

## 检测报告

## 客户信息

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电话 86 10 59965738  
传真 -  
Email 271437995@qq.com  
订单号 -  
样品 水样(5)  
项目 -

## 实验室信息

管理者 SGS-CSTC  
实验室 天津环境测试服务部  
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报告编号 TJE19-01780 R0  
SGS编号 0000013191  
报告日期 2019/11/28

## 备注

1. 结果适用于收到的样品。

## 报告批准人

田得丽

田得丽  
报告编制

孙莹

孙莹  
审核

莫铭超

莫铭超  
批准人



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### 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



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实验室编号				19-01780.001	19-01780.002	19-01780.003	19-01780.004
样品名称				BH-1A1-W	BH-1B1-W	BH-1b1-w-p	H-水0-W
样品性状				水样	水样	水样	水样
样品描述				澄清有悬浮物	澄清有悬浮物	澄清有悬浮物	澄清
收样日期				2019/11/21	2019/11/21	2019/11/21	2019/11/21
分析指标	方法	单位	检出限				
pH	GB/T 6920	-	-	7.6	7.2	7.2	7.4
氨氮	HJ 535	mg/L	0.025	1.21	0.976	0.929	1.27
高锰酸盐指数(耗氧量)	GB/T 5750.7	mg/L	0.05	2.39	7.20	6.47	3.26
挥发酚	HJ 503	mg/L	0.0003	ND	ND	ND	ND
氯化物	HJ 84	mg/L	0.007	61.1	191	182	157
硝酸盐氮 (N计)	HJ 84	mg/L	0.0036	ND	0.452	0.375	ND
亚硝酸盐 (N计)	GB 7493	mg/L	0.003	0.021	ND	ND	0.031
挥发性有机物							
代用品							
甲苯-d8	HJ 639	%	-	102	103	101	102
4-溴氟苯	HJ 639	%	-	97	97	100	99
二溴一氟甲烷	HJ 639	%	-	112	116	125	110
VOC参数							
苯	HJ 639	µg/L	0.4	ND	ND	ND	ND
甲苯	HJ 639	µg/L	0.3	ND	ND	ND	ND
乙苯	HJ 639	µg/L	0.3	ND	ND	ND	ND
苯乙烯	HJ 639	µg/L	0.2	ND	ND	ND	ND
间&对-二甲苯	HJ 639	µg/L	0.5	ND	ND	ND	ND
邻-二甲苯	HJ 639	µg/L	0.2	ND	ND	ND	ND
异丙基苯	HJ 639	µg/L	0.3	ND	ND	ND	ND
1,2,4-三甲基苯	HJ 639	µg/L	0.3	ND	ND	ND	ND
氯苯	HJ 639	µg/L	0.2	ND	ND	ND	ND
1,4-二氯苯	HJ 639	µg/L	0.4	ND	ND	ND	ND
1,2-二氯苯	HJ 639	µg/L	0.4	ND	ND	ND	ND
半挥发性有机物							
代用品							
2-氟苯酚	USEPA 8270E	%	-	51	59	51	45
苯酚-d6	USEPA 8270E	%	-	52	46	52	54
硝基苯-d5	USEPA 8270E	%	-	82	80	92	73
2-氟联苯	USEPA 8270E	%	-	84	76	73	73
2,4,6-三溴苯酚	USEPA 8270E	%	-	70	94	96	75
对-三联苯-d14	USEPA 8270E	%	-	75	78	87	75
SVOC参数							
萘	USEPA 8270E	µg/L	0.2	ND	ND	ND	ND
蒽	USEPA 8270E	µg/L	0.2	ND	ND	ND	ND
苊	USEPA 8270E	µg/L	0.2	ND	ND	ND	ND
苈	USEPA 8270E	µg/L	0.2	ND	ND	ND	ND
菲	USEPA 8270E	µg/L	0.2	ND	ND	ND	ND
蒽	USEPA 8270E	µg/L	0.2	ND	ND	ND	ND
荧蒽	USEPA 8270E	µg/L	0.2	ND	ND	ND	ND
苯并(a)蒽	USEPA 8270E	µg/L	0.2	ND	ND	ND	ND
屈	USEPA 8270E	µg/L	0.2	ND	ND	ND	ND
苯并(b)蒽	USEPA 8270E	µg/L	0.05	ND	ND	ND	ND
苯并(k)蒽	USEPA 8270E	µg/L	0.05	ND	ND	ND	ND
苯并(a)芘	USEPA 8270E	µg/L	0.05	ND	ND	ND	ND
茚并(1,2,3-cd)芘	USEPA 8270E	µg/L	0.05	ND	ND	ND	ND
二苯并(a,h)蒽	USEPA 8270E	µg/L	0.2	ND	ND	ND	ND
苯并(g,h,i)花	USEPA 8270E	µg/L	0.05	ND	ND	ND	ND
邻苯二甲酸二丁酯	USEPA 8270E	µg/L	0.5	ND	ND	ND	ND
邻苯二甲酸丁苄酯	USEPA 8270E	µg/L	0.5	ND	ND	ND	ND
邻苯二甲酸二(2-乙基己)酯	USEPA 8270E	µg/L	2.5	ND	ND	ND	ND
邻苯二甲酸二正辛酯	USEPA 8270E	µg/L	0.5	ND	ND	ND	ND



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分析指标	方法	单位	检出限	19-01780.001	19-01780.002	19-01780.003	19-01780.004
二苯胺&N-亚硝基二苯胺	USEPA 8270E	µg/L	0.5	ND	ND	ND	ND
石油烃类							
可萃取性石油烃C10-C40	HJ 894	mg/L	0.01	0.22	0.10	0.10	0.16

			实验室编号	19-01780.005
			样品名称	BH-W-B(空白)
			样品性状	水样
			样品描述	澄清
			收样日期	2019/11/21
分析指标	方法	单位	检出限	
挥发性有机物				
代用品				
甲苯-d8	HJ 639	%	-	104
4-溴氟苯	HJ 639	%	-	99
二溴一氟甲烷	HJ 639	%	-	117
VOC参数				
苯	HJ 639	µg/L	0.4	ND
甲苯	HJ 639	µg/L	0.3	ND
乙苯	HJ 639	µg/L	0.3	ND
苯乙烯	HJ 639	µg/L	0.2	ND
间&对-二甲苯	HJ 639	µg/L	0.5	ND
邻-二甲苯	HJ 639	µg/L	0.2	ND
异丙基苯	HJ 639	µg/L	0.3	ND
1,2,4-三甲基苯	HJ 639	µg/L	0.3	ND
氯苯	HJ 639	µg/L	0.2	ND
1,4-二氯苯	HJ 639	µg/L	0.4	ND
1,2-二氯苯	HJ 639	µg/L	0.4	ND

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项目名称：中石化润滑油滨海分公司场调项目。



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## 方法列表

GB/T 6920-1986 水质 pH值的测定 玻璃电极法  
HJ 535-2009 水质 氨氮的测定 纳氏试剂分光光度法  
GB/T 5750.7-2006 生活饮用水标准检验方法 有机物综合指标 高锰酸钾滴定法  
HJ 503-2009 水质 挥发酚的测定 4-氨基安替比林分光光度法  
HJ 84-2016 水质 无机阴离子的测定 离子色谱法  
GB 7493-1987 水质 亚硝酸盐氮的测定 分光光度法  
HJ 639-2012 水质 挥发性有机物的测定 吹扫捕集-气相色谱-质谱法  
USEPA 8270E-2018 半挥发性有机物 气相色谱-质谱法  
HJ 894-2017 水质 可萃取性石油烃C10-C40的测定 气相色谱法



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## 方法:GB/T 6920-1986

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

## 方法:HJ 535-2009

仪器名称	型号	仪器编号	出厂序号
便携式分光光度计	DR2800	CHEM-003-C	1284054

## 方法:HJ 503-2009

仪器名称	型号	仪器编号	出厂序号
便携式分光光度计	DR2800	CHEM-003-C	1284054

## 方法:HJ 84-2016

仪器名称	型号	仪器编号	出厂序号
离子色谱仪	INTEGRION	CHEM-029C	16070419

## 方法:GB 7493-1987

仪器名称	型号	仪器编号	出厂序号
便携式分光光度计	DR2800	CHEM-003-C	1284054

## 方法:HJ 639-2012

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 15-0000-2EC/7890B/5977B	CHEM-017-I	US16106003/CN16203097/US1619M023

## 方法:USEPA 8270E-2018

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-J	CN16403006/US1640M041

## 方法:HJ 894-2017

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



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TB1907471			TB1907521			
DUP	MS	MSD	DUP	MS	MSD	
QCO19-00085.001	QCO19-00085.001	QCO19-00085.001	QCO19-00038.001	QCO19-00038.001	QCO19-00038.001	
TB1907533	TB1907588					
DUP	DUP	MS				MSD
TJE19-01796.001	TJE19-01780.002	TJE19-01780.002				TJE19-01780.002
TB1907589						TB1907593
DUP	MS	MSD	DUP	MS	MSD	
TJE19-01780.001	TJE19-01780.001	TJE19-01780.001	TJE19-01780.004	TJE19-01780.001	TJE19-01780.001	
TB1907594			TB1907600			
DUP	MS	MSD	DUP	MS	MSD	
TJE19-01780.004	TJE19-01780.004	TJE19-01780.004	TJE19-01780.001	TJE19-01780.001	TJE19-01780.001	
TB1907601						
DUP	MS	MSD				
QCO18-00014.009	QCO18-00014.009	QCO18-00014.009				

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。

生活饮用水标准检验方法 有机物综合指标 高锰酸钾滴定法 方法: GB/T 5750.7-2006

分析指标	QC批号	单位	检出限	MB	DUP %RD	LCS %Recovery	MS %Recovery	MSD %RD
高锰酸盐指数(耗氧量)	TB1907594	mg/L	0.05	<0.05	1%	98%	93%	1%

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。

半挥发性有机物 气相色谱-质谱法 方法: USEPA 8270E-2018

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	TB1907471	%	-	43%	7%	46%	51%	4%
苯酚-d6	TB1907471	%	-	49%	7%	56%	46%	9%
硝基苯-d5	TB1907471	%	-	72%	1%	71%	74%	1%
2-氟联苯	TB1907471	%	-	75%	1%	73%	71%	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。

**半挥发性有机物 气相色谱-质谱法 方法: USEPA 8270E-2018 (继续)**

分析指标	QC批号	单位	检出限	MB	DUP %RD	LCS %Recovery	MS %Recovery	MSD %RD
2,4,6-三溴苯酚	TB1907471	%	-	79%	2%	84%	74%	2%
对-三联苯-d14	TB1907471	%	-	88%	1%	94%	93%	2%
苯	TB1907471	µg/L	0.2	<0.2	0%	78%	NA	NA
萘	TB1907471	µg/L	0.2	<0.2	0%	97%	NA	NA
蒽	TB1907471	µg/L	0.2	<0.2	0%	99%	81%	1%
苊	TB1907471	µg/L	0.2	<0.2	0%	111%	NA	NA
菲	TB1907471	µg/L	0.2	<0.2	0%	117%	NA	NA
葱	TB1907471	µg/L	0.2	<0.2	0%	104%	NA	NA
荧葱	TB1907471	µg/L	0.2	<0.2	0%	98%	NA	NA
苯并(a)葱	TB1907471	µg/L	0.2	<0.2	0%	108%	NA	NA
屈	TB1907471	µg/L	0.2	<0.2	0%	99%	NA	NA
苯并(b)荧葱	TB1907471	µg/L	0.05	<0.05	0%	93%	NA	NA
苯并(k)荧葱	TB1907471	µg/L	0.05	<0.05	0%	91%	NA	NA
苯并(a)芘	TB1907471	µg/L	0.05	<0.05	0%	96%	NA	NA
茚并(1,2,3-cd)芘	TB1907471	µg/L	0.05	<0.05	0%	84%	NA	NA
二苯并(a,h)葱	TB1907471	µg/L	0.2	<0.2	0%	94%	NA	NA
苯并(g,h,i)芘	TB1907471	µg/L	0.05	<0.05	0%	86%	NA	NA
邻苯二甲酸二丁酯	TB1907471	µg/L	0.5	<0.5	0%	119%	NA	NA
邻苯二甲酸丁酯	TB1907471	µg/L	0.5	<0.5	0%	104%	NA	NA
邻苯二甲酸二(2-乙基己)酯	TB1907471	µg/L	2.5	<2.5	0%	106%	NA	NA
邻苯二甲酸二正辛酯	TB1907471	µg/L	0.5	<0.5	0%	83%	NA	NA
二苯胺&N-亚硝基二苯胺	TB1907471	µg/L	0.5	<0.5	0%	105%	NA	NA

**水质 无机阴离子的测定 离子色谱法 方法: HJ 84-2016**

分析指标	QC批号	单位	检出限	MB	DUP %RD	LCS %Recovery	MS %Recovery	MSD %RD
氯化物	TB1907589	mg/L	0.007	<0.007	0%	99%	116%	0%
硝酸盐氮 (N计)	TB1907589	mg/L	0.0036	<0.0036	0%	99%	99%	1%

**水质 可萃取性石油烃C10-C40的测定 气相色谱法 方法: HJ 894-2017**

分析指标	QC批号	单位	检出限	MB	DUP %RD	LCS %Recovery	MS %Recovery	MSD %RD
可萃取性石油烃C10-C40	TB1907601	mg/L	0.01	<0.01	0%	103%	104%	0%

**水质 亚硝酸盐氮的测定 分光光度法 方法: GB 7493-1987**

分析指标	QC批号	单位	检出限	MB	DUP %RD	LCS %Recovery	MS %Recovery	MSD %RD
亚硝酸盐 (N计)	TB1907593	mg/L	0.003	<0.003	1%	108%	95%	1%

**水质 pH值的测定 玻璃电极法 方法: GB/T 6920-1986**

分析指标	QC批号	单位	检出限	DUP %RD
pH	TB1907533	-	-	0%

**水质 挥发性有机物的测定 吹扫捕集-气相色谱-质谱法 方法: HJ 639-2012**

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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。

水质 挥发性有机物的测定 吹扫捕集-气相色谱-质谱法 方法: HJ 639-2012 (继续)

分析指标	QC批号	单位	检出限	MB	DUP %RD	LCS %Recovery	MS %Recovery	MSD %RD
甲苯-d8	TB1907521	%	-	102%	1%	102%	99%	0%
4-溴氟苯	TB1907521	%	-	100%	1%	107%	98%	0%
二溴一氟甲烷	TB1907521	%	-	120%	6%	113%	115%	1%
苯	TB1907521	µg/L	0.4	<0.4	0%	111%	80%	3%
甲苯	TB1907521	µg/L	0.3	<0.3	0%	113%	77%	1%
乙苯	TB1907521	µg/L	0.3	<0.3	0%	106%	NA	NA
苯乙烯	TB1907521	µg/L	0.2	<0.2	0%	99%	NA	NA
间&对-二甲苯	TB1907521	µg/L	0.5	<0.5	0%	110%	NA	NA
邻-二甲苯	TB1907521	µg/L	0.2	<0.2	0%	110%	NA	NA
异丙基苯	TB1907521	µg/L	0.3	<0.3	0%	107%	NA	NA
1,2,4-三甲基苯	TB1907521	µg/L	0.3	<0.3	0%	116%	NA	NA
氯苯	TB1907521	µg/L	0.2	<0.2	0%	116%	86%	2%
1,4-二氯苯	TB1907521	µg/L	0.4	<0.4	0%	107%	NA	NA
1,2-二氯苯	TB1907521	µg/L	0.4	<0.4	0%	108%	NA	NA

水质 氨氮的测定 纳氏试剂分光光度法 方法: HJ 535-2009

分析指标	QC批号	单位	检出限	MB	DUP %RD	LCS %Recovery	MS %Recovery	MSD %RD
氨氮	TB1907588	mg/L	0.025	<0.025	1%	99%	95%	1%

水质 挥发酚的测定 4-氨基安替比林分光光度法 方法: HJ 503-2009

分析指标	QC批号	单位	检出限	MB	DUP %RD	LCS %Recovery	MS %Recovery	MSD %RD
挥发酚	TB1907600	mg/L	0.0003	<0.0003	0%	100%	106%	0%

\*\*\* 以下空白 \*\*\*



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