

BERGEN KOMMUNE

**MILJØTEKNISKE GRUNNUNDERSØKELSER OG
RISIKOVURDERING VED SLETTEBAKKEN**

DEL-2, VEDLEGG

29.11.2006

INNHOOLD

- **Vedlegg 1. Koordinater, høyder med mer for overvåkingsbrønner ved Slettebakken**
- **Vedlegg 2. Analyserapporter fra Eurofins AS**
 - ✓ **Jordprøver**
 - ✓ **Sedimentprøver**
 - ✓ **Grunnvann/sigevann**
 - ✓ **Bekkevann**
- **Vedlegg 3. Utskrift av beregninger etter SFT 99:01 (alle prøver)**
- **Vedlegg 4. Utskrift av beregninger etter SFT 99:01 (overflateprøver)**

VEDLEGG 1

VEDLEGG 1. Koordinater og høyder for overvåkingsbrønner

Punkt	Tema	N-koord.	Ø-koord.	Terreng høyde (moh)	Høyde Rørtopp (moh)	Brønn dybde (m)	Filter lengde (m)	G.v. u/ rørtopp (m)
P0	Brønn	6695853,18	299258,824	68,84	69,138	3	1	0,43
P1A	Brønn	6696015,51	299274,134	69,132	70,556	9,99	1	2,12
P1B	Brønn	6696016,05	299272,635	69,16	70,504	5,49	2	2,62
P2	Brønn	6696113,94	299201,682	69,547	71,253	6,8	2	4,53
P3	Brønn	6696274,4	299168,139	70,188	71,794	7,5	1	5,29
P4	Brønn	6696270,43	299181,717	69,979	71,294	6,12	2	5,03
P5	Brønn	6696265,93	299200,365	70,093	71,436	13,8	Fjell brønn	4,19
P6	Brønn	6696257,58	299244,385	69,84	71,372	7,12	2	4,51
P7	Brønn	6696315,42	299170,336	69,285	70,657	6,1	1	4,27
P8	Brønn	6696340,12	299126,69	67,783	68,885	4,8	1	3,84
P9	Brønn	6696384,53	299146,724	65,928	67,123	5,08	1	3,21
P10	Boring	6696306,29	299225,7	70,031				
P11	Boring	6696395,64	299119,275	65,652				

- P0 er i ettertid fjernet grunnet byggearbeider (FYSAK)
- Brønndybde er oppgitt i meter under rørtopp
- Filter er satt fra bunn og 1 eller 2 meter oppover avhengig av filterlengde
- Oppgitt grunnvannsnivå (g. v. u/ rørtopp) er fra målinger 1. november 2006
- Høyde rørtopp er høyden på PEH-røret inne i foringsrøret

VEDLEGG 2

Asplan Viak AS, Trondheim
Postboks 6723
7031 Trondheim

Registrernr.: 358782
Kundenr.: 50929
Ordrenr.: 350646

Att.: Rolf E. Forbord

Referanse: 62290
Mott. dato: 2006.09.20

ANALYSERAPPORT

Side: 1 av 12

Rekvirent.....: Asplan Viak AS, Trondheim, Postboks 6723
7031 Trondheim
Prøvested.....: **Slettebakken**
Prøvetype.....: Jord
Prøvetaking.....: 2006.09.11 - 2006.09.15
Prøvetaker.....: Rolf E. Forbord/Olav Turøy
Kundeopplysninger:
Analyseperiode...: 2006.09.20 - 2006.10.04

Prøvenr.:	35878201				35878202				35878203				35878204				Deteks. grense	Metoder	RSD (%)
	Prøve ID:																		
Prøvemerkning:	P-1B				P-1B				P-1				P-2				Enheter		
Prøvedybde	0-1				2-4				3-5				0-1 m					*	
Totale hydrokarboner																			
C12-C16	26				24				<10				<10 mg/kg ts.				10	MK2001-GC/FID	12
C16-C35	670				1000				340				320 mg/kg ts.				25	MK2001-GC/FID	12
Sum (C12-C35)	690				1000				340				230 mg/kg ts.					MK2001-GC/FID	12
PAH- forbindelser																			
Naftalen	0.025				0.40				0.019				0.081 mg/kg ts.				0.0050	MK2004-GC/MS	12
Acenaftylen	0.012				0.13				<0.0050				0.046 mg/kg ts.				0.0050	MK2004-GC/MS	12
Acenaften	0.011				0.100				<0.0050				0.020 mg/kg ts.				0.0050	MK2004-GC/MS	12
Fluoren	0.029				0.13				<0.0050				0.041 mg/kg ts.				0.0050	MK2004-GC/MS	12
Fenantren	0.14				0.73				<0.0050				0.25 mg/kg ts.				0.0050	MK2004-GC/MS	12
Antracen	0.023				0.17				<0.0050				0.056 mg/kg ts.				0.0050	MK2004-GC/MS	12
Fluoranten	0.23				0.82				<0.0050				0.38 mg/kg ts.				0.0050	MK2004-GC/MS	12
Pyren	0.24				0.69				<0.0050				0.33 mg/kg ts.				0.0050	MK2004-GC/MS	12
Benzo(a)antracen	0.042				0.24				<0.0050				0.15 mg/kg ts.				0.0050	MK2004-GC/MS	12
Krysen/Trifenylen	0.10				0.28				<0.0050				0.15 mg/kg ts.				0.0050	MK2004-GC/MS	12
Benzo(b+j+k)fluoranten	0.18				0.56				<0.0050				0.45 mg/kg ts.				0.0050	MK2004-GC/MS	12
Benzo(a)pyren	0.059				0.26				<0.0050				0.20 mg/kg ts.				0.0050	MK2004-GC/MS	12
Indeno(1,2,3-cd)pyren	0.042				0.14				<0.0050				0.13 mg/kg ts.				0.0050	MK2004-GC/MS	12
Dibenzo(a,h)antracen	0.012				0.037				<0.0050				0.035 mg/kg ts.				0.0050	MK2004-GC/MS	12
Benzo(g,h,i)perylen	0.056				0.16				<0.0050				0.16 mg/kg ts.				0.0050	MK2004-GC/MS	12
Sum 16 PAH (16 EPA)	1.2				4.8				0.019				2.5 mg/kg ts.					MK2004-GC/MS	12
Polyklorete bifenyler (PCB)																			
PCB nr. 28	0.0057				<0.0050				<0.0050				<0.0050 mg/kg ts.				0.0050	MK2004-GC/MS	15
PCB nr. 52	0.018				<0.0050				<0.0050				<0.0050 mg/kg ts.				0.0050	MK2004-GC/MS	15
PCB nr. 101	0.035				<0.0050				<0.0050				<0.0050 mg/kg ts.				0.0050	MK2004-GC/MS	15
PCB nr. 118	0.021				<0.01				<0.0050				<0.0050 mg/kg ts.				0.0050	MK2004-GC/MS	15
PCB nr. 138	0.029				<0.02				<0.0050				<0.0050 mg/kg ts.				0.0050	MK2004-GC/MS	15
PCB nr. 153	0.028				0.011				<0.0050				0.0057 mg/kg ts.				0.0050	MK2004-GC/MS	15

*) Ikke omfattet af akkrediteringen.

Tegnforklaring:

RSD : Relativ Analyseusikkerhet.

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> : større enn. i.m.: ikke målbart.

: ingen av parametrene er påvist.

Prøveresultatene gjelder utelukkende for de(n) undersøkte prøven(e).

Rapporten må ikke gjengis, unntatt i sin helhet, uten prøvelaboratoriets skriftlige godkjenning.



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ANALYSERAPPORT

Side: 2 av 12

Rekvirent.....: Asplan Viak AS, Trondheim, Postboks 6723
7031 Trondheim
Prøvested.....: **Slettebakken**
Prøvetype.....: Jord
Prøvetaking.....: 2006.09.11 - 2006.09.15
Prøvetaker.....: Rolf E. Forbord/Olav Turøy
Kundeopplysninger:
Analyseperiode...: 2006.09.20 - 2006.10.04

Prøvenr.:	35878201	35878202	35878203	35878204		Deteks.		RSD
Prøve ID:						grense	Metoder	(%)
Prøvemerkning:	P-1B	P-1B	P-1	P-2	Enheter			
PCB nr. 180	0.018	0.0071	<0.0050	0.0053	mg/kg ts.	0.0050	MK2004-GC/MS	15
Sum 7 PCB	0.15	0.018	#	0.011	mg/kg ts.		MK2004-GC/MS	15

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ANALYSERAPPORT

Side: 3 av 12

Rekvirent.....: Asplan Viak AS, Trondheim, Postboks 6723
7031 Trondheim
Prøvested.....: **Slettebakken**
Prøvetype.....: Jord
Prøvetaking.....: 2006.09.11 - 2006.09.15
Prøvetaker.....: Rolf E. Forbord/Olav Turøy
Kundeopplysninger:
Analyseperiode...: 2006.09.20 - 2006.10.04

Prøvenr.:	35878205	35878206	35878207	35878208		Deteks.		RSD
Prøve ID:						grense	Metoder	(%)
Prøvemerkning:	P-2	P-2	P-3	P-3	Enheter			
Prøvedybde	1-3	3-5	0-1	2-3	m		*	
Totale hydrokarboner								
C12-C16	<10	<10	13	<10	mg/kg ts.	10	MK2001-GC/FID	12
C16-C35	350	200	510	39	mg/kg ts.	25	MK2001-GC/FID	12
Sum (C12-C35)	350	200	520	39	mg/kg ts.		MK2001-GC/FID	12
PAH- forbindelser								
Naftalen	0.022	0.037	0.13	0.011	mg/kg ts.	0.0050	MK2004-GC/MS	12
Acenaftylen	0.011	0.010	0.045	0.064	mg/kg ts.	0.0050	MK2004-GC/MS	12
Acenaften	<0.0050	0.011	0.077	0.46	mg/kg ts.	0.0050	MK2004-GC/MS	12
Fluoren	0.0075	0.017	0.13	0.42	mg/kg ts.	0.0050	MK2004-GC/MS	12
Fenantren	0.075	0.073	0.50	2.8	mg/kg ts.	0.0050	MK2004-GC/MS	12
Antracen	0.026	0.018	0.11	1.1	mg/kg ts.	0.0050	MK2004-GC/MS	12
Fluoranten	0.17	0.12	1.0	6.5	mg/kg ts.	0.0050	MK2004-GC/MS	12
Pyren	0.17	0.12	0.98	4.9	mg/kg ts.	0.0050	MK2004-GC/MS	12
Benzo(a)antracen	0.080	0.047	0.44	2.0	mg/kg ts.	0.0050	MK2004-GC/MS	12
Krysen/Trifenylen	0.10	0.077	0.63	1.9	mg/kg ts.	0.0050	MK2004-GC/MS	12
Benzo(b+j+k)fluoranten	0.25	0.18	1.4	3.8	mg/kg ts.	0.0050	MK2004-GC/MS	12
Benzo(a)pyren	0.11	0.056	0.54	2.0	mg/kg ts.	0.0050	MK2004-GC/MS	12
Indeno(1,2,3-cd)pyren	0.070	0.050	0.36	0.93	mg/kg ts.	0.0050	MK2004-GC/MS	12
Dibenzo(a,h)antracen	0.021	0.014	0.099	0.26	mg/kg ts.	0.0050	MK2004-GC/MS	12
Benzo(g,h,i)perylen	0.095	0.061	0.42	0.98	mg/kg ts.	0.0050	MK2004-GC/MS	12
Sum 16 PAH (16 EPA)	1.2	0.90	6.9	28	mg/kg ts.		MK2004-GC/MS	12
Polyklorete bifenyler (PCB)								
PCB nr. 28	<0.0050	<0.0050	<0.0050	<0.0050	mg/kg ts.	0.0050	MK2004-GC/MS	15
PCB nr. 52	<0.0050	<0.0050	<0.0050	<0.0050	mg/kg ts.	0.0050	MK2004-GC/MS	15
PCB nr. 101	0.0069	<0.0050	<0.0050	<0.0050	mg/kg ts.	0.0050	MK2004-GC/MS	15
PCB nr. 118	<0.0050	<0.0050	<0.0050	<0.0050	mg/kg ts.	0.0050	MK2004-GC/MS	15
PCB nr. 138	0.0088	<0.0050	0.021	<0.0050	mg/kg ts.	0.0050	MK2004-GC/MS	15
PCB nr. 153	0.0088	<0.0050	0.026	<0.0050	mg/kg ts.	0.0050	MK2004-GC/MS	15

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ANALYSERAPPORT

Side: 4 av 12

Rekvirent.....: Asplan Viak AS, Trondheim, Postboks 6723
7031 Trondheim
Prøvested.....: **Slettebakken**
Prøvetype.....: Jord
Prøvetaking.....: 2006.09.11 - 2006.09.15
Prøvetaker.....: Rolf E. Forbord/Olav Turøy
Kundeopplysninger:
Analyseperiode...: 2006.09.20 - 2006.10.04

	Prøvenr.: 35878205	35878206	35878207	35878208		Deteks.		RSD
	Prøve ID:					grense	Metoder	(%)
	Prøvemerkning:	P-2	P-2	P-3	P-3 Enheter			
PCB nr. 180		0.0059	<0.0050	0.022	<0.0050 mg/kg ts.	0.0050	MK2004-GC/MS	15
Sum 7 PCB		0.030	#	0.068	# mg/kg ts.		MK2004-GC/MS	15

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Registrernr.: 358782
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ANALYSERAPPORT

Side: 5 av 12

Rekvirent.....: Asplan Viak AS, Trondheim, Postboks 6723
7031 Trondheim
Prøvested.....: **Slettebakken**
Prøvetype.....: Jord
Prøvetaking.....: 2006.09.11 - 2006.09.15
Prøvetaker.....: Rolf E. Forbord/Olav Turøy
Kundeopplysninger:
Analyseperiode...: 2006.09.20 - 2006.10.04

Prøvenr.:	35878209	35878210	35878211	35878212		Deteks.		RSD
Prøve ID:						grense	Metoder	(%)
Prøvemerkning:	P-3	P-4	P-4	P-4	Enheter			
Prøvedybde	3-5	0-1	1-3	3-4.8	m		*	
Totale hydrokarboner								
C12-C16	<10	<10	<10	<10	mg/kg ts.	10	MK2001-GC/FID	12
C16-C35	320	59	420	180	mg/kg ts.	25	MK2001-GC/FID	12
Sum (C12-C35)	320	59	420	180	mg/kg ts.		MK2001-GC/FID	12
PAH- forbindelser								
Naftalen	0.17	0.012	0.088	0.030	mg/kg ts.	0.0050	MK2004-GC/MS	12
Acenaftylen	0.018	0.018	0.026	0.035	mg/kg ts.	0.0050	MK2004-GC/MS	12
Acenaften	0.039	0.0097	0.41	0.067	mg/kg ts.	0.0050	MK2004-GC/MS	12
Fluoren	0.064	0.013	0.48	0.086	mg/kg ts.	0.0050	MK2004-GC/MS	12
Fenantren	0.22	0.16	4.8	0.74	mg/kg ts.	0.0050	MK2004-GC/MS	12
Antracen	0.042	0.042	1.4	0.25	mg/kg ts.	0.0050	MK2004-GC/MS	12
Fluoranten	0.37	0.30	6.2	1.3	mg/kg ts.	0.0050	MK2004-GC/MS	12
Pyren	0.35	0.25	4.9	1.1	mg/kg ts.	0.0050	MK2004-GC/MS	12
Benzo(a)antracen	0.16	0.14	2.8	0.61	mg/kg ts.	0.0050	MK2004-GC/MS	12
Krysen/Trifenylen	0.20	0.19	2.7	0.66	mg/kg ts.	0.0050	MK2004-GC/MS	12
Benzo(b+j+k)fluoranten	0.51	0.98	5.7	1.4	mg/kg ts.	0.0050	MK2004-GC/MS	12
Benzo(a)pyren	0.20	0.63	2.9	0.65	mg/kg ts.	0.0050	MK2004-GC/MS	12
Indeno(1,2,3-cd)pyren	0.13	0.53	1.3	0.36	mg/kg ts.	0.0050	MK2004-GC/MS	12
Dibenzo(a,h)antracen	0.038	0.14	0.45	0.11	mg/kg ts.	0.0050	MK2004-GC/MS	12
Benzo(g,h,i)perylen	0.15	0.59	1.4	0.39	mg/kg ts.	0.0050	MK2004-GC/MS	12
Sum 16 PAH (16 EPA)	2.7	4.0	35	7.8	mg/kg ts.		MK2004-GC/MS	12
Polyklorete bifenyler (PCB)								
PCB nr. 28	<0.0050	<0.0050	<0.0050	<0.0050	mg/kg ts.	0.0050	MK2004-GC/MS	15
PCB nr. 52	<0.0050	<0.0050	<0.0050	<0.0050	mg/kg ts.	0.0050	MK2004-GC/MS	15
PCB nr. 101	0.0076	<0.0050	<0.0050	<0.0050	mg/kg ts.	0.0050	MK2004-GC/MS	15
PCB nr. 118	<0.0050	<0.0050	<0.0050	<0.0050	mg/kg ts.	0.0050	MK2004-GC/MS	15
PCB nr. 138	0.011	<0.0050	<0.0050	<0.0050	mg/kg ts.	0.0050	MK2004-GC/MS	15
PCB nr. 153	0.012	<0.0050	<0.0050	<0.0050	mg/kg ts.	0.0050	MK2004-GC/MS	15

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Referanse: 62290
Mott. dato: 2006.09.20

ANALYSERAPPORT

Side: 6 av 12

Rekvirent.....: Asplan Viak AS, Trondheim, Postboks 6723
7031 Trondheim
Prøvested.....: **Slettebakken**
Prøvetype.....: Jord
Prøvetaking.....: 2006.09.11 - 2006.09.15
Prøvetaker.....: Rolf E. Forbord/Olav Turøy
Kundeopplysninger:
Analyseperiode...: 2006.09.20 - 2006.10.04

	Prøvenr.:				Enheter	Deteks. grense	Metoder	RSD (%)
	35878209	35878210	35878211	35878212				
Prøve ID:								
Prøvemerkning:	P-3	P-4	P-4	P-4				
PCB nr. 180	0.0091	<0.0050	<0.0050	<0.0050	mg/kg ts.	0.0050	MK2004-GC/MS	15
Sum 7 PCB	0.040	#	#	#	mg/kg ts.		MK2004-GC/MS	15

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ANALYSERAPPORT

Side: 7 av 12

Rekvirent.....: Asplan Viak AS, Trondheim, Postboks 6723
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Prøvested.....: **Slettebakken**
Prøvetype.....: Jord
Prøvetaking.....: 2006.09.11 - 2006.09.15
Prøvetaker.....: Rolf E. Forbord/Olav Turøy
Kundeopplysninger:
Analyseperiode...: 2006.09.20 - 2006.10.04

Prøvenr.:	35878213	35878214	35878215	35878216		Deteks.		RSD
Prøve ID:						grense	Metoder	(%)
Prøvemerkning:	P-5	P-5	P-6	P-6	Enheter			
Prøvedybde	0-1	1-2	0-1	1-3	m		*	
Totale hydrokarboner								
C12-C16	<10	<10	<10	<10	mg/kg ts.	10	MK2001-GC/FID	12
C16-C35	58	310	85	200	mg/kg ts.	25	MK2001-GC/FID	12
Sum (C12-C35)	58	310	85	200	mg/kg ts.		MK2001-GC/FID	12
PAH- forbindelser								
Naftalen	0.015	0.068	<0.0050	0.065	mg/kg ts.	0.0050	MK2004-GC/MS	12
Acenaftylen	0.0099	0.026	0.0078	0.15	mg/kg ts.	0.0050	MK2004-GC/MS	12
Acenaften	<0.0050	0.028	<0.0050	0.048	mg/kg ts.	0.0050	MK2004-GC/MS	12
Fluoren	<0.0050	0.052	<0.0050	0.12	mg/kg ts.	0.0050	MK2004-GC/MS	12
Fenantren	0.065	0.30	0.016	1.1	mg/kg ts.	0.0050	MK2004-GC/MS	12
Antracen	0.021	0.088	0.0061	0.14	mg/kg ts.	0.0050	MK2004-GC/MS	12
Fluoranten	0.24	0.94	0.089	1.6	mg/kg ts.	0.0050	MK2004-GC/MS	12
Pyren	0.20	0.75	0.075	1.1	mg/kg ts.	0.0050	MK2004-GC/MS	12
Benzo(a)antracen	0.093	0.38	0.040	0.45	mg/kg ts.	0.0050	MK2004-GC/MS	12
Krysen/Trifenylen	0.12	0.48	0.054	0.64	mg/kg ts.	0.0050	MK2004-GC/MS	12
Benzo(b+j+k)fluoranten	0.30	1.0	0.15	1.3	mg/kg ts.	0.0050	MK2004-GC/MS	12
Benzo(a)pyren	0.14	0.48	0.060	0.58	mg/kg ts.	0.0050	MK2004-GC/MS	12
Indeno(1,2,3-cd)pyren	0.089	0.26	0.043	0.33	mg/kg ts.	0.0050	MK2004-GC/MS	12
Dibenzo(a,h)antracen	0.025	0.087	0.015	0.094	mg/kg ts.	0.0050	MK2004-GC/MS	12
Benzo(g,h,i)perylen	0.11	0.29	0.045	0.35	mg/kg ts.	0.0050	MK2004-GC/MS	12
Sum 16 PAH (16 EPA)	1.4	5.3	0.60	8.1	mg/kg ts.		MK2004-GC/MS	12
Polyklorete bifenyler (PCB)								
PCB nr. 28	<0.0050	<0.0050	<0.0050	<0.0050	mg/kg ts.	0.0050	MK2004-GC/MS	15
PCB nr. 52	<0.0050	<0.0050	<0.0050	<0.0050	mg/kg ts.	0.0050	MK2004-GC/MS	15
PCB nr. 101	<0.0050	<0.0050	<0.0050	<0.0050	mg/kg ts.	0.0050	MK2004-GC/MS	15
PCB nr. 118	<0.0050	<0.0050	<0.0050	<0.0050	mg/kg ts.	0.0050	MK2004-GC/MS	15
PCB nr. 138	<0.0050	<0.0050	<0.0050	<0.0050	mg/kg ts.	0.0050	MK2004-GC/MS	15
PCB nr. 153	<0.0050	0.0051	<0.0050	<0.0050	mg/kg ts.	0.0050	MK2004-GC/MS	15

*) Ikke omfattet af akkrediteringen.

Tegnforklaring:

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: ingen av parametrene er påvist.

Prøveresultatene gjelder utelukkende for de(n) undersøkte prøven(e).

Rapporten må ikke gjengis, unntatt i sin helhet, uten prøvelaboratoriets skriftlige godkjenning.



Asplan Viak AS, Trondheim
Postboks 6723
7031 Trondheim

Registrernr.: 358782
Kundenr.: 50929
Ordrenr.: 350646

Att.: Rolf E. Forbord

Referanse: 62290
Mott. dato: 2006.09.20

ANALYSERAPPORT

Side: 8 av 12

Rekvirent.....: Asplan Viak AS, Trondheim, Postboks 6723
7031 Trondheim
Prøvested.....: **Slettebakken**
Prøvetype.....: Jord
Prøvetaking.....: 2006.09.11 - 2006.09.15
Prøvetaker.....: Rolf E. Forbord/Olav Turøy
Kundeopplysninger:
Analyseperiode...: 2006.09.20 - 2006.10.04

Prøvenr.:	35878213	35878214	35878215	35878216		Deteks.		RSD
Prøve ID:						grense	Metoder	(%)
Prøvemerkning:	P-5	P-5	P-6	P-6	Enheter			
PCB nr. 180	<0.0050	0.0076	<0.0050	<0.0050	mg/kg ts.	0.0050	MK2004-GC/MS	15
Sum 7 PCB	#	0.013	#	#	mg/kg ts.		MK2004-GC/MS	15

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Prøveresultatene gjelder utelukkende for de(n) undersøkte prøven(e).

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Asplan Viak AS, Trondheim
Postboks 6723
7031 Trondheim

Registrernr.: 358782
Kundenr.: 50929
Ordrenr.: 350646

Att.: Rolf E. Forbord

Referanse: 62290
Mott. dato: 2006.09.20

ANALYSERAPPORT

Side: 9 av 12

Rekvirent.....: Asplan Viak AS, Trondheim, Postboks 6723
7031 Trondheim
Prøvested.....: **Slettebakken**
Prøvetype.....: Jord
Prøvetaking.....: 2006.09.11 - 2006.09.15
Prøvetaker.....: Rolf E. Forbord/Olav Turøy
Kundeopplysninger:
Analyseperiode...: 2006.09.20 - 2006.10.04

Prøvenr.:	35878217	35878218	35878219	35878220		Deteks.	RSD
Prøve ID:						grense	(%)
Prøvemerkning:	P-6	P-7	P-8	P-8	Enheter	Metoder	
Prøvedybde	3-5	1-3	1-3	3-4	m	*	
Totale hydrokarboner							
C12-C16	<10	<10	<10	<10	mg/kg ts.	10 MK2001-GC/FID	12
C16-C35	100	86	49	43	mg/kg ts.	25 MK2001-GC/FID	12
Sum (C12-C35)	100	86	49	43	mg/kg ts.	MK2001-GC/FID	12
PAH- forbindelser							
Naftalen	0.022	0.035	<0.0050	<0.0050	mg/kg ts.	0.0050 MK2004-GC/MS	12
Acenaftylen	0.017	0.016	<0.0050	<0.0050	mg/kg ts.	0.0050 MK2004-GC/MS	12
Acenaften	0.0064	<0.0050	<0.0050	<0.0050	mg/kg ts.	0.0050 MK2004-GC/MS	12
Fluoren	0.012	0.0056	<0.0050	<0.0050	mg/kg ts.	0.0050 MK2004-GC/MS	12
Fenantren	0.085	0.080	<0.0050	0.034	mg/kg ts.	0.0050 MK2004-GC/MS	12
Antracen	0.022	0.023	<0.0050	0.0077	mg/kg ts.	0.0050 MK2004-GC/MS	12
Fluoranten	0.20	0.21	0.012	0.054	mg/kg ts.	0.0050 MK2004-GC/MS	12
Pyren	0.17	0.20	0.0094	0.044	mg/kg ts.	0.0050 MK2004-GC/MS	12
Benzo(a)antracen	0.092	0.10	<0.0050	0.023	mg/kg ts.	0.0050 MK2004-GC/MS	12
Krysen/Trifenylen	0.11	0.14	0.0091	0.025	mg/kg ts.	0.0050 MK2004-GC/MS	12
Benzo(b+j+k)fluoranten	0.28	0.33	0.026	0.060	mg/kg ts.	0.0050 MK2004-GC/MS	12
Benzo(a)pyren	0.11	0.14	0.0060	0.025	mg/kg ts.	0.0050 MK2004-GC/MS	12
Indeno(1,2,3-cd)pyren	0.074	0.10	0.0063	0.016	mg/kg ts.	0.0050 MK2004-GC/MS	12
Dibenzo(a,h)antracen	0.022	0.031	<0.0050	0.0053	mg/kg ts.	0.0050 MK2004-GC/MS	12
Benzo(g,h,i)perylen	0.084	0.13	0.0070	0.019	mg/kg ts.	0.0050 MK2004-GC/MS	12
Sum 16 PAH (16 EPA)	1.3	1.5	0.076	0.31	mg/kg ts.	MK2004-GC/MS	12
Polyklorete bifenyler (PCB)							
PCB nr. 28	<0.0050	<0.0050	<0.0050	<0.0050	mg/kg ts.	0.0050 MK2004-GC/MS	15
PCB nr. 52	<0.0050	<0.0050	<0.0050	<0.0050	mg/kg ts.	0.0050 MK2004-GC/MS	15
PCB nr. 101	<0.0050	<0.0050	<0.0050	<0.0050	mg/kg ts.	0.0050 MK2004-GC/MS	15
PCB nr. 118	<0.0050	<0.0050	<0.0050	<0.0050	mg/kg ts.	0.0050 MK2004-GC/MS	15
PCB nr. 138	<0.0050	<0.0050	<0.0050	<0.0050	mg/kg ts.	0.0050 MK2004-GC/MS	15
PCB nr. 153	<0.0050	<0.0050	<0.0050	<0.0050	mg/kg ts.	0.0050 MK2004-GC/MS	15

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Postboks 6723
7031 Trondheim

Registrernr.: 358782
Kundenr.: 50929
Ordrenr.: 350646

Att.: Rolf E. Forbord

Referanse: 62290
Mott. dato: 2006.09.20

ANALYSERAPPORT

Side: 10 av 12

Rekvirent.....: Asplan Viak AS, Trondheim, Postboks 6723
7031 Trondheim
Prøvested.....: **Slettebakken**
Prøvetype.....: Jord
Prøvetaking.....: 2006.09.11 - 2006.09.15
Prøvetaker.....: Rolf E. Forbord/Olav Turøy
Kundeopplysninger:
Analyseperiode...: 2006.09.20 - 2006.10.04

Prøvenr.:	35878217	35878218	35878219	35878220		Deteks.		RSD
Prøve ID:						grense	Metoder	(%)
Prøvemerkning:	P-6	P-7	P-8	P-8	Enheter			
PCB nr. 180	<0.0050	<0.0050	<0.0050	<0.0050	mg/kg ts.	0.0050	MK2004-GC/MS	15
Sum 7 PCB	#	#	#	#	mg/kg ts.		MK2004-GC/MS	15

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Postboks 6723
7031 Trondheim

Registrernr.: 358782
Kundenr.: 50929
Ordrenr.: 350646

Att.: Rolf E. Forbord

Referanse: 62290
Mott. dato: 2006.09.20

ANALYSERAPPORT

Side: 11 av 12

Rekvirent.....: Asplan Viak AS, Trondheim, Postboks 6723
7031 Trondheim
Prøvested.....: **Slettebakken**
Prøvetype.....: Jord
Prøvetaking.....: 2006.09.11 - 2006.09.15
Prøvetaker.....: Rolf E. Forbord/Olav Turøy
Kundeopplysninger:
Analyseperiode...: 2006.09.20 - 2006.10.04

Prøvenr.:	35878221	35878222	35878223				
Prøve ID:				Deteks.		RSD	
Prøvemerkning:	P-10	P-10	P-10	Enheter	grense	Metoder	(%)
Prøvedybde	0-1	1-3	3-4 m		*		
Totale hydrokarboner							
C12-C16	<10	<10	<10 mg/kg ts.	10	MK2001-GC/FID	12	
C16-C35	<25	<25	<25 mg/kg ts.	25	MK2001-GC/FID	12	
Sum (C12-C35)	#	#	# mg/kg ts.		MK2001-GC/FID	12	
PAH- forbindelser							
Naftalen	0.068	<0.0050	<0.0050 mg/kg ts.	0.0050	MK2004-GC/MS	12	
Acenaftylen	0.0059	<0.0050	<0.0050 mg/kg ts.	0.0050	MK2004-GC/MS	12	
Acenaften	0.0065	<0.0050	<0.0050 mg/kg ts.	0.0050	MK2004-GC/MS	12	
Fluoren	0.0068	<0.0050	<0.0050 mg/kg ts.	0.0050	MK2004-GC/MS	12	
Fenantren	0.068	0.0071	0.0068 mg/kg ts.	0.0050	MK2004-GC/MS	12	
Antracen	0.013	<0.0050	<0.0050 mg/kg ts.	0.0050	MK2004-GC/MS	12	
Fluoranten	0.057	0.020	0.013 mg/kg ts.	0.0050	MK2004-GC/MS	12	
Pyren	0.048	0.015	0.011 mg/kg ts.	0.0050	MK2004-GC/MS	12	
Benzo(a)antracen	0.024	0.0061	<0.0050 mg/kg ts.	0.0050	MK2004-GC/MS	12	
Krysen/Trifenylen	0.029	0.0070	0.0074 mg/kg ts.	0.0050	MK2004-GC/MS	12	
Benzo(b+j+k)fluoranten	0.063	0.023	0.022 mg/kg ts.	0.0050	MK2004-GC/MS	12	
Benzo(a)pyren	0.030	0.0075	<0.0050 mg/kg ts.	0.0050	MK2004-GC/MS	12	
Indeno(1,2,3-cd)pyren	0.016	0.0055	<0.0050 mg/kg ts.	0.0050	MK2004-GC/MS	12	
Dibenzo(a,h)antracen	0.0062	<0.0050	<0.0050 mg/kg ts.	0.0050	MK2004-GC/MS	12	
Benzo(g,h,i)perylen	0.020	0.0054	0.0058 mg/kg ts.	0.0050	MK2004-GC/MS	12	
Sum 16 PAH (16 EPA)	0.46	0.096	0.067 mg/kg ts.		MK2004-GC/MS	12	
Polyklorete bifenyler (PCB)							
PCB nr. 28	<0.0050	<0.0050	<0.0050 mg/kg ts.	0.0050	MK2004-GC/MS	15	
PCB nr. 52	<0.0050	<0.0050	<0.0050 mg/kg ts.	0.0050	MK2004-GC/MS	15	
PCB nr. 101	<0.0050	<0.0050	<0.0050 mg/kg ts.	0.0050	MK2004-GC/MS	15	
PCB nr. 118	<0.0050	<0.0050	<0.0050 mg/kg ts.	0.0050	MK2004-GC/MS	15	
PCB nr. 138	<0.0050	<0.0050	<0.0050 mg/kg ts.	0.0050	MK2004-GC/MS	15	
PCB nr. 153	<0.0050	<0.0050	<0.0050 mg/kg ts.	0.0050	MK2004-GC/MS	15	

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: ingen av parametrene er påvist.

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Asplan Viak AS, Trondheim
Postboks 6723
7031 Trondheim

Registrernr.: 358782
Kundenr.: 50929
Ordrenr.: 350646

Att.: Rolf E. Forbord

Referanse: 62290
Mott. dato: 2006.09.20

ANALYSERAPPORT

Side: 12 av 12

Rekvirent.....: Asplan Viak AS, Trondheim, Postboks 6723
7031 Trondheim
Prøvested.....: **Slettebakken**
Prøvetype.....: Jord
Prøvetaking.....: 2006.09.11 - 2006.09.15
Prøvetaker.....: Rolf E. Forbord/Olav Turøy
Kundeopplysninger:
Analyseperiode...: 2006.09.20 - 2006.10.04

Prøvenr.:	35878221	35878222	35878223		Deteks.		RSD
Prøve ID:					grense	Metoder	(%)
Prøvemerkning:	P-10	P-10	P-10	Enheter			
PCB nr. 180	<0.0050	<0.0050	<0.0050	mg/kg ts.	0.0050	MK2004-GC/MS	15
Sum 7 PCB	#	#	#	mg/kg ts.		MK2004-GC/MS	15

Analysekommentarer:

Deteksjonsgrensen for PCB nr. 118 og PCB nr. 138 for prøven merket "P-1B, 0-1m" er hevet pga interferens.

Vedlegg: Analyserapport fra Eurofins Analytico.

Kopi av rapport er sendt til:

- Bergen kommune, Byutvikling, Grønn etat, Postboks 7700, 5020 Bergen, Norge

Tegnforklaring:

RSD : Relativ Analyseusikkerhet.

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Solveig Fagerli

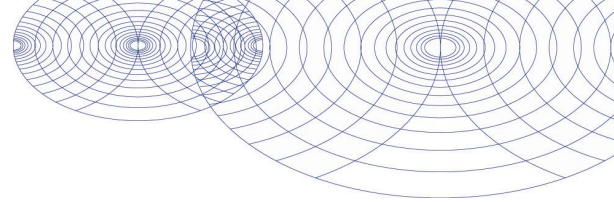
Kontaktperson

Prøveresultatene gjelder utelukkende for de(n) undersøkte prøven(e).

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04. oktober 2006


Solveig Fagerli
Kvalitetssikring



Eurofins Norge
Attention Anette Krona
Niels Hansen Vei 13
N-0667 OSLO
NORWAY

Certificate of analysis

Date: 10-02-2006

Please find enclosed the analytical results of the following analysis.

Certificate number	2006081734
Your project number	358782
Your project name	Slettebakken
Your order number	
Samples received on	09-21-2006

This Certificate of Analysis may only be used in its entirety.
Additional information concerning this Certificate of Analysis can be found in the Analytico document 'Specifications of Methods of Analysis'. Copies are available from our Customer Service department.

Soil samples will be stored under controlled conditions for a period of 6 weeks and water samples for a period of 2 weeks after receipt of the samples at our laboratory. Without any additional request, samples will be disposed when the above periods have expired. If you require Analytico to store the samples for a longer period, please complete this page and return it to Analytico at least one week before the period is due to expire. The costs of prolonged storage periods may be found in our fees overview.

Storage period:

Date:

Name:

Signature:

We trust that we have performed the order in accordance with your expectations. If you have any remaining questions concerning this Certificate of Analysis, please don't hesitate to contact our Customer Service.

Yours sincerely,

Analytico Milieu B.V.



Ing. A. Veldhuizen
Laboratory Manager

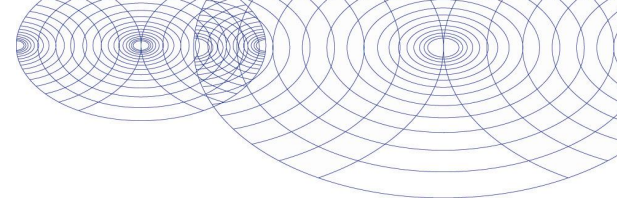
Analytico Milieu B.V.

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KvK No. 09088623

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Certificate of analysis

Your project number	358782	Certificate number	2006081734
Your project name	Slettebakken	Start date	09-21-2006
Your order number		Report date	10-02-2006/16:15
Date sampling	09-15-2006	Enclosure	A, B, C
Sampled by	Rolf E. Forbord/Olav Turøy	Page	1/10

Analysis	Unit	1	2	3	4	5
Characteristics						
Q Dry matter	% (w/w)	71.4			71.2	67.3
Q Dry matter	% (w/w)		39.0	19.5		
Q Loss on ignition	% (w/w) dw	15.3	23.9	74.8	17.5	22.3
Q Residue on ignition	% (w/w) dw	84.7	76.1	25.2	82.5	77.7
Q Organic matter	% (w/w) dw	15.0 ¹⁾	23.6 ²⁾	74.4 ³⁾	17.1 ⁴⁾	22.0 ⁵⁾
Q Residue on ignition	% (w/w) dw	84.7	76.1	25.2	82.5	77.7
Elements						
Q Arsenic (As)	mg/kg dw	13	28	14	11	35
Q Cadmium (Cd)	mg/kg dw	1.7	3.0	1.0	1.6	2.2
Q Chromium (Cr)	mg/kg dw	89	61	31	48	82
Q Copper (Cu)	mg/kg dw	260	1700	300	530	1600
Q Mercury (Hg)	mg/kg dw	1.3	0.95	0.35	0.84	1.3
Q Nickel (Ni)	mg/kg dw	47	63	31	42	74
Q Lead (Pb)	mg/kg dw	190	240	91	230	280
Q Zinc (Zn)	mg/kg dw	1500	1600	850	1200	2400
Mono Aromatic Hydrocarbons						
Q Benzene	mg/kg dw	<0.050	<0.050	<0.050	<0.050	<0.050
Q Toluene	mg/kg dw	<0.050	<0.050	<0.050	<0.050	<0.050
Q Ethylbenzene	mg/kg dw	<0.050	<0.050	<0.050	<0.050	<0.050
Q o-Xylene	mg/kg dw	<0.050	<0.050	<0.050	<0.050	<0.050
Q m,p-Xylene	mg/kg dw	<0.050	0.060	<0.050	<0.050	<0.050
Q Xylenes (sum)	mg/kg dw	--	0.060	--	--	--
Q BTEX (sum)	mg/kg dw	--	0.060	--	--	--
Volatile chlorinated Hydrocarbons						
Q Dichloromethane	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q Trichloromethane	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q Trichloroethene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q Tetrachloroethene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,2-Dichloroethane	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,1,1-Trichloroethane	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
TPH volatile						
Q TPH volatile MeC5 - C8	mg/kg dw	--	<0.60	--	--	--
Q TPH volatile >C8 - C10	mg/kg dw	--	1.1	--	--	--
Q TPH volatile >C10 - C12	mg/kg dw	--	3.4	--	--	--

No. Sample description

1	P-1B, 0-1m (358782-01)
2	P-1B, 2-4m (358782-02)
3	P-1, 3-5m (358782-03)
4	P-2, 0-1m (358782-04)
5	P-2, 1-3m (358782-05)

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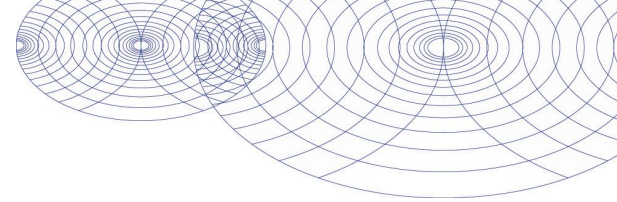
Gildeweg 44-46
3771 NB Barneveld
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3770 AL Barneveld NL

Tel. +31 (0)34 242 63 00
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Certificate of analysis

Your project number	358782	Certificate number	2006081734
Your project name	Slettebakken	Start date	09-21-2006
Your order number		Report date	10-02-2006/16:15
Date sampling	09-15-2006	Enclosure	A, B, C
Sampled by	Rolf E. Forbord/Olav Turøy	Page	2/10

Analysis	Unit	1	2	3	4	5
Q TPH volatile (SUM MeC5 - C12)	mg/kg dw	<2.0	4.6	<2.0	<2.0	<2.0
Q TPH volatile (SUM MeC5 - C10)	mg/kg dw	<1.2	<1.2	1.6	<1.2	<1.2
Organic Chlorinated Pesticides						
Q gamma-HCH	mg/kg dw	<0.0010	<0.0010	<0.0050 ²⁴⁾	<0.0010	<0.0010
Q p,p -DDT	mg/kg dw	<0.0010	<0.0010	0.0091 ³²⁾	<0.0010	<0.0010
Q o,p -DDT	mg/kg dw	<0.0010	<0.0010	<0.0050 ²⁸⁾	<0.0010	<0.0010
Chlorobenzenes						
Q Monochlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,2-Dichlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,3-Dichlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,4-Dichlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,2,3-Trichlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,2,4-Trichlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,3,5-Trichlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1245&1235 Tetrachlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,2,3,4-Tetrachlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q Pentachlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q Hexachlorobenzene	mg/kg dw	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Q Dichlorobenzenes (sum)	mg/kg dw	--	--	--	--	--
Q Trichlorobenzenes (sum)	mg/kg dw	--	--	--	--	--
Q Tetrachlorobenzenes (sum)	mg/kg dw	--	--	--	--	--
Q Chlorobenzenes (sum 12)	mg/kg dw	--	--	--	--	--
Q Pentachlorophenol	mg/kg dw	0.002	0.003	<0.001	0.001	0.002
Cyanides						
Q Cyanides free	mg/kg dw	<1.0	<1.0	1.5	<1.0	<1.0

No. Sample description

1	P-1B, 0-1m (358782-01)
2	P-1B, 2-4m (358782-02)
3	P-1, 3-5m (358782-03)
4	P-2, 0-1m (358782-04)
5	P-2, 1-3m (358782-05)

Analytico-#

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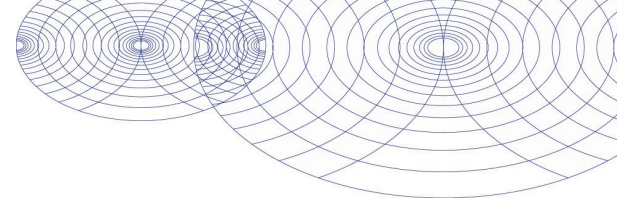
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VAT/BTW No.
NL 8043.14.883.B01
KvK No. 09088623

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Certificate of analysis

Your project number	358782	Certificate number	2006081734
Your project name	Slettebakken	Start date	09-21-2006
Your order number		Report date	10-02-2006/16:15
Date sampling	09-15-2006	Enclosure	A, B, C
Sampled by	Rolf E. Forbord/Olav Turøy	Page	3/10

Analysis	Unit	6	7	8	9	10
Characteristics						
Q Dry matter	% (w/w)	76.1	86.9	70.2	57.1	84.0
Q Loss on ignition	% (w/w) dw	18.5	5.3	24.1	21.7	5.8
Q Residue on ignition	% (w/w) dw	81.5	94.7	75.9	78.3	94.2
Q Organic matter	% (w/w) dw	18.1 ⁶⁾	4.9 ⁷⁾	23.7 ⁸⁾	21.3 ⁹⁾	5.4 ¹⁰⁾
Q Residue on ignition	% (w/w) dw	81.5	94.7	75.9	78.3	94.2
Elements						
Q Arsenic (As)	mg/kg dw	11	25	<3	17	<3
Q Cadmium (Cd)	mg/kg dw	1.2	5.7	<0.3	2.9	<0.3
Q Chromium (Cr)	mg/kg dw	43	130	71	93	20
Q Copper (Cu)	mg/kg dw	330	1600	69	680	88
Q Mercury (Hg)	mg/kg dw	0.62	4.6	0.18	3.2	0.19
Q Nickel (Ni)	mg/kg dw	46	89	41	60	19
Q Lead (Pb)	mg/kg dw	76	1000	40	360	55
Q Zinc (Zn)	mg/kg dw	1000	4400	210	3100	260
Mono Aromatic Hydrocarbons						
Q Benzene	mg/kg dw	<0.050	<0.050	<0.050	<0.050	<0.050
Q Toluene	mg/kg dw	<0.050	<0.050	<0.050	<0.050	<0.050
Q Ethylbenzene	mg/kg dw	<0.050	<0.050	<0.050	<0.050	<0.050
Q o-Xylene	mg/kg dw	<0.050	<0.050	<0.050	<0.050	<0.050
Q m,p-Xylene	mg/kg dw	<0.050	<0.050	<0.050	<0.050	<0.050
Q Xylenes (sum)	mg/kg dw	--	--	--	--	--
Q BTEX (sum)	mg/kg dw	--	--	--	--	--
Volatile chlorinated Hydrocarbons						
Q Dichloromethane	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q Trichloromethane	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q Trichloroethene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q Tetrachloroethene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,2-Dichloroethane	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,1,1-Trichloroethane	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
TPH volatile						
Q TPH volatile MeC5 - C8	mg/kg dw	--	--	--	<0.60	--
Q TPH volatile >C8 - C10	mg/kg dw	--	--	--	0.97	--
Q TPH volatile >C10 - C12	mg/kg dw	--	--	--	1.9	--
Q TPH volatile (SUM MeC5 - C12)	mg/kg dw	<2.0	<2.0	<2.0	3.0	<2.0

No. Sample description

6	P-2, 3-5m (358782-06)
7	P-3, 0-1m (358782-07)
8	P-3, 2-3m (358782-08)
9	P-3, 3-5m (358782-09)
10	P-4, 0-1m (358782-10)

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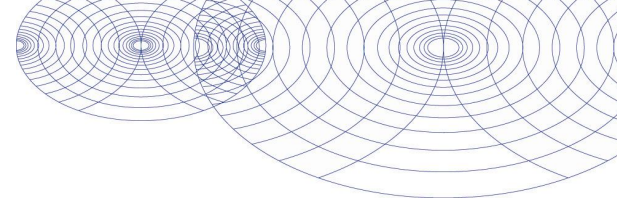
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Certificate of analysis

Your project number	358782	Certificate number	2006081734
Your project name	Slettebakken	Start date	09-21-2006
Your order number		Report date	10-02-2006/16:15
Date sampling	09-15-2006	Enclosure	A, B, C
Sampled by	Rolf E. Forbord/Olav Turøy	Page	4/10

Analysis	Unit	6	7	8	9	10
Q TPH volatile (SUM MeC5 - C10)	mg/kg dw	<1.2	<1.2	<1.2	<1.2	<1.2
Organic Chlorinated Pesticides						
Q gamma-HCH	mg/kg dw	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Q p,p -DDT	mg/kg dw	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Q o,p -DDT	mg/kg dw	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Chlorobenzenes						
Q Monochlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,2-Dichlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,3-Dichlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,4-Dichlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,2,3-Trichlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,2,4-Trichlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,3,5-Trichlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1245&1235 Tetrachlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,2,3,4-Tetrachlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q Pentachlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q Hexachlorobenzene	mg/kg dw	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Q Dichlorobenzenes (sum)	mg/kg dw	--	--	--	--	--
Q Trichlorobenzenes (sum)	mg/kg dw	--	--	--	--	--
Q Tetrachlorobenzenes (sum)	mg/kg dw	--	--	--	--	--
Q Chlorobenzenes (sum 12)	mg/kg dw	--	--	--	--	--
Q Pentachlorophenol	mg/kg dw	<0.001	<0.001	<0.001	<0.001	<0.001
Cyanides						
Q Cyanides free	mg/kg dw	<1.0	<1.0	<1.0	<1.0	<1.0

No. Sample description

6	P-2, 3-5m (358782-06)
7	P-3, 0-1m (358782-07)
8	P-3, 2-3m (358782-08)
9	P-3, 3-5m (358782-09)
10	P-4, 0-1m (358782-10)

Analytico-#

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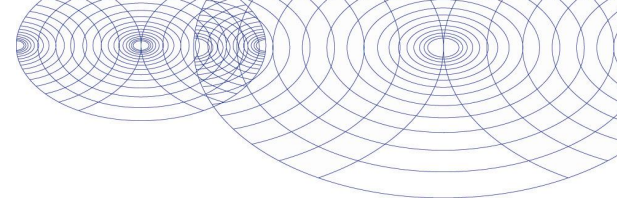
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Certificate of analysis

Your project number	358782	Certificate number	2006081734
Your project name	Slettebakken	Start date	09-21-2006
Your order number		Report date	10-02-2006/16:15
Date sampling	09-15-2006	Enclosure	A, B, C
Sampled by	Rolf E. Forbord/Olav Turøy	Page	5/10

Analysis	Unit	11	12	13	14	15
Characteristics						
Q Dry matter	% (w/w)	77.4	62.9	88.0	59.4	49.5
Q Loss on ignition	% (w/w) dw	11.3	12.6	4.7	19.1	21.0
Q Residue on ignition	% (w/w) dw	88.7	87.4	95.3	80.9	79.0
Q Organic matter	% (w/w) dw	11.0 ¹¹⁾	12.3 ¹²⁾	4.4 ¹³⁾	18.7 ¹⁴⁾	20.6 ¹⁵⁾
Q Residue on ignition	% (w/w) dw	88.7	87.4	95.3	80.9	79.0
Elements						
Q Arsenic (As)	mg/kg dw	43	32	<3	20	<3
Q Cadmium (Cd)	mg/kg dw	2.0	1.9	<0.3	1.6	0.4
Q Chromium (Cr)	mg/kg dw	49	70	29	60	30
Q Copper (Cu)	mg/kg dw	1300	980	120	580	47
Q Mercury (Hg)	mg/kg dw	3.0	2.2	0.35	2.4	0.21
Q Nickel (Ni)	mg/kg dw	88	76	21	48	19
Q Lead (Pb)	mg/kg dw	170	220	58	330	47
Q Zinc (Zn)	mg/kg dw	3600	2100	280	2100	190
Mono Aromatic Hydrocarbons						
Q Benzene	mg/kg dw	<0.050	<0.050	<0.050	<0.050	<0.050
Q Toluene	mg/kg dw	<0.050	<0.050	<0.050	<0.050	<0.050
Q Ethylbenzene	mg/kg dw	<0.050	<0.050	<0.050	<0.050	<0.050
Q o-Xylene	mg/kg dw	<0.050	<0.050	<0.050	<0.050	<0.050
Q m,p-Xylene	mg/kg dw	<0.050	<0.050	<0.050	<0.050	<0.050
Q Xylenes (sum)	mg/kg dw	--	--	--	--	--
Q BTEX (sum)	mg/kg dw	--	--	--	--	--
Volatile chlorinated Hydrocarbons						
Q Dichloromethane	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q Trichloromethane	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q Trichloroethene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q Tetrachloroethene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,2-Dichloroethane	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,1,1-Trichloroethane	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
TPH volatile						
Q TPH volatile MeC5 - C8	mg/kg dw	--	--	--	<0.60	--
Q TPH volatile >C8 - C10	mg/kg dw	--	--	--	1.6	--
Q TPH volatile >C10 - C12	mg/kg dw	--	--	--	2.9	--
Q TPH volatile (SUM MeC5 - C12)	mg/kg dw	<2.0	<2.0	<2.0	4.6	<2.0

No. Sample description

11	P-4, 1-3m (358782-11)
12	P-4, 3-4, 8m (358782-12)
13	P-5, 0-1m (358782-13)
14	P-5, 1-2m (358782-14)
15	P-6, 0-1m (358782-15)

Analytico-#

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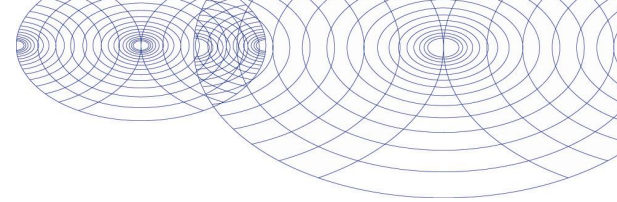
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Certificate of analysis

Your project number	358782	Certificate number	2006081734
Your project name	Slettebakken	Start date	09-21-2006
Your order number		Report date	10-02-2006/16:15
Date sampling	09-15-2006	Enclosure	A, B, C
Sampled by	Rolf E. Forbord/Olav Turøy	Page	6/10

Analysis	Unit	11	12	13	14	15
Q TPH volatile (SUM MeC5 - C10)	mg/kg dw	<1.2	<1.2	<1.2	1.7	<1.2
Organic Chlorinated Pesticides						
Q gamma-HCH	mg/kg dw	<0.0050 ²⁵⁾	<0.0050	<0.0010	<0.0050 ²⁶⁾	<0.0050 ²⁷⁾
Q p,p -DDT	mg/kg dw	<0.0050 ³³⁾	<0.0050	<0.0010	<0.0050 ³⁴⁾	<0.0050 ³⁵⁾
Q o,p -DDT	mg/kg dw	<0.0050 ²⁹⁾	<0.0050	<0.0010	<0.0050 ³⁰⁾	<0.0050 ³¹⁾
Chlorobenzenes						
Q Monochlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,2-Dichlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,3-Dichlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,4-Dichlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,2,3-Trichlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,2,4-Trichlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,3,5-Trichlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1245&1235 Tetrachlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,2,3,4-Tetrachlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q Pentachlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q Hexachlorobenzene	mg/kg dw	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Q Dichlorobenzenes (sum)	mg/kg dw	--	--	--	--	--
Q Trichlorobenzenes (sum)	mg/kg dw	--	--	--	--	--
Q Tetrachlorobenzenes (sum)	mg/kg dw	--	--	--	--	--
Q Chlorobenzenes (sum 12)	mg/kg dw	--	--	--	--	--
Q Pentachlorophenol	mg/kg dw	0.004	<0.001	<0.001	0.001	<0.001
Cyanides						
Q Cyanides free	mg/kg dw	<1.0	<1.0	<1.0	<1.0	<1.0

No. Sample description

11	P-4, 1-3m (358782-11)
12	P-4, 3-4, 8m (358782-12)
13	P-5, 0-1m (358782-13)
14	P-5, 1-2m (358782-14)
15	P-6, 0-1m (358782-15)

Analytico-#

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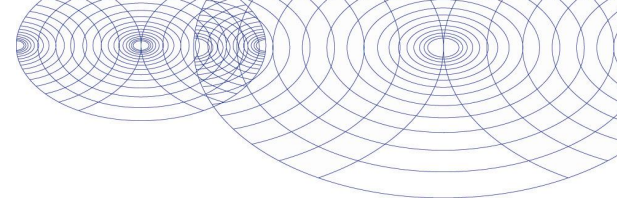
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Certificate of analysis

Your project number	358782	Certificate number	2006081734
Your project name	Slettebakken	Start date	09-21-2006
Your order number		Report date	10-02-2006/16:15
Date sampling	09-15-2006	Enclosure	A, B, C
Sampled by	Rolf E. Forbord/Olav Turøy	Page	7/10

Analysis	Unit	16	17	18	19	20
Characteristics						
Q Dry matter	% (w/w)	74.0	78.0	81.8		85.1
Q Dry matter	% (w/w)				40.9	
Q Loss on ignition	% (w/w) dw	11.2	4.3	13.1	42.3	3.3
Q Residue on ignition	% (w/w) dw	88.8	95.7	86.9	57.7	96.7
Q Organic matter	% (w/w) dw	10.9 ¹⁶⁾	3.9 ¹⁷⁾	12.8 ¹⁸⁾	42.0 ¹⁹⁾	3.0 ²⁰⁾
Q Residue on ignition	% (w/w) dw	88.8	95.7	86.9	57.7	96.7
Elements						
Q Arsenic (As)	mg/kg dw	7	5	26	<3	<3
Q Cadmium (Cd)	mg/kg dw	0.6	0.7	4.8	<0.3	<0.3
Q Chromium (Cr)	mg/kg dw	38	75	58	53	71
Q Copper (Cu)	mg/kg dw	120	100	500	52	110
Q Mercury (Hg)	mg/kg dw	0.40	0.28	0.52	0.16	0.07
Q Nickel (Ni)	mg/kg dw	32	25	69	36	39
Q Lead (Pb)	mg/kg dw	81	250	320	30	10
Q Zinc (Zn)	mg/kg dw	600	400	2200	79	130
Mono Aromatic Hydrocarbons						
Q Benzene	mg/kg dw	<0.050	<0.050	<0.050	<0.050	<0.050
Q Toluene	mg/kg dw	<0.050	<0.050	<0.050	<0.050	<0.050
Q Ethylbenzene	mg/kg dw	<0.050	<0.050	<0.050	<0.050	<0.050
Q o-Xylene	mg/kg dw	<0.050	<0.050	<0.050	<0.050	<0.050
Q m,p-Xylene	mg/kg dw	<0.050	<0.050	<0.050	<0.050	<0.050
Q Xylenes (sum)	mg/kg dw	--	--	--	--	--
Q BTEX (sum)	mg/kg dw	--	--	--	--	--
Volatile chlorinated Hydrocarbons						
Q Dichloromethane	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q Trichloromethane	mg/kg dw	<0.0050	<0.0050	<0.0050	0.0056	<0.0050
Q Trichloroethene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q Tetrachloroethene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,2-Dichloroethane	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,1,1-Trichloroethane	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
TPH volatile						
Q TPH volatile MeC5 - C8	mg/kg dw	--	--	--	--	--
Q TPH volatile >C8 - C10	mg/kg dw	--	--	--	--	--
Q TPH volatile >C10 - C12	mg/kg dw	--	--	--	--	--

No. Sample description

16	P-6, 1-3m (358782-16)
17	P-6, 3-5m (358782-17)
18	P-7, 1-3m (358782-18)
19	P-8, 1-3m (358782-19)
20	P-8, 3-4m (358782-20)

Analytico-#

2735014
2735015
2735016
2735017
2735018

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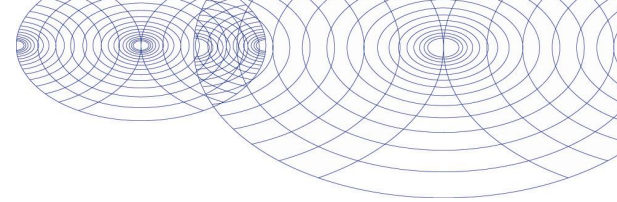
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Certificate of analysis

Your project number	358782	Certificate number	2006081734
Your project name	Slettebakken	Start date	09-21-2006
Your order number		Report date	10-02-2006/16:15
Date sampling	09-15-2006	Enclosure	A, B, C
Sampled by	Rolf E. Forbord/Olav Turøy	Page	8/10

Analysis	Unit	16	17	18	19	20
Q TPH volatile (SUM MeC5 - C12)	mg/kg dw	<2.0	<2.0	<2.0	<2.0	<2.0
Q TPH volatile (SUM MeC5 - C10)	mg/kg dw	<1.2	<1.2	<1.2	<1.2	<1.2
Organic Chlorinated Pesticides						
Q gamma-HCH	mg/kg dw	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Q p,p -DDT	mg/kg dw	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Q o,p -DDT	mg/kg dw	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Chlorobenzenes						
Q Monochlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,2-Dichlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,3-Dichlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,4-Dichlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,2,3-Trichlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,2,4-Trichlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,3,5-Trichlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1245&1235 Tetrachlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q 1,2,3,4-Tetrachlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q Pentachlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Q Hexachlorobenzene	mg/kg dw	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Q Dichlorobenzenes (sum)	mg/kg dw	--	--	--	--	--
Q Trichlorobenzenes (sum)	mg/kg dw	--	--	--	--	--
Q Tetrachlorobenzenes (sum)	mg/kg dw	--	--	--	--	--
Q Chlorobenzenes (sum 12)	mg/kg dw	--	--	--	--	--
Q Pentachlorophenol	mg/kg dw	<0.001	<0.001	<0.001	<0.001	<0.001
Cyanides						
Q Cyanides free	mg/kg dw	<1.0	<1.0	<1.0	1.4	<1.0

No. Sample description

16	P-6, 1-3m (358782-16)
17	P-6, 3-5m (358782-17)
18	P-7, 1-3m (358782-18)
19	P-8, 1-3m (358782-19)
20	P-8, 3-4m (358782-20)

Analytico-#

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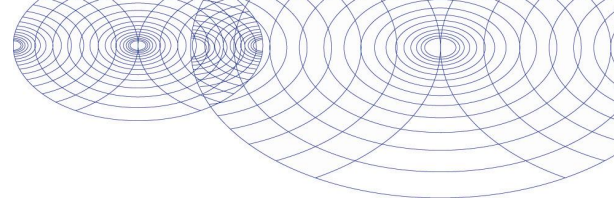
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KvK No. 09088623

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Certificate of analysis

Your project number	358782	Certificate number	2006081734
Your project name	Slettebakken	Start date	09-21-2006
Your order number		Report date	10-02-2006/16:15
Date sampling	09-15-2006	Enclosure	A, B, C
Sampled by	Rolf E. Forbord/Olav Turøy	Page	9/10

Analysis	Unit	21	22	23
Characteristics				
Q Dry matter	% (w/w)	87.4	91.9	83.3
Q Loss on ignition	% (w/w) dw	9.6	1.4	1.8
Q Residue on ignition	% (w/w) dw	90.4	98.6	98.2
Q Organic matter	% (w/w) dw	9.2 ²¹⁾	1.0 ²²⁾	1.5 ²³⁾
Q Residue on ignition	% (w/w) dw	90.4	98.6	98.2
Elements				
Q Arsenic (As)	mg/kg dw	<3	<3	<3
Q Cadmium (Cd)	mg/kg dw	<0.3	<0.3	<0.3
Q Chromium (Cr)	mg/kg dw	20	37	35
Q Copper (Cu)	mg/kg dw	49	29	53
Q Mercury (Hg)	mg/kg dw	0.05	<0.05	<0.05
Q Nickel (Ni)	mg/kg dw	16	23	25
Q Lead (Pb)	mg/kg dw	24	6	10
Q Zinc (Zn)	mg/kg dw	85	57	93
Mono Aromatic Hydrocarbons				
Q Benzene	mg/kg dw	<0.050	<0.050	<0.050
Q Toluene	mg/kg dw	<0.050	<0.050	<0.050
Q Ethylbenzene	mg/kg dw	<0.050	<0.050	<0.050
Q o-Xylene	mg/kg dw	<0.050	<0.050	<0.050
Q m,p-Xylene	mg/kg dw	<0.050	<0.050	<0.050
Q Xylenes (sum)	mg/kg dw	--	--	--
Q BTEX (sum)	mg/kg dw	--	--	--
Volatile chlorinated Hydrocarbons				
Q Dichloromethane	mg/kg dw	<0.0050	<0.0050	<0.0050
Q Trichloromethane	mg/kg dw	<0.0050	<0.0050	<0.0050
Q Trichloroethene	mg/kg dw	<0.0050	<0.0050	<0.0050
Q Tetrachloroethene	mg/kg dw	<0.0050	<0.0050	<0.0050
Q 1,2-Dichloroethane	mg/kg dw	<0.0050	<0.0050	<0.0050
Q 1,1,1-Trichloroethane	mg/kg dw	<0.0050	<0.0050	<0.0050
TPH volatile				
Q TPH volatile MeC5 - C8	mg/kg dw	--	--	--
Q TPH volatile >C8 - C10	mg/kg dw	--	--	--
Q TPH volatile >C10 - C12	mg/kg dw	--	--	--
Q TPH volatile (SUM MeC5 - C12)	mg/kg dw	<2.0	<2.0	<2.0

No. Sample description

21	P-10, 0-1m (358782-21)
22	P-10, 1-3m (358782-22)
23	P-10, 3-4m (358782-23)

Analytico-#

2735019
2735020
2735021

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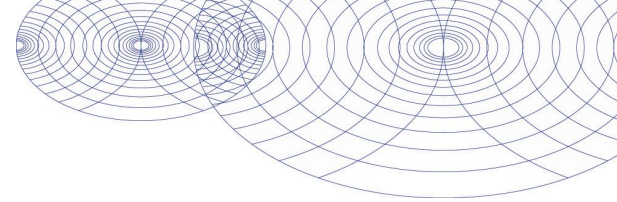
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Certificate of analysis

Your project number	358782	Certificate number	2006081734
Your project name	Slettebakken	Start date	09-21-2006
Your order number		Report date	10-02-2006/16:15
Date sampling	09-15-2006	Enclosure	A, B, C
Sampled by	Rolf E. Forbord/Olav Turøy	Page	10/10

Analysis	Unit	21	22	23
Q TPH volatile (SUM MeC5 - C10)	mg/kg dw	<1.2	<1.2	<1.2
Organic Chlorinated Pesticides				
Q gamma-HCH	mg/kg dw	<0.0010	<0.0010	<0.0010
Q p,p -DDT	mg/kg dw	<0.0010	<0.0010	<0.0010
Q o,p -DDT	mg/kg dw	<0.0010	<0.0010	<0.0010
Chlorobenzenes				
Q Monochlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050
Q 1,2-Dichlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050
Q 1,3-Dichlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050
Q 1,4-Dichlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050
Q 1,2,3-Trichlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050
Q 1,2,4-Trichlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050
Q 1,3,5-Trichlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050
Q 1245&1235 Tetrachlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050
Q 1,2,3,4-Tetrachlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050
Q Pentachlorobenzene	mg/kg dw	<0.0050	<0.0050	<0.0050
Q Hexachlorobenzene	mg/kg dw	<0.0010	<0.0010	<0.0010
Q Dichlorobenzenes (sum)	mg/kg dw	--	--	--
Q Trichlorobenzenes (sum)	mg/kg dw	--	--	--
Q Tetrachlorobenzenes (sum)	mg/kg dw	--	--	--
Q Chlorobenzenes (sum 12)	mg/kg dw	--	--	--
Q Pentachlorophenol	mg/kg dw	<0.001	<0.001	<0.001
Cyanides				
Q Cyanides free	mg/kg dw	<1.0	<1.0	<1.0

No. Sample description

21	P-10, 0-1m (358782-21)
22	P-10, 1-3m (358782-22)
23	P-10, 3-4m (358782-23)

Analytico-#

2735019
2735020
2735021

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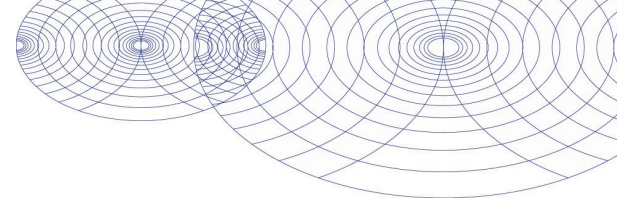
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KvK No. 09088623

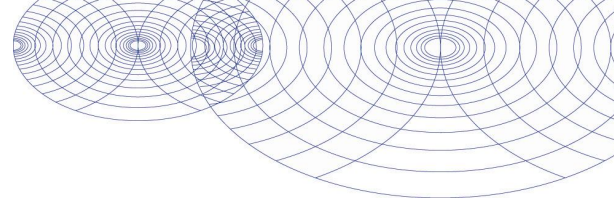
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Enclosure (A) concerning subsample information referring to certificate of analysis 2006081734

Analytico-#	Drill-#	Description	From	To	Barcode	Sample description
2734999					0503186811	P-1B, 0-1m (358782-01)
2734999					0503186890	
2735000					0503186813	P-1B, 2-4m (358782-02)
2735000					0503186929	
2735001					0503184523	P-1, 3-5m (358782-03)
2735001					0503186892	
2735002					0503186926	P-2, 0-1m (358782-04)
2735002					0503184474	
2735003					0503184538	P-2, 1-3m (358782-05)
2735003					0503186934	
2735004					0503186809	P-2, 3-5m (358782-06)
2735004					0503186936	
2735005					0503186927	P-3, 0-1m (358782-07)
2735005					0503184540	
2735006					0503186931	P-3, 2-3m (358782-08)
2735006					0503184550	
2735007					0503186938	P-3, 3-5m (358782-09)
2735007					0503184549	
2735008					0503186928	P-4, 0-1m (358782-10)
2735008					0503184529	
2735009					0503186930	P-4, 1-3m (358782-11)
2735009					0503184521	
2735010					0503186943	P-4, 3-4.8m (358782-12)
2735010					0503184471	
2735011					0503186932	P-5, 0-1m (358782-13)
2735011					0503184542	
2735012					0503186937	P-5, 1-2m (358782-14)
2735012					0503184507	
2735013					0503186941	P-6, 0-1m (358782-15)
2735013					0503184520	
2735014					0503186888	P-6, 1-3m (358782-16)
2735014					0503184524	
2735015					0503184437	P-6, 3-5m (358782-17)
2735015					0503186933	
2735016					0503186935	P-7, 1-3m (358782-18)
2735016					0503184548	



Enclosure (A) concerning subsample information referring to certificate of analysis 2006081734

Page 2/2

Analytico-#	Drill-#	Description	From	To	Barcode	Sample description
2735017					0503186939	P-8, 1-3m (358782-19)
2735017					0503184543	
2735018					0503186942	P-8, 3-4m (358782-20)
2735018					0503184546	
2735019					0503186818	P-10, 0-1m (358782-21)
2735019					0502641568	
2735020					0502965604	P-10, 1-3m (358782-22)
2735020					0502965260	
2735021					0502965591	P-10, 3-4m (358782-23)
2735021					0502395490	



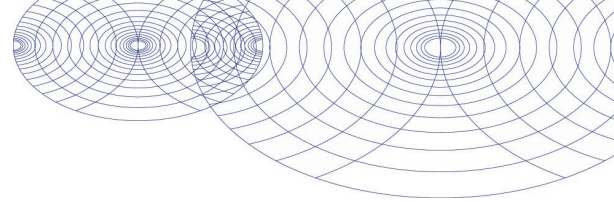
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**Enclosure (B) concerning remarks referring to certificate of analysis 2006081734**

Page 1/2

Remark 1)

The organic matter content is corrected for the clay content of 5.4 % m/m (SIKB 3010 par. 2.2.7).

Remark 2)

The organic matter content is corrected for the clay content of 5.4 % m/m (SIKB 3010 par. 2.2.7).

Remark 3)

The organic matter content is corrected for the clay content of 5.4 % m/m (SIKB 3010 par. 2.2.7).

Remark 4)

The organic matter content is corrected for the clay content of 5.4 % m/m (SIKB 3010 par. 2.2.7).

Remark 5)

The organic matter content is corrected for the clay content of 5.4 % m/m (SIKB 3010 par. 2.2.7).

Remark 6)

The organic matter content is corrected for the clay content of 5.4 % m/m (SIKB 3010 par. 2.2.7).

Remark 7)

The organic matter content is corrected for the clay content of 5.4 % m/m (SIKB 3010 par. 2.2.7).

Remark 8)

The organic matter content is corrected for the clay content of 5.4 % m/m (SIKB 3010 par. 2.2.7).

Remark 9)

The organic matter content is corrected for the clay content of 5.4 % m/m (SIKB 3010 par. 2.2.7).

Remark 10)

The organic matter content is corrected for the clay content of 5.4 % m/m (SIKB 3010 par. 2.2.7).

Remark 11)

The organic matter content is corrected for the clay content of 5.4 % m/m (SIKB 3010 par. 2.2.7).

Remark 12)

The organic matter content is corrected for the clay content of 5.4 % m/m (SIKB 3010 par. 2.2.7).

Remark 13)

The organic matter content is corrected for the clay content of 5.4 % m/m (SIKB 3010 par. 2.2.7).

Remark 14)

The organic matter content is corrected for the clay content of 5.4 % m/m (SIKB 3010 par. 2.2.7).

Remark 15)

The organic matter content is corrected for the clay content of 5.4 % m/m (SIKB 3010 par. 2.2.7).

Remark 16)

The organic matter content is corrected for the clay content of 5.4 % m/m (SIKB 3010 par. 2.2.7).

Remark 17)

The organic matter content is corrected for the clay content of 5.4 % m/m (SIKB 3010 par. 2.2.7).

Remark 18)

The organic matter content is corrected for the clay content of 5.4 % m/m (SIKB 3010 par. 2.2.7).

Remark 19)

The organic matter content is corrected for the clay content of 5.4 % m/m (SIKB 3010 par. 2.2.7).

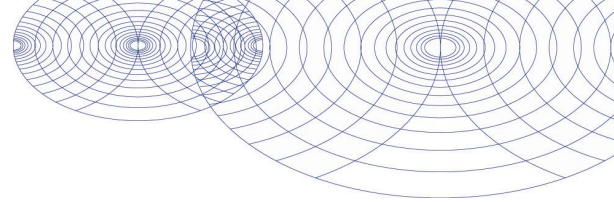
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**Enclosure (B) concerning remarks referring to certificate of analysis 2006081734**

Page 2/2

Remark 20)

The organic matter content is corrected for the clay content of 5.4 % m/m (SIKB 3010 par. 2.2.7).

Remark 21)

The organic matter content is corrected for the clay content of 5.4 % m/m (SIKB 3010 par. 2.2.7).

Remark 22)

The organic matter content is corrected for the clay content of 5.4 % m/m (SIKB 3010 par. 2.2.7).

Remark 23)

The organic matter content is corrected for the clay content of 5.4 % m/m (SIKB 3010 par. 2.2.7).

Remark 24)

Reporting limit increased due to interfering matrix.

Remark 25)

Reporting limit increased due to interfering matrix.

Remark 26)

Reporting limit increased due to interfering matrix.

Remark 27)

Reporting limit increased due to interfering matrix.

Remark 28)

Reporting limit increased due to interfering matrix.

Remark 29)

Reporting limit increased due to interfering matrix.

Remark 30)

Reporting limit increased due to interfering matrix.

Remark 31)

Reporting limit increased due to interfering matrix.

Remark 32)

Reporting limit increased due to interfering matrix.

Remark 33)

Reporting limit increased due to interfering matrix.

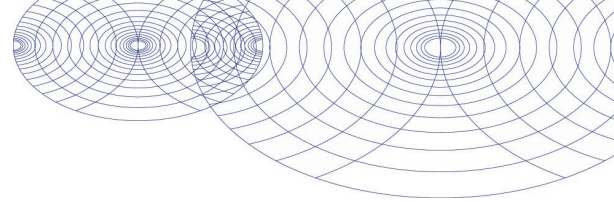
Remark 34)

Reporting limit increased due to interfering matrix.

Remark 35)

Reporting limit increased due to interfering matrix.





Enclosure (C) concerning method references referring to certificate of analysis 2006081734

Page 1/1

Analysis	Method	Technique	Method reference
Dry matter	W0104	Gravimetry	Equivalent to ISO 11465 (soil) / EN 12880
Dry-weight	W0104	Gravimetry	Equivalent to ISO 11465 (soil) / EN 12880
Ignition lost (sludge)	W0109	Gravimetry	In acc.with NEN 5754 (s) / ISO 12879 (sluc
Organic matter	W0109	Gravimetry	In acc.with NEN 5754 (s) / ISO 12879 (sluc
ICP-MS Arsenic	W6404	ICP-AES	In accordance with NEN 6426
ICP-MS Cadmium	W6404	ICP-AES	In accordance with NEN 6426
Chromium ICP-AES	W6404	ICP-AES	In accordance with NEN 6426
ICP-MS Copper	W6404	ICP-AES	In accordance with NEN 6426
Mercury AAS cold vapor	W6404	AAS Cold Vapor	In accordance with NEN-ISO 16772
Nickel ICP-AES	W6404	ICP-AES	In accordance with NEN 6426
ICP-MS Lead	W6404	ICP-AES	In accordance with NEN 6426
ICP-MS Lead	W6404	ICP-AES	In accordance with NEN 6426
Aromates (BTEX)	W0254	HS-GC/MS	In accordance with ISO 11423-1 / CMA 3/E
CKW: Dichloromethane	W0254	HS-GC/MS	In accordance with EN-ISO 10301/CMA 3/E
CKW: Trichloromethane	W0254	HS-GC/MS	In accordance with EN-ISO 10301/CMA 3/E
CKW: Trichloroethene	W0254	HS-GC/MS	In accordance with EN-ISO 10301/CMA 3/E
CKW: Tetrachloroethene	W0254	HS-GC/MS	In accordance with EN-ISO 10301/CMA 3/E
CKW: 1,2-Dichloroethane	W0254	HS-GC/MS	In accordance with EN-ISO 10301/CMA 3/E
CKW: 1,1,1-Trichloroethane	W0254	HS-GC/MS	In accordance with EN-ISO 10301/CMA 3/E
TPH volatile C6 - C12	W0216	HS-GC/FID	In house method
OCB: gamma-HCH	W0255	GC-MS	In house method
OCB: p,p-DDT	W0255	GC-MS	In house method
OCB: o,p-DDT	W0255	GC-MS	In house method
Chlorobenzenes total (12)	W0258	GC-MS	In house method
Pentachlorophenol	W6331	GC-MS	In house method
Cyanides free (NEN 6655)	W0517	Spectrometry (CFA)	In acc. with NEN 6655:1997

Further information about the applied methods as well as the classification of the accuracy, are listed in our supplement: "Specification of methods of analyses", version January 2004.



Analytico Milieu B.V.

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VAT/BTW No.
NL 8043.14.883.B01
KvK No. 09088623

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Asplan Viak AS, Trondheim
Postboks 6723
7031 Trondheim

Registrernr.: 358781
Kundenr.: 50929
Ordrenr.: 350646

Att.: Rolf E. Forbord

Referanse: 62290
Mott. dato: 2006.09.20

ANALYSERAPPORT

Side: 1 av 2

Rekvirent.....: Asplan Viak AS, Trondheim, Postboks 6723
7031 Trondheim
Prøvested.....: **Slettebakken**
Prøvetype.....: Sediment
Prøvetaking.....: 2006.09.11 - 2006.09.15
Prøvetaker.....: Rolf E. Forbord/Olav Turøy
Kundeopplysninger:
Analyseperiode...: 2006.09.28 kl. 16:04 - 2006.10.04

Prøvenr.:	35878101				
Prøve ID:			Deteks.		RSD
Prøvemerkning:	Bekk-1	Enheter	grense	Metoder	(%)
Tørrstoff	51.9	%	0.0020	MK4031	5
Totale hydrokarboner					
C12-C16	<10	mg/kg ts.	10	MK2001-GC/FID	12
C16-C35	49	mg/kg ts.	25	MK2001-GC/FID	12
Sum (C12-C35)	49	mg/kg ts.		MK2001-GC/FID	12
PAH- forbindelser					
Naftalen	<0.0050	mg/kg ts.	0.0050	MK2004-GC/MS	12
Acenaftalen	<0.0050	mg/kg ts.	0.0050	MK2004-GC/MS	12
Acenaften	<0.0050	mg/kg ts.	0.0050	MK2004-GC/MS	12
Fluoren	<0.0050	mg/kg ts.	0.0050	MK2004-GC/MS	12
Fenantren	0.020	mg/kg ts.	0.0050	MK2004-GC/MS	12
Antracen	<0.0050	mg/kg ts.	0.0050	MK2004-GC/MS	12
Fluoranten	0.039	mg/kg ts.	0.0050	MK2004-GC/MS	12
Pyren	0.033	mg/kg ts.	0.0050	MK2004-GC/MS	12
Benzo(a)antracen	0.0099	mg/kg ts.	0.0050	MK2004-GC/MS	12
Krysen/Trifenylen	0.018	mg/kg ts.	0.0050	MK2004-GC/MS	12
Benzo(b+j+k)fluoranten	0.050	mg/kg ts.	0.0050	MK2004-GC/MS	12
Benzo(a)pyren	0.019	mg/kg ts.	0.0050	MK2004-GC/MS	12
Indeno(1,2,3-cd)pyren	0.014	mg/kg ts.	0.0050	MK2004-GC/MS	12
Dibenzo(a,h)antracen	<0.0050	mg/kg ts.	0.0050	MK2004-GC/MS	12
Benzo(g,h,i)perylen	0.020	mg/kg ts.	0.0050	MK2004-GC/MS	12
Sum 16 PAH (16 EPA)	0.22	mg/kg ts.		MK2004-GC/MS	12
Polyklorete bifenyler (PCB)					
PCB nr. 28	<0.0050	mg/kg ts.	0.0050	MK2004-GC/MS	15
PCB nr. 52	<0.0050	mg/kg ts.	0.0050	MK2004-GC/MS	15
PCB nr. 101	<0.0050	mg/kg ts.	0.0050	MK2004-GC/MS	15
PCB nr. 118	<0.0050	mg/kg ts.	0.0050	MK2004-GC/MS	15
PCB nr. 138	<0.0050	mg/kg ts.	0.0050	MK2004-GC/MS	15
PCB nr. 153	<0.0050	mg/kg ts.	0.0050	MK2004-GC/MS	15

Tegnforklaring:

RSD : Relativ Analyseusikkerhet.

< : mindre enn. i.p.: ikke påvist.

> : større enn. i.m.: ikke målbart.

: ingen av parametrene er påvist.

Prøveresultatene gjelder utelukkende for de(n) undersøkte prøven(e).
Rapporten må ikke gjengis, unntatt i sin helhet, uten prøvelaboratoriets skriftlige godkjenning.



Asplan Viak AS, Trondheim
Postboks 6723
7031 Trondheim

Registrernr.: 358781
Kundenr.: 50929
Ordrenr.: 350646

Att.: Rolf E. Forbord

Referanse: 62290
Mott. dato: 2006.09.20

ANALYSERAPPORT

Side: 2 av 2

Rekvirent.....: Asplan Viak AS, Trondheim, Postboks 6723
7031 Trondheim
Prøvested.....: **Slettebakken**
Prøvetype.....: Sediment
Prøvetaking.....: 2006.09.11 - 2006.09.15
Prøvetaker.....: Rolf E. Forbord/Olav Turøy
Kundeopplysninger:
Analyseperiode...: 2006.09.28 kl. 16:04 - 2006.10.04

Prøvenr.:	35878101				
Prøve ID:		Deteks.			RSD
Prøvemerkning:	Bekk-1 Enheter	grense	Metoder		(%)
PCB nr. 180	<0.0050 mg/kg ts.	0.0050	MK2004-GC/MS		15
Sum 7 PCB	# mg/kg ts.		MK2004-GC/MS		15

Analysekommentarer:

Vedlegg: Analyserapport fra Eurofins Analytico

Kopi av rapport er sendt til:

- Bergen kommune, Byutvikling, Grønn etat, Postboks 7700, 5020 Bergen, Norge

Tegnforklaring:

RSD : Relativ Analyseusikkerhet.

< : mindre enn. i.p.: ikke påvist.

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: ingen av parametrene er påvist.

Solveig Fagerli

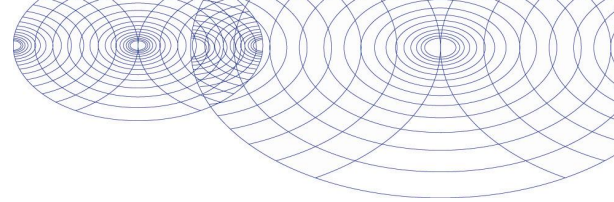
Kontaktperson

Prøveresultatene gjelder utelukkende for de(n) undersøkte prøven(e).

Rapporten må ikke gjengis, unntatt i sin helhet, uten prøvelaboratoriets skriftlige godkjenning.

04. oktober 2006

Solveig Fagerli
Kvalitetssikring



Eurofins Norge
Attention Anette Krona
Niels Hansen Vei 13
N-0667 OSLO
NORWAY

Certificate of analysis

Date: 10-02-2006

Please find enclosed the analytical results of the following analysis.

Certificate number	2006081729
Your project number	358781
Your project name	Slettebakken
Your order number	
Samples received on	09-21-2006

This Certificate of Analysis may only be used in its entirety.
Additional information concerning this Certificate of Analysis can be found in the Analytico document 'Specifications of Methods of Analysis'. Copies are available from our Customer Service department.

Soil samples will be stored under controlled conditions for a period of 6 weeks and water samples for a period of 2 weeks after receipt of the samples at our laboratory. Without any additional request, samples will be disposed when the above periods have expired. If you require Analytico to store the samples for a longer period, please complete this page and return it to Analytico at least one week before the period is due to expire. The costs of prolonged storage periods may be found in our fees overview.

Storage period:

Date:

Name:

Signature:

We trust that we have performed the order in accordance with your expectations. If you have any remaining questions concerning this Certificate of Analysis, please don't hesitate to contact our Customer Service.

Yours sincerely,

Analytico Milieu B.V.



Ing. A. Veldhuizen
Laboratory Manager

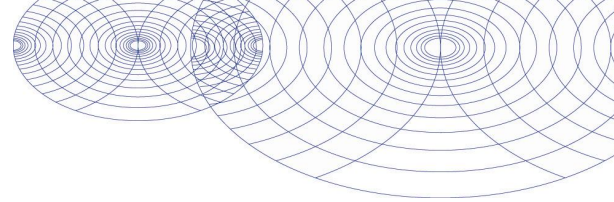
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Certificate of analysis

Your project number	358781	Certificate number	2006081729
Your project name	Slettebakken	Start date	09-21-2006
Your order number		Report date	10-02-2006/13:40
Date sampling	09-15-2006	Enclosure	A, B, C
Sampled by	Rolf E. Forbord/Olav Turøy	Page	1/2

Analysis	Unit	1
Characteristics		
Q Dry matter	% (w/w)	46.1
Q Loss on ignition	% (w/w) dw	6.7
Q Residue on ignition	% (w/w) dw	93.3
Q Organic matter	% (w/w) dw	6.3 ¹⁾
Q Residue on ignition	% (w/w) dw	93.3
Elements		
Q Arsenic (As)	mg/kg dw	3
Q Cadmium (Cd)	mg/kg dw	0.5
Q Chromium (Cr)	mg/kg dw	54
Q Copper (Cu)	mg/kg dw	50
Q Mercury (Hg)	mg/kg dw	0.08
Q Nickel (Ni)	mg/kg dw	40
Q Lead (Pb)	mg/kg dw	26
Q Zinc (Zn)	mg/kg dw	220
Mono Aromatic Hydrocarbons		
Benzene	mg/kg dw	<0.050
Toluene	mg/kg dw	<0.050
Ethylbenzene	mg/kg dw	<0.050
o-Xylene	mg/kg dw	<0.050
m, p-Xylene	mg/kg dw	<0.050
Xylenes (sum)	mg/kg dw	--
BTEX (sum)	mg/kg dw	--
Volatile chlorinated Hydrocarbons		
Q Dichloromethane	mg/kg dw	<0.0050
Q Trichloromethane	mg/kg dw	<0.0050
Q Trichloroethene	mg/kg dw	<0.0050
Q Tetrachloroethene	mg/kg dw	<0.0050
Q 1,2-Dichloroethane	mg/kg dw	<0.0050
Q 1,1,1-Trichloroethane	mg/kg dw	<0.0050
TPH volatile		
Q TPH volatile MeC5 - C8	mg/kg dw	--
Q TPH volatile >C8 - C10	mg/kg dw	--
Q TPH volatile >C10 - C12	mg/kg dw	--
Q TPH volatile (SUM MeC5 - C12)	mg/kg dw	<2.0

No. Sample description
1 Bekk-1 (358781-01)

Analytico-#
2734976

Q: Dutch Accreditation Council (RvA) accredited operation
A: AP04 accredited operation

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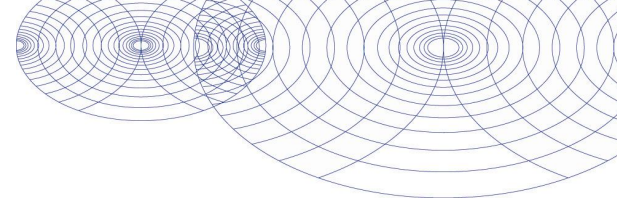
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Certificate of analysis

Your project number	358781	Certificate number	2006081729
Your project name	Slettebakken	Start date	09-21-2006
Your order number		Report date	10-02-2006/13:40
Date sampling	09-15-2006	Enclosure	A, B, C
Sampled by	Rolf E. Forbord/Olav Turøy	Page	2/2

Analysis	Unit	1
Q TPH volatile (SUM MeC5 - C10)	mg/kg dw	<1.2
Organic Chlorinated Pesticides		
Q gamma-HCH	mg/kg dw	<0.0050 ²⁾
Q p,p -DDT	mg/kg dw	<0.0050 ⁴⁾
Q o,p -DDT	mg/kg dw	<0.0050 ³⁾
Chlorobenzenes		
Monochlorobenzene	mg/kg dw	<0.0050
1,2-Dichlorobenzene	mg/kg dw	<0.0050
1,3-Dichlorobenzene	mg/kg dw	<0.0050
1,4-Dichlorobenzene	mg/kg dw	<0.0050
1,2,3-Trichlorobenzene	mg/kg dw	<0.0050
1,2,4-Trichlorobenzene	mg/kg dw	<0.0050
1,3,5-Trichlorobenzene	mg/kg dw	<0.0050
Q 1245&1235 Tetrachlorobenzene	mg/kg dw	<0.0050
1,2,3,4-Tetrachlorobenzene	mg/kg dw	<0.0050
Pentachlorobenzene	mg/kg dw	<0.0050
Hexachlorobenzene	mg/kg dw	<0.0010
Dichlorobenzenes (sum)	mg/kg dw	--
Trichlorobenzenes (sum)	mg/kg dw	--
Tetrachlorobenzenes (sum)	mg/kg dw	--
Chlorobenzenes (sum 12)	mg/kg dw	--
Q Pentachlorophenol	mg/kg dw	<0.001
Cyanides		
Q Cyanides free	mg/kg dw	<1.0

No. Sample description
1 Bekk-1 (358781-01)

Analytico-#
2734976

Analytico Milieu B.V.

Q: Dutch Accreditation Council (RvA) accredited operation
A: AP04 accredited operation

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Pr.coord.
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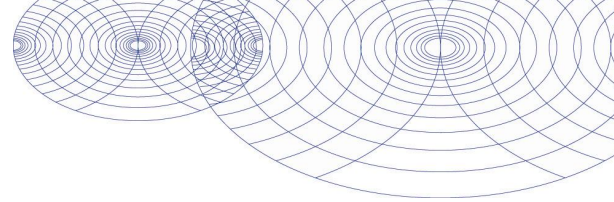
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**Enclosure (A) concerning subsample information referring to certificate of analysis 2006081729**

Page 1/1

Analytico-#	Drill-#	Description	From	To	Barcode	Sample description
2734976					0503186309	Bekk-1 (358781-01)
2734976					0502643837	

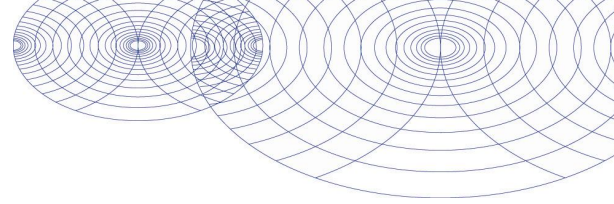
**Analytico Milieu B.V.**

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**Enclosure (B) concerning remarks referring to certificate of analysis 2006081729**

Page 1/1

Remark 1)

The organic matter content is corrected for the clay content of 5.4 % m/m (SIKB 3010 par. 2.2.7).

Remark 2)

Reporting limit increased due to interfering matrix.

Remark 3)

Reporting limit increased due to interfering matrix.

Remark 4)

Reporting limit increased due to interfering matrix.

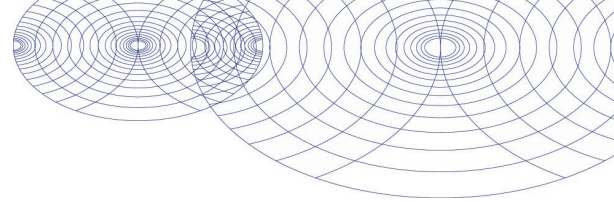
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Enclosure (C) concerning method references referring to certificate of analysis 2006081729

Page 1/1

Analysis	Method	Technique	Method reference
Dry-weight	W0104	Gravimetry	Equivalent to ISO 11465 (soil) / EN 12880
Ignition lost (sludge)	W0109	Gravimetry	In acc.with NEN 5754 (s) / ISO 12879 (sluc
Organic matter	W0109	Gravimetry	In acc.with NEN 5754 (s) / ISO 12879 (sluc
ICP-MS Arsenic	W6404	ICP-AES	In accordance with NEN 6426
ICP-MS Cadmium	W6404	ICP-AES	In accordance with NEN 6426
Chromium ICP-AES	W6404	ICP-AES	In accordance with NEN 6426
ICP-MS Copper	W6404	ICP-AES	In accordance with NEN 6426
Mercury AAS cold vapor	W6404	AAS Cold Vapor	In accordance with NEN-ISO 16772
Nickel ICP-AES	W6404	ICP-AES	In accordance with NEN 6426
ICP-MS Lead	W6404	ICP-AES	In accordance with NEN 6426
ICP-MS Lead	W6404	ICP-AES	In accordance with NEN 6426
Aromates (BTEX)	W0254	HS-GC/MS	In accordance with ISO 11423-1 / CMA 3/E
CKW: Dichloromethane	W0254	HS-GC/MS	In accordance with EN-ISO 10301/CMA 3/E
CKW: Trichloromethane	W0254	HS-GC/MS	In accordance with EN-ISO 10301/CMA 3/E
CKW: Trichloroethene	W0254	HS-GC/MS	In accordance with EN-ISO 10301/CMA 3/E
CKW: Tetrachloroethene	W0254	HS-GC/MS	In accordance with EN-ISO 10301/CMA 3/E
CKW: 1,2-Dichloroethane	W0254	HS-GC/MS	In accordance with EN-ISO 10301/CMA 3/E
CKW: 1,1,1-Trichloroethane	W0254	HS-GC/MS	In accordance with EN-ISO 10301/CMA 3/E
TPH volatile C6 - C12	W0216	HS-GC/FID	In house method
OCB: gamma-HCH	W0255	GC-MS	In house method
OCB: p,p-DDT	W0255	GC-MS	In house method
OCB: o,p-DDT	W0255	GC-MS	In house method
Chlorobenzenes total (12)	W0258	GC-MS	In house method
Pentachlorophenol	W6331	GC-MS	In house method
Cyanides free (NEN 6655)	W0517	Spectrometry (CFA)	In acc. with NEN 6655:1997

Further information about the applied methods as well as the classification of the accuracy, are listed in our supplement: "Specification of methods of analyses", version January 2004.



Asplan Viak AS, Trondheim
Postboks 6723
7031 Trondheim

Registrernr.: 358842
Kundenr.: 50929
Ordrenr.: 350646
Prøvenr.: 35884201
Referanse: 62290
Mott. dato: 2006.09.29

Att.: Rolf E. Forbord

ANALYSERAPPORT

Side: 1 av 2

Rekvirent.....: Asplan Viak AS, Trondheim, Postboks 6723
7031 Trondheim
Prøvested.....: **Slettebakken**
Prøvetype.....: Sediment
Prøvemerkning.....: **Bekk-2(sedimentpr., nedstrøms)**
Prøvetaking.....: 2006.09.26
Prøvetaker.....: Fritz Hafner
Kundeopplysninger:
Analyseperiode...: 2006.10.06 kl. 15:27 - 2006.10.13

Prøvenr.:	35884201	Deteks. grense	Metoder	RSD (%)
Tørrstoff	29.0 %	0.0020	DS 204 mod.	7
Glødetap	11.7 % i ts.	0.0020	DS 204	
Totale hydrokarboner				
C12-C16	<10 mg/kg ts.	10	MK2001-GC/FID	12
C16-C35	560 mg/kg ts.	25	MK2001-GC/FID	12
Sum (C12-C35)	560 mg/kg ts.		MK2001-GC/FID	12
PAH- forbindelser				
Naftalen	0.0080 mg/kg ts.	0.0050	MK2004-GC/MS	12
Acenaftylen	0.0064 mg/kg ts.	0.0050	MK2004-GC/MS	12
Acenaften	<0.0050 mg/kg ts.	0.0050	MK2004-GC/MS	12
Fluoren	<0.0050 mg/kg ts.	0.0050	MK2004-GC/MS	12
Fenantren	0.032 mg/kg ts.	0.0050	MK2004-GC/MS	12
Antracen	0.0057 mg/kg ts.	0.0050	MK2004-GC/MS	12
Fluoranten	0.074 mg/kg ts.	0.0050	MK2004-GC/MS	12
Pyren	0.080 mg/kg ts.	0.0050	MK2004-GC/MS	12
Benzo(a)antracen	0.019 mg/kg ts.	0.0050	MK2004-GC/MS	12
Krysen/Trifenylen	0.064 mg/kg ts.	0.0050	MK2004-GC/MS	12
Benzo(b+j+k)fluoranten	0.11 mg/kg ts.	0.0050	MK2004-GC/MS	12
Benzo(a)pyren	0.032 mg/kg ts.	0.0050	MK2004-GC/MS	12
Indeno(1,2,3-cd)pyren	0.025 mg/kg ts.	0.0050	MK2004-GC/MS	12
Dibenzo(a,h)antracen	0.0088 mg/kg ts.	0.0050	MK2004-GC/MS	12
Benzo(g,h,i)perylen	0.050 mg/kg ts.	0.0050	MK2004-GC/MS	12
Sum 16 PAH (16 EPA)	0.52 mg/kg ts.		MK2004-GC/MS	12
Polyklorete bifenyler (PCB)				
PCB nr. 28	<0.0050 mg/kg ts.	0.0050	MK2004-GC/MS	15
PCB nr. 52	<0.0050 mg/kg ts.	0.0050	MK2004-GC/MS	15
PCB nr. 101	0.014 mg/kg ts.	0.0050	MK2004-GC/MS	15
PCB nr. 118	0.016 mg/kg ts.	0.0050	MK2004-GC/MS	15

Tegnforklaring:

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< : mindre enn. i.p.: ikke påvist.

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: ingen av parametrene er påvist.

Prøveresultatene gjelder utelukkende for de(n) undersøkte prøven(e).

Rapporten må ikke gjengis, unntatt i sin helhet, uten prøvelaboratoriets skriftlige godkjenning.



Asplan Viak AS, Trondheim
Postboks 6723
7031 Trondheim

Registrernr.: 358842
Kundenr.: 50929
Ordrenr.: 350646
Prøvenr.: 35884201
Referanse: 62290
Mott. dato: 2006.09.29

Att.: Rolf E. Forbord

ANALYSERAPPORT

Side: 2 av 2

Rekvirent.....: Asplan Viak AS, Trondheim, Postboks 6723
7031 Trondheim
Prøvested.....: **Slettebakken**
Prøvetype.....: Sediment
Prøvemerkning.....: **Bekk-2(sedimentpr., nedstrøms)**
Prøvetaking.....: 2006.09.26
Prøvetaker.....: Fritz Hafner
Kundeopplysninger:
Analyseperiode...: 2006.10.06 kl. 15:27 - 2006.10.13

Prøvenr.:	35884201	Deteks. grense	Metoder	RSD (%)
PCB nr. 138	0.035 mg/kg ts.	0.0050	MK2004-GC/MS	15
PCB nr. 153	0.033 mg/kg ts.	0.0050	MK2004-GC/MS	15
PCB nr. 180	0.030 mg/kg ts.	0.0050	MK2004-GC/MS	15
Sum 7 PCB	0.13 mg/kg ts.		MK2004-GC/MS	15

Analysekommentarer:

Vedlegg: Analyserapport fra Eurofins Analytico.

Kopi av rapport er sendt til:

- Bergen kommune, Byutvikling, Grønn etat, Postboks 7700, 5020 Bergen, Norge

Tegnforklaring:

RSD : Relativ Analyseusikkerhet.

< : mindre enn. i.p.: ikke påvist.

> : større enn. i.m.: ikke målbart.

: ingen av parametrene er påvist.

Solveig Fagerli

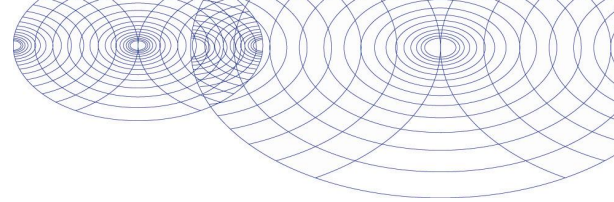
Kontaktperson

Prøveresultatene gjelder utelukkende for de(n) undersøkte prøven(e).

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13. oktober 2006


Solveig Fagerli
Kvalitetssikring



Eurofins Norge
Attention Anette Krona
Niels Hansen Vei 13
N-0667 OSLO
NORWAY

Certificate of analysis

Date: 10-12-2006

Please find enclosed the analytical results of the following analysis.

Certificate number	2006085366
Your project number	358842
Your project name	Slettebakken
Your order number	
Samples received on	10-02-2006

This Certificate of Analysis may only be used in its entirety.
Additional information concerning this Certificate of Analysis can be found in the Analytico document 'Specifications of Methods of Analysis'. Copies are available from our Customer Service department.

Soil samples will be stored under controlled conditions for a period of 6 weeks and water samples for a period of 2 weeks after receipt of the samples at our laboratory. Without any additional request, samples will be disposed when the above periods have expired. If you require Analytico to store the samples for a longer period, please complete this page and return it to Analytico at least one week before the period is due to expire. The costs of prolonged storage periods may be found in our fees overview.

Storage period:

Date:

Name:

Signature:

We trust that we have performed the order in accordance with your expectations. If you have any remaining questions concerning this Certificate of Analysis, please don't hesitate to contact our Customer Service.

Yours sincerely,

Analytico Milieu B.V.



Ing. A. Veldhuizen
Laboratory Manager

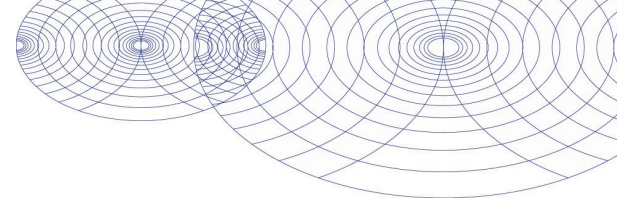
Analytico Milieu B.V.

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VAT/BTW No.
NL 8043.14.883.B01
KvK No. 09088623

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Certificate of analysis

Your project number	358842	Certificate number	2006085366
Your project name	Slettebakken	Start date	10-04-2006
Your order number		Report date	10-12-2006/14:29
Date sampling	09-26-2006	Enclosure	A, B, C
Sampled by	Fritz Hafner	Page	1/2

Analysis	Unit	1
Characteristics		
Q Dry matter	% (w/w)	24.2
Q Organic matter	% (w/w) dw	14.1 ¹⁾
Q Residue on ignition	% (w/w) dw	85.5
Elements		
Q Arsenic (As)	mg/kg dw	11
Q Cadmium (Cd)	mg/kg dw	1.2
Q Chromium (Cr)	mg/kg dw	46
Q Copper (Cu)	mg/kg dw	130
Q Mercury (Hg)	mg/kg dw	0.19
Q Lead (Pb)	mg/kg dw	55
Q Nickel (Ni)	mg/kg dw	50
Q Zinc (Zn)	mg/kg dw	1900
Mono Aromatic Hydrocarbons		
Q Benzene	mg/kg dw	<0.050
Q Toluene	mg/kg dw	<0.050
Q Ethylbenzene	mg/kg dw	<0.050
Q o-Xylene	mg/kg dw	<0.050
Q m,p-Xylene	mg/kg dw	<0.050
Q Xylenes (sum)	mg/kg dw	--
Q BTEX (sum)	mg/kg dw	--
Volatile chlorinated Hydrocarbons		
Q Dichloromethane	mg/kg dw	<0.0050
Q Trichloromethane	mg/kg dw	<0.0050
Q Trichloroethene	mg/kg dw	<0.0050
Q Tetrachloroethene	mg/kg dw	<0.0050
Q 1,2-Dichloroethane	mg/kg dw	<0.0050
Q 1,1,1-Trichloroethane	mg/kg dw	<0.0050
TPH volatile		
Q TPH volatile MeC5 - C8	mg/kg dw	0.68
Q TPH volatile >C8 - C10	mg/kg dw	<0.60
Q TPH volatile >C10 - C12	mg/kg dw	<0.80
Q TPH volatile (SUM MeC5 - C12)	mg/kg dw	3.0
Q TPH volatile (SUM MeC5 - C10)	mg/kg dw	1.5
Organic Chlorinated Pesticides		

No. Sample description

1 Bekk-2 (Sedimentprøve nedstrøms) (358842-01)

Analytico-#
2753299

Q: Dutch Accreditation Council (RvA) accredited operation
A: AP04 accredited operation

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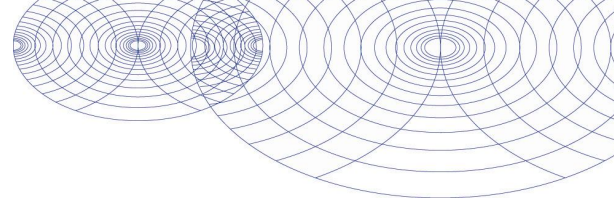
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Certificate of analysis

Your project number	358842	Certificate number	2006085366
Your project name	Slettebakken	Start date	10-04-2006
Your order number		Report date	10-12-2006/14:29
Date sampling	09-26-2006	Enclosure	A, B, C
Sampled by	Fritz Hafner	Page	2/2

Analysis	Unit	1
Q gamma-HCH	mg/kg dw	<0.0050 ²⁾
Q p,p -DDT	mg/kg dw	<0.0050 ⁴⁾
Q o,p -DDT	mg/kg dw	<0.0050 ³⁾
Chlorobenzenes		
Q Monochlorobenzene	mg/kg dw	<0.0050
Q 1,2-Dichlorobenzene	mg/kg dw	<0.0050
Q 1,3-Dichlorobenzene	mg/kg dw	<0.0050
Q 1,4-Dichlorobenzene	mg/kg dw	<0.0050
Q 1,2,3-Trichlorobenzene	mg/kg dw	<0.0050
Q 1,2,4-Trichlorobenzene	mg/kg dw	<0.0050
Q 1,3,5-Trichlorobenzene	mg/kg dw	<0.0050
Q 1245&1235 Tetrachlorobenzene	mg/kg dw	<0.0050
Q 1,2,3,4-Tetrachlorobenzene	mg/kg dw	<0.0050
Q Pentachlorobenzene	mg/kg dw	<0.0050
Q Hexachlorobenzene	mg/kg dw	0.0091
Q Dichlorobenzenes (sum)	mg/kg dw	--
Q Trichlorobenzenes (sum)	mg/kg dw	--
Q Tetrachlorobenzenes (sum)	mg/kg dw	--
Q Chlorobenzenes (sum 12)	mg/kg dw	0.0091
Q Pentachlorophenol	mg/kg dw	0.013
Cyanides		
Q Cyanides free	mg/kg dw	<1.0

No. Sample description

1 Bekk-2 (Sedimentprøve nedstrøms) (358842-01)

Analytico-#
2753299

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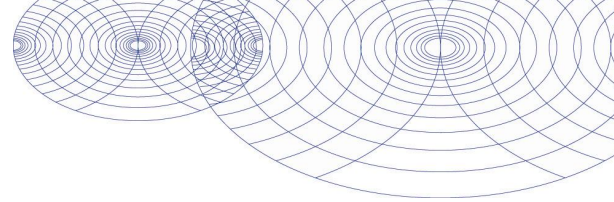
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**Enclosure (A) concerning subsample information referring to certificate of analysis 2006085366**

Page 1/1

Analytico-#	Drill-#	Description	From	To	Barcode	Sample description
2753299					0503187949	Bekk-2 (Sedimentprøve nedstrøm)
2753299					0503186978	

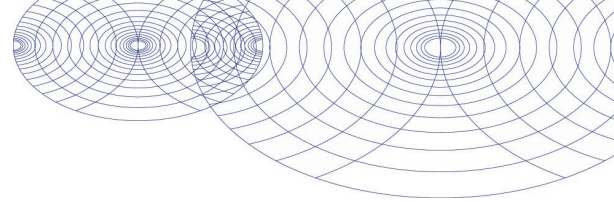
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**Enclosure (B) concerning remarks referring to certificate of analysis 2006085366**

Page 1/1

Remark 1)

The organic matter content is corrected for the clay content of 5.4 % m/m (SIKB 3010 par. 2.2.7).

Remark 2)

Reporting limit increased due to interfering matrix.

Remark 3)

Reporting limit increased due to interfering matrix.

Remark 4)

Reporting limit increased due to interfering matrix.

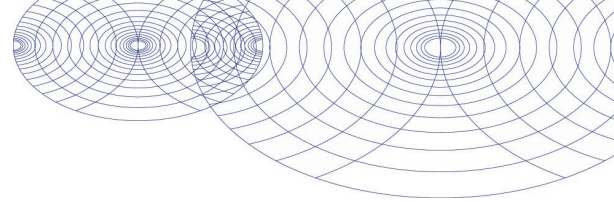
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Enclosure (C) concerning method references referring to certificate of analysis 2006085366

Page 1/1

Analysis	Method	Technique	Method reference
Dry matter	W0104	Gravimetry	Equivalent to ISO 11465 (soil) / EN 12880
Organic matter	W0109	Gravimetry	In acc.with NEN 5754 (s) / ISO 12879 (sluc
TerrAttesT metals (g) Barneveld	W0420	ICP-MS	I.a.w. 0-NEN 6427: 1999/equal to CMA/2/
Aromates (BTEX)	W0254	HS-GC/MS	In accordance with ISO 11423-1 / CMA 3/1
CKW: Dichloromethane	W0254	HS-GC/MS	In accordance with EN-ISO 10301/CMA 3/1
CKW: Trichloromethane	W0254	HS-GC/MS	In accordance with EN-ISO 10301/CMA 3/1
CKW: Trichloroethene	W0254	HS-GC/MS	In accordance with EN-ISO 10301/CMA 3/1
CKW: Tetrachloroethene	W0254	HS-GC/MS	In accordance with EN-ISO 10301/CMA 3/1
CKW: 1,2-Dichloroethane	W0254	HS-GC/MS	In accordance with EN-ISO 10301/CMA 3/1
CKW: 1,1,1-Trichloroethane	W0254	HS-GC/MS	In accordance with EN-ISO 10301/CMA 3/1
TPH volatile C6 - C12	W0216	HS-GC/FID	In house method
OCB: gamma-HCH	W0255	GC-MS	In house method
OCB: p,p-DDT	W0255	GC-MS	In house method
OCB: o,p-DDT	W0255	GC-MS	In house method
Chlorobenzenes total (12)	W0258	GC-MS	In house method
Pentachlorophenol	W6331	GC-MS	In house method
Cyanides free (NEN 6655)	W0517	Spectrometry (CFA)	In acc. with NEN 6655:1997

Further information about the applied methods as well as the classification of the accuracy, are listed in our supplement: "Specification of methods of analyses", version January 2004.


Analytico Milieu B.V.

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Asplan Viak AS, Trondheim
Postboks 6723
7031 Trondheim

Registrernr.: 358779
Kundenr.: 50929
Ordrenr.: 350646

Att.: Rolf E. Forbord

Referanse: 62290
Mott. dato: 2006.09.20

ANALYSERAPPORT

Side: 1 av 5

Rekvirent.....: Asplan Viak AS, Trondheim, Postboks 6723
7031 Trondheim
Prøvested.....: **Slettebakken**
Prøvetype.....: Sigevann
Prøvetaking.....: 2006.09.16
Prøvetaker.....: Rolf E. Forbord
Kundeopplysninger: Mulig sigevannspåvirket grunnvann.
Delprøve til metaller er filtrert i felt
Analyseperiode...: 2006.09.20 - 2006.10.27

Prøveforberedelse: Organiske analyser er utført på dekantert delprøve.

Prøvenr.:	35877901	35877902	35877903	35877904		Deteks.		RSD
Prøve ID:						grense	Metoder	(%)
Prøvemerkning:	P-1A	P-1B	P-2	P-3	Enheter			
pH	7.3	7.2	7.7	7.5	pH		DS 287	
Konduktivitet	46	47	84	56	mS/m	0.5	DS 288	1
Suspendert stoff	41	110	83	120	mg/l	1.0	DS 207	10
Ammoniakk+Ammonium-N	2.5	11	4.8	16	mg/l	0.0050	DS/EN ISO 11732	10
Total-N	2.7	11	4.7	15	mg/l	0.05	DS 221	5
Total-P	0.017	0.19	0.097	0.63	mg/l	0.005	DS 292	5
Klorid	14	17	26	7.5	mg/l	0.50	DS/EN 10304	10
TOC analysert som NVOC	2.5	6.0	5.7	6.7	mg/l	0.1	SM 17 5310C	6
BOF5	0.65	1.3	3.0	2.6	mg/l	0.50	DS/EN 1899-1	4
KOF, kjemisk oksygenforbruk	13	26	34	39	mg/l	5.0	ISO15705/LC500	5
Bor (B)	12	62	80	91	µg/l	10.0	ISO17294m-ICPMS	15
Natrium (Na)	13	17	65	19	mg/l	0.50	ISO17294m-ICPMS	15
Aromatiske hydrokarboner								
Benzen	<0.20	1.8	0.51	2.8	µg/l	0.20	MK2201-GC/FID	10
Toluen	<0.20	<0.20	<0.20	0.26	µg/l	0.20	MK2201-GC/FID	10
Etylbenzen	<0.20	<0.20	<0.20	<0.20	µg/l	0.20	MK2201-GC/FID	10
Sum xylener	<0.20	5.7	0.34	3.4	µg/l	0.20	MK2201-GC/FID	10
Totale hydrokarb.(benzen-C35)								
Benzen-C10	<5.0	28	<5.0	15	µg/l	5.0	*MK2201-GC/FID	12
C10-C12	<10	94	<10	31	µg/l	10	*MK2201-GC/FID	12
C12-C16	<10	19	<10	<10	µg/l	10	*MK2201-GC/FID	12
C16-C35	<20	26	<20	<20	µg/l	20	*MK2201-GC/FID	12
THC (Benzen-C35)	#	170	#	46	µg/l		MK2201-GC/FID	12
PAH- forbindelser								
Naftalen	<0.010	2.4	0.037	0.82	µg/l	0.010	MK2260-GC/MS	12
Acenaftylen	<0.010	<0.010	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	12

*) Ikke omfattet af akkrediteringen.

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7031 Trondheim

Registrernr.: 358779
Kundenr.: 50929
Ordrenr.: 350646

Att.: Rolf E. Forbord

Referanse: 62290
Mott. dato: 2006.09.20

ANALYSERAPPORT

Side: 2 av 5

Rekvirent.....: Asplan Viak AS, Trondheim, Postboks 6723
7031 Trondheim
Prøvested.....: **Slettebakken**
Prøvetype.....: Sigevann
Prøvetaking.....: 2006.09.16
Prøvetaker.....: Rolf E. Forbord
Kundeopplysninger: Mulig sigevannspåvirket grunnvann.
Delprøve til metaller er filtrert i felt
Analyseperiode...: 2006.09.20 - 2006.10.27

Prøvenr.:	35877901	35877902	35877903	35877904		Deteks.		RSD
Prøve ID:						grense	Metoder	(%)
Prøvemerkning:	P-1A	P-1B	P-2	P-3	Enheter			
Acenaften	<0.010	0.26	<0.010	0.094	µg/l	0.010	MK2260-GC/MS	12
Fluoren	<0.010	0.12	<0.010	0.061	µg/l	0.010	MK2260-GC/MS	12
Fenantren	<0.010	0.067	<0.010	0.029	µg/l	0.010	MK2260-GC/MS	12
Antracen	<0.010	0.018	<0.010	0.014	µg/l	0.010	MK2260-GC/MS	12
Fluoranten	<0.010	0.023	<0.010	0.012	µg/l	0.010	MK2260-GC/MS	12
Pyren	<0.010	0.013	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	12
Benzo(a)antracen	<0.010	<0.010	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	12
Krysen/Trifenylen	<0.010	<0.010	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	12
Benzo(b+j+k)fluoranten	<0.010	<0.010	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	12
Benzo(a)pyren	<0.010	<0.010	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	12
Indeno(1,2,3-cd)pyren	<0.010	<0.010	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	12
Dibenzo(a,h)antracen	<0.010	<0.010	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	12
Benzo(g,h,i)perylen	<0.010	<0.010	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	12
Sum PAH (16 EPA)	#	2.8	0.037	1.0	µg/l		MK2260-GC/MS	
Polyklorerte bifenyler								
PCB nr. 28	<0.010	<0.010	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	15
PCB nr. 52	<0.010	<0.010	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	15
PCB nr. 101	<0.010	<0.010	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	15
PCB nr. 118	<0.010	<0.010	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	15
PCB nr. 138	<0.010	<0.010	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	15
PCB nr. 153	<0.010	<0.010	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	15
PCB nr. 180	<0.010	<0.010	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	15
Sum 7 PCB	#	#	#	#	µg/l		MK2260-GC/MS	15

Tegnforklaring:

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Ordrenr.: 350646

Att.: Rolf E. Forbord

Referanse: 62290
Mott. dato: 2006.09.20

ANALYSERAPPORT

Side: 3 av 5

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7031 Trondheim
Prøvested.....: **Slettebakken**
Prøvetype.....: Sigevann
Prøvetaking.....: 2006.09.16
Prøvetaker.....: Rolf E. Forbord
Kundeopplysninger: Mulig sigevannspåvirket grunnvann.
Delprøve til metaller er filtrert i felt
Analyseperiode...: 2006.09.20 - 2006.10.27

Prøvenr.:	35877905	35877906	35877907	35877908		Deteks.		RSD
Prøve ID:						grense	Metoder	(%)
Prøvemerkning:	P-5	P-6	P-8	P-9	Enheter			
pH	7.8	7.0	7.6	8.1	pH		DS 287	
Konduktivitet	79	30	41	64	mS/m	0.5	DS 288	1
Suspendert stoff	60	35	270		mg/l	1.0	DS 207	10
Ammoniakk+Ammonium-N	16	5.4	0.096	<0.0050	mg/l	0.0050	DS/EN ISO 11732	10
Total-N	17	5.3	0.94	0.73	mg/l	0.05	DS 221	5
Total-P	0.080	0.14	0.25	0.33	mg/l	0.005	DS 292	5
Klorid	9.7	6.1	17	90	mg/l	0.50	DS/EN 10304	10
TOC analysert som NVOC	11	7.8	3.9	2.2	mg/l	0.1	SM 17 5310C	6
BOF5	1.4	2.9	0.71	1.4	mg/l	0.50	DS/EN 1899-1	4
KOF, kjemisk oksygenforbruk	32	18	19	6.8	mg/l	5.0	ISO15705/LC500	5
Bor (B)	120	<10	11	13	µg/l	10.0	ISO17294m-ICPMS	15
Natrium (Na)	25	14	13	28	mg/l	0.50	ISO17294m-ICPMS	15
Aromatiske hydrokarboner								
Benzen	1.3	<0.20	<0.20	<0.20	µg/l	0.20	MK2201-GC/FID	10
Toluen	<0.20	<0.20	0.41	<0.20	µg/l	0.20	MK2201-GC/FID	10
Etylbenzen	<0.20	<0.20	<0.20	<0.20	µg/l	0.20	MK2201-GC/FID	10
Sum xylener	<0.20	<0.20	<0.20	<0.20	µg/l	0.20	MK2201-GC/FID	10
Totale hydrokarb. (benzen-C35)								
Benzen-C10	16	<5.0	<5.0	<5.0	µg/l	5.0	*MK2201-GC/FID	12
C10-C12	<10	<10	<10	<10	µg/l	10	*MK2201-GC/FID	12
C12-C16	<10	<10	<10	<10	µg/l	10	*MK2201-GC/FID	12
C16-C35	49	<20	<20	<20	µg/l	20	*MK2201-GC/FID	12
THC (Benzen-C35)	65	#	#	#	µg/l		MK2201-GC/FID	12
PAH- forbindelser								
Naftalen	0.060	<0.010	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	12
Acenaftalen	<0.010	<0.010	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	12
Acenaften	0.021	0.031	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	12
Fluoren	0.024	0.020	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	12

*) Ikke omfattet af akkrediteringen.

Tegnforklaring:

RSD : Relativ Analyseusikkerhet.

< : mindre enn. i.p.: ikke påvist.

> : større enn. i.m.: ikke målbart.

: ingen av parametrene er påvist.

Prøveresultatene gjelder utelukkende for de(n) undersøkte prøven(e).

Rapporten må ikke gjengis, unntatt i sin helhet, uten prøvelaboratoriets skriftlige godkjenning.

Asplan Viak AS, Trondheim
Postboks 6723
7031 Trondheim

Registrernr.: 358779
Kundenr.: 50929
Ordrenr.: 350646

Att.: Rolf E. Forbord

Referanse: 62290
Mott. dato: 2006.09.20

ANALYSERAPPORT

Side: 4 av 5

Rekvirent.....: Asplan Viak AS, Trondheim, Postboks 6723
7031 Trondheim
Prøvested.....: **Slettebakken**
Prøvetype.....: Sigevann
Prøvetaking.....: 2006.09.16
Prøvetaker.....: Rolf E. Forbord
Kundeopplysninger: Mulig sigevannspåvirket grunnvann.
Delprøve til metaller er filtrert i felt
Analyseperiode...: 2006.09.20 - 2006.10.27

Prøvenr.:	35877905	35877906	35877907	35877908		Deteks.		RSD
Prøve ID:						grense	Metoder	(%)
Prøvemerkning:	P-5	P-6	P-8	P-9	Enheter			
Fenantren	<0.010	<0.010	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	12
Antracen	0.021	<0.010	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	12
Fluoranten	<0.010	0.018	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	12
Pyren	<0.010	<0.010	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	12
Benzo(a)antracen	<0.010	<0.010	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	12
Krysen/Trifenylen	<0.010	<0.010	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	12
Benzo(b+j+k)fluoranten	<0.010	<0.010	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	12
Benzo(a)pyren	<0.010	<0.010	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	12
Indeno(1,2,3-cd)pyren	<0.010	<0.010	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	12
Dibenzo(a,h)antracen	<0.010	<0.010	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	12
Benzo(g,h,i)perylen	<0.010	<0.010	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	12
Sum PAH (16 EPA)	0.13	0.068	#	#	µg/l		MK2260-GC/MS	
Polyklorete bifenyler								
PCB nr. 28	<0.010	<0.010	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	15
PCB nr. 52	<0.010	<0.010	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	15
PCB nr. 101	<0.010	<0.010	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	15
PCB nr. 118	<0.010	<0.010	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	15
PCB nr. 138	<0.010	<0.010	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	15
PCB nr. 153	<0.010	<0.010	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	15
PCB nr. 180	<0.010	<0.010	<0.010	<0.010	µg/l	0.010	MK2260-GC/MS	15
Sum 7 PCB	#	#	#	#	µg/l		MK2260-GC/MS	15

Analysekommentarer:

Suspendert stoff for prøven merket P-9 er ikke utført pga feil fra laboratoriet.

Vedlegg: Analyseresultater fra Eurofins Analytico.

Tegnforklaring:

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: ingen av parametrene er påvist.

Prøveresultatene gjelder utelukkende for de(n) undersøkte prøven(e).

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Asplan Viak AS, Trondheim
Postboks 6723
7031 Trondheim

Registernr.: 358779
Kundenr.: 50929
Ordrenr.: 350646

Att.: Rolf E. Forbord

Referanse: 62290
Mott. dato: 2006.09.20

ANALYSERAPPORT

Side: 5 av 5

Rekvirent.....: Asplan Viak AS, Trondheim, Postboks 6723
7031 Trondheim
Prøvested.....: **Slettebakken**
Prøvetype.....: Sigevann
Prøvetaking.....: 2006.09.16
Prøvetaker.....: Rolf E. Forbord
Kundeopplysninger: Mulig sigevannspåvirket grunnvann.
Delprøve til metaller er filtrert i felt
Analyseperiode...: 2006.09.20 - 2006.10.27

Kopi av rapport er sendt til:

- Bergen kommune, Byutvikling, Grønn etat, Postboks 7700, 5020 Bergen, Norge

Tegnforklaring:

RSD : Relativ Analyseusikkerhet.

< : mindre enn. i.p.: ikke påvist.

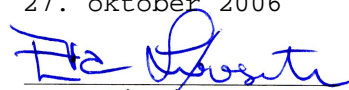
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: ingen av parametrene er påvist.

Eva Kristin Løvseth

Kontaktperson

27. oktober 2006

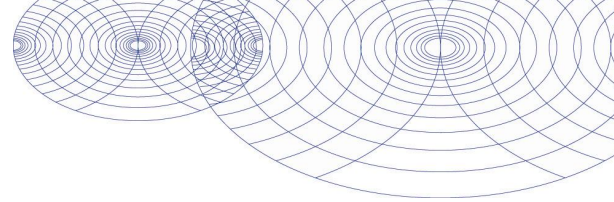


Eva Kristin Løvseth

Kvalitetssikring

Prøveresultatene gjelder utelukkende for de(n) undersøkte prøven(e).

Rapporten må ikke gjengis, unntatt i sin helhet, uten prøvelaboratoriets skriftlige godkjenning.



Eurofins Norge
Attention Eva Løvseth
Niels Hansen Vei 13
N-0667 OSLO
NORWAY

Certificate of analysis

Date: 10-03-2006

Please find enclosed the analytical results of the following analysis.

Certificate number	2006081589
Your project number	358779
Your project name	Slettebakken
Your order number	
Samples received on	09-21-2006

This Certificate of Analysis may only be used in its entirety.
Additional information concerning this Certificate of Analysis can be found in the Analytico document 'Specifications of Methods of Analysis'. Copies are available from our Customer Service department.

Soil samples will be stored under controlled conditions for a period of 6 weeks and water samples for a period of 2 weeks after receipt of the samples at our laboratory. Without any additional request, samples will be disposed when the above periods have expired. If you require Analytico to store the samples for a longer period, please complete this page and return it to Analytico at least one week before the period is due to expire. The costs of prolonged storage periods may be found in our fees overview.

Storage period:

Date:

Name:

Signature:

We trust that we have performed the order in accordance with your expectations. If you have any remaining questions concerning this Certificate of Analysis, please don't hesitate to contact our Customer Service.

Yours sincerely,

Analytico Milieu B.V.



Ing. A. Veldhuizen
Laboratory Manager

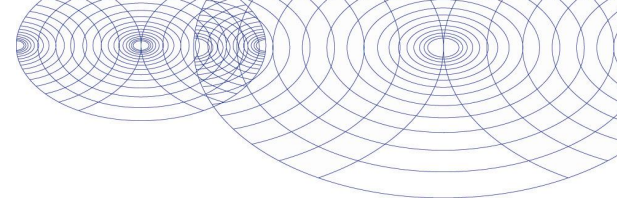
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ABN AMRO 54 85 74 456
VAT/BTW No.
NL 8043.14.883.B01
KvK No. 09088623

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Certificate of analysis

Your project number	358779	Certificate number	2006081589
Your project name	Slettebakken	Start date	09-21-2006
Your order number		Report date	10-03-2006/14:45
Date sampling	09-16-2006	Enclosure	A, B, C
Sampled by	Rolf Forbord	Page	1/4

Analysis	Unit	1	2	3	4	5
Elements						
Q Arsenic (As)	µg/L	<5.0	<5.0	<5.0	<5.0	<5.0
Q Cadmium (Cd)	µg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Q Chromium (Cr)	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Q Copper (Cu)	µg/L	<5.0	<5.0	<5.0	<5.0	<5.0
Q Mercury (Hg)	µg/L	<0.050	<0.050	<0.050	<0.050	<0.050
Q Nickel (Ni)	µg/L	<5.0	<5.0	<5.0	<5.0	50
Q Lead (Pb)	µg/L	<5.0	<5.0	<5.0	<5.0	<5.0
Q Zinc (Zn)	µg/L	<10	<10	<10	<10	<10
Volatile chlorinated Hydrocarbons						
Q Dichloromethane	µg/L	3.1	2.0	0.47	<0.10	0.30
Q Trichloromethane	µg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Q Trichloroethene	µg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Q Tetrachloroethene	µg/L	<0.10	<0.10	<0.10	<0.10	<0.10
1,2-Dibromoethane	µg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Q 1,2-Dichloroethane	µg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Q 1,1,1-Trichloroethane	µg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Organic Chlorinated Pesticides						
Q gamma-HCH	µg/L			<0.010	<0.010	<0.010
Q gamma-HCH	µg/L	<0.010	<0.010			
Q 4,4 -DDT	µg/L			<0.010	<0.010	<0.010
Q 4,4 -DDT	µg/L	<0.010	<0.010			
Q 2,4 -DDT	µg/L			<0.010	<0.010	<0.010
Q 2,4 -DDT	µg/L	<0.010	<0.010			
Chlorobenzenes						
Q Monochlorobenzene	µg/L			<0.010	<0.010	0.022
Q Monochlorobenzene	µg/L	<0.010	0.27			
Q 1,2-Dichlorobenzene	µg/L			<0.010	0.012	<0.010
Q 1,2-Dichlorobenzene	µg/L	<0.010	0.019			
Q 1,3-Dichlorobenzene	µg/L			<0.010	<0.010	<0.010
Q 1,3-Dichlorobenzene	µg/L	<0.010	<0.010			
Q 1,4-Dichlorobenzene	µg/L			<0.010	0.039	<0.010
Q 1,4-Dichlorobenzene	µg/L	<0.010	0.20			
Q 1,2,3-Trichlorobenzene	µg/L			<0.010	<0.010	<0.010
Q 1,2,3-Trichlorobenzene	µg/L	<0.010	<0.010			

No. Sample description

1	P-1A (358779-01)
2	P-1B (358779-02)
3	P-2 (358779-03)
4	P-3 (358779-04)
5	P-5 (358779-05)

Analytico-#

2734460
2734461
2734462
2734463
2734464

Q: Dutch Accreditation Council (RvA) accredited operation
A: AP04 accredited operation

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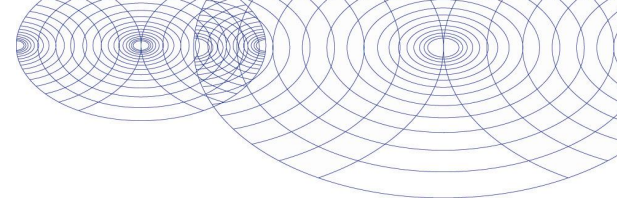
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VAT/BTW No.
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KvK No. 09088623

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Certificate of analysis

Your project number	358779	Certificate number	2006081589
Your project name	Slettebakken	Start date	09-21-2006
Your order number		Report date	10-03-2006/14:45
Date sampling	09-16-2006	Enclosure	A, B, C
Sampled by	Rolf Forbord	Page	2/4

Analysis	Unit	1	2	3	4	5
Q 1,2,4-Trichlorobenzene	µg/L			<0.010	<0.010	<0.010
Q 1,2,4-Trichlorobenzene	µg/L	<0.010	<0.010			
Q 1,3,5-Trichlorobenzene	µg/L			<0.010	<0.010	<0.010
Q 1,3,5-Trichlorobenzene	µg/L	<0.010	<0.010			
Q 1245&1235 Tetrachlorobenzene	µg/L			<0.010	<0.010	<0.010
Q 1245&1235 Tetrachlorobenzene	µg/L	<0.010	<0.010			
Q 1,2,3,4-Tetrachlorobenzene	µg/L			<0.010	<0.010	<0.010
Q 1,2,3,4-Tetrachlorobenzene	µg/L	<0.010	<0.010			
Q Pentachlorobenzene	µg/L			<0.010	<0.010	<0.010
Q Pentachlorobenzene	µg/L	<0.010	<0.010			
Q Hexachlorobenzene	µg/L			<0.010	<0.010	<0.010
Q Hexachlorobenzene	µg/L	<0.010	<0.010			
Q Chlorobenzenes 12 (sum)	µg/L			--	0.051	0.022
Q Chlorobenzenes 12 (sum)	µg/L	--	0.48 1)			
Phenols						
Q Pentachlorophenol	µg/L	<0.010	<0.010	<0.010	<0.010	<0.010
Cyanides						
Q Cyanides free	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0

No. Sample description

1	P-1A (358779-01)	Analytico-#	2734460
2	P-1B (358779-02)		2734461
3	P-2 (358779-03)		2734462
4	P-3 (358779-04)		2734463
5	P-5 (358779-05)		2734464

Q: Dutch Accreditation Council (RvA) accredited operation
 A: AP04 accredited operation

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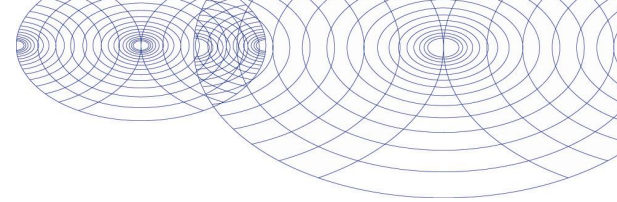
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Certificate of analysis

Your project number	358779	Certificate number	2006081589
Your project name	Slettebakken	Start date	09-21-2006
Your order number		Report date	10-03-2006/14:45
Date sampling	09-16-2006	Enclosure	A, B, C
Sampled by	Rolf Forbord	Page	3/4

Analysis	Unit	6	7	8
Elements				
Q Arsenic (As)	µg/L	<5.0	<5.0	<5.0
Q Cadmium (Cd)	µg/L	<0.10	<0.10	<0.10
Q Chromium (Cr)	µg/L	<1.0	<1.0	<1.0
Q Copper (Cu)	µg/L	<5.0	<5.0	<5.0
Q Mercury (Hg)	µg/L	<0.050	<0.050	<0.050
Q Nickel (Ni)	µg/L	<5.0	<5.0	<5.0
Q Lead (Pb)	µg/L	<5.0	<5.0	<5.0
Q Zinc (Zn)	µg/L	13	<10	<10
Volatile chlorinated Hydrocarbons				
Q Dichloromethane	µg/L	<0.10	<0.10	<0.10
Q Trichloromethane	µg/L	<0.10	<0.10	<0.10
Q Trichloroethene	µg/L	<0.10	<0.10	<0.10
Q Tetrachloroethene	µg/L	<0.10	<0.10	<0.10
1,2-Dibromoethane	µg/L	<0.10	<0.10	<0.10
Q 1,2-Dichloroethane	µg/L	<0.10	<0.10	<0.10
Q 1,1,1-Trichloroethane	µg/L	<0.10	<0.10	<0.10
Organic Chlorinated Pesticides				
Q gamma-HCH	µg/L	<0.010	<0.010	<0.010
Q 4,4 -DDT	µg/L	<0.010	<0.010	<0.010
Q 2,4 -DDT	µg/L	<0.010	<0.010	<0.010
Chlorobenzenes				
Q Monochlorobenzene	µg/L	<0.010	<0.010	<0.010
Q 1,2-Dichlorobenzene	µg/L	<0.010	<0.010	<0.010
Q 1,3-Dichlorobenzene	µg/L	<0.010	<0.010	<0.010
Q 1,4-Dichlorobenzene	µg/L	0.010	<0.010	<0.010
Q 1,2,3-Trichlorobenzene	µg/L	<0.010	<0.010	<0.010
Q 1,2,4-Trichlorobenzene	µg/L	<0.010	<0.010	<0.010
Q 1,3,5-Trichlorobenzene	µg/L	<0.010	<0.010	<0.010
Q 1245&1235 Tetrachlorobenzene	µg/L	<0.010	<0.010	<0.010
Q 1,2,3,4-Tetrachlorobenzene	µg/L	<0.010	<0.010	<0.010
Q Pentachlorobenzene	µg/L	<0.010	<0.010	<0.010
Q Hexachlorobenzene	µg/L	<0.010	<0.010	<0.010
Q Chlorobenzenes 12 (sum)	µg/L	0.010	--	--

Phenols

No. Sample description

6	P-6 (358779-06)
7	P-8 (358779-07)
8	P-9 (358779-08)

Analytico-#

2734465
2734466
2734467

Q: Dutch Accreditation Council (RvA) accredited operation
 A: AP04 accredited operation

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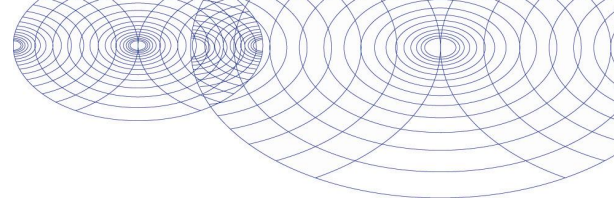
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Certificate of analysis

Your project number	358779	Certificate number	2006081589
Your project name	Slettebakken	Start date	09-21-2006
Your order number		Report date	10-03-2006/14:45
Date sampling	09-16-2006	Enclosure	A, B, C
Sampled by	Rolf Forbord	Page	4/4

Analysis	Unit	6	7	8
Q Pentachlorophenol	µg/L	<0.010	<0.010	<0.010
Cyanides				
Q Cyanides free	µg/L	<1.0	<1.0	<1.0

No. Sample description

6	P-6 (358779-06)	Analytico-#	2734465
7	P-8 (358779-07)		2734466
8	P-9 (358779-08)		2734467

Q: Dutch Accreditation Council (RvA) accredited operation
 A: AP04 accredited operation

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Initials
Pr.coord.
 IG

Analytico Milieu B.V.

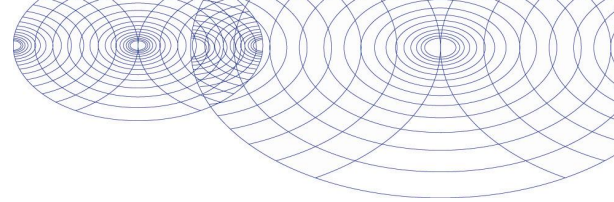
Gildeweg 44-46
 3771 NB Barneveld
 P.O. Box 459
 3770 AL Barneveld NL

Tel. +31 (0)34 242 63 00
 Fax +31 (0)34 242 63 99
 E-mail info@analytico.com
 Site www.analytico.com

ABN AMRO 54 85 74 456
 VAT/BTW No.
 NL 8043.14.883.B01
 KvK No. 09088623

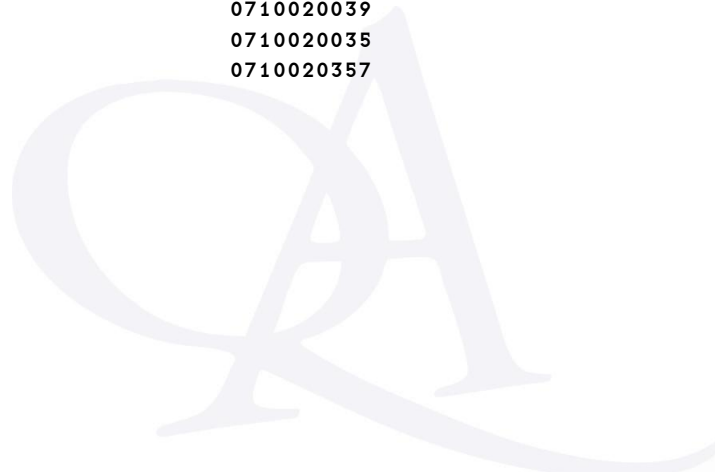
Analytico Milieu B.V. is ISO 9001: 2000 certified by Lloyd's RQA and qualified by the Flemish Region (OVAM and AMINAL), the Brussels Region (IBGE/BIM), the Walloon Region (DGRNE-OWD) and by the Governments of France (MEDD) and Luxembourg (MEV).

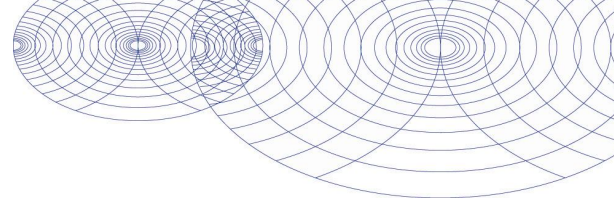




Enclosure (A) concerning subsample information referring to certificate of analysis 2006081589

Analytico-#	Drill-#	Description	From	To	Barcode	Sample description
2734460					0710020355	P-1A (358779-01)
2734460					0710020040	
2734460					0710020354	
2734460					0710020033	
2734461					0710020038	P-1B (358779-02)
2734461					0710020352	
2734461					0710020353	
2734461					0710020034	
2734462					0710020041	P-2 (358779-03)
2734462					0710020359	
2734462					0710020027	
2734462					0710020042	
2734463					0710020028	P-3 (358779-04)
2734463					0710020023	
2734463					0710020024	
2734463					0710020356	
2734464					0710020360	P-5 (358779-05)
2734464					0710020031	
2734464					0710020037	
2734464					0710020030	
2734465					0710020021	P-6 (358779-06)
2734465					0710020026	
2734465					0710020367	
2734465					0710020029	
2734466					0710020022	P-8 (358779-07)
2734466					0710020036	
2734466					0710020025	
2734466					0710020366	
2734467					0710020032	P-9 (358779-08)
2734467					0710020039	
2734467					0710020035	
2734467					0710020357	



**Enclosure (B) concerning remarks referring to certificate of analysis 2006081589**

Page 1/1

Remark 1)

Indicative value(s) due to interfering matrix.

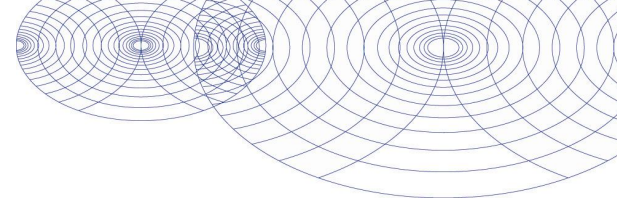
**Analytico Milieu B.V.**

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3771 NB Barneveld
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Tel. +31 (0)34 242 63 00
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E-mail info@analytico.com
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ABN AMRO 54 85 74 456
VAT/BTW No.
NL 8043.14.883.B01
KvK No. 09088623

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Enclosure (C) concerning method references referring to certificate of analysis 2006081589

Analysis	Method	Technique	Method reference
ICP-MS Arsenic	W0420	ICP-MS	In acc. with 0-NEN 6427: 1999/ i.a.w. CMf
ICP-MS Cd(low det)	W0420	ICP-MS	In acc. with 0-NEN 6427: 1999/ i.a.w. CMf
ICP-MS Chromium	W0420	ICP-MS	In acc. with 0-NEN 6427: 1999/ i.a.w. CMf
ICP-MS Copper	W0420	ICP-MS	In acc. with 0-NEN 6427: 1999/ i.a.w. CMf
ICP-MS Mercury	W0420	ICP-MS	Cf. 0-NEN 6427: 1999 / Gelijk.w. EN 1483:
ICP-MS Nickel	W0420	ICP-MS	In acc. with 0-NEN 6427: 1999/ i.a.w. CMf
ICP-MS Lead	W0420	ICP-MS	In acc. with 0-NEN 6427: 1999/ i.a.w. CMf
ICP-MS Zinc	W0420	ICP-MS	In acc. with 0-NEN 6427: 1999/ i.a.w. CMf
CKW: Dichloromethane HS	W0254	HS-GC/MS	In accordance with EN-ISO 10301/CMA 3/I
CKW: Trichloromethane HS	W0254	HS-GC/MS	In accordance with EN-ISO 10301/CMA 3/I
CKW: Trichloroethene HS	W0254	HS-GC/MS	In accordance with EN-ISO 10301/CMA 3/I
CKW: Tetrachloroethene HS	W0254	HS-GC/MS	In accordance with EN-ISO 10301/CMA 3/I
CKW: 1,2-Dibromoethane HS	W0254	HS-GC/MS	In accordance with EN-ISO 10301/CMA 3/I
CKW: 1,2-Dichloroethane	W0254	HS-GC/MS	In accordance with EN-ISO 10301/CMA 3/I
CKW: 1,1,1-Trichloroethane	W0254	HS-GC/MS	In accordance with EN-ISO 10301/CMA 3/I
OCB: gamma-HCH	W0260	LVI-GC/MS	In house method / CMA 3/I
OCB: p,p-DDT	W0260	LVI-GC/MS	In house method / CMA 3/I
OCB: o,p-DDT	W0260	LVI-GC/MS	In house method / CMA 3/I
Chlorobenzenes Total (12)	W0261	LVI-GC/MS	In house method
Pentachlorophenol	W6332	GC-MS	In house method
Cyanides free	W0517	Spectrometry (CFA)	In acc. with NEN-EN-ISO 14403:2002

Further information about the applied methods as well as the classification of the accuracy, are listed in our supplement: "Specification of methods of analyses", version January 2004.





Asplan Viak AS, Trondheim
Postboks 6723
7031 Trondheim

Registrernr.: 358841
Kundenr.: 50929
Ordrenr.: 350646
Prøvenr.: 35884101
Referanse: 62290
Mott. dato: 2006.09.29

Att.: Rolf E. Forbord

ANALYSERAPPORT

Side: 1 av 5

Rekvirent.....: Asplan Viak AS, Trondheim, Postboks 6723
7031 Trondheim
Prøvested.....: **Slettebakken**
Prøvetype.....: Sigevann
Prøvemerkning.....: **Bekk-1 (Bekkeprøve oppstrøms)**
Prøvetaking.....: 2006.09.26
Prøvetaker.....: Fritz Hafner
Kundeopplysninger:
Analyseperiode...: 2006.09.29 - 2006.10.30

Prøveforberedelse: Prøvene er homogenisert før uttak av delprøver til organiske analyseparametere.

Prøvenr.:	35884101	Deteks. grense	Metoder	RSD (%)
pH	7.9 pH		DS 287	
Konduktivitet	27 mS/m	0.5	DS 288	1
Suspendert stoff	1.6 mg/l	1.0	DS 207	10
Ammoniakk+Ammonium-N	0.015 mg/l	0.0050	DS/EN ISO 11732	10
Total-N	1.7 mg/l	0.05	DS 221	5
Total-P	0.011 mg/l	0.005	DS 292	5
Klorid	20 mg/l	0.50	DS/EN 10304	10
TOC analysert som NVOC	3.3 mg/l	0.1	SM 17 5310C	6
BOF5	0.87 mg/l	0.50	DS/EN 1899-1	4
KOF, kjemisk oksygenforbruk	7.4 mg/l	5.0	ISO15705/LC500	5
Bor (B)	910 µg/l	10.0	ISO17294m-ICPMS	15
Natrium (Na)	22 mg/l	0.50	ISO17294m-ICPMS	15
Aromatiske hydrokarboner				
Benzen	<0.20 µg/l	0.20	MK2201-GC/FID	10
Toluen	<0.20 µg/l	0.20	MK2201-GC/FID	10
Etylbenzen	<0.20 µg/l	0.20	MK2201-GC/FID	10
Sum xylener	<0.20 µg/l	0.20	MK2201-GC/FID	10
Totale hydrokarb. (benzen-C35)				
Benzen-C10	<5.0 µg/l	5.0	*MK2201-GC/FID	12
C10-C12	<10 µg/l	10	*MK2201-GC/FID	12
C12-C16	<10 µg/l	10	*MK2201-GC/FID	12
C16-C35	<20 µg/l	20	*MK2201-GC/FID	12
THC (Benzen-C35)	# µg/l		MK2201-GC/FID	12
PAH- forbindelser				
Naftalen	<0.010 µg/l	0.010	MK2260-GC/MS	12
Acenaftylen	<0.010 µg/l	0.010	MK2260-GC/MS	12

*) Ikke omfattet af akkrediteringen.

Tegnforklaring:

RSD : Relativ Analyseusikkerhet.

< : mindre enn. i.p.: ikke påvist.

> : større enn. i.m.: ikke målbart.

: ingen av parametrene er påvist.

Prøveresultatene gjelder utelukkende for de(n) undersøkte prøven(e).

Rapporten må ikke gjengis, unntatt i sin helhet, uten prøvelaboratoriets skriftlige godkjenning.

Asplan Viak AS, Trondheim
Postboks 6723
7031 Trondheim

Registrernr.: 358841
Kundenr.: 50929
Ordrenr.: 350646
Prøvenr.: 35884101
Referanse: 62290
Mott. dato: 2006.09.29

Att.: Rolf E. Forbord

ANALYSERAPPORT

Side: 2 av 5

Rekvirent.....: Asplan Viak AS, Trondheim, Postboks 6723
7031 Trondheim
Prøvested.....: **Slettebakken**
Prøvetype.....: Sige vann
Prøvemerkning.....: **Bekk-1 (Bekkeprøve oppstrøms)**
Prøvetaking.....: 2006.09.26
Prøvetaker.....: Fritz Hafner
Kundeopplysninger:
Analyseperiode...: 2006.09.29 - 2006.10.30

Prøvenr.:	35884101	Deteks. grense	Metoder	RSD (%)
Prøve ID:				
Prøvemerkning:				
Acenaften	<0.010 µg/l	0.010	MK2260-GC/MS	12
Fluoren	<0.010 µg/l	0.010	MK2260-GC/MS	12
Fenantren	<0.010 µg/l	0.010	MK2260-GC/MS	12
Antracen	<0.010 µg/l	0.010	MK2260-GC/MS	12
Fluoranten	<0.010 µg/l	0.010	MK2260-GC/MS	12
Pyren	<0.010 µg/l	0.010	MK2260-GC/MS	12
Benzo(a)antracen	<0.010 µg/l	0.010	MK2260-GC/MS	12
Krysen/Trifenylen	<0.010 µg/l	0.010	MK2260-GC/MS	12
Benzo(b+j+k)fluoranten	<0.010 µg/l	0.010	MK2260-GC/MS	12
Benzo(a)pyren	<0.010 µg/l	0.010	MK2260-GC/MS	12
Indeno(1,2,3-cd)pyren	<0.010 µg/l	0.010	MK2260-GC/MS	12
Dibenzo(a,h)antracen	<0.010 µg/l	0.010	MK2260-GC/MS	12
Benzo(g,h,i)perylen	<0.010 µg/l	0.010	MK2260-GC/MS	12
Sum PAH (16 EPA)	# µg/l		MK2260-GC/MS	
Polyklorete bifenyler				
PCB nr. 28	<0.010 µg/l	0.010	MK2260-GC/MS	15
PCB nr. 52	<0.010 µg/l	0.010	MK2260-GC/MS	15
PCB nr. 101	<0.010 µg/l	0.010	MK2260-GC/MS	15
PCB nr. 118	<0.010 µg/l	0.010	MK2260-GC/MS	15
PCB nr. 138	<0.010 µg/l	0.010	MK2260-GC/MS	15
PCB nr. 153	<0.010 µg/l	0.010	MK2260-GC/MS	15
PCB nr. 180	<0.010 µg/l	0.010	MK2260-GC/MS	15
Sum 7 PCB	# µg/l		MK2260-GC/MS	15

Tegnforklaring:

RSD : Relativ Analyseusikkerhet.

< : mindre enn. i.p.: ikke påvist.

> : større enn. i.m.: ikke målbart.

: ingen av parametrene er påvist.

Prøveresultatene gjelder utelukkende for de(n) undersøkte prøven(e).
Rapporten må ikke gjengis, unntatt i sin helhet, uten prøvelaboratoriets skriftlige godkjenning.

Asplan Viak AS, Trondheim
Postboks 6723
7031 Trondheim

Registrernr.: 358841
Kundenr.: 50929
Ordrenr.: 350646
Prøvenr.: 35884102
Referanse: 62290
Mott. dato: 2006.09.29

Att.: Rolf E. Forbord

ANALYSERAPPORT

Side: 3 av 5

Rekvirent.....: Asplan Viak AS, Trondheim, Postboks 6723
7031 Trondheim
Prøvested.....: **Slettebakken**
Prøvetype.....: Sigevann
Prøvemerkning.....: **Bekk-2 (Bekkeprøve nedstrøms)**
Prøvetaking.....: 2006.09.26
Prøvetaker.....: Fritz Hafner
Kundeopplysninger:
Analyseperiode...: 2006.09.29 - 2006.10.30

Prøvenr.:	35884102	Deteks. grense	Metoder	RSD (%)
pH	7.5 pH		DS 287	
Konduktivitet	30 mS/m	0.5	DS 288	1
Suspendert stoff	2.4 mg/l	1.0	DS 207	10
Ammoniakk+Ammonium-N	0.39 mg/l	0.0050	DS/EN ISO 11732	10
Total-N	2.4 mg/l	0.05	DS 221	5
Total-P	0.066 mg/l	0.005	DS 292	5
Klorid	6.0 mg/l	0.50	DS/EN 10304	10
TOC analysert som NVOC	2.9 mg/l	0.1	SM 17 5310C	6
BOF5	1.1 mg/l	0.50	DS/EN 1899-1	4
KOF, kjemisk oksygenforbruk	<5.0 mg/l	5.0	ISO15705/LC500	5
Bor (B)	88 µg/l	10.0	ISO17294m-ICPMS	15
Natrium (Na)	7.9 mg/l	0.50	ISO17294m-ICPMS	15
Aromatiske hydrokarboner				
Benzen	<0.20 µg/l	0.20	MK2201-GC/FID	10
Toluen	<0.20 µg/l	0.20	MK2201-GC/FID	10
Etylbenzen	<0.20 µg/l	0.20	MK2201-GC/FID	10
Sum xylener	<0.20 µg/l	0.20	MK2201-GC/FID	10
Totale hydrokarb. (benzen-C35)				
Benzen-C10	<5.0 µg/l	5.0	*MK2201-GC/FID	12
C10-C12	<10 µg/l	10	*MK2201-GC/FID	12
C12-C16	<10 µg/l	10	*MK2201-GC/FID	12
C16-C35	<20 µg/l	20	*MK2201-GC/FID	12
THC (Benzen-C35)	# µg/l		MK2201-GC/FID	12
PAH- forbindelser				
Naftalen	<0.010 µg/l	0.010	MK2260-GC/MS	12
Acenaftylen	<0.010 µg/l	0.010	MK2260-GC/MS	12
Acenaften	<0.010 µg/l	0.010	MK2260-GC/MS	12
Fluoren	<0.010 µg/l	0.010	MK2260-GC/MS	12

*) Ikke omfattet af akkrediteringen.

Tegnforklaring:

RSD : Relativ Analyseusikkerhet.

< : mindre enn. i.p.: ikke påvist.

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: ingen av parametrene er påvist.

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Asplan Viak AS, Trondheim
Postboks 6723
7031 Trondheim

Registrernr.: 358841
Kundenr.: 50929
Ordrenr.: 350646
Prøvenr.: 35884102
Referanse: 62290
Mott. dato: 2006.09.29

Att.: Rolf E. Forbord

ANALYSERAPPORT

Side: 4 av 5

Rekvirent.....: Asplan Viak AS, Trondheim, Postboks 6723
7031 Trondheim
Prøvested.....: **Slettebakken**
Prøvetype.....: Sigevann
Prøvemerkning.....: **Bekk-2 (Bekkeprøve nedstrøms)**
Prøvetaking.....: 2006.09.26
Prøvetaker.....: Fritz Hafner
Kundeopplysninger:
Analyseperiode...: 2006.09.29 - 2006.10.30

Prøvenr.:	35884102	Deteks. grense	Metoder	RSD (%)
Prøve ID:				
Prøvemerkning:				
Fenantren	<0.010 µg/l	0.010	MK2260-GC/MS	12
Antracen	<0.010 µg/l	0.010	MK2260-GC/MS	12
Fluoranten	<0.010 µg/l	0.010	MK2260-GC/MS	12
Pyren	<0.010 µg/l	0.010	MK2260-GC/MS	12
Benzo(a)antracen	<0.010 µg/l	0.010	MK2260-GC/MS	12
Krysen/Trifenylen	<0.010 µg/l	0.010	MK2260-GC/MS	12
Benzo(b+j+k)fluoranten	<0.010 µg/l	0.010	MK2260-GC/MS	12
Benzo(a)pyren	<0.010 µg/l	0.010	MK2260-GC/MS	12
Indeno(1,2,3-cd)pyren	<0.010 µg/l	0.010	MK2260-GC/MS	12
Dibenzo(a,h)antracen	<0.010 µg/l	0.010	MK2260-GC/MS	12
Benzo(g,h,i)perylen	<0.010 µg/l	0.010	MK2260-GC/MS	12
Sum PAH (16 EPA)	# µg/l		MK2260-GC/MS	
Polyklorete bifenyler				
PCB nr. 28	<0.010 µg/l	0.010	MK2260-GC/MS	15
PCB nr. 52	<0.010 µg/l	0.010	MK2260-GC/MS	15
PCB nr. 101	<0.010 µg/l	0.010	MK2260-GC/MS	15
PCB nr. 118	<0.010 µg/l	0.010	MK2260-GC/MS	15
PCB nr. 138	<0.010 µg/l	0.010	MK2260-GC/MS	15
PCB nr. 153	<0.010 µg/l	0.010	MK2260-GC/MS	15
PCB nr. 180	<0.010 µg/l	0.010	MK2260-GC/MS	15
Sum 7 PCB	# µg/l		MK2260-GC/MS	15

Analysekommentarer:

Prøvematriksen kan være sigevannpåvirket bekkevann.

Vedlegg: Analyseresultater fra Eurofins Analytico.

Tegnforklaring:

RSD : Relativ Analyseusikkerhet.

< : mindre enn. i.p.: ikke påvist.

> : større enn. i.m.: ikke målbart.

: ingen av parametrene er påvist.

Prøveresultatene gjelder utelukkende for de(n) undersøkte prøven(e).

Rapporten må ikke gjengis, unntatt i sin helhet, uten prøvelaboratoriets skriftlige godkjenning.



Asplan Viak AS, Trondheim
Postboks 6723
7031 Trondheim

Registernr.: 358841
Kundenr.: 50929
Ordrenr.: 350646
Prøvenr.: 35884102
Referanse: 62290
Mott. dato: 2006.09.29

Att.: Rolf E. Forbord

ANALYSERAPPORT

Side: 5 av 5

Rekvirent.....: Asplan Viak AS, Trondheim, Postboks 6723
7031 Trondheim
Prøvested.....: **Slettebakken**
Prøvetype.....: Sigevann
Prøvemerkning.....: **Bekk-2 (Bekkeprøve nedstrøms)**
Prøvetaking.....: 2006.09.26
Prøvetaker.....: Fritz Hafner
Kundeopplysninger:
Analyseperiode...: 2006.09.29 - 2006.10.30

Kopi av rapport er sendt til:

- Bergen kommune, Byutvikling, Grønn etat, Postboks 7700, 5020 Bergen, Norge

Tegnforklaring:

RSD : Relativ Analyseusikkerhet.

< : mindre enn. i.p.: ikke påvist.

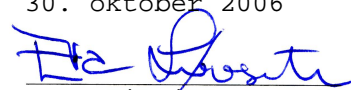
> : større enn. i.m.: ikke målbart.

: ingen av parametrene er påvist.

Eva Kristin Løvseth

Kontaktperson

30. oktober 2006

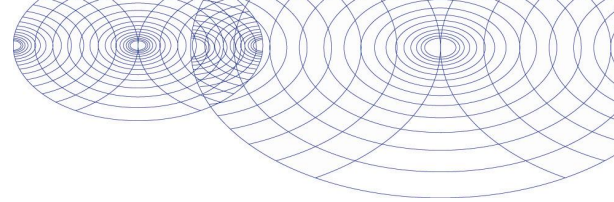


Eva Kristin Løvseth

Kvalitetssikring

Prøveresultatene gjelder utelukkende for de(n) undersøkte prøven(e).

Rapporten må ikke gjengis, unntatt i sin helhet, uten prøvelaboratoriets skriftlige godkjenning.



Eurofins Norge
Attention Anette Krona
Niels Hansen Vei 13
N-0667 OSLO
NORWAY

Certificate of analysis

Date: 10-12-2006

Please find enclosed the analytical results of the following analysis.

Certificate number	2006085362
Your project number	358841
Your project name	Slettebakken
Your order number	
Samples received on	10-02-2006

This Certificate of Analysis may only be used in its entirety.
Additional information concerning this Certificate of Analysis can be found in the Analytico document 'Specifications of Methods of Analysis'. Copies are available from our Customer Service department.

Soil samples will be stored under controlled conditions for a period of 6 weeks and water samples for a period of 2 weeks after receipt of the samples at our laboratory. Without any additional request, samples will be disposed when the above periods have expired. If you require Analytico to store the samples for a longer period, please complete this page and return it to Analytico at least one week before the period is due to expire. The costs of prolonged storage periods may be found in our fees overview.

Storage period:

Date:

Name:

Signature:

We trust that we have performed the order in accordance with your expectations. If you have any remaining questions concerning this Certificate of Analysis, please don't hesitate to contact our Customer Service.

Yours sincerely,

Analytico Milieu B.V.



Ing. A. Veldhuizen
Laboratory Manager

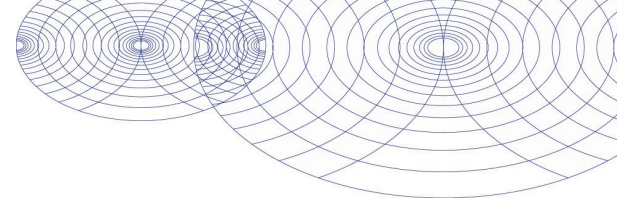
Analytico Milieu B.V.

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3771 NB Barneveld
P.O. Box 459
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Tel. +31 (0)34 242 63 00
Fax +31 (0)34 242 63 99
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Site www.analytico.com

ABN AMRO 54 85 74 456
VAT/BTW No.
NL 8043.14.883.B01
KvK No. 09088623

Analytico Milieu B.V. is ISO 9001: 2000 certified by Lloyd's RQA and qualified by the Flemish Region (OVAM and AMINAL), the Brussels Region (IBGE/BIM), the Walloon Region (DGRNE-OWD) and by the Governments of France (MEDD) and Luxembourg (MEV).



Certificate of analysis

Your project number	358841	Certificate number	2006085362
Your project name	Slettebakken	Start date	10-04-2006
Your order number		Report date	10-12-2006/17:27
Date sampling	09-26-2006	Enclosure	A, C
Sampled by	Fritz Hafner	Page	1/2

Analysis	Unit	1	2
Elements			
Q Arsenic (As)	µg/L	<2.0	<2.0
Q Cadmium (Cd)	µg/L	<0.40	0.46
Q Chromium (Cr)	µg/L	5.8	<5.0
Q Copper (Cu)	µg/L	6.9	6.3
Q Nickel (Ni)	µg/L	5.6	<5.0
Q Lead (Pb)	µg/L	<5.0	<5.0
Q Zinc (Zn)	µg/L	460	460
Mono Aromatic Hydrocarbons			
Q Benzene	µg/L	<0.20	<0.20
Q Toluene	µg/L	<0.20	<0.20
Q Ethylbenzene	µg/L	<0.20	<0.20
Q o-Xylene	µg/L	<0.20	<0.20
Q m,p-Xylene	µg/L	<0.20	<0.20
Q Xylenes (sum)	µg/L	--	--
Q BTEX (sum)	µg/L	--	--
Q Naphtalene	µg/L	<0.20	<0.20
Volatile chlorinated Hydrocarbons			
Q Trichloromethane	µg/L	<0.10	<0.10
Q Trichloroethene	µg/L	<0.10	<0.10
Q Tetrachloroethene	µg/L	<0.10	<0.10
Q 1,2-Dibromoethane	µg/L	<0.10	<0.10
Q 1,2-Dichloroethane	µg/L	<0.10	<0.10
Q 1,1,1-Trichloroethane	µg/L	<0.10	<0.10
TPH volatile			
Q TPH volatile MeC5 - C8	µg/L	--	--
Q TPH volatile >C8 - C10	µg/L	--	--
Q TPH volatile >C10 - C12	µg/L	--	--
Q TPH volatile (Sum MeC5 - C12)	µg/L	<100	<100
Q TPH volatile (Sum MeC5 - C10)	µg/L	<60	<60
Organic Chlorinated Pesticides			
Q gamma-HCH	µg/L	<0.010	<0.010
Q 4,4 -DDT	µg/L	<0.010	<0.010
Q 2,4 -DDT	µg/L	<0.010	<0.010
Chlorobenzenes			

No. Sample description

- Bekk-1 (Bekkeprøve oppstrøms) (358841-01)
- Bekk-2 (Bekkeprøve nedstrøms) (358841-02)

Analytico-#

 2753281
 2753282

Q: Dutch Accreditation Council (RvA) accredited operation
 A: AP04 accredited operation

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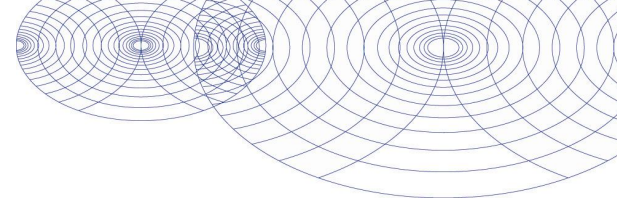
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 NL 8043.14.883.B01
 KvK No. 09088623

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Certificate of analysis

Your project number	358841	Certificate number	2006085362
Your project name	Slettebakken	Start date	10-04-2006
Your order number		Report date	10-12-2006/17:27
Date sampling	09-26-2006	Enclosure	A, C
Sampled by	Fritz Hafner	Page	2/2

Analysis	Unit	1	2
Monochlorobenzene	µg/L	<0.010	<0.010
1,2-Dichlorobenzene	µg/L	<0.010	<0.010
1,3-Dichlorobenzene	µg/L	<0.010	<0.010
1,4-Dichlorobenzene	µg/L	<0.010	<0.010
1,2,3-Trichlorobenzene	µg/L	<0.010	<0.010
1,2,4-Trichlorobenzene	µg/L	<0.010	<0.010
1,3,5-Trichlorobenzene	µg/L	<0.010	<0.010
1245&1235 Tetrachlorobenzene	µg/L	<0.010	<0.010
1,2,3,4-Tetrachlorobenzene	µg/L	<0.010	<0.010
Pentachlorobenzene	µg/L	<0.010	<0.010
Hexachlorobenzene	µg/L	<0.010	<0.010
Chlorobenzenes 12 (sum)	µg/L	--	--
Phenols			
Q Pentachlorophenol	µg/L	<0.010	<0.010
Cyanides			
Q Cyanides free	µg/L	<1.0	<1.0

No. Sample description

- 1 Bekk-1 (Bekkeprøve oppstrøms) (358841-01)
- 2 Bekk-2 (Bekkeprøve nedstrøms) (358841-02)

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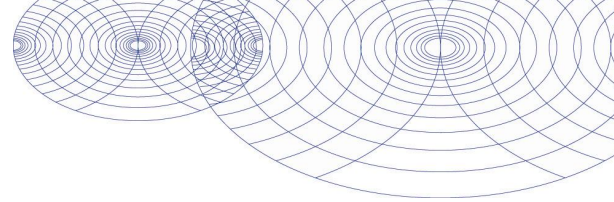
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Enclosure (A) concerning subsample information referring to certificate of analysis 2006085362

Page 1/1

Analytico-#	Drill-#	Description	From	To	Barcode	Sample description
2753281					0900625871	Bekk-1 (Bekkeprøve oppstrøms)
2753281					0710020093	
2753281					0900612339	
2753281					0710020087	
2753282					0900625870	Bekk-2 (Bekkeprøve nedstrøms)
2753282					0710020092	
2753282					0710020088	
2753282					0710020089	



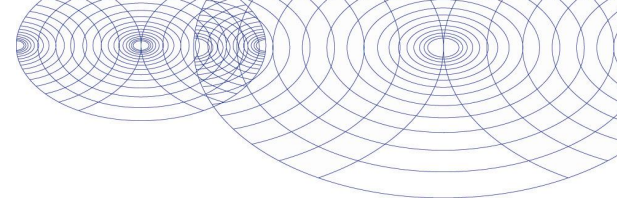
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Enclosure (C) concerning method references referring to certificate of analysis 2006085362

Analysis	Method	Technique	Method reference
ICP-MS Arsenic after destr.	W0420	ICP-MS	In acc. with 0-NEN 6427: 1999/ i.a.w. CMf
ICP-MS Cadmium after destr.	W0420	ICP-MS	In acc. with 0-NEN 6427: 1999/ i.a.w. CMf
ICP-MS Chromium after destr.	W0420	ICP-MS	In acc. with 0-NEN 6427: 1999/ i.a.w. CMf
ICP-MS Copper after destr.	W0420	ICP-MS	In acc. with 0-NEN 6427: 1999/ i.a.w. CMf
ICP-MS Nickel after destr.	W0420	ICP-MS	In acc. with 0-NEN 6427: 1999/ i.a.w. CMf
ICP-MS Lead after destr.	W0420	ICP-MS	In acc. with 0-NEN 6427: 1999/ i.a.w. CMf
ICP-MS Zinc after destr.	W0420	ICP-MS	In acc. with 0-NEN 6427: 1999/ i.a.w. CMf
Aromates (BTEXN)	W0254	HS-GC/MS	In accordance with ISO 11423-1 / CMA 3/I
CKW: Trichloromethane HS	W0254	HS-GC/MS	In accordance with EN-ISO 10301/CMA 3/I
CKW: Trichloroethene HS	W0254	HS-GC/MS	In accordance with EN-ISO 10301/CMA 3/I
CKW: Tetrachloroethene HS	W0254	HS-GC/MS	In accordance with EN-ISO 10301/CMA 3/I
CKW : 1,2-Dibromoethane HS	W0254	HS-GC/MS	In accordance with EN-ISO 10301/CMA 3/I
CKW: 1,2-Dichloroethane	W0254	HS-GC/MS	In accordance with EN-ISO 10301/CMA 3/I
CKW: 1,1,1-Trichloroethane	W0254	HS-GC/MS	In accordance with EN-ISO 10301/CMA 3/I
TPH volatile	W0216	HS-GC/FID	In house method
OCB: gamma-HCH	W0260	LVI-GC/MS	In house method / CMA 3/I
OCB: p,p-DDT	W0260	LVI-GC/MS	In house method / CMA 3/I
OCB: o,p-DDT	W0260	LVI-GC/MS	In house method / CMA 3/I
Chlorobenzenes Total (12)	W0261	LVI-GC/MS	In house method
Pentachlorophenol	W6332	GC-MS	In house method
Cyanides free	W0517	Spectrometry (CFA)	In acc. with NEN-EN-ISO 14403:2002

Further information about the applied methods as well as the classification of the accuracy, are listed in our supplement: "Specification of methods of analyses", version January 2004.



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VEDLEGG 3

Stoff	Antall prøver	Max C _{s, max} (mg/kg)	Middel C _{s, middel} (mg/kg)	P1B, 0-1	P1B, 2-4	P1B, 3-5	P2 0-1	P2 1-3	P2 3-5	P3 0-1	P3 2-3	P3 3-5	P4 0-1
Sum alifater > C5-C10	6	13	8,01667	<1,2	<1,2	1,6	<1,2	<1,2	<1,2	<1,2	<1,2	<1,2	<1,2
Alifater >C10-C12	8	50	15,9625	<1,2	3,4	<1,2	<1,2	<1,2	<1,2	<1,2	<1,2	1,9	<1,2
Alifater >C12-C35	28	2200	441,107	690	1000	340	230	350	200	520	39	320	59
Arsen	27	43	17,7741	13	28	14	11	35	11	25	<3	17	<3
Benso(a)pyren	29	2,9	0,40093	0,059	0,26	<0,005	0,2	0,11	0,056	0,54	2	0,2	0,63
Bly	32	1000	224,069	190	240	91	230	280	76	1000	40	360	55
Cyanid fri	1	1,5	1,5	<1,0	<1,0	1,5	<1,0	<1,0	<1,0	<1,0	<1,0	<1,0	<1,0
Fluoranten	29	6,5	1,10831	0,23	0,82	<0,005	0,38	0,17	0,12	1	6,5	0,37	0,3
Fluoren	22	0,48	0,1185	0,029	0,13	<0,005	0,041	0,0075	0,017	0,13	0,42	0,064	0,013
Kadmium	25	5,7	2,0392	1,7	3	1	1,6	2,2	1,2	5,7	<0,3	2,9	<0,3
Kobber	32	1700	505,756	260	1700	300	530	1600	330	1600	69	680	88
Krom totalt (III + VI)	30	130	57,3467	89	61	31	48	82	43	130	71	93	20
Kvikksølv	32	5,5	1,23981	1,3	0,95	0,35	0,84	1,3	0,62	4,6	0,18	3,2	0,19
Nikkel	32	500	70,1094	47	63	31	42	74	46	89	41	60	19
PAH totalt	30	35	5,47963	1,2	4,8	0,019	2,5	1,2	0,9	6,9	28	2,7	4
PCB CAST336-36-3	9	0,31	0,07922	0,15	0,018	<0,005	0,011	0,03	<0,005	0,068	<0,005	0,04	<0,005
Pyrene	29	4,9	0,93607	0,24	0,69	<0,005	0,33	0,17	0,12	0,98	4,9	0,35	0,25
Sink	32	4800	1531,19	1500	1600	850	1200	2400	1000	4400	210	3100	260

Tabell I. Eksponeringsveier ved aktuell arealbruk. (Kun verdier i gull felt kan endres. Endringer skal begrunnes.)				
Parametre	Standard verdi	Anvendt verdi	Enhet	Begrunnelse (Gule celler må fylles)
Eksponeringstid for oralt inntak av jord (barn)	365 8	100 2	dager/år timer/dag	Fotballtrening og lek, området er tilgjengelig for barn hele tiden
Eksponeringstid for oralt inntak av jord (voksne)	365 8	80 2	dager/år timer/dag	Fotballtrening 2t 2 dager i uke i perioden mars-november
Eksponeringstid for hudkontakt med jord (barn)	80 8	80 8	dager/år timer/dag	
Eksponeringstid for hudkontakt med jord (voksne)	45 8	45 8	dager/år timer/dag	
Oppholdstid utendørs (barn)	365 24	100 2	dager/år timer/dag	Fotballtrening og lek, området er tilgjengelig for barn hele tiden
Oppholdstid utendørs (voksne)	365 24	80 2	dager/år timer/dag	Fotballtrening 2t 2 dager i uke i perioden mars-november
Oppholdstid innendørs (barn)	365 24	80 2	dager/år timer/dag	Trening i Turnkassen og Gimlehallen
Oppholdstid innendørs (voksne)	365 24	80 2	dager/år timer/dag	Trening i Turnkassen og Gimlehallen
Fraksjon av grunnvann fra lokaliteten brukt som drikkevann	100 %	0 %	UAKTUELL	
Fraksjon av inntak av grønnsaker dyrket på lokaliteten	30 %	0 %	UAKTUELL	
Fraksjon av inntak av fisk fra nærliggende resipient	100 %	10 %		Lite fiskeing etter at forurensningssituasjonen ble kjent

Tabell II. Transport og reaksjonsmekanismer (tabell 21 s.99 i SFT 99:01A; Kun verdier i gule felt kan endres. Endringer skal begrunnes.)					
Parametre	Symbol	Standard verdi	Anvendt verdi	Enhet	Begrunnelse (Gule celler må fylles)
Jordspesifikke data					
Vanninnhold i jord	θ_w	0,2	0,2	0,2 l vann/l jord	
Luftinnhold i jord	θ_a	0,2	0,2	0,2 l luft/l jord	
Jordas tetthet	ρ_s	1,7	1,7	1,7 kg/l jord	
Fraksjon organisk karbon i jord	f_{oc}	1 %	10 %	10 %	Analyseresultater
Jorda porøsitet	ϵ	40 %	40 %	40 %	
Parametre brukt til beregning av konsentrasjon i innedørsluft					
Innvendig volum av huset	V_{hus}	240	3600	m^3	Takhøyde på 4 meter
Areal under huset	A	100	900	m^2	Areal Turnkasse
Utskiftingshastighet for luft i huset	I	12	12	d^{-1}	
Innlekkingshastighet av poreluft	L	2,4	2,4	m^3/d	
Dybde fra kjellergulv til forurensning	Z	0,5	1	m	Forutsetter at øverste meter er masseutskiftet
Diffusiviteten i ren luft	D_o	0,7	0,7	m^2/d	
Data brukt til beregning av konsentrasjon i grunnvann					
Jordas hydraulisk konduktivitet	k	0,00001	0,000035	m/s	Beregnet ved hjelp av slugtester i brønner
Avstand til brønn	X	0	1103,76	m/år	
Lengden av det forurensende området i grunnvannsstrømmens retning	L_{gw}	50	500	m	Målt på strømningskart vinkelrett på grunnvannskoter
Infiltrasjons faktor	IF	0,141	0,18	år/m	Sandig topplag
Gjennomsnittlig årlig nedbørmengde	P	730	2200	mm/år	DMNI Årsmiddel
Infiltrasjonshastigheten	I	0,0751389	0,8712	m/år	Beregnet ($IF \cdot P^2$)
Hydraulisk gradient	i	0,02	0,025	m/m	Maksgradient fra strømningskart
Tykkelsen av akviferen	d_a	10	2,5	m	Gjennomsnitt
Tykkelsen av blandingssonen i akviferen	d_{mix}	5,8697689	2,5	m	Beregnet (ligning (10) i SFT 99:01a)
Data brukt til beregning av konsentrasjon i overflatevann					
Vannføring i overflatevann	Q_{sw}	500000	725000	$m^3/år$	Avrenning fra nedbørfeltet til Tveitevatnet
Bredden av det forurensende området vinkelrett på retningen av grunnvannsstrømmen	L_{sw}	7,34	150	m	Målt på strømningskart langs med grunnvannskoter

Beregnet hastighet på grunnvannstrømning	Q_{di}	271,74006	10347,75 m ³ /år	Beregnet ($k \cdot i \cdot d_{mix} \cdot L_{SW}$)
--	----------	-----------	-----------------------------	---

Stoff	Beregnet Referanse-jordkonsentrasjon (mg/kg)									
	Totalt C _{he}	Oralt jordinntak C _{is}	Hudkontakt C _{du}	Inhalering støv C _{id}	Gass C _{iv}	Drikkevann C _{iv}	Grønnsaker C _{ig}	Fisk C _{if}		
Sum alifater > C5-C10	4,8E+03	1,5E+05	2,4E+04	1,1E+09	4,4E+04			7,2E+03		
Alifater >C10-C12	5,2E+03	1,5E+05	2,4E+04	1,1E+09	2,1E+05			7,3E+03		
Alifater >C12-C35	5,3E+03	1,5E+05	2,4E+04	1,1E+09	1,0E+06			7,2E+03		
Arsen	3,2E-01	6,0E+01	5,9E+01	2,7E+03				3,3E-01		
Benzo(a)pyren	8,5E-01	1,4E+01	2,1E+00	1,2E+02	3,3E+05			1,6E+00		
Bly	2,2E+02	1,5E+03	8,0E+03	5,3E+05				2,7E+02		
Cyanid fri	2,0E+02	1,8E+04	1,9E+03	4,2E+07	2,3E+04			2,3E+02		
Fluoranten	3,3E+03	5,8E+04	9,6E+03	1,4E+08	1,4E+09			5,6E+03		
Fluoren	3,4E+03	5,8E+04	9,6E+03	1,4E+08	4,7E+07			5,9E+03		
Kadmium	1,7E+00	1,5E+03	3,4E+02	6,0E+03				1,7E+00		
Kobber	4,6E+03	7,3E+05		1,8E+09				4,7E+03		
Krom totalt (III + VI)	3,2E+02	1,5E+06	5,3E+05	3,2E+02				5,2E+05		
Kvikksølv	5,6E+01	6,9E+02	4,5E+02	1,2E+06	5,2E+02			8,2E+01		
Nikkel	5,6E+02	7,3E+03	6,8E+02	1,3E+04				8,7E+03		
PAH totalt	1,4E+01	2,2E+02	3,3E+01	1,9E+03	5,3E+06			2,6E+01		
PCB CAS1336-36-3	1,6E-01	1,3E+01	5,8E+00	4,6E+03	1,4E+05			1,6E-01		
Pyrene	2,5E+03	4,4E+04	7,2E+03	1,1E+08	1,5E+09			4,2E+03		
Sink	3,4E+04	1,5E+06	2,4E+06	3,5E+09				3,5E+04		

Stoff	Målt jordkonsentrasjon			TRINN 1		TRINN 2										
	Antall prøver	Max C _{s, max} (mg/kg)	Middel C _{s, middel} (mg/kg)	Norm- verdi jord (mg/ kg)	C _{s, max} over- skrider norm- verdi	Heiserisiko		Beregnet kons. fra max jordkons.			Beregnet kons. fra middel jord					
						C _{he} aktuelt arealbruk (mg/kg)	C _{s, max} over- skrider C _{he}	Grunn- vann C _{gw, max} (mg/l)	Resipi- ent C _{sw, max} (mg/l)	Innen- dørsluft C _{ia, max} (mg/l)	Grønn- saker C _{g, max} (mg/kg)	Fisk C _{f, max} (mg/l)	Grunn- vann C _{gw, mid} (mg/l)	Resipi- ent C _{sw, mid} (mg/l)	Innen- dørsluft C _{ia, mid} (mg/l)	Grønn- saker C _{g, mid} (mg/kg)
Sum alifater > C5-C10	6	13	8,01667	7	86 %	4773,635	-100 %	7E-02	1E-03	1E-04	1E+00	8E-01	4E-02	6E-04	8E-05	9E-01
Alifater >C10-C12	8	50	15,9625	30	67 %	5231,125	-99 %	2E-03	2E-05	1E-05	9E-01	1E+00	6E-04	8E-06	4E-06	3E-01
Alifater >C12-C35	28	2200	441,107	100	2100 %	5332,372	-59 %	4E-03	5E-05	1E-04	2E+01	7E+01	8E-04	1E-05	2E-05	4E+00
Arsen	27	43	17,7741	2	2050 %	2	2050 %	1E+00	2E-02	0	3E-02	4E+00	5E-01	7E-03	0	1E-02
Benso(a)pyren	29	2,9	0,40093	0,1	2800 %	0,852976	240 %	3E-05	4E-07	5E-14	3E-02	1E-02	4E-06	5E-08	7E-15	3E-03
Bly	32	1000	224,069	60	1567 %	219,8255	355 %	9E-01	1E-02	0	2E-02	8E+00	2E-01	3E-03	0	3E-03
Cyanid fri	1	1,5	1,5	1	50 %	203,6856	-99 %	1E+00	2E-02	9E-08	1E+00	2E-01	1E+00	2E-02	9E-08	1E+00
Fluoranten	29	6,5	1,10831	0,1	6400 %	3346,782	-100 %	5E-04	7E-06	2E-11	8E-02	1E-01	9E-05	1E-06	3E-12	1E-02
Fluoren	22	0,48	0,1185	0,6	-20 %	3443,234	-100 %	3E-04	4E-06	4E-11	1E-02	7E-03	7E-05	1E-06	1E-11	3E-03
Kadmium	25	5,7	2,0392	3	90 %	3	90 %	2E-01	2E-03	0	8E-02	7E+00	6E-02	8E-04	0	3E-02
Kobber	32	1700	505,756	100	1600 %	4646,402	-63 %	3E+00	4E-02	0	3E-01	4E+02	9E-01	1E-02	0	1E-01
Krom totalt (III + VI)	30	130	57,3467	25	420 %	320,0291	-59 %	4E+00	5E-02	0	5E-02	5E-01	2E+00	2E-02	0	2E-02
Kvikksølv	32	5,5	1,23981	1	450 %	56,12409	-90 %	2E-02	3E-04	6E-07	6E-04	7E-02	5E-03	8E-05	1E-07	1E-04
Nikkel	32	500	70,1094	50	900 %	558,5157	-10 %	4E+00	6E-02	0	4E-01	6E-01	6E-01	9E-03	0	6E-02
PAH totalt	30	35	5,47963	2	1650 %	13,64762	156 %	3E-04	5E-06	4E-10	3E-01	1E-01	5E-05	7E-07	6E-11	5E-02
PCB CAS1336-36-3	9	0,31	0,07922	0,01	3000 %	0,15655	98 %	2E-05	2E-07	3E-13	6E-03	1E-02	4E-06	6E-08	8E-14	2E-03
Pyrene	29	4,9	0,93607	0,19	2479 %	2516,23	-100 %	4E-04	6E-06	1E-11	6E-02	7E-02	8E-05	1E-06	2E-12	1E-02
Sink	32	4800	1531,19	100	4700 %	33535,92	-86 %	4E+01	6E-01	0	1E+01	3E+02	1E+01	2E-01	0	4E+00

Stoff	Målt jordkonsentrasjon				Fisk C _{f,mid} (mg/l)
	Antall prøver	Max C _{s, max} (mg/kg)	Middel C _{s, middel} (mg/kg)	kons.	
Sum alifater > C5-C10	6	13	8,01667	5E-01	
Alifater >C10-C12	8	50	15,9625	5E-01	
Alifater >C12-C35	28	2200	441,107	1E+01	
Arsen	27	43	17,7741	1E+00	
Benso(a)pyren	29	2,9	0,40093	2E-03	
Bly	32	1000	224,069	2E+00	
Cyanid fri	1	1,5	1,5	2E-01	
Fluoranten	29	6,5	1,10831	2E-02	
Fluoren	22	0,48	0,1185	2E-03	
Kadmium	25	5,7	2,0392	3E+00	
Kobber	32	1700	505,756	1E+02	
Krom totalt (III + VI)	30	130	57,3467	2E-01	
Kvikksølv	32	5,5	1,23981	2E-02	
Nikkel	32	500	70,1094	9E-02	
PAH totalt	30	35	5,47963	2E-02	
PCB CAS1336-36-3	9	0,31	0,07922	3E-03	
Pyrene	29	4,9	0,93607	1E-02	
Sink	32	4800	1531,19	9E+01	

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Stoff	Antall prøver	Max C _{s, max} (mg/kg)	Middel C _{s, middel} (mg/kg)	1B 0-1	P2 0-1	P3 0-1	P4 0-1	P5 0-1	P6 0-1	P12 topp	96 0-1	92 0-0,5	87 0-0,4
Sum alifater > C5-C10				<1,2	<1,2	<1,2	<1,2	<1,2	<1,2	<1,2	<5,0	<5,0	<5,0
Alifater >C10-C12				<1,2	<1,2	<1,2	<1,2	<1,2	<1,2	<1,2	<5,0	<5,0	<5,0
Alifater >C12-C35	7	690	237,857	690	230	520	59	58	85	<40	<40	<40	23
Arsen	8	25	7,1375	11	0,2	0,54	0,63	0,14	0,06	1,6	1,4	1,3	2,8
Benso(a)pyren	9	0,63	0,21122	0,059	0,2	0,54	0,63	0,14	0,06	0,012	0,01	<0,01	0,25
Bly	11	1000	150,873	190	230	1000	55	58	47	12	8,8	2,7	52
Cyanid fri				<1,0	<1,0	<1,0	<1,0	<1,0	<1,0				
Fluoranten	9	1	0,29789	0,23	0,38	1	0,3	0,24	0,089	0,012	0,02	<0,01	0,41
Fluoren	5	0,13	0,0446	0,029	0,041	0,13	0,013	<0,005	<0,005	<0,005	<0,01	<0,01	0,01
Kadmium	6	5,7	1,61667	1,7	1,6	5,7	<0,3	<0,3	0,4	0,1	<0,055	<0,054	0,2
Kobber	11	1600	264,364	260	530	1600	88	120	47	23	57	23	140
Krom totalt (III + VI)	10	130	54,8	89	48	130	20	29	30	73	49	35	35
Kvikksølv	11	4,6	0,70673	1,3	0,84	4,6	0,19	0,35	0,21	0,03	0,041	0,001	0,2
Nikkel	11	89	33,5455	47	42	89	19	21	19	18	40	29	21
PAH totalt	9	6,9	2,17	1,2	2,5	6,9	4	1,4	0,6	0,1	0,13	<0,20	2,7
PCB CAS1336-36-3	3	0,15	0,07633	0,15	0,011	0,068	<0,005	<0,005	<0,005	<0,005			
Pyrene	9	0,98	0,27289	0,24	0,33	0,98	0,25	0,2	0,075	0,011	0,02	<0,01	0,35
Sink	11	4400	754,545	1500	1200	4400	260	280	190	54	140	63	180

Tabell I. Eksponeringsveier ved aktuell arealbruk. (Kun verdier i gull felt kan endres. Endringer skal begrunnes.)				
Parametre	Standard verdi	Anvendt verdi	Enhet	Begrunnelse (Gule celler må fylles)
Eksponeeringstid for oralt inntak av jord (voksne)	365 8	80 dager/år 2 timer/dag		Fotballtrening 2t 2 dager i uke i perioden mars-november
Eksponeeringstid for hudkontakt med jord (barn)	80 8	80 dager/år 8 timer/dag		
Eksponeeringstid for hudkontakt med jord (voksne)	45 8	45 dager/år 8 timer/dag		
Oppholdstid utendørs (barn)	365 24	100 dager/år 2 timer/dag		Fotballtrening og lek, området er tilgjengelig for barn hele tiden
Oppholdstid utendørs (voksne)	365 24	80 dager/år 2 timer/dag		Fotballtrening 2t 2 dager i uke i perioden mars-november
Oppholdstid innendørs (barn)	365 24	80 dager/år 2 timer/dag		Trening i Turnkassen og Gimlehallen
Oppholdstid innendørs (voksne)	365 24	80 dager/år 2 timer/dag		Trening i Turnkassen og Gimlehallen
Fraksjon av grunnvann fra lokaliteten brukt som drikkevann	100 %	0 % UAKTUELL		
Fraksjon av inntak av grønnsaker dyrket på lokaliteten	30 %	0 % UAKTUELL		
Fraksjon av inntak av fisk fra nærliggende resipient	100 %	10 %		Lite fiskeing etter at forurensningssituasjonen ble kjent

Tabell II. Transport og reaksjonsmekanismer (tabell 21 s.99 i SFT 99:01A; Kun verdier i gule felt kan endres. Endringer skal begrunnes.)				
Parametre	Symbol	Standard verdi	Anvendt verdi	Begrunnelse (Gule celler må fylles)
Jordspesifikke data				
Vanninnhold i jord	θ_w	0,2	0,2	l vann/l jord
Luftinnhold i jord	θ_a	0,2	0,2	l luft/l jord
Jordas tetthet	ρ_s	1,7	1,7	kg/l jord
Fraksjon organisk karbon i jord	f_{oc}	1 %	10 %	Analyseresultater
Jorda porøsitet	ϵ	40 %	40 %	
Parametre brukt til beregning av konsentrasjon i innedørsluft				
Innvendig volum av huset	V_{hus}	240	3600 m ³	Takhøyde på 4 meter
Areal under huset	A	100	900 m ²	Areal Turnkasse
Utskiftingshastighet for luft i huset	I	12	12 d ⁻¹	
Innløkkingshastighet av poreluft	L	2,4	2,4 m ³ /d	
Dybde fra kjellergulv til forurensning	Z	0,5	1 m	Forutsetter at øverste meter er masseuskiftet
Diffusiviteten i ren luft	D_o	0,7	0,7 m ² /d	
Data brukt til beregning av konsentrasjon i grunnvann				
Jordas hydraulisk konduktivitet	k	0,00001 315,36	0,000035 m/s 1103,76 m/år	Beregnet ved hjelp av slugtetter i brønner
Avstand til brønn	X	0	0 m	
Lengden av det forurensende området i grunnvannsstrømmens retning	L_{gw}	50	500 m	Målt på strømningskart vinkelrett på grunnvannskoter
Infiltrasjons faktor	IF	0,141	0,18 år/m	Sandig topplag
Gjennomsnittlig årlig nedbørmengde	P	730	2200 mm/år	DMNI Årsmiddel
Infiltrasjonshastigheten	I	0,0751389	0,8712 m/år	Beregnet (IF • P ²)
Hydraulisk gradient	i	0,02	0,025 m/m	Maksgradient fra strømningskart
Tykkelsen av akviferen	d_a	10	2,5 m	Gjennomsnitt
Tykkelsen av blandingssonen i akviferen	d_{mix}	5,8697689	2,5 m	Beregnet (ligning (10) i SFT 99:01a)
Data brukt til beregning av konsentrasjon i overflatevann				
Vannføring i overflatevann	Q_{sw}	500000	725000 m ³ /år	Avrenning fra nedbørfeltet til Tveitevatnet
Bredden av det forurensende området vinkelrett på retningen av grunnvannsstrømmen	L_{sw}	7,34	150 m	Målt på strømningskart langs med grunnvannskoter

Beregnet hastighet på grunnvannstrømning	Q_{di}	271,74006	10347,75 m ³ /år	Beregnet ($k \cdot i \cdot d_{mix} \cdot L_{SW}$)
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Stoff	Beregnet Referanse-jordkonsentrasjon (mg/kg)										
	Totalt	Oralt jordinntak	Hudkontakt	Inhalering støv	Gass	Drikkevann	Grønnsaker	Fisk			
	C _{he}	C _{is}	C _{du}	C _{ld}	C _{iv}	C _{iw}	C _{ig}	C _{if}			
Alifater >C12-C35	5,3E+03	1,5E+05	2,4E+04	1,1E+09	1,0E+06			7,2E+03			
Arsen	3,2E-01	6,0E+01	5,9E+01	2,7E+03				3,3E-01			
Benso(a)pyren	8,5E-01	1,4E+01	2,1E+00	1,2E+02	3,3E+05			1,6E+00			
Bly	2,2E+02	1,5E+03	8,0E+03	5,3E+05				2,7E+02			
Fluoranten	3,3E+03	5,8E+04	9,6E+03	1,4E+08	1,4E+09			5,6E+03			
Fluoren	3,4E+03	5,8E+04	9,6E+03	1,4E+08	4,7E+07			5,9E+03			
Kadmium	1,7E+00	1,5E+03	3,4E+02	6,0E+03				1,7E+00			
Kobber	4,6E+03	7,3E+05		1,8E+09				4,7E+03			
Krom totalt (III + VI)	3,2E+02	1,5E+06	5,3E+05	3,2E+02				5,2E+05			
Kvikksølv	5,6E+01	6,9E+02	4,5E+02	1,2E+06	5,2E+02			8,2E+01			
Nikkel	5,6E+02	7,3E+03	6,8E+02	1,3E+04				8,7E+03			
PAH totalt	1,4E+01	2,2E+02	3,3E+01	1,9E+03	5,3E+06			2,6E+01			
PCB CAS1336-36-3	1,6E-01	1,3E+01	5,8E+00	4,6E+03	1,4E+05			1,6E-01			
Pyrene	2,5E+03	4,4E+04	7,2E+03	1,1E+08	1,5E+09			4,2E+03			
Sink	3,4E+04	1,5E+06	2,4E+06	3,5E+09				3,5E+04			

Stoff	Målt jordkonsentrasjon				TRINN 1			TRINN 2								
	Antall prøver	Max C _{s, max} (mg/kg)	Middel C _{s, middel} (mg/kg)	Norm- verdi jord (mg/ kg)	C _{s, max} over- skridet norm- verdi	Heiserisiko		Beregnet kons. fra max jordkons.			Beregnet kons. fra middel jord					
						C _{he} aktuelt arealbruk (mg/kg)	C _{s, max} over- skridet C _{he}	Grunn- vann C _{gw, max} (mg/l)	Resipi- ent C _{sw, max} (mg/l)	Innen- dørsluft C _{ia, max} (mg/l)	Grønn- saker C _{g, max} (mg/kg)	Fisk C _{f, max} (mg/l)	Grunn- vann C _{gw, mid} (mg/l)	Resipi- ent C _{sw, mid} (mg/l)	Innen- dørsluft C _{ia, mid} (mg/l)	Grønn- saker C _{g, mid} (mg/kg)
Alifater >C12-C35	7	690	237,857	100	590 %	5332,372	-87 %	1E-03	2E-05	4E-05	6E+00	2E+01	4E-04	6E-06	1E-05	2E+00
Arsen	8	25	7,1375	2	1150 %	2	1150 %	7E-01	1E-02	0	2E-02	2E+00	2E-01	3E-03	0	5E-03
Benso(a)pyren	9	0,63	0,21122	0,1	530 %	0,852976	-26 %	6E-06	8E-08	1E-14	5E-03	2E-03	2E-06	3E-08	4E-15	2E-03
Bly	11	1000	150,873	60	1567 %	219,8255	355 %	9E-01	1E-02	0	2E-02	8E+00	1E-01	2E-03	0	2E-03
Fluoranten	9	1	0,29789	0,1	900 %	3346,782	-100 %	8E-05	1E-06	3E-12	1E-02	2E-02	2E-05	3E-07	9E-13	4E-03
Fluoren	5	0,13	0,0446	0,6	-78 %	3443,234	-100 %	8E-05	1E-06	1E-11	3E-03	2E-03	3E-05	4E-07	4E-12	1E-03
Kadmium	6	5,7	1,61667	3	90 %	3	90 %	2E-01	2E-03	0	8E-02	7E+00	5E-02	7E-04	0	2E-02
Kobber	11	1600	264,364	100	1500 %	4646,402	-66 %	3E+00	4E-02	0	3E-01	4E+02	5E-01	7E-03	0	5E-02
Krom totalt (III + VI)	10	130	54,8	25	420 %	320,0291	-59 %	4E+00	5E-02	0	5E-02	5E-01	2E+00	2E-02	0	2E-02
Kvikksølv	11	4,6	0,70673	1	360 %	56,12409	-92 %	2E-02	3E-04	5E-07	5E-04	6E-02	3E-03	4E-05	8E-08	8E-05
Nikkel	11	89	33,5455	50	78 %	558,5157	-84 %	8E-01	1E-02	0	8E-02	1E-01	3E-01	4E-03	0	3E-02
PAH totalt	9	6,9	2,17	2	245 %	13,64762	-49 %	7E-05	9E-07	7E-11	6E-02	3E-02	2E-05	3E-07	2E-11	2E-02
PCB CAS1336-36-3	3	0,15	0,07633	0,01	1400 %	0,15655	-4 %	8E-06	1E-07	2E-13	3E-03	5E-03	4E-06	6E-08	8E-14	1E-03
Pyrene	9	0,98	0,27289	0,19	416 %	2516,23	-100 %	8E-05	1E-06	2E-12	1E-02	1E-02	2E-05	3E-07	6E-13	3E-03
Sink	11	4400	754,545	100	4300 %	33535,92	-87 %	4E+01	5E-01	0	1E+01	3E+02	7E+00	9E-02	0	2E+00

Stoff	Målt jordkonsentrasjon				Kons. Fisk
	Antall prøver	Max C _{s, max} (mg/kg)	Middel C _{s, middel} (mg/kg)	C _{i, mid} (mg/l)	
Alifater >C12-C35	7	690	237,857	7E+00	
Arsen	8	25	7,1375	6E-01	
Benso(a)pyren	9	0,63	0,21122	8E-04	
Bly	11	1000	150,873	1E+00	
Fluoranten	9	1	0,29789	5E-03	
Fluoren	5	0,13	0,0446	6E-04	
Kadmium	6	5,7	1,61667	2E+00	
Kobber	11	1600	264,364	6E+01	
Krom totalt (III + VI)	10	130	54,8	2E-01	
Kvikksølv	11	4,6	0,70673	9E-03	
Nikkel	11	89	33,5455	4E-02	
PAH totalt	9	6,9	2,17	8E-03	
PCB CAS1336-36-3	3	0,15	0,07633	3E-03	
Pyrene	9	0,98	0,27289	4E-03	
Sink	11	4400	754,545	5E+01	