


Analytical Report Nr. AR-21-EP-027481-01
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Date 16.11.2021
Sample arrived 10.11.2021
Our reference: EUAA55-00008225
Client Code: EP0000006
Maves OÜ
Technical contact for your orders Maarja-Liis Paap
Artto Pello

Marja tn 4d

10617 Tallinn

ESTONIA

Email: artto@maves.ee

Sample number	337-2021-00028321	337-2021-00028322	337-2021-00028323	337-2021-00028324	337-2021-00028325
Client sample code	P1	P2	P3	P4	P5
Sample reference	P1 1,8-2,3 m	P2 0,8-1,3 m	P3 0,8-1,3 m	P4 1,0-1,3 m	P5 1,0-1,5 m
Sample description	Soil	Soil	Soil	Soil	Soil
Sampling date and time	09.11.2021.00:00	09.11.2021.00:00	09.11.2021.00:00	09.11.2021.00:00	09.11.2021.00:00

Physico-chemical test

Dry matter	EPDRY	%	85	85	86	87	83
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HYDROCARBONS

Nonpolar TPH C10-C21	EPTPH	mg/kg dw	<20	360	340	<20	<20
Nonpolar TPH C21-C40	EPTPH	mg/kg dw	70	84	420	<20	25
Nonpolar TPH C10-C40	EPTPH	mg/kg dw	74	440	770	<20	36

BTEX

Benzene	EPTX	mg/kg dw	<0,0035	<0,0035	<0,0035	<0,0035	<0,0035
Toluene	EPTX	mg/kg dw	<0,1	<0,1	<0,1	<0,1	<0,1
Ethylbenzene	EPTX	mg/kg dw	<0,1	<0,1	<0,1	<0,1	<0,1
m/p-xylene	EPTX	mg/kg dw	<0,02	<0,02	<0,02	<0,02	<0,02
o-Xylene	EPTX	mg/kg dw	<0,01	<0,01	<0,01	<0,01	<0,01

ICP-MS related test

Aqua regia digestion	EPE05	Done	Done	Done	Done	Done
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Elements

Lead (Pb)	EP0FK	mg/kg dw	11	480	55	6,1	290
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Sample number	337-2021-00028326	337-2021-00028327	337-2021-00028328	337-2021-00028329	337-2021-00028330
Client sample code	P6	P7	P8	P9	P10
Sample reference	P6 1,1-1,6 m	P7 1,0-1,5 m	P8 1,3-1,8 m	P9 1,3-1,8 m	P10 1,4-1,8 m
Sample description	Soil	Soil	Soil	Soil	Soil
Sampling date and time	09.11.2021.00:00	09.11.2021.00:00	09.11.2021.00:00	09.11.2021.00:00	09.11.2021.00:00

Physico-chemical test

Dry matter	EPDRY	%	85	86	89	90	90
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Eurofins Environment Testing Estonia OÜ

 Paavli 5/3
 10412 Tallinn
 ESTONIA

 estonia@eurofins.com
 www.eurofins.ee

 Business Registry Code: 12893983
 VAT number: EE101823296



Sample number	337-2021-00028326		337-2021-00028327		337-2021-00028328		337-2021-00028329		337-2021-00028330	
Client sample code	P6		P7		P8		P9		P10	
Sample reference	P6 1,1-1,6 m		P7 1,0-1,5 m		P8 1,3-1,8 m		P9 1,3-1,8 m		P10 1,4-1,8 m	
Sample description	Soil		Soil		Soil		Soil		Soil	
Sampling date and time	09.11.2021.00:00		09.11.2021.00:00		09.11.2021.00:00		09.11.2021.00:00		09.11.2021.00:00	
Dry matter	EPDRY	%	85	86	89	90	90			
HYDROCARBONS										
Nonpolar TPH C10-C21	EPTPH	mg/kg dw	12000	92	4200	220	20			
Nonpolar TPH C21-C40	EPTPH	mg/kg dw	9700	240	120	370	<20			
Nonpolar TPH C10-C40	EPTPH	mg/kg dw	22000	340	4300	580	31			
BTEX										
Benzene	EPTX	mg/kg dw	0,76	<0,0035	0,0047	<0,0035	<0,0035			
Toluene	EPTX	mg/kg dw	<0,1	<0,1	<0,1	<0,1	<0,1			
Ethylbenzene	EPTX	mg/kg dw	0,43	<0,1	0,51	<0,1	<0,1			
m/p-xylene	EPTX	mg/kg dw	1,3	<0,02	16	0,12	<0,02			
o-Xylene	EPTX	mg/kg dw	0,013	<0,01	<0,01	<0,01	<0,01			
ICP-MS related test										
Aqua regia digestion	EPE05		Done	Done	Done	Done	Done			
Elements										
Lead (Pb)	EP0FK	mg/kg dw	270	570	7,7	370	6,2			

Sample number	337-2021-00028331		337-2021-00028332	
Client sample code	P11		P12	
Sample reference	P11 1,5-1,8 m		P12 0,9-1,4 m	
Sample description	Soil		Soil	
Sampling date and time	09.11.2021.00:00		09.11.2021.00:00	

Physico-chemical test										
Dry matter	EPDRY	%	82	76						
HYDROCARBONS										
Nonpolar TPH C10-C21	EPTPH	mg/kg dw	33	990						
Nonpolar TPH C21-C40	EPTPH	mg/kg dw	92	150						
Nonpolar TPH C10-C40	EPTPH	mg/kg dw	120	1100						
BTEX										
Benzene	EPTX	mg/kg dw	<0,0035	0,0041						
Toluene	EPTX	mg/kg dw	<0,1	<0,1						
Ethylbenzene	EPTX	mg/kg dw	<0,1	<0,1						
m/p-xylene	EPTX	mg/kg dw	<0,02	0,34						
o-Xylene	EPTX	mg/kg dw	<0,01	<0,01						
ICP-MS related test										
Aqua regia digestion	EPE05		Done	Done						
Elements										
Lead (Pb)	EP0FK	mg/kg dw	19	17						


Method information

Testcode	Parameter name	Default MU	Default LOQ	Accredited	Method	Laboratory
Physico-chemical test						
EPDRY	Dry matter	10% x <70% 3% x ≥70%	3	Yes	Internal method RA9000 based on ISO 11465:1993, Gravimetry	EP L272
HYDROCARBONS						
EPTPH	Nonpolar TPH C10-C21	40%	20	Yes	Internal Method RA9002A based on SFS-EN ISO 16703:2011, GC-FID	EP L272
EPTPH	Nonpolar TPH C21-C40	40%	20	Yes	Internal Method RA9002A based on SFS-EN ISO 16703:2011, GC-FID	EP L272
EPTPH	Nonpolar TPH C10-C40	40%	20	Yes	Internal Method RA9002A based on SFS-EN ISO 16703:2011, GC-FID	EP L272
BTEX						
EPTEX	Benzene	30%	0.0035	Yes	Internal Method RA9013 based on: EPA 5021, HS-GC-MS	EP L272
EPTEX	Toluene	30%	0.1	Yes	Internal Method RA9013 based on: EPA 5021, HS-GC-MS	EP L272
EPTEX	Ethylbenzene	30%	0.1	Yes	Internal Method RA9013 based on: EPA 5021, HS-GC-MS	EP L272
EPTEX	m/p-xylene	30%	0.02	Yes	Internal Method RA9013 based on: EPA 5021, HS-GC-MS	EP L272
EPTEX	o-Xylene	30%	0.01	Yes	Internal Method RA9013 based on: EPA 5021, HS-GC-MS	EP L272
ICP-MS related test						
EPE05	Aqua regia digestion			Yes	EPA Method 3051A:2007	EP L272
Elements						
EP0FK	Lead (Pb)	25%	1	Yes	EVS-EN 13657:2003; EVS-EN ISO 17294-2:2016; EVS-EN ISO 17294-1:2006; EVS-EN 16173:2012; EVS-EN 16171:2016	EP L272

Laboratory

EP L272 Eurofins Environment Testing Estonia (Tallinn) EAK acc num. EVS-EN ISO/IEC 17025:2017 EAK L272

Method

 EPA Method 3051A:2007
 EVS-EN 13657:2003
 Internal method RA9000 based on Please ask the laboratory
 ISO 11465:1993
 Internal Method RA9002A based on
 SFS-EN ISO 16703:
 Internal Method RA9013 based on:
 EPA 5021



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Date 16.11.2021

SIGNATURE

Gerda Alekand

Müügiuht

GerdaAlekand@eurofins.com

Report electronically validated by

Additional information

Sampling person: Artto Pello

Sampling location: Tartu, Raatuse T123, Raatuse T125, Puiestee 114

Analysis was performed between sample arrival date and Analytical Report date.

EXPLANATORY NOTE

This certificate may only be copied as whole. The results apply solely to the samples received and analyzed. Conclusion and other comments are not accredited.


Analytical Report Nr. AR-21-EP-027650-01
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Date 18.11.2021
Sample arrived 10.11.2021
Our reference: EUAA55-00008226
Client Code: EP0000006
Maves OÜ
Technical contact for your orders Maarja-Liis Paap
Artto Pello

Marja tn 4d

10617 Tallinn

ESTONIA

Email: artto@maves.ee

Sample number	337-2021-00028333	337-2021-00028334	337-2021-00028335	337-2021-00028336	337-2021-00028337
Client sample code	N1; M1	N3; M3	N5; M5	N9; M9	N10; M10
Sample reference	N1; M1	N3; M3	N5; M5	N9; M9	N10; M10
Sample description	Naturally occurring water	Naturally occurring water	Naturally occurring water	Naturally occurring water	Naturally occurring water
Sampling date and time	09.11.2021.00:00	09.11.2021.00:00	09.11.2021.00:00	09.11.2021.00:00	09.11.2021.00:00

HYDROCARBONS

	337-2021-00028333	337-2021-00028334	337-2021-00028335	337-2021-00028336	337-2021-00028337
Nonpolar TPH C10-C21 RZP0L mg/l	0.51	0.81	0.81	360	10
Nonpolar TPH C21-C40 RZP0L mg/l	19	8.7	21	23	26
TPH (sum C10-C40) RZP0L mg/l	19	9.5	22	380	36

ICP-MS related test

	337-2021-00028333	337-2021-00028334	337-2021-00028335	337-2021-00028336	337-2021-00028337
Nitric Acid digestion EPE02	Done	Done	Done	Done	Done

Elements, water, HNO3

	337-2021-00028333	337-2021-00028334	337-2021-00028335	337-2021-00028336	337-2021-00028337
Copper (Cu) EP02I µg/l	1800	760	920	34	180
Zinc (Zn) EP02P µg/l	6100	1700	1500	200	690
Cadmium (Cd) EP02F µg/l	11	4,2	3,2	0,30	3,4
Mercury (Hg) EP02E µg/l	3,7	<0,1	0,49	0,15	0,39
Nickel (Ni) EP027 µg/l	1100	130	480	59	140
Lead (Pb) EP024 µg/l	4400	660	1800	70	210
Chromium (Cr) EP025 µg/l	1200	65	140	58	160
Arsenic (As) EP022 µg/l	270	20	42	14	46

Sample number 337-2021-00028338
Client sample code N11; M11
Sample reference N11; M11
Sample description Naturally occurring water
Sampling date and time 09.11.2021.00:00
HYDROCARBONS

Nonpolar TPH C10-C21 RZP0L mg/l	0.60
Nonpolar TPH C21-C40 RZP0L mg/l	2.0

Eurofins Environment Testing Estonia OÜ

 Paavli 5/3
 10412 Tallinn
 ESTONIA

 estonia@eurofins.com
 www.eurofins.ee

 Business Registry Code: 12893983
 VAT number: EE101823296



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Date 18.11.2021

Sample number 337-2021-00028338
Client sample code N11; M11

Sample reference N11; M11
Sample description Naturally occurring water
Sampling date and time 09.11.2021.00:00

TPH (sum C10-C40) RZP0L mg/l 2.6

ICP-MS related test

Nitric Acid digestion EPE02 Done

Elements, water, HNO3

Copper (Cu)	EP02I	µg/l	36
Zinc (Zn)	EP02P	µg/l	250
Cadmium (Cd)	EP02F	µg/l	0,61
Mercury (Hg)	EP02E	µg/l	<0,1
Nickel (Ni)	EP027	µg/l	34
Lead (Pb)	EP024	µg/l	150
Chromium (Cr)	EP025	µg/l	39
Arsenic (As)	EP022	µg/l	18


Method information

Testcode	Parameter name	Default MU	Default LOQ	Accredited	Method	Laboratory
HYDROCARBONS						
RZP0L	Nonpolar TPH C10-C21	26%	0.02	Yes	SFS-EN ISO 9377-2	RZ T039
RZP0L	Nonpolar TPH C21-C40	26%	0.02	Yes	SFS-EN ISO 9377-2	RZ T039
RZP0L	TPH (sum C10-C40)	26%	0.02	Yes	SFS-EN ISO 9377-2	RZ T039
ICP-MS related test						
EPE02	Nitric Acid digestion			Yes	EVS-EN ISO 15587-2:2002; EPA Method 3015A:2007	EP L272
Elements, water, HNO3						
EP02I	Copper (Cu)	19%	0.5	Yes	EVS-EN ISO 17294-2:2016; EVS-EN ISO 17294-1:2006; EPA Method 3015A:2007	EP L272
EP02P	Zinc (Zn)	19%	2	Yes	EVS-EN ISO 17294-2:2016; EVS-EN ISO 17294-1:2006; EPA Method 3015A:2007	EP L272
EP02F	Cadmium (Cd)	23%	0.01	Yes	EVS-EN ISO 17294-2:2016; EVS-EN ISO 17294-1:2006; EPA Method 3015A:2007	EP L272
EP02E	Mercury (Hg)	19%	0.02	Yes	EVS-EN ISO 17294-2:2016; EVS-EN ISO 17294-1:2006; EPA Method 3015A:2007	EP L272
EP027	Nickel (Ni)	17%	0.5	Yes	EVS-EN ISO 17294-2:2016; EVS-EN ISO 17294-1:2006; EPA Method 3015A:2007	EP L272
EP024	Lead (Pb)	22%	0.2	Yes	EVS-EN ISO 17294-2:2016; EVS-EN ISO 17294-1:2006; EPA Method 3015A:2007	EP L272
EP025	Chromium (Cr)	20%	0.5	Yes	EVS-EN ISO 17294-2:2016; EVS-EN ISO 17294-1:2006; EPA Method 3015A:2007	EP L272
EP022	Arsenic (As)	18%	1	Yes	EVS-EN ISO 17294-2:2016; EVS-EN ISO 17294-1:2006; EPA Method 3015A:2007	EP L272

Laboratory

EP L272	Eurofins Environment Testing Estonia (Tallinn)	EAK acc num. EVS-EN ISO/IEC 17025:2017 EAK L272
RZ T039	Eurofins Environment Testing Finland (Lahti)	FINAS acc num. SFS-EN ISO/IEC 17025:2017 FINAS T039

Method

EVS-EN ISO 15587-2:2002
 EVS-EN ISO 17294-2:2016
 SFS-EN ISO 9377-2

SIGNATURE


Maarja-Liis Paap

Müügiassistent

Maarja-LiisPaap@eurofins.com

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Eurofins Environment Testing Estonia OÜ

Paavli 5/3
 10412 Tallinn
 ESTONIA

estonia@eurofins.com
 www.eurofins.ee

Business Registry Code: 12893983
 VAT number: EE101823296



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Date 18.11.2021

SIGNATURE



Maarja-Liis Paap

Müügiassistent

Maarja-LiisPaap@eurofins.com

Report electronically validated by

Additional information

Sampling person: Artto Pello

Sampling location: Tartu, Raatuse T123, Raatuse T125, Puiestee 114

Analysis was performed between sample arrival date and Analytical Report date.

EXPLANATORY NOTE

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