trichloorethaan	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.1	1.1	1.0	1.0	1.0	1.0
	0.2-0.5	1.1	1.1	1.0	1.0	1.0	1.0
	0.5-1.0	1.2	1.1	1.0	1.0	1.0	1.0
	1.0-2.0	1.3	1.2	1.1	1.0	1.0	1.0
	2.0-6.0	1.6	1.3	1.1	1.0	1.0	1.0
	>6.0	2.9	2.0	1.3	1.1	1.0	1.0

1,1,2-trichloorethaan	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.1	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.1	1.1	1.0	1.0	1.0	1.0
	>6.0	1.7	1.4	1.1	1.0	1.0	1.0

1,1-dichloorethaan	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.1	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.1	1.1	1.0	1.0	1.0	1.0
	0.5-1.0	1.1	1.1	1.0	1.0	1.0	1.0
	1.0-2.0	1.1	1.1	1.1	1.0	1.0	1.0
	2.0-6.0	1.2	1.2	1.1	1.0	1.0	1.0
	>6.0	1.6	1.5	1.2	1.1	1.0	1.0

1,2-dichloorbenzeen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.1	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.5	1.1	1.0	1.0	1.0	1.0
	>6.0	3.6	2.1	1.2	1.0	1.0	1.0

1,2-dichloorethaan	%OC,vul					
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%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.1	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.1	1.1	1.0	1.0	1.0	1.0
>6.0	1.3	1.2	1.1	1.0	1.0	1.0

1,3-dichloorbenzeen		%OC,vul				
%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.1	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.5	1.1	1.0	1.0	1.0	1.0
>6.0	3.9	2.2	1.2	1.0	1.0	1.0

1,4-dichloorbenzeen		%OC,vul				
%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.1	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.1	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.5	1.1	1.0	1.0	1.0	1.0
>6.0	3.6	2.1	1.2	1.0	1.0	1.0

cis-1,2-dichlooretheen		%OC,vul				
%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.1	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.1	1.1	1.0	1.0	1.0	1.0
1.0-2.0	1.1	1.1	1.0	1.0	1.0	1.0
2.0-6.0	1.2	1.2	1.1	1.0	1.0	1.0
>6.0	1.7	1.5	1.2	1.1	1.0	1.0

dichloormethaan		%OC,vul				
%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.1	1.1	1.0	1.0	1.0	1.0

2.0-6.0	1.1	1.1	1.0	1.0	1.0	1.0
>6.0	1.3	1.2	1.1	1.1	1.0	1.0

hexachloorbenzeen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.1	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.6	1.1	1.0	1.0	1.0	1.0
	>6.0	3.6	2.1	1.2	1.0	1.0	1.0

monochloorbenzeen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.1	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.1	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.2	1.1	1.0	1.0	1.0	1.0
	2.0-6.0	1.4	1.1	1.0	1.0	1.0	1.0
	>6.0	2.9	1.4	1.2	1.0	1.0	1.0

pentachloorbenzeen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.1	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.6	1.1	1.0	1.0	1.0	1.0
	>6.0	4.2	2.3	1.2	1.0	1.0	1.0

tetrachloorbenzeen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.1	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.6	1.1	1.0	1.0	1.0	1.0
	>6.0	4.2	2.2	1.2	1.0	1.0	1.0

tetrachlooretheen	%OC,vul					
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%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.1	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.1	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.2	1.1	1.0	1.0	1.0	1.0
1.0-2.0	1.3	1.1	1.0	1.0	1.0	1.0
2.0-6.0	1.6	1.2	1.1	1.0	1.0	1.0
>6.0	3.4	2.2	1.2	1.1	1.0	1.0

tetrachloormethaan		%OC,vul				
%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.1	1.1	1.0	1.0	1.0	1.0
0.2-0.5	1.1	1.1	1.0	1.0	1.0	1.0
0.5-1.0	1.3	1.1	1.0	1.0	1.0	1.0
1.0-2.0	1.5	1.2	1.1	1.0	1.0	1.0
2.0-6.0	1.8	1.4	1.1	1.0	1.0	1.0
>6.0	3.3	2.4	1.3	1.1	1.0	1.0

trans-1,2-dichlooretheen		%OC,vul				
%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.1	1.1	1.0	1.0	1.0	1.0
0.2-0.5	1.1	1.1	1.0	1.0	1.0	1.0
0.5-1.0	1.1	1.1	1.1	1.0	1.0	1.0
1.0-2.0	1.2	1.2	1.1	1.0	1.0	1.0
2.0-6.0	1.4	1.3	1.1	1.1	1.0	1.0
>6.0	2.0	1.7	1.3	1.1	1.0	1.0

trichloorbenzeen		%OC,vul				
%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.1	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.5	1.1	1.0	1.0	1.0	1.0
>6.0	2.4	2.0	1.2	1.0	1.0	1.0

trichlooretheen		%OC,vul				
%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.1	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.1	1.1	1.0	1.0	1.0	1.0
0.5-1.0	1.1	1.1	1.0	1.0	1.0	1.0
1.0-2.0	1.2	1.1	1.0	1.0	1.0	1.0

2.0-6.0	1.4	1.2	1.1	1.0	1.0	1.0
>6.0	2.4	1.8	1.2	1.1	1.0	1.0

trichloormethaan %OC,bodem	%OC,vul					
	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.1	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.1	1.1	1.0	1.0	1.0	1.0
0.5-1.0	1.1	1.1	1.0	1.0	1.0	1.0
1.0-2.0	1.2	1.1	1.1	1.0	1.0	1.0
2.0-6.0	1.3	1.2	1.1	1.0	1.0	1.0
>6.0	2.1	1.7	1.2	1.1	1.0	1.0

vinylchloride %OC,bodem	%OC,vul					
	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.4	1.4	1.3	1.3	1.2	1.0
0.2-0.5	1.5	1.5	1.4	1.4	1.2	1.0
0.5-1.0	1.5	1.5	1.5	1.4	1.3	1.0
1.0-2.0	1.8	1.7	1.6	1.5	1.4	1.0
2.0-6.0	2.0	1.9	1.8	1.7	1.5	1.2
>6.0	3.1	3.0	2.7	2.3	1.9	1.4

b) 10 m < d_{vul} < 20 m

1,1,1-trichloorethaan %OC,bodem	%OC,vul					
	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.1	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.1	1.1	1.0	1.0	1.0	1.0
2.0-6.0	1.2	1.1	1.0	1.0	1.0	1.0
>6.0	1.5	1.3	1.1	1.0	1.0	1.0

1,1,2-trichloorethaan %OC,bodem	%OC,vul					
	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0
>6.0	1.1	1.1	1.0	1.0	1.0	1.0

1,1-dichloorethaan	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.1	1.1	1.0	1.0	1.0	1.0
	>6.0	1.2	1.1	1.1	1.0	1.0	1.0

1,2-dichloorbenzeen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.1	1.0	1.0	1.0	1.0	1.0
	>6.0	1.9	1.3	1.0	1.0	1.0	1.0

1,2-dichloorethaan	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0
	>6.0	1.1	1.0	1.0	1.0	1.0	1.0

1,3-dichloorbenzeen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.1	1.0	1.0	1.0	1.0	1.0
	>6.0	2.0	1.3	1.0	1.0	1.0	1.0

1,4-dichloorbenzeen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0

0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.1	1.0	1.0	1.0	1.0	1.0
>6.0	1.8	1.3	1.0	1.0	1.0	1.0

cis-1,2-dichlooretheen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.1	1.0	1.0	1.0	1.0	1.0
	>6.0	1.2	1.1	1.1	1.0	1.0	1.0

dichloormethaan	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0
	>6.0	1.1	1.1	1.0	1.0	1.0	1.0

hexachloorbenzeen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.1	1.0	1.0	1.0	1.0	1.0
	>6.0	2.2	1.3	1.0	1.0	1.0	1.0

monochloorbenzeen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.1	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.1	1.0	1.0	1.0	1.0	1.0
	>6.0	1.6	1.2	1.0	1.0	1.0	1.0

pentachloorbenzeen		%OC,vul					
%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0	
<0.2	1.0	1.0	1.0	1.0	1.0	1.0	
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0	
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0	
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0	
2.0-6.0	1.1	1.0	1.0	1.0	1.0	1.0	
>6.0	2.2	1.3	1.0	1.0	1.0	1.0	

tetrachloorbenzeen		%OC,vul					
%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0	
<0.2	1.0	1.0	1.0	1.0	1.0	1.0	
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0	
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0	
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0	
2.0-6.0	1.1	1.0	1.0	1.0	1.0	1.0	
>6.0	2.2	1.3	1.0	1.0	1.0	1.0	

tetrachlooretheen		%OC,vul					
%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0	
<0.2	1.0	1.0	1.0	1.0	1.0	1.0	
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0	
0.5-1.0	1.1	1.0	1.0	1.0	1.0	1.0	
1.0-2.0	1.1	1.0	1.0	1.0	1.0	1.0	
2.0-6.0	1.2	1.1	1.0	1.0	1.0	1.0	
>6.0	1.8	1.3	1.0	1.0	1.0	1.0	

tetrachloormethaan		%OC,vul					
%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0	
<0.2	1.0	1.0	1.0	1.0	1.0	1.0	
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0	
0.5-1.0	1.1	1.0	1.0	1.0	1.0	1.0	
1.0-2.0	1.1	1.1	1.0	1.0	1.0	1.0	
2.0-6.0	1.3	1.1	1.0	1.0	1.0	1.0	
>6.0	1.7	1.3	1.1	1.0	1.0	1.0	

trans-1,2-dichlooretheen		%OC,vul					
%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0	
<0.2	1.0	1.0	1.0	1.0	1.0	1.0	
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0	

0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.1	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.1	1.1	1.0	1.0	1.0	1.0
>6.0	1.3	1.2	1.1	1.0	1.0	1.0

trichloorbenzeen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.1	1.0	1.0	1.0	1.0	1.0
	>6.0	1.9	1.3	1.0	1.0	1.0	1.0

trichlooretheen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.1	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.1	1.1	1.0	1.0	1.0	1.0
	>6.0	1.4	1.2	1.1	1.0	1.0	1.0

trichloormethaan	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.1	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.1	1.1	1.0	1.0	1.0	1.0
	>6.0	1.3	1.2	1.1	1.0	1.0	1.0

vinylchloride	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.2	1.1	1.1	1.1	1.1	1.0
	0.2-0.5	1.2	1.1	1.1	1.1	1.1	1.0
	0.5-1.0	1.2	1.2	1.2	1.1	1.1	1.0
	1.0-2.0	1.2	1.2	1.2	1.2	1.1	1.0
	2.0-6.0	1.3	1.3	1.3	1.2	1.2	1.1
	>6.0	1.7	1.6	1.5	1.4	1.3	1.1

c) $d_{vul} > 20$ m

1,1,1-trichloorethaan		%OC,vul					
%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0	
<0.2	1.0	1.0	1.0	1.0	1.0	1.0	
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0	
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0	
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0	
2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0	
>6.0	1.1	1.1	1.0	1.0	1.0	1.0	

1,1,2-trichloorethaan		%OC,vul					
%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0	
<0.2	1.0	1.0	1.0	1.0	1.0	1.0	
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0	
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0	
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0	
2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0	
>6.0	1.0	1.0	1.0	1.0	1.0	1.0	

1,1-dichloorethaan		%OC,vul					
%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0	
<0.2	1.0	1.0	1.0	1.0	1.0	1.0	
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0	
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0	
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0	
2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0	
>6.0	1.0	1.0	1.0	1.0	1.0	1.0	

1,2-dichloorbenzeen		%OC,vul					
%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0	
<0.2	1.0	1.0	1.0	1.0	1.0	1.0	
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0	
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0	
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0	
2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0	
>6.0	1.1	1.0	1.0	1.0	1.0	1.0	

1,2-dichloorethaan		%OC,vul					
%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0	

<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0
>6.0	1.0	1.0	1.0	1.0	1.0	1.0

1,3-dichloorbenzeen		%OC,vul					
%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0	
<0.2	1.0	1.0	1.0	1.0	1.0	1.0	
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0	
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0	
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0	
2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0	
>6.0	1.1	1.0	1.0	1.0	1.0	1.0	

1,4-dichloorbenzeen		%OC,vul					
%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0	
<0.2	1.0	1.0	1.0	1.0	1.0	1.0	
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0	
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0	
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0	
2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0	
>6.0	1.1	1.0	1.0	1.0	1.0	1.0	

cis-1,2-dichlooretheen		%OC,vul					
%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0	
<0.2	1.0	1.0	1.0	1.0	1.0	1.0	
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0	
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0	
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0	
2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0	
>6.0	1.0	1.0	1.0	1.0	1.0	1.0	

dichloormethaan		%OC,vul					
%OC,bodem	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0	
<0.2	1.0	1.0	1.0	1.0	1.0	1.0	
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0	
0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0	
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0	
2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0	

>6.0	1.0	1.0	1.0	1.0	1.0	1.0
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hexachloorbenzeen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0
	>6.0	1.2	1.0	1.0	1.0	1.0	1.0

monochloorbenzeen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0
	>6.0	1.1	1.0	1.0	1.0	1.0	1.0

pentachloorbenzeen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0
	>6.0	1.2	1.0	1.0	1.0	1.0	1.0

tetrachloorbenzeen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0
	>6.0	1.2	1.0	1.0	1.0	1.0	1.0

tetrachlooretheen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0
	>6.0	1.1	1.0	1.0	1.0	1.0	1.0

tetrachloormethaan	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.1	1.0	1.0	1.0	1.0	1.0
	>6.0	1.1	1.1	1.0	1.0	1.0	1.0

trans-1,2-dichlooretheen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0
	>6.0	1.1	1.0	1.0	1.0	1.0	1.0

trichloorbenzeen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0

0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0
>6.0	1.1	1.0	1.0	1.0	1.0	1.0

trichlooretheen	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0
	>6.0	1.1	1.0	1.0	1.0	1.0	1.0

trichloormethaan	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.0	1.0	1.0	1.0	1.0	1.0
	2.0-6.0	1.0	1.0	1.0	1.0	1.0	1.0
	>6.0	1.1	1.0	1.0	1.0	1.0	1.0

vinylchloride	%OC,bodem	%OC,vul					
		<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
	<0.2	1.0	1.0	1.0	1.0	1.0	1.0
	0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1.0-2.0	1.1	1.1	1.0	1.0	1.0	1.0
	2.0-6.0	1.1	1.1	1.1	1.0	1.0	1.0
	>6.0	1.2	1.1	1.1	1.1	1.1	1.0

C5 Cyanides

a) $d_{vul} < 10$ m

vrije cyanide %OC,bodem	%OC,vul					
	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.3	1.2	1.0	1.0	1.0	1.0
0.2-0.5	1.5	1.2	1.1	1.0	1.0	1.0
0.5-1.0	2.0	1.4	1.1	1.0	1.0	1.0
1.0-2.0	2.8	1.7	1.2	1.1	1.0	1.0
2.0-6.0	4.3	2.2	1.3	1.1	1.0	1.0
>6.0	11.3	4.6	1.8	1.3	1.1	1.0

b) $10 \text{ m} < d_{vul} < 20$ m

vrije cyanide %OC,bodem	%OC,vul					
	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.1	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.2	1.1	1.0	1.0	1.0	1.0
0.5-1.0	1.3	1.1	1.0	1.0	1.0	1.0
1.0-2.0	1.5	1.2	1.1	1.0	1.0	1.0
2.0-6.0	1.9	1.4	1.1	1.0	1.0	1.0
>6.0	3.8	2.0	1.2	1.1	1.0	1.0

c) $d_{vul} > 20$ m

vrije cyanide %OC,bodem	%OC,vul					
	<0.2	0.2-0.5	0.5-1.0	1.0-2.0	2.0-6.0	>6.0
<0.2	1.0	1.0	1.0	1.0	1.0	1.0
0.2-0.5	1.0	1.0	1.0	1.0	1.0	1.0
0.5-1.0	1.1	1.0	1.0	1.0	1.0	1.0
1.0-2.0	1.1	1.0	1.0	1.0	1.0	1.0
2.0-6.0	1.2	1.1	1.0	1.0	1.0	1.0
>6.0	1.5	1.2	1.1	1.0	1.0	1.0

BIJLAGE D: ATTENUATIEFACTOR VOOR TRANSPORT IN GRONDWATER MET MKN UIT VLAREM II

Volgende tabellen geven $AF_{\text{grondwater}}$ voor de verschillende parameters opgenomen in bijlage 2.4.1 van VLAREM II voor een afstand tot de receptor van $X = 30$ m voor verschillende afmetingen van de groeve, types van aquifer en K_d van het vulmateriaal. De milieukwaliteitsnormen in grondwater zijn de grondwaterkwaliteitsnormen en drempelwaarden opgenomen in VLAREM II (bijlage 2.4.1). Binnen de tabellen zijn domeinen afgebakend (grijze cursief gedrukte gebieden) die de scenario's aflijnen waarbij concentraties in de aangevoerde bodemmateriaal, lager dan BSN type III, geen aanleiding geven tot overschrijding van de grondwaterkwaliteitsnorm/drempelwaarde uit VLAREM II ter hoogte van de receptor en waar een verdere berekening dus niet nodig is.

D1 Metalen

D1.1 Grind

As grind	L ≤ 10 m Kd,vul				L > 10 m Kd,vul			
	<50	50-100	100-500	>500	<50	50-100	100-500	>500
GWL								
BLKS_0160_GWL_1m	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0
BLKS_0160_GWL_1s	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0
BLKS_0400_GWL_1m	1.3	1.1	1.0	1.0	1.0	1.0	1.0	1.0
BLKS_0400_GWL_1s	1.3	1.1	1.0	1.0	1.0	1.0	1.0	1.0
BLKS_0400_GWL_2m	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0
BLKS_0400_GWL_2s	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0
BLKS_0600_GWL_1	1.3	1.1	1.0	1.0	1.0	1.0	1.0	1.0
BLKS_0600_GWL_2	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0
BLKS_0600_GWL_3	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0
BLKS_1000_GWL_1s	1.4	1.1	1.0	1.0	1.0	1.0	1.0	1.0
BLKS_1000_GWL_2s	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0
BLKS_1100_GWL_1m	1.4	1.1	1.0	1.0	1.0	1.0	1.0	1.0
BLKS_1100_GWL_1s	1.4	1.1	1.0	1.0	1.0	1.0	1.0	1.0
BLKS_1100_GWL_2m	1.3	1.1	1.0	1.0	1.0	1.0	1.0	1.0
BLKS_1100_GWL_2s	1.3	1.1	1.0	1.0	1.0	1.0	1.0	1.0
CKS_0200_GWL_1	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0
CKS_0200_GWL_2	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0

CKS_0220_GWL_1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
CKS_0250_GWL_1	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0
CVS_0100_GWL_1	1.3	1.1	1.0	1.0	1.0	1.0	1.0	1.0
CVS_0160_GWL_1	1.3	1.1	1.0	1.0	1.0	1.0	1.0	1.0
CVS_0400_GWL_1	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0
CVS_0600_GWL_1	1.3	1.1	1.0	1.0	1.0	1.0	1.0	1.0
CVS_0600_GWL_2	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0
CVS_0800_GWL_1	1.3	1.1	1.0	1.0	1.0	1.0	1.0	1.0
CVS_0800_GWL_2	1.3	1.1	1.0	1.0	1.0	1.0	1.0	1.0
CVS_0800_GWL_3	1.3	1.1	1.0	1.0	1.0	1.0	1.0	1.0
KPS_0120_GWL_1	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0
KPS_0120_GWL_2	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0
KPS_0160_GWL_1								
KPS_0160_GWL_2								
KPS_0160_GWL_3								
MS_0100_GWL_1	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0
MS_0200_GWL_1	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0
MS_0200_GWL_2	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SS_1000_GWL_1	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0
SS_1000_GWL_2	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0
SS_1300_GWL_1	1.4	1.1	1.0	1.0	1.0	1.0	1.0	1.0
SS_1300_GWL_2	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0
SS_1300_GWL_3	1.3	1.1	1.0	1.0	1.0	1.0	1.0	1.0
SS_1300_GWL_4	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SS_1300_GWL_5	1.3	1.1	1.0	1.0	1.0	1.0	1.0	1.0

Cd grind	L ≤ 10 m Kd,vul				L > 10 m Kd,vul			
	<50	50-100	100-500	>500	<50	50-100	100-500	>500
GWL								
BLKS_0160_GWL_1m								
BLKS_0160_GWL_1s								
BLKS_0400_GWL_1m								
BLKS_0400_GWL_1s								
BLKS_0400_GWL_2m								
BLKS_0400_GWL_2s								
BLKS_0600_GWL_1								
BLKS_0600_GWL_2								
BLKS_0600_GWL_3								

BLKS_1000_GWL_1s								
BLKS_1000_GWL_2s								
BLKS_1100_GWL_1m								
BLKS_1100_GWL_1s								
BLKS_1100_GWL_2m								
BLKS_1100_GWL_2s								
CKS_0200_GWL_1	1.4	1.1	1.0	1.0	1.0	1.0	1.0	1.0
CKS_0200_GWL_2	1.4	1.1	1.0	1.0	1.0	1.0	1.0	1.0
CKS_0220_GWL_1	1.4	1.1	1.0	1.0	1.0	1.0	1.0	1.0
CKS_0250_GWL_1	1.5	1.1	1.0	1.0	1.0	1.0	1.0	1.0
CVS_0100_GWL_1								
CVS_0160_GWL_1								
CVS_0400_GWL_1								
CVS_0600_GWL_1								
CVS_0600_GWL_2								
CVS_0800_GWL_1								
CVS_0800_GWL_2								
CVS_0800_GWL_3								
KPS_0120_GWL_1								
KPS_0120_GWL_2								
KPS_0160_GWL_1								
KPS_0160_GWL_2								
KPS_0160_GWL_3								
MS_0100_GWL_1	1.4	1.1	1.0	1.0	1.0	1.0	1.0	1.0
MS_0200_GWL_1	1.4	1.1	1.0	1.0	1.0	1.0	1.0	1.0
MS_0200_GWL_2	1.4	1.1	1.0	1.0	1.0	1.0	1.0	1.0
SS_1000_GWL_1								
SS_1000_GWL_2								
SS_1300_GWL_1								
SS_1300_GWL_2								
SS_1300_GWL_3								
SS_1300_GWL_4								
SS_1300_GWL_5								

Ni grind	L ≤ 10 m Kd,vul				L > 10 m Kd,vul			
	<50	50-100	100-500	>500	<50	50-100	100-500	>500
GWL								
BLKS_0160_GWL_1m	1.4	1.1	1.0	1.0	1.0	1.0	1.0	1.0

BLKS_0160_GWL_1s	1.4	1.1	1.0	1.0	1.0	1.0	1.0	1.0
BLKS_0400_GWL_1m	1.4	1.1	1.0	1.0	1.0	1.0	1.0	1.0
BLKS_0400_GWL_1s	1.4	1.1	1.0	1.0	1.0	1.0	1.0	1.0
BLKS_0400_GWL_2m	1.4	1.1	1.0	1.0	1.0	1.0	1.0	1.0
BLKS_0400_GWL_2s	1.4	1.1	1.0	1.0	1.0	1.0	1.0	1.0
BLKS_0600_GWL_1	1.4	1.1	1.0	1.0	1.0	1.0	1.0	1.0
BLKS_0600_GWL_2	1.4	1.1	1.0	1.0	1.0	1.0	1.0	1.0
BLKS_0600_GWL_3	1.4	1.1	1.0	1.0	1.0	1.0	1.0	1.0
BLKS_1000_GWL_1s	1.4	1.1	1.0	1.0	1.0	1.0	1.0	1.0
BLKS_1000_GWL_2s	1.3	1.1	1.0	1.0	1.0	1.0	1.0	1.0
BLKS_1100_GWL_1m	1.4	1.1	1.0	1.0	1.0	1.0	1.0	1.0
BLKS_1100_GWL_1s	1.4	1.1	1.0	1.0	1.0	1.0	1.0	1.0
BLKS_1100_GWL_2m	1.4	1.1	1.0	1.0	1.0	1.0	1.0	1.0
BLKS_1100_GWL_2s	1.4	1.1	1.0	1.0	1.0	1.0	1.0	1.0
CKS_0200_GWL_1	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0
CKS_0200_GWL_2	1.3	1.1	1.0	1.0	1.0	1.0	1.0	1.0
CKS_0220_GWL_1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
CKS_0250_GWL_1	1.4	1.1	1.0	1.0	1.0	1.0	1.0	1.0
CVS_0100_GWL_1	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0
CVS_0160_GWL_1	1.3	1.1	1.0	1.0	1.0	1.0	1.0	1.0
CVS_0400_GWL_1	1.4	1.1	1.0	1.0	1.0	1.0	1.0	1.0
CVS_0600_GWL_1	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0
CVS_0600_GWL_2	1.4	1.1	1.0	1.0	1.0	1.0	1.0	1.0
CVS_0800_GWL_1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0
CVS_0800_GWL_2	1.3	1.1	1.0	1.0	1.0	1.0	1.0	1.0
CVS_0800_GWL_3	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0
KPS_0120_GWL_1	1.3	1.1	1.0	1.0	1.0	1.0	1.0	1.0
KPS_0120_GWL_2	1.3	1.1	1.0	1.0	1.0	1.0	1.0	1.0
KPS_0160_GWL_1	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0
KPS_0160_GWL_2	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0
KPS_0160_GWL_3	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0
MS_0100_GWL_1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0
MS_0200_GWL_1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
MS_0200_GWL_2	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0
SS_1000_GWL_1	1.4	1.1	1.0	1.0	1.0	1.0	1.0	1.0
SS_1000_GWL_2	1.4	1.1	1.0	1.0	1.0	1.0	1.0	1.0
SS_1300_GWL_1	1.3	1.1	1.0	1.0	1.0	1.0	1.0	1.0
SS_1300_GWL_2	1.4	1.1	1.0	1.0	1.0	1.0	1.0	1.0
SS_1300_GWL_3	1.4	1.1	1.0	1.0	1.0	1.0	1.0	1.0
SS_1300_GWL_4	1.4	1.1	1.0	1.0	1.0	1.0	1.0	1.0
SS_1300_GWL_5	1.4	1.1	1.0	1.0	1.0	1.0	1.0	1.0

Pb grind	L ≤ 10 m Kd,vul				L > 10 m Kd,vul			
	<50	50-100	100-500	>500	<50	50-100	100-500	>500
GWL								
BLKS_0160_GWL_1m	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0
BLKS_0160_GWL_1s	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0
BLKS_0400_GWL_1m	1.8	1.1	1.0	1.0	1.0	1.0	1.0	1.0
BLKS_0400_GWL_1s	1.8	1.1	1.0	1.0	1.0	1.0	1.0	1.0
BLKS_0400_GWL_2m								
BLKS_0400_GWL_2s								
BLKS_0600_GWL_1	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0
BLKS_0600_GWL_2								
BLKS_0600_GWL_3								
BLKS_1000_GWL_1s	1.8	1.1	1.0	1.0	1.0	1.0	1.0	1.0
BLKS_1000_GWL_2s								
BLKS_1100_GWL_1m	1.8	1.1	1.0	1.0	1.0	1.0	1.0	1.0
BLKS_1100_GWL_1s	1.8	1.1	1.0	1.0	1.0	1.0	1.0	1.0
BLKS_1100_GWL_2m								
BLKS_1100_GWL_2s								
CKS_0200_GWL_1	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0
CKS_0200_GWL_2								
CKS_0220_GWL_1	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0
CKS_0250_GWL_1	1.8	1.1	1.0	1.0	1.0	1.0	1.0	1.0
CVS_0100_GWL_1	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0
CVS_0160_GWL_1	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0
CVS_0400_GWL_1								
CVS_0600_GWL_1	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0
CVS_0600_GWL_2								
CVS_0800_GWL_1	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0
CVS_0800_GWL_2								
CVS_0800_GWL_3	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0
KPS_0120_GWL_1	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0
KPS_0120_GWL_2	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0
KPS_0160_GWL_1	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0
KPS_0160_GWL_2	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0
KPS_0160_GWL_3	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0
MS_0100_GWL_1	1.8	1.1	1.0	1.0	1.0	1.0	1.0	1.0
MS_0200_GWL_1	1.8	1.1	1.0	1.0	1.0	1.0	1.0	1.0

MS_0200_GWL_2	1.3	1.1	1.0	1.0	1.0	1.0	1.0	1.0
SS_1000_GWL_1								
SS_1000_GWL_2								
SS_1300_GWL_1								
SS_1300_GWL_2								
SS_1300_GWL_3								
SS_1300_GWL_4								
SS_1300_GWL_5								

Zn grind	L ≤ 10 m Kd,vul				L > 10 m Kd,vul			
	<50	50-100	100-500	>500	<50	50-100	100-500	>500
GWL								
BLKS_0160_GWL_1m								
BLKS_0160_GWL_1s								
BLKS_0400_GWL_1m								
BLKS_0400_GWL_1s								
BLKS_0400_GWL_2m								
BLKS_0400_GWL_2s								
BLKS_0600_GWL_1								
BLKS_0600_GWL_2								
BLKS_0600_GWL_3								
BLKS_1000_GWL_1s								
BLKS_1000_GWL_2s								
BLKS_1100_GWL_1m								
BLKS_1100_GWL_1s								
BLKS_1100_GWL_2m								
BLKS_1100_GWL_2s								
CKS_0200_GWL_1	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0
CKS_0200_GWL_2	1.3	1.1	1.0	1.0	1.0	1.0	1.0	1.0
CKS_0220_GWL_1	1.3	1.1	1.0	1.0	1.0	1.0	1.0	1.0
CKS_0250_GWL_1	1.3	1.1	1.0	1.0	1.0	1.0	1.0	1.0
CVS_0100_GWL_1								
CVS_0160_GWL_1								
CVS_0400_GWL_1								
CVS_0600_GWL_1								
CVS_0600_GWL_2								
CVS_0800_GWL_1								
CVS_0800_GWL_2								

CVS_0800_GWL_3								
KPS_0120_GWL_1								
KPS_0120_GWL_2								
KPS_0160_GWL_1								
KPS_0160_GWL_2								
KPS_0160_GWL_3								
MS_0100_GWL_1	1.3	1.1	1.0	1.0	1.0	1.0	1.0	1.0
MS_0200_GWL_1	1.3	1.1	1.0	1.0	1.0	1.0	1.0	1.0
MS_0200_GWL_2	1.4	1.1	1.0	1.0	1.0	1.0	1.0	1.0
SS_1000_GWL_1								
SS_1000_GWL_2								
SS_1300_GWL_1								
SS_1300_GWL_2								
SS_1300_GWL_3								
SS_1300_GWL_4								
SS_1300_GWL_5								

D1.2 Zand

As zand	L ≤ 10 m Kd,vul				L > 10 m Kd,vul			
	<50	50-100	100-500	>500	<50	50-100	100-500	>500
GWL								
BLKS_0160_GWL_1m	7.7	4.1	1.4	1.0	1.4	1.1	1.0	1.0
BLKS_0160_GWL_1s	7.7	4.1	1.4	1.0	1.4	1.1	1.0	1.0
BLKS_0400_GWL_1m	12.4	6.1	1.8	1.1	1.7	1.2	1.0	1.0
BLKS_0400_GWL_1s	12.4	6.1	1.8	1.1	1.7	1.2	1.0	1.0
BLKS_0400_GWL_2m	6.9	3.7	1.4	1.0	1.3	1.1	1.0	1.0
BLKS_0400_GWL_2s	6.9	3.7	1.4	1.0	1.3	1.1	1.0	1.0
BLKS_0600_GWL_1	12.7	6.3	1.8	1.1	1.7	1.2	1.0	1.0
BLKS_0600_GWL_2	4.3	2.5	1.2	1.0	1.2	1.0	1.0	1.0
BLKS_0600_GWL_3	4.3	2.5	1.2	1.0	1.2	1.0	1.0	1.0
BLKS_1000_GWL_1s	14.3	7.0	1.9	1.1	1.8	1.3	1.0	1.0
BLKS_1000_GWL_2s	7.7	4.1	1.4	1.0	1.4	1.1	1.0	1.0
BLKS_1100_GWL_1m	15.0	7.3	2.0	1.1	1.9	1.3	1.0	1.0
BLKS_1100_GWL_1s	15.0	7.3	2.0	1.1	1.9	1.3	1.0	1.0
BLKS_1100_GWL_2m	12.7	6.3	1.8	1.1	1.7	1.2	1.0	1.0
BLKS_1100_GWL_2s	12.7	6.3	1.8	1.1	1.7	1.2	1.0	1.0
CKS_0200_GWL_1	6.8	3.7	1.4	1.0	1.3	1.1	1.0	1.0
CKS_0200_GWL_2	9.2	4.7	1.6	1.1	1.5	1.2	1.0	1.0
CKS_0220_GWL_1	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0
CKS_0250_GWL_1	8.2	4.3	1.5	1.0	1.4	1.1	1.0	1.0
CVS_0100_GWL_1	10.4	5.3	1.6	1.1	1.6	1.2	1.0	1.0
CVS_0160_GWL_1	10.1	5.1	1.6	1.1	1.6	1.2	1.0	1.0
CVS_0400_GWL_1	6.9	3.7	1.4	1.0	1.3	1.1	1.0	1.0
CVS_0600_GWL_1	12.7	6.3	1.8	1.1	1.7	1.2	1.0	1.0
CVS_0600_GWL_2	4.3	2.5	1.2	1.0	1.2	1.0	1.0	1.0
CVS_0800_GWL_1	12.7	6.3	1.8	1.1	1.7	1.2	1.0	1.0
CVS_0800_GWL_2	12.7	6.3	1.8	1.1	1.7	1.2	1.0	1.0
CVS_0800_GWL_3	12.7	6.3	1.8	1.1	1.7	1.2	1.0	1.0
KPS_0120_GWL_1	9.2	4.7	1.6	1.1	1.5	1.2	1.0	1.0
KPS_0120_GWL_2	9.2	4.7	1.6	1.1	1.5	1.2	1.0	1.0
KPS_0160_GWL_1								
KPS_0160_GWL_2								
KPS_0160_GWL_3								
MS_0100_GWL_1	6.8	3.7	1.4	1.0	1.3	1.1	1.0	1.0

MS_0200_GWL_1	9.2	4.7	1.6	1.1	1.5	1.2	1.0	1.0
MS_0200_GWL_2	6.8	3.7	1.4	1.0	1.3	1.1	1.0	1.0
SS_1000_GWL_1	9.2	4.7	1.6	1.1	1.5	1.2	1.0	1.0
SS_1000_GWL_2	9.2	4.7	1.6	1.1	1.5	1.2	1.0	1.0
SS_1300_GWL_1	15.9	7.6	2.0	1.1	1.9	1.3	1.0	1.0
SS_1300_GWL_2	7.9	4.2	1.5	1.0	1.4	1.1	1.0	1.0
SS_1300_GWL_3	11.3	5.7	1.7	1.1	1.6	1.2	1.0	1.0
SS_1300_GWL_4	4.1	2.4	1.2	1.0	1.1	1.0	1.0	1.0
SS_1300_GWL_5	11.3	5.7	1.7	1.1	1.6	1.2	1.0	1.0

Cd zand	L ≤ 10 m Kd,vul				L > 10 m Kd,vul			
	<50	50-100	100-500	>500	<50	50-100	100-500	>500
GWL								
BLKS_0160_GWL_1m								
BLKS_0160_GWL_1s								
BLKS_0400_GWL_1m								
BLKS_0400_GWL_1s								
BLKS_0400_GWL_2m								
BLKS_0400_GWL_2s								
BLKS_0600_GWL_1								
BLKS_0600_GWL_2								
BLKS_0600_GWL_3								
BLKS_1000_GWL_1s								
BLKS_1000_GWL_2s								
BLKS_1100_GWL_1m								
BLKS_1100_GWL_1s								
BLKS_1100_GWL_2m								
BLKS_1100_GWL_2s								
CKS_0200_GWL_1	7.6	4.4	1.4	1.0	1.3	1.1	1.0	1.0
CKS_0200_GWL_2	8.5	4.9	1.5	1.0	1.4	1.1	1.0	1.0
CKS_0220_GWL_1	8.5	4.9	1.5	1.0	1.4	1.1	1.0	1.0
CKS_0250_GWL_1	9.3	5.3	1.5	1.0	1.4	1.1	1.0	1.0
CVS_0100_GWL_1								
CVS_0160_GWL_1								
CVS_0400_GWL_1								
CVS_0600_GWL_1								
CVS_0600_GWL_2								
CVS_0800_GWL_1								

CVS_0800_GWL_2								
CVS_0800_GWL_3								
KPS_0120_GWL_1								
KPS_0120_GWL_2								
KPS_0160_GWL_1								
KPS_0160_GWL_2								
KPS_0160_GWL_3								
MS_0100_GWL_1	8.5	4.9	1.5	1.0	1.4	1.1	1.0	1.0
MS_0200_GWL_1	9.0	5.2	1.5	1.0	1.4	1.1	1.0	1.0
MS_0200_GWL_2	8.5	4.8	1.5	1.0	1.4	1.1	1.0	1.0
SS_1000_GWL_1								
SS_1000_GWL_2								
SS_1300_GWL_1								
SS_1300_GWL_2								
SS_1300_GWL_3								
SS_1300_GWL_4								
SS_1300_GWL_5								

Ni zand	L ≤ 10 m Kd,vul				L > 10 m Kd,vul			
	<50	50-100	100-500	>500	<50	50-100	100-500	>500
GWL								
BLKS_0160_GWL_1m	18.3	8.6	2.3	1.2	2.2	1.4	1.0	1.0
BLKS_0160_GWL_1s	18.3	8.6	2.3	1.2	2.2	1.4	1.0	1.0
BLKS_0400_GWL_1m	17.2	8.1	2.2	1.1	2.1	1.4	1.0	1.0
BLKS_0400_GWL_1s	17.2	8.1	2.2	1.1	2.1	1.4	1.0	1.0
BLKS_0400_GWL_2m	18.7	8.8	2.3	1.2	2.3	1.4	1.0	1.0
BLKS_0400_GWL_2s	18.7	8.8	2.3	1.2	2.3	1.4	1.0	1.0
BLKS_0600_GWL_1	18.7	8.8	2.3	1.2	2.3	1.4	1.0	1.0
BLKS_0600_GWL_2	19.4	9.0	2.4	1.2	2.3	1.5	1.0	1.0
BLKS_0600_GWL_3	19.4	9.0	2.4	1.2	2.3	1.5	1.0	1.0
BLKS_1000_GWL_1s	19.4	9.0	2.4	1.2	2.3	1.5	1.0	1.0
BLKS_1000_GWL_2s	17.0	8.1	2.2	1.1	2.1	1.4	1.0	1.0
BLKS_1100_GWL_1m	17.2	8.1	2.2	1.1	2.1	1.4	1.0	1.0
BLKS_1100_GWL_1s	17.2	8.1	2.2	1.1	2.1	1.4	1.0	1.0
BLKS_1100_GWL_2m	19.4	9.0	2.4	1.2	2.3	1.5	1.0	1.0
BLKS_1100_GWL_2s	19.4	9.0	2.4	1.2	2.3	1.5	1.0	1.0
CKS_0200_GWL_1	12.6	6.2	1.9	1.1	1.8	1.3	1.0	1.0
CKS_0200_GWL_2	14.6	7.1	2.0	1.1	1.9	1.3	1.0	1.0

CKS_0220_GWL_1	1.3	1.1	1.0	1.0	1.0	1.0	1.0	1.0
CKS_0250_GWL_1	17.6	8.3	2.2	1.2	2.2	1.4	1.0	1.0
CVS_0100_GWL_1	10.2	5.2	1.7	1.1	1.6	1.2	1.0	1.0
CVS_0160_GWL_1	16.2	7.7	2.1	1.1	2.1	1.4	1.0	1.0
CVS_0400_GWL_1	18.7	8.8	2.3	1.2	2.3	1.4	1.0	1.0
CVS_0600_GWL_1	1.0	5.6	1.7	1.1	1.7	1.2	1.0	1.0
CVS_0600_GWL_2	19.4	9.0	2.4	1.2	2.3	1.5	1.0	1.0
CVS_0800_GWL_1	6.2	3.4	1.3	1.0	1.3	1.1	1.0	1.0
CVS_0800_GWL_2	16.2	7.7	2.1	1.1	2.1	1.4	1.0	1.0
CVS_0800_GWL_3	1.0	5.6	1.7	1.1	1.7	1.2	1.0	1.0
KPS_0120_GWL_1	17.0	8.1	2.2	1.1	2.1	1.4	1.0	1.0
KPS_0120_GWL_2	17.0	8.1	2.2	1.1	2.1	1.4	1.0	1.0
KPS_0160_GWL_1	8.8	4.6	1.5	1.1	1.5	1.2	1.0	1.0
KPS_0160_GWL_2	8.8	4.6	1.5	1.1	1.5	1.2	1.0	1.0
KPS_0160_GWL_3	8.8	4.6	1.5	1.1	1.5	1.2	1.0	1.0
MS_0100_GWL_1	5.4	3.0	1.3	1.0	1.2	1.1	1.0	1.0
MS_0200_GWL_1	1.3	1.1	1.0	1.0	1.0	1.0	1.0	1.0
MS_0200_GWL_2	11.4	5.7	1.8	1.1	1.7	1.2	1.0	1.0
SS_1000_GWL_1	19.4	9.0	2.4	1.2	2.3	1.5	1.0	1.0
SS_1000_GWL_2	19.4	9.0	2.4	1.2	2.3	1.5	1.0	1.0
SS_1300_GWL_1	16.6	7.9	2.2	1.1	2.1	1.4	1.0	1.0
SS_1300_GWL_2	19.4	9.0	2.4	1.2	2.3	1.5	1.0	1.0
SS_1300_GWL_3	19.4	9.0	2.4	1.2	2.3	1.5	1.0	1.0
SS_1300_GWL_4	19.4	9.0	2.4	1.2	2.3	1.5	1.0	1.0
SS_1300_GWL_5	19.4	9.0	2.4	1.2	2.3	1.5	1.0	1.0

Pb zand	L ≤ 10 m Kd,vul				L > 10 m Kd,vul			
	<50	50-100	100-500	>500	<50	50-100	100-500	>500
GWL								
BLKS_0160_GWL_1m	>100	>100	35	3.8	58	33	7.3	1.2
BLKS_0160_GWL_1s	>100	>100	35	3.8	58	33	7.3	1.2
BLKS_0400_GWL_1m	>100	>100	35	3.8	58	33	7.3	1.2
BLKS_0400_GWL_1s	>100	>100	35	3.8	58	33	7.3	1.2
BLKS_0400_GWL_2m								
BLKS_0400_GWL_2s								
BLKS_0600_GWL_1	>100	>100	35	3.8	58	33	7.3	1.2
BLKS_0600_GWL_2								
BLKS_0600_GWL_3								

BLKS_1000_GWL_1s	>100	>100	35	3.8	58	33	7.3	1.2
BLKS_1000_GWL_2s								
BLKS_1100_GWL_1m	>100	>100	35	3.8	58	33	7.3	1.2
BLKS_1100_GWL_1s	>100	>100	35	3.8	58	33	7.3	1.2
BLKS_1100_GWL_2m								
BLKS_1100_GWL_2s								
CKS_0200_GWL_1	>100	>100	35	3.8	58	33	7.3	1.2
CKS_0200_GWL_2								
CKS_0220_GWL_1	>100	>100	35	3.8	58	33	7.3	1.2
CKS_0250_GWL_1	>100	>100	35	3.8	58	33	7.3	1.2
CVS_0100_GWL_1	>100	>100	35	3.8	58	33	7.3	1.2
CVS_0160_GWL_1	>100	>100	35	3.8	58	33	7.3	1.2
CVS_0400_GWL_1								
CVS_0600_GWL_1	>100	>100	35	3.8	58	33	7.3	1.2
CVS_0600_GWL_2								
CVS_0800_GWL_1	>100	>100	35	3.8	58	33	7.3	1.2
CVS_0800_GWL_2								
CVS_0800_GWL_3	>100	>100	35	3.8	58	33	7.3	1.2
KPS_0120_GWL_1	>100	>100	35	3.8	58	33	7.3	1.2
KPS_0120_GWL_2	>100	>100	35	3.8	58	33	7.3	1.2
KPS_0160_GWL_1	>100	>100	35	3.8	58	33	7.3	1.2
KPS_0160_GWL_2	>100	>100	35	3.8	58	33	7.3	1.2
KPS_0160_GWL_3	>100	>100	35	3.8	58	33	7.3	1.2
MS_0100_GWL_1	>100	>100	35	3.8	58	33	7.3	1.2
MS_0200_GWL_1	>100	>100	35	3.8	58	33	7.3	1.2
MS_0200_GWL_2	>100	>100	35	3.8	58	33	7.3	1.2
SS_1000_GWL_1								
SS_1000_GWL_2								
SS_1300_GWL_1								
SS_1300_GWL_2								
SS_1300_GWL_3								
SS_1300_GWL_4								
SS_1300_GWL_5								

Zn zand	L ≤ 10 m Kd,vul				L > 10 m Kd,vul			
	<50	50-100	100-500	>500	<50	50-100	100-500	>500
GWL								
BLKS_0160_GWL_1m								

BLKS_0160_GWL_1s								
BLKS_0400_GWL_1m								
BLKS_0400_GWL_1s								
BLKS_0400_GWL_2m								
BLKS_0400_GWL_2s								
BLKS_0600_GWL_1								
BLKS_0600_GWL_2								
BLKS_0600_GWL_3								
BLKS_1000_GWL_1s								
BLKS_1000_GWL_2s								
BLKS_1100_GWL_1m								
BLKS_1100_GWL_1s								
BLKS_1100_GWL_2m								
BLKS_1100_GWL_2s								
CKS_0200_GWL_1	4.8	2.8	1.2	1.0	1.2	1.0	1.0	1.0
CKS_0200_GWL_2	5.3	3.1	1.2	1.0	1.2	1.0	1.0	1.0
CKS_0220_GWL_1	5.1	3.0	1.2	1.0	1.2	1.0	1.0	1.0
CKS_0250_GWL_1	6.3	3.6	1.3	1.0	1.2	1.1	1.0	1.0
CVS_0100_GWL_1								
CVS_0160_GWL_1								
CVS_0400_GWL_1								
CVS_0600_GWL_1								
CVS_0600_GWL_2								
CVS_0800_GWL_1								
CVS_0800_GWL_2								
CVS_0800_GWL_3								
KPS_0120_GWL_1								
KPS_0120_GWL_2								
KPS_0160_GWL_1								
KPS_0160_GWL_2								
KPS_0160_GWL_3								
MS_0100_GWL_1	6.0	3.4	1.3	1.0	1.2	1.0	1.0	1.0
MS_0200_GWL_1	5.1	3.0	1.2	1.0	1.2	1.0	1.0	1.0
MS_0200_GWL_2	6.5	3.7	1.3	1.0	1.2	1.1	1.0	1.0
SS_1000_GWL_1								
SS_1000_GWL_2								
SS_1300_GWL_1								
SS_1300_GWL_2								
SS_1300_GWL_3								
SS_1300_GWL_4								
SS_1300_GWL_5								

D1.3 Leem

As leem	L ≤ 10 m				L > 10 m			
	Kd,vul				Kd,vul			
GWL	<50	50-100	100-500	>500	<50	50-100	100-500	>500
BLKS_0160_GWL_1m	17.0	9.1	2.4	1.2	2.3	1.5	1.0	1.0
BLKS_0160_GWL_1s	17.0	9.1	2.4	1.2	2.3	1.5	1.0	1.0
BLKS_0400_GWL_1m	27.8	14.7	3.4	1.4	3.3	1.9	1.0	1.0
BLKS_0400_GWL_1s	27.8	14.7	3.4	1.4	3.3	1.9	1.0	1.0
BLKS_0400_GWL_2m	15.2	8.2	2.2	1.2	2.1	1.4	1.0	1.0
BLKS_0400_GWL_2s	15.2	8.2	2.2	1.2	2.1	1.4	1.0	1.0
BLKS_0600_GWL_1	28.7	15.1	3.4	1.4	3.4	2.0	1.0	1.0
BLKS_0600_GWL_2	9.0	5.0	1.6	1.1	1.6	1.2	1.0	1.0
BLKS_0600_GWL_3	9.0	5.0	1.6	1.1	1.6	1.2	1.0	1.0
BLKS_1000_GWL_1s	32.4	17.0	3.8	1.4	3.7	2.1	1.1	1.0
BLKS_1000_GWL_2s	17.0	9.1	2.4	1.2	2.3	1.5	1.0	1.0
BLKS_1100_GWL_1m	34.1	17.9	3.9	1.5	3.8	2.2	1.1	1.0
BLKS_1100_GWL_1s	34.1	17.9	3.9	1.5	3.8	2.2	1.1	1.0
BLKS_1100_GWL_2m	28.7	15.1	3.4	1.4	3.4	2.0	1.0	1.0
BLKS_1100_GWL_2s	28.7	15.1	3.4	1.4	3.4	2.0	1.0	1.0
CKS_0200_GWL_1	14.7	7.9	2.2	1.2	2.1	1.4	1.0	1.0
CKS_0200_GWL_2	20.3	10.8	2.7	1.3	2.6	1.6	1.0	1.0
CKS_0220_GWL_1	1.8	1.3	1.0	1.0	1.0	1.0	1.0	1.0
CKS_0250_GWL_1	18.1	9.7	2.5	1.2	2.4	1.6	1.0	1.0
CVS_0100_GWL_1	23.3	12.4	3.0	1.3	2.9	1.8	1.0	1.0
CVS_0160_GWL_1	22.5	11.9	2.9	1.3	2.8	1.7	1.0	1.0
CVS_0400_GWL_1	15.2	8.2	2.2	1.2	2.1	1.4	1.0	1.0
CVS_0600_GWL_1	28.7	15.1	3.4	1.4	3.4	2.0	1.0	1.0
CVS_0600_GWL_2	9.0	5.0	1.6	1.1	1.6	1.2	1.0	1.0
CVS_0800_GWL_1	28.7	15.1	3.4	1.4	3.4	2.0	1.0	1.0
CVS_0800_GWL_2	28.7	15.1	3.4	1.4	3.4	2.0	1.0	1.0
CVS_0800_GWL_3	28.7	15.1	3.4	1.4	3.4	2.0	1.0	1.0
KPS_0120_GWL_1	20.3	10.8	2.7	1.3	2.6	1.6	1.0	1.0
KPS_0120_GWL_2	20.3	10.8	2.7	1.3	2.6	1.6	1.0	1.0
KPS_0160_GWL_1								
KPS_0160_GWL_2								
KPS_0160_GWL_3								
MS_0100_GWL_1	14.7	7.9	2.2	1.2	2.1	1.4	1.0	1.0

MS_0200_GWL_1	20.3	10.8	2.7	1.3	2.6	1.6	1.0	1.0
MS_0200_GWL_2	14.7	7.9	2.2	1.2	2.1	1.4	1.0	1.0
SS_1000_GWL_1	20.3	10.8	2.7	1.3	2.6	1.6	1.0	1.0
SS_1000_GWL_2	20.3	10.8	2.7	1.3	2.6	1.6	1.0	1.0
SS_1300_GWL_1	36.2	18.9	4.1	1.5	4.0	2.2	1.1	1.0
SS_1300_GWL_2	17.5	9.4	2.4	1.2	2.3	1.5	1.0	1.0
SS_1300_GWL_3	25.5	13.4	3.2	1.3	3.1	1.8	1.0	1.0
SS_1300_GWL_4	8.6	4.8	1.6	1.1	1.5	1.2	1.0	1.0
SS_1300_GWL_5	25.5	13.4	3.2	1.3	3.1	1.8	1.0	1.0

Cd leem	L ≤ 10 m Kd,vul				L > 10 m Kd,vul			
	<50	50-100	100-500	>500	<50	50-100	100-500	>500
GWL								
BLKS_0160_GWL_1m								
BLKS_0160_GWL_1s								
BLKS_0400_GWL_1m								
BLKS_0400_GWL_1s								
BLKS_0400_GWL_2m								
BLKS_0400_GWL_2s								
BLKS_0600_GWL_1								
BLKS_0600_GWL_2								
BLKS_0600_GWL_3								
BLKS_1000_GWL_1s								
BLKS_1000_GWL_2s								
BLKS_1100_GWL_1m								
BLKS_1100_GWL_1s								
BLKS_1100_GWL_2m								
BLKS_1100_GWL_2s								
CKS_0200_GWL_1	13.5	7.0	1.9	1.1	1.8	1.3	1.0	1.0
CKS_0200_GWL_2	15.3	7.8	2.0	1.1	1.9	1.3	1.0	1.0
CKS_0220_GWL_1	15.3	7.8	2.0	1.1	1.9	1.3	1.0	1.0
CKS_0250_GWL_1	17.0	8.6	2.1	1.1	2.0	1.3	1.0	1.0
CVS_0100_GWL_1								
CVS_0160_GWL_1								
CVS_0400_GWL_1								
CVS_0600_GWL_1								
CVS_0600_GWL_2								
CVS_0800_GWL_1								

CVS_0800_GWL_2								
CVS_0800_GWL_3								
KPS_0120_GWL_1								
KPS_0120_GWL_2								
KPS_0160_GWL_1								
KPS_0160_GWL_2								
KPS_0160_GWL_3								
MS_0100_GWL_1	15.3	7.8	2.0	1.1	1.9	1.3	1.0	1.0
MS_0200_GWL_1	16.4	8.3	2.1	1.1	2.0	1.3	1.0	1.0
MS_0200_GWL_2	15.2	7.7	2.0	1.1	1.9	1.3	1.0	1.0
SS_1000_GWL_1								
SS_1000_GWL_2								
SS_1300_GWL_1								
SS_1300_GWL_2								
SS_1300_GWL_3								
SS_1300_GWL_4								
SS_1300_GWL_5								

Ni leem	L ≤ 10 m Kd,vul				L > 10 m Kd,vul			
	<50	50-100	100-500	>500	<50	50-100	100-500	>500
GWL								
BLKS_0160_GWL_1m	24.2	11.9	2.9	1.3	2.8	1.7	1.0	1.0
BLKS_0160_GWL_1s	24.2	11.9	2.9	1.3	2.8	1.7	1.0	1.0
BLKS_0400_GWL_1m	22.7	11.3	2.7	1.2	2.7	1.6	1.0	1.0
BLKS_0400_GWL_1s	22.7	11.3	2.7	1.2	2.7	1.6	1.0	1.0
BLKS_0400_GWL_2m	24.8	12.2	2.9	1.3	2.8	1.7	1.0	1.0
BLKS_0400_GWL_2s	24.8	12.2	2.9	1.3	2.8	1.7	1.0	1.0
BLKS_0600_GWL_1	24.8	12.2	2.9	1.3	2.8	1.7	1.0	1.0
BLKS_0600_GWL_2	25.7	12.6	3.0	1.3	2.9	1.7	1.0	1.0
BLKS_0600_GWL_3	25.7	12.6	3.0	1.3	2.9	1.7	1.0	1.0
BLKS_1000_GWL_1s	25.7	12.6	3.0	1.3	2.9	1.7	1.0	1.0
BLKS_1000_GWL_2s	22.4	11.1	2.7	1.2	2.6	1.6	1.0	1.0
BLKS_1100_GWL_1m	22.7	11.3	2.7	1.2	2.7	1.6	1.0	1.0
BLKS_1100_GWL_1s	22.7	11.3	2.7	1.2	2.7	1.6	1.0	1.0
BLKS_1100_GWL_2m	25.7	12.6	3.0	1.3	2.9	1.7	1.0	1.0
BLKS_1100_GWL_2s	25.7	12.6	3.0	1.3	2.9	1.7	1.0	1.0
CKS_0200_GWL_1	16.6	8.4	2.2	1.2	2.2	1.4	1.0	1.0
CKS_0200_GWL_2	19.3	9.7	2.5	1.2	2.4	1.5	1.0	1.0

CKS_0220_GWL_1	1.5	1.2	1.0	1.0	1.0	1.0	1.0	1.0
CKS_0250_GWL_1	23.3	11.5	2.8	1.3	2.7	1.6	1.0	1.0
CVS_0100_GWL_1	13.4	6.9	2.0	1.1	1.9	1.3	1.0	1.0
CVS_0160_GWL_1	21.4	10.7	2.6	1.2	2.6	1.6	1.0	1.0
CVS_0400_GWL_1	24.8	12.2	2.9	1.3	2.8	1.7	1.0	1.0
CVS_0600_GWL_1	14.7	7.5	2.1	1.2	2.0	1.4	1.0	1.0
CVS_0600_GWL_2	25.7	12.6	3.0	1.3	2.9	1.7	1.0	1.0
CVS_0800_GWL_1	8.1	4.4	1.5	1.1	1.4	1.2	1.0	1.0
CVS_0800_GWL_2	21.4	10.7	2.6	1.2	2.6	1.6	1.0	1.0
CVS_0800_GWL_3	14.7	7.5	2.1	1.2	2.0	1.4	1.0	1.0
KPS_0120_GWL_1	22.4	11.1	2.7	1.2	2.6	1.6	1.0	1.0
KPS_0120_GWL_2	22.4	11.1	2.7	1.2	2.6	1.6	1.0	1.0
KPS_0160_GWL_1	11.5	6.0	1.8	1.1	1.7	1.3	1.0	1.0
KPS_0160_GWL_2	11.5	6.0	1.8	1.1	1.7	1.3	1.0	1.0
KPS_0160_GWL_3	11.5	6.0	1.8	1.1	1.7	1.3	1.0	1.0
MS_0100_GWL_1	6.9	3.8	1.4	1.0	1.4	1.1	1.0	1.0
MS_0200_GWL_1	1.5	1.1	1.0	1.0	1.0	1.0	1.0	1.0
MS_0200_GWL_2	14.9	7.7	2.1	1.2	2.0	1.4	1.0	1.0
SS_1000_GWL_1	25.7	12.6	3.0	1.3	2.9	1.7	1.0	1.0
SS_1000_GWL_2	25.7	12.6	3.0	1.3	2.9	1.7	1.0	1.0
SS_1300_GWL_1	21.9	10.9	2.7	1.2	2.6	1.6	1.0	1.0
SS_1300_GWL_2	25.7	12.6	3.0	1.3	2.9	1.7	1.0	1.0
SS_1300_GWL_3	25.7	12.6	3.0	1.3	2.9	1.7	1.0	1.0
SS_1300_GWL_4	25.7	12.6	3.0	1.3	2.9	1.7	1.0	1.0
SS_1300_GWL_5	25.7	12.6	3.0	1.3	2.9	1.7	1.0	1.0

Pb leem	L ≤ 10 m Kd,vul				L > 10 m Kd,vul			
	<50	50-100	100-500	>500	<50	50-100	100-500	>500
GWL								
BLKS_0160_GWL_1m	>100	>100	41	4.3	>100	56	12	1.6
BLKS_0160_GWL_1s	>100	>100	41	4.3	>100	56	12	1.6
BLKS_0400_GWL_1m	>100	>100	41	4.3	>100	56	12	1.6
BLKS_0400_GWL_1s	>100	>100	41	4.3	>100	56	12	1.6
BLKS_0400_GWL_2m								
BLKS_0400_GWL_2s								
BLKS_0600_GWL_1	>100	>100	41	4.3	>100	56	12	1.6
BLKS_0600_GWL_2								
BLKS_0600_GWL_3								

BLKS_1000_GWL_1s	>100	>100	41	4.3	>100	56	12	1.6
BLKS_1000_GWL_2s								
BLKS_1100_GWL_1m	>100	>100	41	4.3	>100	56	12	1.6
BLKS_1100_GWL_1s	>100	>100	41	4.3	>100	56	12	1.6
BLKS_1100_GWL_2m								
BLKS_1100_GWL_2s								
CKS_0200_GWL_1	>100	>100	41	4.3	>100	56	12	1.6
CKS_0200_GWL_2								
CKS_0220_GWL_1	>100	>100	41	4.3	>100	56	12	1.6
CKS_0250_GWL_1	>100	>100	41	4.3	>100	56	12	1.6
CVS_0100_GWL_1	>100	>100	41	4.3	>100	56	12	1.6
CVS_0160_GWL_1	>100	>100	41	4.3	>100	56	12	1.6
CVS_0400_GWL_1								
CVS_0600_GWL_1	>100	>100	41	4.3	>100	56	12	1.6
CVS_0600_GWL_2								
CVS_0800_GWL_1	>100	>100	41	4.3	>100	56	12	1.6
CVS_0800_GWL_2								
CVS_0800_GWL_3	>100	>100	41	4.3	>100	56	12	1.6
KPS_0120_GWL_1	>100	>100	41	4.3	>100	56	12	1.6
KPS_0120_GWL_2	>100	>100	41	4.3	>100	56	12	1.6
KPS_0160_GWL_1	>100	>100	41	4.3	>100	56	12	1.6
KPS_0160_GWL_2	>100	>100	41	4.3	>100	56	12	1.6
KPS_0160_GWL_3	>100	>100	41	4.3	>100	56	12	1.6
MS_0100_GWL_1	>100	>100	41	4.3	>100	56	12	1.6
MS_0200_GWL_1	>100	>100	41	4.3	>100	56	12	1.6
MS_0200_GWL_2	>100	>100	41	4.3	>100	56	12	1.6
SS_1000_GWL_1								
SS_1000_GWL_2								
SS_1300_GWL_1								
SS_1300_GWL_2								
SS_1300_GWL_3								
SS_1300_GWL_4								
SS_1300_GWL_5								

Zn leem	L ≤ 10 m Kd,vul				L > 10 m Kd,vul			
	<50	50-100	100-500	>500	<50	50-100	100-500	>500
GWL								
BLKS_0160_GWL_1m								

BLKS_0160_GWL_1s								
BLKS_0400_GWL_1m								
BLKS_0400_GWL_1s								
BLKS_0400_GWL_2m								
BLKS_0400_GWL_2s								
BLKS_0600_GWL_1								
BLKS_0600_GWL_2								
BLKS_0600_GWL_3								
BLKS_1000_GWL_1s								
BLKS_1000_GWL_2s								
BLKS_1100_GWL_1m								
BLKS_1100_GWL_1s								
BLKS_1100_GWL_2m								
BLKS_1100_GWL_2s								
CKS_0200_GWL_1	9.3	4.9	1.6	1.1	1.5	1.2	1.0	1.0
CKS_0200_GWL_2	10.6	5.6	1.7	1.1	1.6	1.2	1.0	1.0
CKS_0220_GWL_1	10.1	5.3	1.6	1.1	1.6	1.2	1.0	1.0
CKS_0250_GWL_1	12.9	6.7	1.8	1.1	1.8	1.2	1.0	1.0
CVS_0100_GWL_1								
CVS_0160_GWL_1								
CVS_0400_GWL_1								
CVS_0600_GWL_1								
CVS_0600_GWL_2								
CVS_0800_GWL_1								
CVS_0800_GWL_2								
CVS_0800_GWL_3								
KPS_0120_GWL_1								
KPS_0120_GWL_2								
KPS_0160_GWL_1								
KPS_0160_GWL_2								
KPS_0160_GWL_3								
MS_0100_GWL_1	12.0	6.2	1.8	1.1	1.7	1.2	1.0	1.0
MS_0200_GWL_1	10.1	5.3	1.6	1.1	1.6	1.2	1.0	1.0
MS_0200_GWL_2	13.2	6.8	1.9	1.1	1.8	1.3	1.0	1.0
SS_1000_GWL_1								
SS_1000_GWL_2								
SS_1300_GWL_1								
SS_1300_GWL_2								
SS_1300_GWL_3								
SS_1300_GWL_4								
SS_1300_GWL_5								

D1.4 Klei

As klei	L ≤ 10 m Kd,vul				L > 10 m Kd,vul			
	<50	50-100	100-500	>500	<50	50-100	100-500	>500
GWL								
BLKS_0160_GWL_1m	37.4	20.4	4.4	1.7	4.5	2.6	1.2	1.0
BLKS_0160_GWL_1s	37.4	20.4	4.4	1.7	4.5	2.6	1.2	1.0
BLKS_0400_GWL_1m	62.0	33.5	6.3	2.3	6.8	3.8	1.3	1.0
BLKS_0400_GWL_1s	62.0	33.5	6.3	2.3	6.8	3.8	1.3	1.0
BLKS_0400_GWL_2m	33.4	18.2	4.0	1.6	4.1	2.4	1.1	1.0
BLKS_0400_GWL_2s	33.4	18.2	4.0	1.6	4.1	2.4	1.1	1.0
BLKS_0600_GWL_1	64.0	34.6	6.5	2.3	7.0	3.9	1.3	1.0
BLKS_0600_GWL_2	19.4	10.7	2.7	1.3	2.7	1.7	1.1	1.0
BLKS_0600_GWL_3	19.4	10.7	2.7	1.3	2.7	1.7	1.1	1.0
BLKS_1000_GWL_1s	72.2	39.0	7.1	2.5	7.7	4.3	1.3	1.0
BLKS_1000_GWL_2s	37.4	20.4	4.4	1.7	4.5	2.6	1.2	1.0
BLKS_1100_GWL_1m	76.3	41.1	7.4	2.6	8.1	4.5	1.4	1.0
BLKS_1100_GWL_1s	76.3	41.1	7.4	2.6	8.1	4.5	1.4	1.0
BLKS_1100_GWL_2m	64.0	34.6	6.5	2.3	7.0	3.9	1.3	1.0
BLKS_1100_GWL_2s	64.0	34.6	6.5	2.3	7.0	3.9	1.3	1.0
CKS_0200_GWL_1	32.4	17.7	3.9	1.6	4.0	2.4	1.1	1.0
CKS_0200_GWL_2	45.1	24.4	5.0	1.9	5.2	3.0	1.2	1.0
CKS_0220_GWL_1	3.3	2.1	1.1	1.0	1.1	1.0	1.0	1.0
CKS_0250_GWL_1	40.0	21.7	4.6	1.8	4.7	2.7	1.2	1.0
CVS_0100_GWL_1	51.8	28.1	5.6	2.0	5.9	3.3	1.2	1.0
CVS_0160_GWL_1	49.8	27.0	5.4	2.0	5.7	3.2	1.2	1.0
CVS_0400_GWL_1	33.4	18.2	4.0	1.6	4.1	2.4	1.1	1.0
CVS_0600_GWL_1	64.0	34.6	6.5	2.3	7.0	3.9	1.3	1.0
CVS_0600_GWL_2	19.4	10.7	2.7	1.3	2.7	1.7	1.1	1.0
CVS_0800_GWL_1	64.0	34.6	6.5	2.3	7.0	3.9	1.3	1.0
CVS_0800_GWL_2	64.0	34.6	6.5	2.3	7.0	3.9	1.3	1.0
CVS_0800_GWL_3	64.0	34.6	6.5	2.3	7.0	3.9	1.3	1.0
KPS_0120_GWL_1	45.1	24.4	5.0	1.9	5.2	3.0	1.2	1.0
KPS_0120_GWL_2	45.1	24.4	5.0	1.9	5.2	3.0	1.2	1.0
KPS_0160_GWL_1								
KPS_0160_GWL_2								
KPS_0160_GWL_3								

MS_0100_GWL_1	32.4	17.7	3.9	1.6	4.0	2.4	1.1	1.0
MS_0200_GWL_1	45.1	24.4	5.0	1.9	5.2	3.0	1.2	1.0
MS_0200_GWL_2	32.4	17.7	3.9	1.6	4.0	2.4	1.1	1.0
SS_1000_GWL_1	45.1	24.4	5.0	1.9	5.2	3.0	1.2	1.0
SS_1000_GWL_2	45.1	24.4	5.0	1.9	5.2	3.0	1.2	1.0
SS_1300_GWL_1	81.0	43.7	7.7	2.7	8.5	4.7	1.4	1.0
SS_1300_GWL_2	38.6	21.0	4.5	1.7	4.6	2.7	1.2	1.0
SS_1300_GWL_3	56.6	30.6	5.9	2.1	6.3	3.6	1.3	1.0
SS_1300_GWL_4	18.6	10.3	2.6	1.3	2.6	1.7	1.1	1.0
SS_1300_GWL_5	56.6	30.6	5.9	2.1	6.3	3.6	1.3	1.0

Cd klei	L ≤ 10 m Kd,vul				L > 10 m Kd,vul			
	<50	50-100	100-500	>500	<50	50-100	100-500	>500
GWL								
BLKS_0160_GWL_1m								
BLKS_0160_GWL_1s								
BLKS_0400_GWL_1m								
BLKS_0400_GWL_1s								
BLKS_0400_GWL_2m								
BLKS_0400_GWL_2s								
BLKS_0600_GWL_1								
BLKS_0600_GWL_2								
BLKS_0600_GWL_3								
BLKS_1000_GWL_1s								
BLKS_1000_GWL_2s								
BLKS_1100_GWL_1m								
BLKS_1100_GWL_1s								
BLKS_1100_GWL_2m								
BLKS_1100_GWL_2s								
CKS_0200_GWL_1	22.8	11.6	2.7	1.2	2.7	1.6	1.0	1.0
CKS_0200_GWL_2	25.9	13.1	3.0	1.3	2.9	1.7	1.0	1.0
CKS_0220_GWL_1	25.9	13.1	3.0	1.3	2.9	1.7	1.0	1.0
CKS_0250_GWL_1	28.9	14.5	3.2	1.3	3.1	1.8	1.0	1.0
CVS_0100_GWL_1								
CVS_0160_GWL_1								
CVS_0400_GWL_1								
CVS_0600_GWL_1								
CVS_0600_GWL_2								

CVS_0800_GWL_1								
CVS_0800_GWL_2								
CVS_0800_GWL_3								
KPS_0120_GWL_1								
KPS_0120_GWL_2								
KPS_0160_GWL_1								
KPS_0160_GWL_2								
KPS_0160_GWL_3								
MS_0100_GWL_1	25.9	13.1	3.0	1.3	2.9	1.7	1.0	1.0
MS_0200_GWL_1	27.8	14.0	3.1	1.3	3.0	1.8	1.0	1.0
MS_0200_GWL_2	25.8	13.0	3.0	1.3	2.9	1.7	1.0	1.0
SS_1000_GWL_1								
SS_1000_GWL_2								
SS_1300_GWL_1								
SS_1300_GWL_2								
SS_1300_GWL_3								
SS_1300_GWL_4								
SS_1300_GWL_5								

Ni klei	L ≤ 10 m Kd,vul				L > 10 m Kd,vul			
	<50	50-100	100-500	>500	<50	50-100	100-500	>500
GWL								
BLKS_0160_GWL_1m	31.0	16.3	3.6	1.4	3.5	2.0	1.0	1.0
BLKS_0160_GWL_1s	31.0	16.3	3.6	1.4	3.5	2.0	1.0	1.0
BLKS_0400_GWL_1m	29.2	15.3	3.5	1.4	3.4	2.0	1.0	1.0
BLKS_0400_GWL_1s	29.2	15.3	3.5	1.4	3.4	2.0	1.0	1.0
BLKS_0400_GWL_2m	31.8	16.7	3.7	1.4	3.6	2.1	1.1	1.0
BLKS_0400_GWL_2s	31.8	16.7	3.7	1.4	3.6	2.1	1.1	1.0
BLKS_0600_GWL_1	31.8	16.7	3.7	1.4	3.6	2.1	1.1	1.0
BLKS_0600_GWL_2	33.0	17.3	3.8	1.4	3.7	2.1	1.1	1.0
BLKS_0600_GWL_3	33.0	17.3	3.8	1.4	3.7	2.1	1.1	1.0
BLKS_1000_GWL_1s	33.0	17.3	3.8	1.4	3.7	2.1	1.1	1.0
BLKS_1000_GWL_2s	28.8	15.1	3.4	1.4	3.3	2.0	1.0	1.0
BLKS_1100_GWL_1m	29.2	15.3	3.5	1.4	3.4	2.0	1.0	1.0
BLKS_1100_GWL_1s	29.2	15.3	3.5	1.4	3.4	2.0	1.0	1.0
BLKS_1100_GWL_2m	33.0	17.3	3.8	1.4	3.7	2.1	1.1	1.0
BLKS_1100_GWL_2s	33.0	17.3	3.8	1.4	3.7	2.1	1.1	1.0
CKS_0200_GWL_1	21.3	11.3	2.8	1.3	2.7	1.7	1.0	1.0

CKS_0200_GWL_2	24.7	13.0	3.1	1.3	3.0	1.8	1.0	1.0
CKS_0220_GWL_1	1.7	1.2	1.0	1.0	1.0	1.0	1.0	1.0
CKS_0250_GWL_1	29.9	15.7	3.5	1.4	3.4	2.0	1.0	1.0
CVS_0100_GWL_1	17.1	9.1	2.4	1.2	2.3	1.5	1.0	1.0
CVS_0160_GWL_1	27.5	14.4	3.3	1.4	3.2	1.9	1.0	1.0
CVS_0400_GWL_1	31.8	16.7	3.7	1.4	3.6	2.1	1.1	1.0
CVS_0600_GWL_1	18.8	10.0	2.5	1.2	2.4	1.6	1.0	1.0
CVS_0600_GWL_2	33.0	17.3	3.8	1.4	3.7	2.1	1.1	1.0
CVS_0800_GWL_1	10.2	5.6	1.7	1.0	1.7	1.2	1.0	1.0
CVS_0800_GWL_2	27.5	14.4	3.3	1.4	3.2	1.9	1.0	1.0
CVS_0800_GWL_3	18.8	10.0	2.5	1.2	2.4	1.6	1.0	1.0
KPS_0120_GWL_1	28.8	15.1	3.4	1.4	3.3	2.0	1.0	1.0
KPS_0120_GWL_2	28.8	15.1	3.4	1.4	3.3	2.0	1.0	1.0
KPS_0160_GWL_1	14.6	7.9	2.1	1.2	2.1	1.4	1.0	1.0
KPS_0160_GWL_2	14.6	7.9	2.1	1.2	2.1	1.4	1.0	1.0
KPS_0160_GWL_3	14.6	7.9	2.1	1.2	2.1	1.4	1.0	1.0
MS_0100_GWL_1	8.7	4.8	1.6	1.1	1.5	1.2	1.0	1.0
MS_0200_GWL_1	1.6	1.2	1.0	1.0	1.0	1.0	1.0	1.0
MS_0200_GWL_2	19.1	10.2	2.6	1.2	2.5	1.6	1.0	1.0
SS_1000_GWL_1	33.0	17.3	3.8	1.4	3.7	2.1	1.1	1.0
SS_1000_GWL_2	33.0	17.3	3.8	1.4	3.7	2.1	1.1	1.0
SS_1300_GWL_1	28.1	14.8	3.4	1.4	3.3	1.9	1.0	1.0
SS_1300_GWL_2	33.0	17.3	3.8	1.4	3.7	2.1	1.1	1.0
SS_1300_GWL_3	33.0	17.3	3.8	1.4	3.7	2.1	1.1	1.0
SS_1300_GWL_4	33.0	17.3	3.8	1.4	3.7	2.1	1.1	1.0
SS_1300_GWL_5	33.0	17.3	3.8	1.4	3.7	2.1	1.1	1.0

Pb klei	L ≤ 10 m Kd,vul				L > 10 m Kd,vul			
	<50	50-100	100-500	>500	<50	50-100	100-500	>500
GWL								
BLKS_0160_GWL_1m	>100	>100	45	4.7	>100	82	18	2.3
BLKS_0160_GWL_1s	>100	>100	45	4.7	>100	82	18	2.3
BLKS_0400_GWL_1m	>100	>100	45	4.7	>100	82	18	2.3
BLKS_0400_GWL_1s	>100	>100	45	4.7	>100	82	18	2.3
BLKS_0400_GWL_2m								
BLKS_0400_GWL_2s								
BLKS_0600_GWL_1	>100	>100	45	4.7	>100	82	18	2.3
BLKS_0600_GWL_2								

BLKS_0600_GWL_3								
BLKS_1000_GWL_1s	>100	>100	45	4.7	>100	82	18	2.3
BLKS_1000_GWL_2s								
BLKS_1100_GWL_1m	>100	>100	45	4.7	>100	82	18	2.3
BLKS_1100_GWL_1s	>100	>100	45	4.7	>100	82	18	2.3
BLKS_1100_GWL_2m								
BLKS_1100_GWL_2s								
CKS_0200_GWL_1	>100	>100	45	4.7	>100	82	18	2.3
CKS_0200_GWL_2								
CKS_0220_GWL_1	>100	>100	45	4.7	>100	82	18	2.3
CKS_0250_GWL_1	>100	>100	45	4.7	>100	82	18	2.3
CVS_0100_GWL_1	>100	>100	45	4.7	>100	82	18	2.3
CVS_0160_GWL_1	>100	>100	45	4.7	>100	82	18	2.3
CVS_0400_GWL_1								
CVS_0600_GWL_1	>100	>100	45	4.7	>100	82	18	2.3
CVS_0600_GWL_2								
CVS_0800_GWL_1	>100	>100	45	4.7	>100	82	18	2.3
CVS_0800_GWL_2								
CVS_0800_GWL_3	>100	>100	45	4.7	>100	82	18	2.3
KPS_0120_GWL_1	>100	>100	45	4.7	>100	82	18	2.3
KPS_0120_GWL_2	>100	>100	45	4.7	>100	82	18	2.3
KPS_0160_GWL_1	>100	>100	45	4.7	>100	82	18	2.3
KPS_0160_GWL_2	>100	>100	45	4.7	>100	82	18	2.3
KPS_0160_GWL_3	>100	>100	45	4.7	>100	82	18	2.3
MS_0100_GWL_1	>100	>100	45	4.7	>100	82	18	2.3
MS_0200_GWL_1	>100	>100	45	4.7	>100	82	18	2.3
MS_0200_GWL_2	>100	>100	45	4.7	>100	82	18	2.3
SS_1000_GWL_1								
SS_1000_GWL_2								
SS_1300_GWL_1								
SS_1300_GWL_2								
SS_1300_GWL_3								
SS_1300_GWL_4								
SS_1300_GWL_5								

Zn klei	L ≤ 10 m Kd,vul				L > 10 m Kd,vul			
	<50	50-100	100-500	>500	<50	50-100	100-500	>500
GWL								

BLKS_0160_GWL_1m								
BLKS_0160_GWL_1s								
BLKS_0400_GWL_1m								
BLKS_0400_GWL_1s								
BLKS_0400_GWL_2m								
BLKS_0400_GWL_2s								
BLKS_0600_GWL_1								
BLKS_0600_GWL_2								
BLKS_0600_GWL_3								
BLKS_1000_GWL_1s								
BLKS_1000_GWL_2s								
BLKS_1100_GWL_1m								
BLKS_1100_GWL_1s								
BLKS_1100_GWL_2m								
BLKS_1100_GWL_2s								
CKS_0200_GWL_1	17.6	9.4	2.4	1.2	2.3	1.5	1.0	1.0
CKS_0200_GWL_2	20.2	10.7	2.6	1.2	2.6	1.6	1.0	1.0
CKS_0220_GWL_1	19.2	10.2	2.5	1.2	2.5	1.6	1.0	1.0
CKS_0250_GWL_1	24.8	13.1	3.0	1.3	2.9	1.8	1.0	1.0
CVS_0100_GWL_1								
CVS_0160_GWL_1								
CVS_0400_GWL_1								
CVS_0600_GWL_1								
CVS_0600_GWL_2								
CVS_0800_GWL_1								
CVS_0800_GWL_2								
CVS_0800_GWL_3								
KPS_0120_GWL_1								
KPS_0120_GWL_2								
KPS_0160_GWL_1								
KPS_0160_GWL_2								
KPS_0160_GWL_3								
MS_0100_GWL_1	23.0	12.1	2.9	1.3	2.8	1.7	1.0	1.0
MS_0200_GWL_1	19.2	10.2	2.5	1.2	2.5	1.6	1.0	1.0
MS_0200_GWL_2	25.4	13.4	3.1	1.3	3.0	1.8	1.0	1.0
SS_1000_GWL_1								
SS_1000_GWL_2								
SS_1300_GWL_1								
SS_1300_GWL_2								
SS_1300_GWL_3								
SS_1300_GWL_4								

SS_1300_GWL_5		
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D2 PAK's

benzo(a)pyreen	L (m)	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
	≤10	2.7	1.1	1.0	1.0
	>10	1.0	1.0	1.0	1.0

benzo(b)fluoranteen	L (m)	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
	≤10	2.7	1.1	1.0	1.0
	>10	1.0	1.0	1.0	1.0

benzo(ghi)peryleen	L (m)	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
	≤10	1.3	1.1	1.0	1.0
	>10	1.0	1.0	1.0	1.0

benzo(k)fluoranteen	L (m)	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
	≤10	2.7	1.1	1.0	1.0
	>10	1.0	1.0	1.0	1.0

fluoranteen	L (m)	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
	≤10	2.7	1.1	1.0	1.0
	>10	1.0	1.0	1.0	1.0

indeno(123-cd)pyreen	L (m)	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
	≤10	1.0	1.0	1.0	1.0
	>10	1.0	1.0	1.0	1.0

D3 Gechloreerde solventen

tetrachlooretheen	L (m)	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
	≤10	2.7	1.4	1.1	1.0
	>10	1.0	1.0	1.0	1.0

trichlooretheen	L (m)	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
	≤10	2.7	1.4	1.1	1.0
	>10	1.0	1.0	1.0	1.0

	≤10	2.7	1.7	1.3	1.0
	>10	1.0	1.0	1.0	1.0

D4 Cyanide

cyanide	L (m)	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
	≤10	2.7	1.2	1.1	1.0
	>10	1.0	1.0	1.0	1.0

D5 PCB's

PCB	L (m)	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
	≤10	2.7	1.1	1.0	1.0
	>10	1.0	1.0	1.0	1.0

BIJLAGE E: ATTENUATIEFACTOR VOOR TRANSPORT DOOR ONVERZADIGDE BODEM MET MKN UIT VLAREM II

Volgende tabellen geven AF_{bodem} voor de verschillende parameters opgenomen in VLAREM II bijlage 2.4.1 voor verschillende diktes van de opvulling, K_d van de onderliggende bodem (1 m dikte) en K_d van het vulmateriaal. De milieukwaliteitsnormen in grondwater zijn de grondwaterkwaliteitsnormen en drempelwaarden opgenomen in VLAREM II (bijlage 2.4.1). Binnen de tabellen zijn domeinen afgebakend (cursief gedrukte grijze gebieden) die de scenario's aflijnen waar concentraties in de aangevoerde bodemmateriaal, lager dan BSN type III, geen aanleiding geven tot overschrijding van de grondwaterkwaliteitsnorm/drempelwaarde uit VLAREM II in het grondwater net onder de groeve en waar de berekening dus niet uitgevoerd hoeft te worden.

E1 Metalen

a) $d_{vul} \leq 10$ m

As	$d_{vul} \leq 10$ m	$K_{d,bodem}$	$K_{d,vul}$			
			<50	50-100	100-500	>500
BLKS_0160_GWL_1m		<50	1.0	1.0	1.0	1.0
		50-100	1.0	1.0	1.0	1.0
		100-500	1.0	1.0	1.0	1.0

	>500	2.1	1.4	1.0	1.0
BLKS_0160_GWL_1s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.1	1.4	1.0	1.0
BLKS_0400_GWL_1m	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.9	1.3	1.0	1.0
BLKS_0400_GWL_1s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.9	1.3	1.0	1.0
BLKS_0400_GWL_2m	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.1	1.4	1.0	1.0
BLKS_0400_GWL_2s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.1	1.4	1.0	1.0
BLKS_0600_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.9	1.3	1.0	1.0
BLKS_0600_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.2	1.4	1.0	1.0
BLKS_0600_GWL_3	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.2	1.4	1.0	1.0
BLKS_1000_GWL_1s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.9	1.3	1.0	1.0
BLKS_1000_GWL_2s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.1	1.4	1.0	1.0

BLKS_1100_GWL_1m	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.8	1.2	1.0	1.0
BLKS_1100_GWL_1s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.8	1.2	1.0	1.0
BLKS_1100_GWL_2m	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.9	1.3	1.0	1.0
BLKS_1100_GWL_2s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.9	1.3	1.0	1.0
CKS_0200_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.1	1.4	1.0	1.0
CKS_0200_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.0	1.4	1.0	1.0
CKS_0220_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.2	1.4	1.0	1.0
CKS_0250_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.0	1.4	1.0	1.0
CVS_0100_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.0	1.3	1.0	1.0
CVS_0160_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.0	1.4	1.0	1.0
CVS_0400_GWL_1	<50	1.0	1.0	1.0	1.0

	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.1	1.4	1.0	1.0
CVS_0600_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.9	1.3	1.0	1.0
CVS_0600_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.2	1.4	1.0	1.0
CVS_0800_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.9	1.3	1.0	1.0
CVS_0800_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.9	1.3	1.0	1.0
CVS_0800_GWL_3	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.9	1.3	1.0	1.0
KPS_0120_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.0	1.4	1.0	1.0
KPS_0120_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.0	1.4	1.0	1.0
KPS_0160_GWL_1					
KPS_0160_GWL_2					
KPS_0160_GWL_3					
MS_0100_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.1	1.4	1.0	1.0
MS_0200_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0

	>500	2.0	1.4	1.0	1.0
MS_0200_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.1	1.4	1.0	1.0
SS_1000_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.0	1.4	1.0	1.0
SS_1000_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.0	1.4	1.0	1.0
SS_1300_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.6	1.2	1.0	1.0
SS_1300_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.1	1.4	1.0	1.0
SS_1300_GWL_3	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.0	1.3	1.0	1.0
SS_1300_GWL_4	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.2	1.4	1.0	1.0
SS_1300_GWL_5	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.0	1.3	1.0	1.0

Cd d _{vul} ≤ 10 m	K _{d,bodem}	K _{d,vul}			
		<50	50-100	100-500	>500
BLKS_0160_GWL_1m					
BLKS_0160_GWL_1s					
BLKS_0400_GWL_1m					
BLKS_0400_GWL_1s					

BLKS_0400_GWL_2m					
BLKS_0400_GWL_2s					
BLKS_0600_GWL_1					
BLKS_0600_GWL_2					
BLKS_0600_GWL_3					
BLKS_1000_GWL_1s					
BLKS_1000_GWL_2s					
BLKS_1100_GWL_1m					
BLKS_1100_GWL_1s					
BLKS_1100_GWL_2m					
BLKS_1100_GWL_2s					
CKS_0200_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.1	1.0	1.0	1.0
	>500	2.5	1.5	1.0	1.0
CKS_0200_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.1	1.0	1.0	1.0
	>500	2.5	1.5	1.0	1.0
CKS_0220_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.1	1.0	1.0	1.0
	>500	2.5	1.5	1.0	1.0
CKS_0250_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.1	1.0	1.0	1.0
	>500	2.5	1.5	1.0	1.0
CVS_0100_GWL_1					
CVS_0160_GWL_1					
CVS_0400_GWL_1					
CVS_0600_GWL_1					
CVS_0600_GWL_2					
CVS_0800_GWL_1					
CVS_0800_GWL_2					
CVS_0800_GWL_3					
KPS_0120_GWL_1					
KPS_0120_GWL_2					
KPS_0160_GWL_1					
KPS_0160_GWL_2					
KPS_0160_GWL_3					

MS_0100_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.1	1.0	1.0	1.0
	>500	2.5	1.5	1.0	1.0
MS_0200_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.1	1.0	1.0	1.0
	>500	2.5	1.5	1.0	1.0
MS_0200_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.1	1.0	1.0	1.0
	>500	2.5	1.5	1.0	1.0
SS_1000_GWL_1					
SS_1000_GWL_2					
SS_1300_GWL_1					
SS_1300_GWL_2					
SS_1300_GWL_3					
SS_1300_GWL_4					
SS_1300_GWL_5					

Ni	d _{vul} ≤ 10 m	K _{d,bodem}	K _{d,vul}			
			<50	50-100	100-500	>500
BLKS_0160_GWL_1m	<50		1.0	1.0	1.0	1.0
	50-100		1.0	1.0	1.0	1.0
	100-500		1.0	1.0	1.0	1.0
	>500		2.3	1.5	1.0	1.0
BLKS_0160_GWL_1s	<50		1.0	1.0	1.0	1.0
	50-100		1.0	1.0	1.0	1.0
	100-500		1.0	1.0	1.0	1.0
	>500		2.3	1.5	1.0	1.0
BLKS_0400_GWL_1m	<50		1.0	1.0	1.0	1.0
	50-100		1.0	1.0	1.0	1.0
	100-500		1.0	1.0	1.0	1.0
	>500		2.3	1.5	1.0	1.0
BLKS_0400_GWL_1s	<50		1.0	1.0	1.0	1.0
	50-100		1.0	1.0	1.0	1.0
	100-500		1.0	1.0	1.0	1.0
	>500		2.3	1.5	1.0	1.0
BLKS_0400_GWL_2m	<50		1.0	1.0	1.0	1.0
	50-100		1.0	1.0	1.0	1.0

	100-500	1.0	1.0	1.0	1.0
	>500	2.3	1.4	1.0	1.0
BLKS_0400_GWL_2s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.3	1.4	1.0	1.0
BLKS_0600_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.3	1.4	1.0	1.0
BLKS_0600_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.3	1.4	1.0	1.0
BLKS_0600_GWL_3	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.3	1.4	1.0	1.0
BLKS_1000_GWL_1s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.3	1.4	1.0	1.0
BLKS_1000_GWL_2s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.3	1.5	1.0	1.0
BLKS_1100_GWL_1m	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.3	1.5	1.0	1.0
BLKS_1100_GWL_1s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.3	1.5	1.0	1.0
BLKS_1100_GWL_2m	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.3	1.4	1.0	1.0
BLKS_1100_GWL_2s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0

	>500	2.3	1.4	1.0	1.0
CKS_0200_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.4	1.5	1.0	1.0
CKS_0200_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.3	1.5	1.0	1.0
CKS_0220_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.1	1.0	1.0	1.0
	>500	2.5	1.5	1.0	1.0
CKS_0250_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.3	1.5	1.0	1.0
CVS_0100_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.4	1.5	1.0	1.0
CVS_0160_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.3	1.5	1.0	1.0
CVS_0400_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.3	1.4	1.0	1.0
CVS_0600_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.4	1.5	1.0	1.0
CVS_0600_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.3	1.4	1.0	1.0
CVS_0800_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.4	1.5	1.0	1.0

CVS_0800_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.3	1.5	1.0	1.0
CVS_0800_GWL_3	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.4	1.5	1.0	1.0
KPS_0120_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.3	1.5	1.0	1.0
KPS_0120_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.3	1.5	1.0	1.0
KPS_0160_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.4	1.5	1.0	1.0
KPS_0160_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.4	1.5	1.0	1.0
KPS_0160_GWL_3	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.4	1.5	1.0	1.0
MS_0100_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.4	1.5	1.0	1.0
MS_0200_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.1	1.0	1.0	1.0
	>500	2.5	1.5	1.0	1.0
MS_0200_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.4	1.5	1.0	1.0
SS_1000_GWL_1	<50	1.0	1.0	1.0	1.0

	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.3	1.4	1.0	1.0
SS_1000_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.3	1.4	1.0	1.0
SS_1300_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.3	1.5	1.0	1.0
SS_1300_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.3	1.4	1.0	1.0
SS_1300_GWL_3	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.3	1.4	1.0	1.0
SS_1300_GWL_4	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.3	1.4	1.0	1.0
SS_1300_GWL_5	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	2.3	1.4	1.0	1.0

Pb	d _{vul} ≤ 10 m	K _{d,bodem}	K _{d,vul}			
			<50	50-100	100-500	>500
BLKS_0160_GWL_1m	<50		1.0	1.0	1.0	1.0
	50-100		1.0	1.0	1.0	1.0
	100-500		1.0	1.0	1.0	1.0
	>500		1.0	1.0	1.0	1.0
BLKS_0160_GWL_1s	<50		1.0	1.0	1.0	1.0
	50-100		1.0	1.0	1.0	1.0
	100-500		1.0	1.0	1.0	1.0
	>500		1.0	1.0	1.0	1.0
BLKS_0400_GWL_1m	<50		1.0	1.0	1.0	1.0
	50-100		1.0	1.0	1.0	1.0

	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_0400_GWL_1s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_0400_GWL_2m					
BLKS_0400_GWL_2s					
BLKS_0600_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_0600_GWL_2					
BLKS_0600_GWL_3					
BLKS_1000_GWL_1s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_1000_GWL_2s					
BLKS_1100_GWL_1m	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_1100_GWL_1s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_1100_GWL_2m					
BLKS_1100_GWL_2s					
CKS_0200_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CKS_0200_GWL_2					
CKS_0220_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CKS_0250_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0

	>500	1.0	1.0	1.0	1.0
CVS_0100_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CVS_0160_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CVS_0400_GWL_1					
CVS_0600_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CVS_0600_GWL_2					
CVS_0800_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CVS_0800_GWL_2					
CVS_0800_GWL_3	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
KPS_0120_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
KPS_0120_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
KPS_0160_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
KPS_0160_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
KPS_0160_GWL_3	<50	1.0	1.0	1.0	1.0

	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
MS_0100_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
MS_0200_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
MS_0200_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
SS_1000_GWL_1					
SS_1000_GWL_2					
SS_1300_GWL_1					
SS_1300_GWL_2					
SS_1300_GWL_3					
SS_1300_GWL_4					
SS_1300_GWL_5					

Zn d _{vul} ≤ 10 m	K _d ,bodem	K _d ,vul			
		<50	50-100	100-500	>500
BLKS_0160_GWL_1m					
BLKS_0160_GWL_1s					
BLKS_0400_GWL_1m					
BLKS_0400_GWL_1s					
BLKS_0400_GWL_2m					
BLKS_0400_GWL_2s					
BLKS_0600_GWL_1					
BLKS_0600_GWL_2					
BLKS_0600_GWL_3					
BLKS_1000_GWL_1s					
BLKS_1000_GWL_2s					
BLKS_1100_GWL_1m					
BLKS_1100_GWL_1s					
BLKS_1100_GWL_2m					

BLKS_1100_GWL_2s					
CKS_0200_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.1	1.0	1.0	1.0
	>500	2.5	1.6	1.0	1.0
CKS_0200_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.1	1.0	1.0	1.0
	>500	2.5	1.6	1.0	1.0
CKS_0220_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.1	1.0	1.0	1.0
	>500	2.5	1.6	1.0	1.0
CKS_0250_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.1	1.0	1.0	1.0
	>500	2.5	1.5	1.0	1.0
CVS_0100_GWL_1					
CVS_0160_GWL_1					
CVS_0400_GWL_1					
CVS_0600_GWL_1					
CVS_0600_GWL_2					
CVS_0800_GWL_1					
CVS_0800_GWL_2					
CVS_0800_GWL_3					
KPS_0120_GWL_1					
KPS_0120_GWL_2					
KPS_0160_GWL_1					
KPS_0160_GWL_2					
KPS_0160_GWL_3					
MS_0100_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.1	1.0	1.0	1.0
	>500	2.5	1.5	1.0	1.0
MS_0200_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.1	1.0	1.0	1.0
	>500	2.5	1.6	1.0	1.0
MS_0200_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.1	1.0	1.0	1.0

	>500	2.5	1.5	1.0	1.0
SS_1000_GWL_1					
SS_1000_GWL_2					
SS_1300_GWL_1					
SS_1300_GWL_2					
SS_1300_GWL_3					
SS_1300_GWL_4					
SS_1300_GWL_5					

b) $10 \text{ m} < d_{\text{vul}} < 20 \text{ m}$

As $10 \text{ m} < d_{\text{vul}} < 20 \text{ m}$	$K_{d,\text{bodem}}$	$K_{d,\text{vul}}$			
		<50	50-100	100-500	>500
BLKS_0160_GWL_1m	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.4	1.1	1.0	1.0
BLKS_0160_GWL_1s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.4	1.1	1.0	1.0
BLKS_0400_GWL_1m	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.3	1.0	1.0	1.0
BLKS_0400_GWL_1s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.3	1.0	1.0	1.0
BLKS_0400_GWL_2m	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.4	1.1	1.0	1.0
BLKS_0400_GWL_2s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.4	1.1	1.0	1.0
BLKS_0600_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0

	>500	1.3	1.1	1.0	1.0
BLKS_0600_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.4	1.1	1.0	1.0
BLKS_0600_GWL_3	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.4	1.1	1.0	1.0
BLKS_1000_GWL_1s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.3	1.0	1.0	1.0
BLKS_1000_GWL_2s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.4	1.1	1.0	1.0
BLKS_1100_GWL_1m	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.2	1.0	1.0	1.0
BLKS_1100_GWL_1s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.2	1.0	1.0	1.0
BLKS_1100_GWL_2m	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.3	1.1	1.0	1.0
BLKS_1100_GWL_2s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.3	1.1	1.0	1.0
CKS_0200_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.4	1.1	1.0	1.0
CKS_0200_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.3	1.1	1.0	1.0

CKS_0220_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.4	1.1	1.0	1.0
CKS_0250_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.3	1.1	1.0	1.0
CVS_0100_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.3	1.1	1.0	1.0
CVS_0160_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.3	1.1	1.0	1.0
CVS_0400_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.4	1.1	1.0	1.0
CVS_0600_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.3	1.1	1.0	1.0
CVS_0600_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.4	1.1	1.0	1.0
CVS_0800_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.3	1.1	1.0	1.0
CVS_0800_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.3	1.1	1.0	1.0
CVS_0800_GWL_3	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.3	1.1	1.0	1.0
KPS_0120_GWL_1	<50	1.0	1.0	1.0	1.0

	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.3	1.1	1.0	1.0
KPS_0120_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.3	1.1	1.0	1.0
KPS_0160_GWL_1					
KPS_0160_GWL_2					
KPS_0160_GWL_3					
MS_0100_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.4	1.1	1.0	1.0
MS_0200_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.3	1.1	1.0	1.0
MS_0200_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.4	1.1	1.0	1.0
SS_1000_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.3	1.1	1.0	1.0
SS_1000_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.3	1.1	1.0	1.0
SS_1300_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.2	1.0	1.0	1.0
SS_1300_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.4	1.1	1.0	1.0
SS_1300_GWL_3	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0

	>500	1.3	1.1	1.0	1.0
SS_1300_GWL_4	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.4	1.1	1.0	1.0
SS_1300_GWL_5	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.3	1.1	1.0	1.0

Cd 10 m < d _{vul} < 20 m	K _{d,bodem}	K _{d,vul}			
		<50	50-100	100-500	>500
BLKS_0160_GWL_1m					
BLKS_0160_GWL_1s					
BLKS_0400_GWL_1m					
BLKS_0400_GWL_1s					
BLKS_0400_GWL_2m					
BLKS_0400_GWL_2s					
BLKS_0600_GWL_1					
BLKS_0600_GWL_2					
BLKS_0600_GWL_3					
BLKS_1000_GWL_1s					
BLKS_1000_GWL_2s					
BLKS_1100_GWL_1m					
BLKS_1100_GWL_1s					
BLKS_1100_GWL_2m					
BLKS_1100_GWL_2s					
CKS_0200_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.5	1.1	1.0	1.0
CKS_0200_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.5	1.1	1.0	1.0
CKS_0220_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.5	1.1	1.0	1.0
CKS_0250_GWL_1	<50	1.0	1.0	1.0	1.0

	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.5	1.1	1.0	1.0
CVS_0100_GWL_1					
CVS_0160_GWL_1					
CVS_0400_GWL_1					
CVS_0600_GWL_1					
CVS_0600_GWL_2					
CVS_0800_GWL_1					
CVS_0800_GWL_2					
CVS_0800_GWL_3					
KPS_0120_GWL_1					
KPS_0120_GWL_2					
KPS_0160_GWL_1					
KPS_0160_GWL_2					
KPS_0160_GWL_3					
MS_0100_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.5	1.1	1.0	1.0
MS_0200_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.5	1.1	1.0	1.0
MS_0200_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.5	1.1	1.0	1.0
SS_1000_GWL_1					
SS_1000_GWL_2					
SS_1300_GWL_1					
SS_1300_GWL_2					
SS_1300_GWL_3					
SS_1300_GWL_4					
SS_1300_GWL_5					

Ni	10 m < d _{vul} < 20 m	K _{d,bodem}	K _{d,vul}			
			<50	50-100	100-500	>500
		<50	1.0	1.0	1.0	1.0
		50-100	1.0	1.0	1.0	1.0
BLKS_0160_GWL_1m		<50	1.0	1.0	1.0	1.0
		50-100	1.0	1.0	1.0	1.0

	100-500	1.0	1.0	1.0	1.0
	>500	1.5	1.1	1.0	1.0
BLKS_0160_GWL_1s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.5	1.1	1.0	1.0
BLKS_0400_GWL_1m	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.5	1.1	1.0	1.0
BLKS_0400_GWL_1s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.5	1.1	1.0	1.0
BLKS_0400_GWL_2m	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.4	1.1	1.0	1.0
BLKS_0400_GWL_2s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.4	1.1	1.0	1.0
BLKS_0600_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.4	1.1	1.0	1.0
BLKS_0600_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.4	1.1	1.0	1.0
BLKS_0600_GWL_3	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.4	1.1	1.0	1.0
BLKS_1000_GWL_1s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.4	1.1	1.0	1.0
BLKS_1000_GWL_2s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0

	>500	1.5	1.1	1.0	1.0
BLKS_1100_GWL_1m	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.5	1.1	1.0	1.0
BLKS_1100_GWL_1s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.5	1.1	1.0	1.0
BLKS_1100_GWL_2m	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.4	1.1	1.0	1.0
BLKS_1100_GWL_2s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.4	1.1	1.0	1.0
CKS_0200_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.5	1.1	1.0	1.0
CKS_0200_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.5	1.1	1.0	1.0
CKS_0220_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.5	1.1	1.0	1.0
CKS_0250_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.5	1.1	1.0	1.0
CVS_0100_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.5	1.1	1.0	1.0
CVS_0160_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.5	1.1	1.0	1.0

CVS_0400_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.4	1.1	1.0	1.0
CVS_0600_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.5	1.1	1.0	1.0
CVS_0600_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.4	1.1	1.0	1.0
CVS_0800_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.5	1.1	1.0	1.0
CVS_0800_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.5	1.1	1.0	1.0
CVS_0800_GWL_3	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.5	1.1	1.0	1.0
KPS_0120_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.5	1.1	1.0	1.0
KPS_0120_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.5	1.1	1.0	1.0
KPS_0160_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.5	1.1	1.0	1.0
KPS_0160_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.5	1.1	1.0	1.0
KPS_0160_GWL_3	<50	1.0	1.0	1.0	1.0

	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.5	1.1	1.0	1.0
MS_0100_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.5	1.1	1.0	1.0
MS_0200_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.5	1.1	1.0	1.0
MS_0200_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.5	1.1	1.0	1.0
SS_1000_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.4	1.1	1.0	1.0
SS_1000_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.4	1.1	1.0	1.0
SS_1300_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.5	1.1	1.0	1.0
SS_1300_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.4	1.1	1.0	1.0
SS_1300_GWL_3	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.4	1.1	1.0	1.0
SS_1300_GWL_4	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.4	1.1	1.0	1.0
SS_1300_GWL_5	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0

	100-500	1.0	1.0	1.0	1.0
	>500	1.4	1.1	1.0	1.0

Pb 10 m < d _{vul} < 20 m	K _{d,bodem}	K _{d,vul}			
		<50	50-100	100-500	>500
BLKS_0160_GWL_1m	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_0160_GWL_1s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_0400_GWL_1m	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_0400_GWL_1s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_0400_GWL_2m					
BLKS_0400_GWL_2s					
BLKS_0600_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_0600_GWL_2					
BLKS_0600_GWL_3					
BLKS_1000_GWL_1s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_1000_GWL_2s					
BLKS_1100_GWL_1m	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_1100_GWL_1s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0

	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_1100_GWL_2m					
BLKS_1100_GWL_2s					
CKS_0200_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CKS_0200_GWL_2					
CKS_0220_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CKS_0250_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CVS_0100_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CVS_0160_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CVS_0400_GWL_1					
CVS_0600_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CVS_0600_GWL_2					
CVS_0800_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CVS_0800_GWL_2					
CVS_0800_GWL_3	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
KPS_0120_GWL_1	<50	1.0	1.0	1.0	1.0

	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
KPS_0120_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
KPS_0160_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
KPS_0160_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
KPS_0160_GWL_3	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
MS_0100_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
MS_0200_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
MS_0200_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
SS_1000_GWL_1					
SS_1000_GWL_2					
SS_1300_GWL_1					
SS_1300_GWL_2					
SS_1300_GWL_3					
SS_1300_GWL_4					
SS_1300_GWL_5					

Zn 10 m < d _{vul} < 20 m	K _{d,vul}			
	<50	50-100	100-500	>500

K_d,bodem					
BLKS_0160_GWL_1m					
BLKS_0160_GWL_1s					
BLKS_0400_GWL_1m					
BLKS_0400_GWL_1s					
BLKS_0400_GWL_2m					
BLKS_0400_GWL_2s					
BLKS_0600_GWL_1					
BLKS_0600_GWL_2					
BLKS_0600_GWL_3					
BLKS_1000_GWL_1s					
BLKS_1000_GWL_2s					
BLKS_1100_GWL_1m					
BLKS_1100_GWL_1s					
BLKS_1100_GWL_2m					
BLKS_1100_GWL_2s					
CKS_0200_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.6	1.1	1.0	1.0
CKS_0200_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.6	1.1	1.0	1.0
CKS_0220_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.6	1.1	1.0	1.0
CKS_0250_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.5	1.1	1.0	1.0
CVS_0100_GWL_1					
CVS_0160_GWL_1					
CVS_0400_GWL_1					
CVS_0600_GWL_1					
CVS_0600_GWL_2					
CVS_0800_GWL_1					
CVS_0800_GWL_2					
CVS_0800_GWL_3					

KPS_0120_GWL_1					
KPS_0120_GWL_2					
KPS_0160_GWL_1					
KPS_0160_GWL_2					
KPS_0160_GWL_3					
MS_0100_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.5	1.1	1.0	1.0
MS_0200_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.6	1.1	1.0	1.0
MS_0200_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.5	1.1	1.0	1.0
SS_1000_GWL_1					
SS_1000_GWL_2					
SS_1300_GWL_1					
SS_1300_GWL_2					
SS_1300_GWL_3					
SS_1300_GWL_4					
SS_1300_GWL_5					

c) $d_{vul} > 20$ m

As $d_{vul} > 20$ m	$K_d, bodem$	K_d, vul			
		<50	50-100	100-500	>500
BLKS_0160_GWL_1m	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_0160_GWL_1s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_0400_GWL_1m	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0

	>500	1.0	1.0	1.0	1.0
BLKS_0400_GWL_1s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_0400_GWL_2m	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_0400_GWL_2s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_0600_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_0600_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_0600_GWL_3	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_1000_GWL_1s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_1000_GWL_2s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_1100_GWL_1m	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_1100_GWL_1s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0

BLKS_1100_GWL_2m	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_1100_GWL_2s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CKS_0200_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CKS_0200_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CKS_0220_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CKS_0250_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CVS_0100_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CVS_0160_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CVS_0400_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CVS_0600_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CVS_0600_GWL_2	<50	1.0	1.0	1.0	1.0

	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CVS_0800_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CVS_0800_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CVS_0800_GWL_3	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
KPS_0120_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
KPS_0120_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
KPS_0160_GWL_1					
KPS_0160_GWL_2					
KPS_0160_GWL_3					
MS_0100_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
MS_0200_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
MS_0200_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
SS_1000_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0

	>500	1.0	1.0	1.0	1.0
SS_1000_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
SS_1300_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
SS_1300_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
SS_1300_GWL_3	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
SS_1300_GWL_4	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
SS_1300_GWL_5	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0

Cd d _{vul} > 20 m	K _{d,bodem}	K _{d,vul}			
		<50	50-100	100-500	>500
BLKS_0160_GWL_1m					
BLKS_0160_GWL_1s					
BLKS_0400_GWL_1m					
BLKS_0400_GWL_1s					
BLKS_0400_GWL_2m					
BLKS_0400_GWL_2s					
BLKS_0600_GWL_1					
BLKS_0600_GWL_2					
BLKS_0600_GWL_3					
BLKS_1000_GWL_1s					
BLKS_1000_GWL_2s					
BLKS_1100_GWL_1m					

BLKS_1100_GWL_1s					
BLKS_1100_GWL_2m					
BLKS_1100_GWL_2s					
CKS_0200_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CKS_0200_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CKS_0220_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CKS_0250_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CVS_0100_GWL_1					
CVS_0160_GWL_1					
CVS_0400_GWL_1					
CVS_0600_GWL_1					
CVS_0600_GWL_2					
CVS_0800_GWL_1					
CVS_0800_GWL_2					
CVS_0800_GWL_3					
KPS_0120_GWL_1					
KPS_0120_GWL_2					
KPS_0160_GWL_1					
KPS_0160_GWL_2					
KPS_0160_GWL_3					
MS_0100_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
MS_0200_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
MS_0200_GWL_2	<50	1.0	1.0	1.0	1.0

	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
SS_1000_GWL_1					
SS_1000_GWL_2					
SS_1300_GWL_1					
SS_1300_GWL_2					
SS_1300_GWL_3					
SS_1300_GWL_4					
SS_1300_GWL_5					

Ni d _{vul} > 20 m	K _d ,bodem	K _d ,vul			
		<50	50-100	100-500	>500
BLKS_0160_GWL_1m	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_0160_GWL_1s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_0400_GWL_1m	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_0400_GWL_1s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_0400_GWL_2m	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_0400_GWL_2s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_0600_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0

	>500	1.0	1.0	1.0	1.0
BLKS_0600_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_0600_GWL_3	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_1000_GWL_1s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_1000_GWL_2s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_1100_GWL_1m	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_1100_GWL_1s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_1100_GWL_2m	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_1100_GWL_2s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CKS_0200_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CKS_0200_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0

CKS_0220_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CKS_0250_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CVS_0100_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CVS_0160_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CVS_0400_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CVS_0600_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CVS_0600_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CVS_0800_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CVS_0800_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CVS_0800_GWL_3	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
KPS_0120_GWL_1	<50	1.0	1.0	1.0	1.0

	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
KPS_0120_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
KPS_0160_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
KPS_0160_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
KPS_0160_GWL_3	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
MS_0100_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
MS_0200_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
MS_0200_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
SS_1000_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
SS_1000_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
SS_1300_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0

	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
SS_1300_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
SS_1300_GWL_3	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
SS_1300_GWL_4	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
SS_1300_GWL_5	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0

Pb d _{vul} > 20 m	K _{d,bodem}	K _{d,vul}			
		<50	50-100	100-500	>500
BLKS_0160_GWL_1m	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_0160_GWL_1s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_0400_GWL_1m	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_0400_GWL_1s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_0400_GWL_2m					
BLKS_0400_GWL_2s					
BLKS_0600_GWL_1	<50	1.0	1.0	1.0	1.0

	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_0600_GWL_2					
BLKS_0600_GWL_3					
BLKS_1000_GWL_1s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_1000_GWL_2s					
BLKS_1100_GWL_1m	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_1100_GWL_1s	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
BLKS_1100_GWL_2m					
BLKS_1100_GWL_2s					
CKS_0200_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CKS_0200_GWL_2					
CKS_0220_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CKS_0250_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CVS_0100_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CVS_0160_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0

CVS_0400_GWL_1					
CVS_0600_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CVS_0600_GWL_2					
CVS_0800_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CVS_0800_GWL_2					
CVS_0800_GWL_3	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
KPS_0120_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
KPS_0120_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
KPS_0160_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
KPS_0160_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
KPS_0160_GWL_3	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
MS_0100_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
MS_0200_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0

	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
MS_0200_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
SS_1000_GWL_1					
SS_1000_GWL_2					
SS_1300_GWL_1					
SS_1300_GWL_2					
SS_1300_GWL_3					
SS_1300_GWL_4					
SS_1300_GWL_5					

Zn d _{vul} > 20 m	K _{d,bodem}	K _{d,vul}			
		<50	50-100	100-500	>500
BLKS_0160_GWL_1m					
BLKS_0160_GWL_1s					
BLKS_0400_GWL_1m					
BLKS_0400_GWL_1s					
BLKS_0400_GWL_2m					
BLKS_0400_GWL_2s					
BLKS_0600_GWL_1					
BLKS_0600_GWL_2					
BLKS_0600_GWL_3					
BLKS_1000_GWL_1s					
BLKS_1000_GWL_2s					
BLKS_1100_GWL_1m					
BLKS_1100_GWL_1s					
BLKS_1100_GWL_2m					
BLKS_1100_GWL_2s					
CKS_0200_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CKS_0200_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0

CKS_0220_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CKS_0250_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
CVS_0100_GWL_1					
CVS_0160_GWL_1					
CVS_0400_GWL_1					
CVS_0600_GWL_1					
CVS_0600_GWL_2					
CVS_0800_GWL_1					
CVS_0800_GWL_2					
CVS_0800_GWL_3					
KPS_0120_GWL_1					
KPS_0120_GWL_2					
KPS_0160_GWL_1					
KPS_0160_GWL_2					
KPS_0160_GWL_3					
MS_0100_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
MS_0200_GWL_1	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
MS_0200_GWL_2	<50	1.0	1.0	1.0	1.0
	50-100	1.0	1.0	1.0	1.0
	100-500	1.0	1.0	1.0	1.0
	>500	1.0	1.0	1.0	1.0
SS_1000_GWL_1					
SS_1000_GWL_2					
SS_1300_GWL_1					
SS_1300_GWL_2					
SS_1300_GWL_3					
SS_1300_GWL_4					
SS_1300_GWL_5					

E2 PAK's

a) $d_{vul} \leq 10$ m

benzo(a)pyreen	%OC,bodem	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
	<0.5	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0
	1.0-6.0	1.1	1.0	1.0	1.0
	>6.0	2.8	1.2	1.1	1.1

benzo(b)fluoranteen	%OC,bodem	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
	<0.5	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0
	1.0-6.0	1.1	1.0	1.0	1.0
	>6.0	4.3	1.2	1.0	1.0

benzo(ghi)peryleen	%OC,bodem	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
	<0.5	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0
	1.0-6.0	1.1	1.0	1.0	1.0
	>6.0	1.3	1.2	1.0	1.0

benzo(k)fluoranteen	%OC,bodem	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
	<0.5	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0
	1.0-6.0	1.1	1.0	1.0	1.0
	>6.0	3.8	1.2	1.0	1.0

fluoranteen	%OC,bodem	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
	<0.5	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0
	1.0-6.0	1.1	1.0	1.0	1.0
	>6.0	4.3	1.2	1.0	1.0

indeno(123-cd)pyreen	%OC,bodem	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
	<0.5	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0
	1.0-6.0	1.1	1.0	1.0	1.0
	>6.0	4.3	1.2	1.0	1.0

<0.5	1.0	1.0	1.0	1.0
0.5-1.0	1.0	1.0	1.0	1.0
1.0-6.0	1.0	1.0	1.0	1.0
>6.0	1.0	1.0	1.0	1.0

b) $10 \text{ m} < d_{\text{vul}} \leq 20 \text{ m}$

benzo(a)pyreen	%OC,bodem	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
<0.5		1.0	1.0	1.0	1.0
0.5-1.0		1.0	1.0	1.0	1.0
1.0-6.0		1.0	1.0	1.0	1.0
>6.0		2.3	1.1	1.1	1.1

benzo(b)fluoranteen	%OC,bodem	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
<0.5		1.0	1.0	1.0	1.0
0.5-1.0		1.0	1.0	1.0	1.0
1.0-6.0		1.0	1.0	1.0	1.0
>6.0		2.3	1.0	1.0	1.0

benzo(ghi)peryleen	%OC,bodem	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
<0.5		1.0	1.0	1.0	1.0
0.5-1.0		1.0	1.0	1.0	1.0
1.0-6.0		1.0	1.0	1.0	1.0
>6.0		1.3	1.0	1.0	1.0

benzo(k)fluoranteen	%OC,bodem	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
<0.5		1.0	1.0	1.0	1.0
0.5-1.0		1.0	1.0	1.0	1.0
1.0-6.0		1.0	1.0	1.0	1.0
>6.0		2.2	1.0	1.0	1.0

fluoranteen	%OC,bodem	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
<0.5		1.0	1.0	1.0	1.0
0.5-1.0		1.0	1.0	1.0	1.0
1.0-6.0		1.0	1.0	1.0	1.0
>6.0		2.2	1.0	1.0	1.0

indeno(123-cd)pyreen	%OC,bodem	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
	<0.5	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0
	1.0-6.0	1.0	1.0	1.0	1.0
	>6.0	1.0	1.0	1.0	1.0

c) $d_{vul} > 20$ m

benzo(a)pyreen	%OC,bodem	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
	<0.5	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0
	1.0-6.0	1.0	1.0	1.0	1.0
	>6.0	1.2	1.1	1.1	1.1

benzo(b)fluoranteen	%OC,bodem	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
	<0.5	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0
	1.0-6.0	1.0	1.0	1.0	1.0
	>6.0	1.1	1.0	1.0	1.0

benzo(ghi)peryleen	%OC,bodem	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
	<0.5	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0
	1.0-6.0	1.0	1.0	1.0	1.0
	>6.0	1.2	1.0	1.0	1.0

benzo(k)fluoranteen	%OC,bodem	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
	<0.5	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0
	1.0-6.0	1.0	1.0	1.0	1.0
	>6.0	1.2	1.0	1.0	1.0

fluoranteen	%OC,bodem	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
	<0.5	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0

1.0-6.0	1.0	1.0	1.0	1.0
>6.0	1.2	1.0	1.0	1.0

indeno(123-cd)pyreen	%OC,bodem	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
	<0.5	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0
	1.0-6.0	1.0	1.0	1.0	1.0
	>6.0	1.0	1.0	1.0	1.0

E3 Gechloreerde solventen

a) $d_{vul} \leq 10$ m

tetrachlooretheen	%OC,bodem	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
	<0.5	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0
	1.0-6.0	1.0	1.0	1.0	1.0
	>6.0	2.6	1.2	1.0	1.0

trichlooretheen	%OC,bodem	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
	<0.5	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0
	1.0-6.0	1.0	1.0	1.0	1.0
	>6.0	1.9	1.1	1.0	1.0

b) 10 m < $d_{vul} \leq 20$ m

tetrachlooretheen	%OC,bodem	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
	<0.5	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0
	1.0-6.0	1.0	1.0	1.0	1.0
	>6.0	1.6	1.0	1.0	1.0

trichlooretheen	%OC,bodem	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
	<0.5	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0

	1.0-6.0	1.0	1.0	1.0	1.0
	>6.0	1.2	1.0	1.0	1.0

c) $d_{vul} > 20$ m

tetrachlooretheen	%OC,bodem	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
	<0.5	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0
	1.0-6.0	1.0	1.0	1.0	1.0
	>6.0	1.0	1.0	1.0	1.0

trichlooretheen	%OC,bodem	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
	<0.5	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0
	1.0-6.0	1.0	1.0	1.0	1.0
	>6.0	1.0	1.0	1.0	1.0

E4 Cyanide

a) $d_{vul} \leq 10$ m

cyanide	%OC,bodem	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
	<0.5	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0
	1.0-6.0	1.1	1.0	1.0	1.0
	>6.0	2.7	1.2	1.0	1.0

b) $10 \text{ m} < d_{vul} \leq 20$ m

cyanide	%OC,bodem	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
	<0.5	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0
	1.0-6.0	1.0	1.0	1.0	1.0
	>6.0	1.9	1.0	1.0	1.0

c) $d_{vul} > 20$ m

cyanide	%OC,vul
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	%OC,bodem	<0.5	0.5-1.0	1.0-6.0	>6.0
	<0.5	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0
	1.0-6.0	1.0	1.0	1.0	1.0
	>6.0	1.1	1.0	1.0	1.0

E5 PCB's

a) $d_{vul} \leq 10$ m

PCB	%OC,bodem	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
	<0.5	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0
	1.0-6.0	1.1	1.0	1.0	1.0
	>6.0	4.3	1.2	1.0	1.0

b) $10 \text{ m} < d_{vul} \leq 20$ m

PCB	%OC,bodem	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
	<0.5	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0
	1.0-6.0	1.0	1.0	1.0	1.0
	>6.0	2.3	1.0	1.0	1.0

c) $d_{vul} > 20$ m

PCB	%OC,bodem	%OC,vul			
		<0.5	0.5-1.0	1.0-6.0	>6.0
	<0.5	1.0	1.0	1.0	1.0
	0.5-1.0	1.0	1.0	1.0	1.0
	1.0-6.0	1.0	1.0	1.0	1.0
	>6.0	1.2	1.0	1.0	1.0