

检测报告

客户信息

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传真 -
Email -

订单号 -
样品 空白(4) 土壤(6)
项目 -

实验室信息

管理者 SGS-CSTC
实验室 环境实验室

地址 中国 天津 经济技术开发区第五大街41号SGS大厦 (邮编300457)

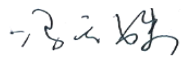
电话 (86-22) 65288272
传真 (86-22) 25293826
Email Tianjin.env@sgs.com

报告编号 TJE20-01608 R0
SGS编号 0000017901
报告日期 2020/09/04

备注

1. 结果适用于收到的样品。

报告批准人



冯天姝
报告编制



孙莹
审核



窦铭超
批准人



SGS-CSTC Inspection & Testing Services (Tianjin) Co., Ltd.
Environment Laboratory

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Should you have any queries or objection to the test report, please contact us within 10 days after receiving the report.

符号表/Legend

- NA 样品未测试该参数/The sample was not analysed for this analyte
- ↑ 提高检出限/Detection limit raised
- ↓ 降低检出限/Detection limit lowered
- ND 未检出/Not Detected



		实验室编号	20-01608.001	20-01608.002	20-01608.003	20-01608.004	
		样品名称	BR-S4(0-0.5m)	BR-S4(1.5-2.0m)	BR-S5(0-0.5m)	BR-S5(1.0-1.5m)	
		检测类别	土壤	土壤	土壤	土壤	
		样品描述	杂色稍密无异味	黄褐色中密无异味	黑褐色松散无异味	黑褐色松散无异味	
		收样日期	2020/08/21	2020/08/21	2020/08/21	2020/08/21	
分析指标	方法	单位	检出限	检测结果			
干物质	HJ 613	%	-	84.4	77.4	86.6	78.1
pH	HJ 962	-	-	8.31	8.24	8.60	8.27
挥发性有机物 代用品							
甲苯-d8	HJ 605	%	-	116	71	122	76
4-溴氟苯	HJ 605	%	-	75	74	81	89
二溴一氟甲烷	HJ 605	%	-	122	123	127	127
VOC参数							
苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
甲苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
乙苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
间&对-二甲苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
苯乙烯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
邻-二甲苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,3,5-三甲基苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,2,4-三甲基苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
氯苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,4-二氯苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,2-二氯苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,2,4-三氯苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,2,3-三氯苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
半挥发性有机物 代用品							
2-氟苯酚	HJ 834	%	-	55	38	46	40
苯酚-d6	HJ 834	%	-	50	57	59	53
硝基苯-d5	HJ 834	%	-	49	53	47	49
2-氟联苯	HJ 834	%	-	53	56	60	57
2,4,6-三溴苯酚	HJ 834	%	-	64	69	66	64
对-三联苯-d14	HJ 834	%	-	85	68	74	72
SVOC参数							
苯酚	HJ 834	mg/kg	0.1	ND	ND	ND	ND
2-氯苯酚	HJ 834	mg/kg	0.06	ND	ND	ND	ND
2-甲基苯酚	HJ 834	mg/kg	0.1	ND	ND	ND	ND
2,4-二硝基苯酚	HJ 834	mg/kg	0.1	ND	ND	ND	ND
萘	HJ 834	mg/kg	0.09	ND	ND	ND	ND
萘烯	HJ 834	mg/kg	0.09	ND	ND	ND	ND
萘	HJ 834	mg/kg	0.1	ND	ND	ND	ND
苊	HJ 834	mg/kg	0.08	ND	ND	ND	ND
菲	HJ 834	mg/kg	0.1	ND	0.1	0.2	0.3
蒽	HJ 834	mg/kg	0.1	ND	ND	ND	ND
荧蒽	HJ 834	mg/kg	0.2	ND	ND	0.5	0.6
芘	HJ 834	mg/kg	0.1	ND	0.2	ND	0.6
苯并(a)蒽	HJ 834	mg/kg	0.1	ND	ND	0.2	0.3
屈	HJ 834	mg/kg	0.1	ND	ND	0.2	0.3
苯并(b)荧蒽	HJ 834	mg/kg	0.2	ND	ND	0.4	0.7
苯并(k)荧蒽	HJ 834	mg/kg	0.1	ND	ND	0.2	0.3
苯并(a)芘	HJ 834	mg/kg	0.1	ND	ND	0.2	0.4
茚并(1,2,3-cd)芘	HJ 834	mg/kg	0.1	ND	ND	ND	0.1
二苯并(a,h)蒽	HJ 834	mg/kg	0.1	ND	ND	ND	ND
苯并(g,h,i)芘	HJ 834	mg/kg	0.1	ND	ND	ND	ND



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分析指标	方法	单位	检出限	检测结果
石油烃类				
石油烃 (C ₁₀ -C ₄₀)	HJ 1021	mg/kg	6	31 33 80 35

分析指标	方法	单位	检出限	检测结果
干物质	HJ 613	%	-	77.0 75.5
pH	HJ 962	-	-	7.93 8.16

分析指标	方法	单位	检出限	检测结果
挥发性有机物代用品				
甲苯-d8	HJ 605	%	-	101 72
4-溴氟苯	HJ 605	%	-	77 87
二溴一氟甲烷	HJ 605	%	-	129 122

分析指标	方法	单位	检出限	检测结果
VOC参数				
苯	HJ 605	mg/kg	0.05	ND ND
甲苯	HJ 605	mg/kg	0.05	ND ND
乙苯	HJ 605	mg/kg	0.05	ND ND
间&对-二甲苯	HJ 605	mg/kg	0.05	ND ND
苯乙烯	HJ 605	mg/kg	0.05	ND ND
邻-二甲苯	HJ 605	mg/kg	0.05	ND ND
1,3,5-三甲基苯	HJ 605	mg/kg	0.05	ND ND
1,2,4-三甲基苯	HJ 605	mg/kg	0.05	ND ND
氯苯	HJ 605	mg/kg	0.05	ND ND
1,4-二氯苯	HJ 605	mg/kg	0.05	ND ND
1,2-二氯苯	HJ 605	mg/kg	0.05	ND ND
1,2,4-三氯苯	HJ 605	mg/kg	0.05	ND ND
1,2,3-三氯苯	HJ 605	mg/kg	0.05	ND ND

分析指标	方法	单位	检出限	检测结果
半挥发性有机物代用品				
2-氟苯酚	HJ 834	%	-	43 40
苯酚-d6	HJ 834	%	-	47 57
硝基苯-d5	HJ 834	%	-	53 49
2-氟联苯	HJ 834	%	-	53 57
2,4,6-三溴苯酚	HJ 834	%	-	64 95
对-三联苯-d14	HJ 834	%	-	78 96

分析指标	方法	单位	检出限	检测结果
SVOC参数				
苯酚	HJ 834	mg/kg	0.1	ND ND
2-氯苯酚	HJ 834	mg/kg	0.06	ND ND
2-甲基苯酚	HJ 834	mg/kg	0.1	ND ND
2,4-二硝基苯酚	HJ 834	mg/kg	0.1	ND ND
萘	HJ 834	mg/kg	0.09	ND ND
萘烯	HJ 834	mg/kg	0.09	ND ND
萘	HJ 834	mg/kg	0.1	ND ND
苊	HJ 834	mg/kg	0.08	ND ND
菲	HJ 834	mg/kg	0.1	ND ND
蒽	HJ 834	mg/kg	0.1	ND ND
荧蒽	HJ 834	mg/kg	0.2	ND ND



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实验室编号	20-01608.005	20-01608.006
样品名称	BR-S0(0-05m)	BR-S0(1.5-2.0m)
检测类别	土壤	土壤
样品描述	黄褐色中密无异味	黄褐色中密无异味
收样日期	2020/08/21	2020/08/21

分析指标	方法	单位	检出限	检测结果	
砘	HJ 834	mg/kg	0.1	ND	0.2
苯并(a)蒽	HJ 834	mg/kg	0.1	ND	0.1
屈	HJ 834	mg/kg	0.1	ND	0.1
苯并(b)荧蒽	HJ 834	mg/kg	0.2	ND	ND
苯并(k)荧蒽	HJ 834	mg/kg	0.1	ND	ND
苯并(a)砘	HJ 834	mg/kg	0.1	ND	0.1
茚并(1,2,3-cd)砘	HJ 834	mg/kg	0.1	ND	ND
二苯并(a,h)蒽	HJ 834	mg/kg	0.1	ND	ND
苯并(g,h,i)砘	HJ 834	mg/kg	0.1	ND	ND
石油烃类					
石油烃 (C ₁₀ -C ₄₀)	HJ 1021	mg/kg	6	28	16



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		实验室编号	20-01608.007	20-01608.008	20-01608.009	20-01608.010	
		样品名称	BR-FB1	BR-TB1	BR-TB2	BR-TB3	
		检测类别	空白	空白	空白	空白	
		样品描述	-	-	-	-	
		收样日期	2020/08/21	2020/08/21	2020/08/21	2020/08/21	
分析指标	方法	单位	检出限	检测结果			
挥发性有机物							
代用品							
甲苯-d8	HJ 605	%	-	118	116	118	105
4-溴氟苯	HJ 605	%	-	75	79	73	81
二溴一氟甲烷	HJ 605	%	-	127	126	116	111
VOC参数							
苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
甲苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
乙苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
间&对-二甲苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
苯乙烯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
邻-二甲苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,3,5-三甲基苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,2,4-三甲基苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
氯苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,4-二氯苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,2-二氯苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,2,4-三氯苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND
1,2,3-三氯苯	HJ 605	mg/kg	0.05	ND	ND	ND	ND

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项目名称：中国石化润滑油有限公司滨海分公司2020年土壤及地下水自行监测



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方法列表

- HJ 613-2011 土壤 干物质和水分的测定 重量法
- HJ 962-2018 土壤pH值的测定 电位法
- HJ 605-2011 土壤和沉积物 挥发性有机物的测定 吹扫捕集/气相色谱-质谱法
- HJ 834-2017 土壤和沉积物半挥发性有机物的测定 气相色谱-质谱法
- HJ 1021-2019 土壤和沉积物 石油烃 (C10-C40)的测定 气相色谱法



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方法:HJ 613-2011

仪器名称	型号	仪器编号	出厂序号
电子天平	ME802	CHEM-012-M	B709778581

方法:HJ 962-2018

仪器名称	型号	仪器编号	出厂序号
pH计	S20	CHEM-007-C	1230445570

方法:HJ 605-2011

仪器名称	型号	仪器编号	出厂序号
吹扫捕集气相色谱质谱仪	ATOMX XYZ/7890B/5977B	CHEM-017-P	US18110003/CN18183146/US1818M027

方法:HJ 834-2017

仪器名称	型号	仪器编号	出厂序号
气相色谱质谱仪	7890B/5977B	CHEM-017-S	CN180083019/US1825M002

方法:HJ 1021-2019

仪器名称	型号	仪器编号	出厂序号
气相色谱仪-氢火焰离子检测器(双通道)	7890B	CHEM-033-D	CN16413009



TB2006582		TB2006605			
DUP	DUP	MS	MSD		
TJE20-01608.006	TJE20-01608.006	TJE20-01608.006	TJE20-01608.006		
TB2006663			TB2006876		
DUP	MS	MSD	DUP	MS	MSD
TJE20-01607.004	TJE20-01607.004	TJE20-01607.004	TJE20-01608.006	TJE20-01608.006	TJE20-01607.006

MB为方法空白结果；
LCS为实验室控制样品回收率，MS为基质加标回收率，以Recovery%表示；
DUP以及MSD为双样以及双样加标回收率的相对偏差，以RD%表示。

土壤pH值的测定 电位法 方法: HJ 962-2018

分析指标	QC批号	单位	检出限	DUP %RD
pH	TB2006582	-	-	0%

土壤和沉积物 石油烃 (C10-C40)的测定 气相色谱法 方法: HJ 1021-2019

分析指标	QC批号	单位	检出限	MB	DUP %RD	LCS %Recovery	MS %Recovery	MSD %RD
石油烃 (C ₁₀ -C ₄₀)	TB2006605	mg/kg	6	<6	1%	93%	95%	2%

土壤和沉积物半挥发性有机物的测定 气相色谱-质谱法 方法: HJ 834-2017

分析指标	QC批号	单位	检出限	MB	DUP %RD	LCS %Recovery	MS %Recovery	MSD %RD
2-氟苯酚	TB2006876	%	-	60%	3%	52%	56%	1%
苯酚-d6	TB2006876	%	-	57%	5%	57%	68%	0%
硝基苯-d5	TB2006876	%	-	57%	4%	54%	58%	0%
2-氟联苯	TB2006876	%	-	56%	2%	59%	74%	1%
2,4,6-三溴苯酚	TB2006876	%	-	66%	4%	82%	99%	0%
对-三联苯-d14	TB2006876	%	-	96%	2%	87%	101%	6%
苯酚	TB2006876	mg/kg	0.1	<0.1	0%	72%	65%	4%
2-氯苯酚	TB2006876	mg/kg	0.06	<0.06	0%	80%	63%	1%
2-甲基苯酚	TB2006876	mg/kg	0.1	<0.1	0%	71%	75%	1%
2,4-二硝基苯酚	TB2006876	mg/kg	0.1	<0.1	0%	74%	46%	6%
萘	TB2006876	mg/kg	0.09	<0.09	0%	79%	61%	0%
萘烯	TB2006876	mg/kg	0.09	<0.09	0%	79%	85%	3%
萘	TB2006876	mg/kg	0.1	<0.1	0%	79%	83%	2%
芴	TB2006876	mg/kg	0.08	<0.08	0%	77%	97%	2%
菲	TB2006876	mg/kg	0.1	<0.1	0%	84%	104%	5%
蒽	TB2006876	mg/kg	0.1	<0.1	0%	85%	94%	1%
荧蒽	TB2006876	mg/kg	0.2	<0.2	0%	91%	91%	1%
芘	TB2006876	mg/kg	0.1	<0.1	5%	78%	97%	4%
苯并(a)蒽	TB2006876	mg/kg	0.1	<0.1	6%	91%	105%	2%
屈	TB2006876	mg/kg	0.1	<0.1	4%	89%	96%	1%
苯并(b)荧蒽	TB2006876	mg/kg	0.2	<0.2	0%	100%	116%	5%



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MB为方法空白结果；
LCS为实验室控制样品回收率，MS为基质加标回收率，以Recovery%表示；
DUP以及MSD为双样以及双样加标回收率的相对偏差，以RD%表示。

土壤和沉积物半挥发性有机物的测定 气相色谱-质谱法 方法: HJ 834-2017 (继续)

分析指标	QC批号	单位	检出限	MB	DUP %RD	LCS %Recovery	MS %Recovery	MSD %RD
苯并(k)荧蒽	TB2006876	mg/kg	0.1	<0.1	0%	96%	115%	2%
苯并(a)蒽	TB2006876	mg/kg	0.1	<0.1	1%	93%	96%	1%
茚并(1,2,3-cd)芘	TB2006876	mg/kg	0.1	<0.1	0%	74%	84%	0%
二苯并(a,h)蒽	TB2006876	mg/kg	0.1	<0.1	0%	71%	76%	2%
苯并(g,h,i)芘	TB2006876	mg/kg	0.1	<0.1	0%	72%	73%	3%

土壤和沉积物 挥发性有机物的测定 吹扫捕集/气相色谱-质谱法 方法: HJ 605-2011

分析指标	QC批号	单位	检出限	MB	DUP %RD	LCS %Recovery	MS %Recovery	MSD %RD
甲苯-d8	TB2006663	%	-	72%	1%	76%	71%	1%
4-溴氟苯	TB2006663	%	-	71%	2%	85%	80%	2%
二溴一氟甲烷	TB2006663	%	-	107%	0%	121%	119%	2%
苯	TB2006663	mg/kg	0.05	<0.05	0%	120%	123%	6%
甲苯	TB2006663	mg/kg	0.05	<0.05	0%	90%	124%	2%
乙苯	TB2006663	mg/kg	0.05	<0.05	0%	88%	NA	NA
间&对-二甲苯	TB2006663	mg/kg	0.05	<0.05	0%	99%	NA	NA
苯乙烯	TB2006663	mg/kg	0.05	<0.05	0%	75%	NA	NA
邻-二甲苯	TB2006663	mg/kg	0.05	<0.05	0%	100%	NA	NA
1,3,5-三甲基苯	TB2006663	mg/kg	0.05	<0.05	0%	110%	NA	NA
1,2,4-三甲基苯	TB2006663	mg/kg	0.05	<0.05	0%	98%	NA	NA
氯苯	TB2006663	mg/kg	0.05	<0.05	0%	93%	127%	10%
1,4-二氯苯	TB2006663	mg/kg	0.05	<0.05	0%	97%	NA	NA
1,2-二氯苯	TB2006663	mg/kg	0.05	<0.05	0%	101%	NA	NA
1,2,4-三氯苯	TB2006663	mg/kg	0.05	<0.05	0%	110%	NA	NA
1,2,3-三氯苯	TB2006663	mg/kg	0.05	<0.05	0%	121%	NA	NA

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