

KENNETH C. BALDWIN

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Also admitted in Massachusetts  
and New York

July 28, 2023

*Via Electronic Mail*

Melanie A. Bachman, Esq.  
Executive Director/Staff Attorney  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

**Re: Docket No. 505 – Application of Haddam Quarter Solar, LLC, a wholly owned subsidiary of Louth Callan Renewables, for a Certificate of Environmental Compatibility and Public Need for the Construction, Maintenance and Operation of a 2.8 MW/AC Solar Photovoltaic Project Off Johnson Lane in Durham, Connecticut**

Dear Attorney Bachman:

In response to your letter of July 25, 2023, Haddam Quarter Solar, LLC (HQS) hereby grants the Siting Council an extension to the D&M Plan decision deadline in Docket No. 505 until September 22, 2023.

In addition, attached are the HQS responses to Siting Council D&M Plan Interrogatories Set 2. Thank you.

Sincerely,



Kenneth C. Baldwin

Enclosures

Copy to:

George Eames, First Selectman, Town of Durham  
Kyzer Gardiola, Louth Callan Renewables  
Nilchil Johnson, Louth Callan Renewables  
Jennifer Gaudet, All-Points Technology Corporation

STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL

IN RE: :  
 :  
 :  
 APPLICATION FOR A CERTIFICATE OF : DOCKET NO. 505  
 ENVIRONMENTAL COMPATIBILITY AND :  
 PUBLIC NEED FOR THE CONSTRUCTION, :  
 MAINTENANCE AND OPERATION OF A :  
 2.8 MW/AC SOLAR PHOTOVOLTAIC :  
 PROJECT OFF JOHNSON LANE, DURHAM, :  
 CONNECTICUT : JULY 28, 2023

**RESPONSES OF HADDAM QUARTER SOLAR, LLC  
TO CONNECTICUT SITING COUNCIL D&M PLAN INTERROGATORIES (Set 2)**

On July 28, 2023, the Connecticut Siting Council (“Council”) issued D&M Plan Interrogatories Set Two to Haddam Quarter Solar, LLC (“Applicant”), relating to Docket No. 505. Below are the Applicant’s responses.

Question No. 11

Referencing the response to Interrogatory 7c, the Toxicity Characteristic Leaching Procedure (TCLP) test results indicate the selected solar panels will be considered hazardous waste at the time of disposal, under current testing criteria. Can Haddam Quarter Solar obtain panels that will pass TCLP criteria? Explain.

Response

Attached is a Toxicity Characteristic Leaching Procedure (TCLP) Test Report for the VSUN545-144BMH-DG panel. Attached to the TCLP results is a letter of explanation from VSUN confirming that that the TCLP results for VSUN545 are suitable for the VSUN550 modules. As discuss in the HQS D&M Plan interrogatory responses dated July 18, 2023, according to VSUN, TCLP test results for the VSUN550 modules remain unavailable. Please note that the lead content for the panels referenced in the attached report is less than 5mg/L.

Question No. 12

Referencing D&M Sheet T-02, construction hours are listed as 6:30 a.m. to 3:30 p.m.

Can construction hours be modified to have a start time of 7:00 a.m.?

Response

As referenced on D&M Plan Sheet T-02, HQS will adjust the Project's construction hours from 6:30 a.m. to 3:30 p.m. to 7 a.m. to 4:00 p.m.

Question No. 13

Referencing the Spill Response and Control Plan Plans in D&M Attachment 7 -Health and Safety Plan, and Site Plan GN-2, provide contact information for the spill response contractor and the DEEP Spill Emergency Response Unit.

Response

As referenced on D&M Plan Sheet GN-2, the Spill Response Contractor is ACV Enviro Corporation at 860-370-2266, 800-777-4557. The DEEP Spill Emergency Response and Spill Prevention Unit can be contacted at 860-424-3338 or 1-866-DEP-SPIL (1-866-337-7745).

## STATEMENT

July 26<sup>th</sup>, 2023

**To: Louth Callan Renewables LLC**

Reference: Approval of TCLP test result

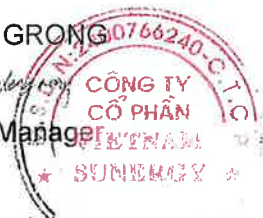
Dear Mr./Mrs.

We hereby declare that the result in the test report, report number -SHE23-03234 R0, is suitable for VSUN 550-144BMH-DG (Herein Purchase order refers to VVU2023023)

Name: CAI DENGTRONG

Signature: *Cai Dengtrong*

Title: Technical Manager



Vietnam Sunergy Joint Stock Company  
Lot III-Dong Vang Ar Industrial Zone,  
Hoang Ninh Commune, Viet Yen District,  
Bac Giang Province,  
Vietnam



中国认可  
检测  
TESTING  
CNAS L0599

## TEST REPORT

### CLIENT DETAILS

Contact -  
Client VIETNAM SUNERGY JOINT STOCK COMPANY  
Address LOT III-DONG VANG AREA,DINH TRAM INDUSTRIAL ZONE,VIET YEN DISTRICT,BAC GIANG PROVINCE 230000  
Telephone -  
Facsimile -  
Email -  
Order Number -  
Samples Solid waste(2)  
Project -

### LABORATORY DETAILS

Manager SGS-CSTC  
Laboratory Environment Laboratory  
Address 2/F, 3RD BUILDING NO. 889, YISHAN ROAD, XUHUI DISTRICT, SHANGHAI, CHINA  
Telephone +86 (21) 6140 2666-2002  
Facsimile +86 (21) 6115 2164  
Email REPORT.ENV@SGS.COM  
Report Number SHE23-03234 R0  
SGS Reference 0000275298  
Date Reported 2023/06/30  
Analysis Date 2023/06/13 - 2023/06/30

### COMMENTS

1.The results apply to the sample(s) as received.

### SIGNATORIES

案卓文

Reported by

刘真

Reviewed by

唐黎琦

Approved by



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符号表/Legend

- "-" 未测试该参数或不适用/The parameter is not tested or not applicable
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- ↓ 降低检出限/Detection limit lowered
- ND 未检出/Not Detected



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SGS 检测中心

						Sample Number	23-03234.001
						Sample Name	VSUN545-144BMH-DG
						Test Object	Solid waste
						Sample Description	SHES2306011243TX
						Receive Date	2023/06/13
Parameter	Method	Units	MDL	Limit	Testing Results		
Arsenic (As)	USEPA 200.8	mg/L	0.050	≤5	ND		
Barium (Ba)	USEPA 200.8	mg/L	0.010	≤100	0.336		
Cadmium (Cd)	USEPA 200.8	mg/L	0.001	≤1	0.001		
Chromium (Cr)	USEPA 200.8	mg/L	0.010	≤5	ND		
Lead (Pb)	USEPA 200.8	mg/L	0.010	≤5	4.98		
Selenium (Se)	USEPA 200.8	mg/L	0.050	≤1	ND		
Silver (Ag)	USEPA 200.8	mg/L	0.010	≤5	ND		
Mercury (Hg)	USEPA 7473	mg/L	0.005	≤0.2	ND		
2,4-D*	USEPA 8151A	mg/L	0.0005	≤10	ND		
2,4,5-TP (Silvex, Fenopop)	USEPA 8151A	mg/L	0.0005	≤1	ND		
Benzene	USEPA 8260D	mg/L	0.0005	≤0.5	ND		
Carbon tetrachloride	USEPA 8260D	mg/L	0.0005	≤0.5	ND		
Chlorobenzene	USEPA 8260D	mg/L	0.0005	≤100	ND		
Chloroform	USEPA 8260D	mg/L	0.0005	≤6	ND		
1,4-Dichlorobenzene	USEPA 8260D	mg/L	0.0005	≤7.5	ND		
1,2-Dichloroethane	USEPA 8260D	mg/L	0.0005	≤0.5	ND		
1,1-Dichloroethene	USEPA 8260D	mg/L	0.0005	≤0.7	ND		
2-butanone(MEK)	USEPA 8260D	mg/L	0.020	≤200	ND		
Tetrachloroethene	USEPA 8260D	mg/L	0.0005	≤0.7	ND		
Trichloroethene	USEPA 8260D	mg/L	0.0005	≤0.5	ND		
Vinyl chloride	USEPA 8260D	mg/L	0.0005	≤0.2	ND		
Methylphenol <sup>1</sup>	USEPA 8270E	mg/L	0.001	≤200	ND		
2-Methylphenol	USEPA 8270E	mg/L	0.0005	-	ND		
3&4-Methylphenol	USEPA 8270E	mg/L	0.0005	-	ND		
2,4-Dinitrotoluene	USEPA 8270E	mg/L	0.0005	≤0.13	ND		
Hexachlorobenzene	USEPA 8270E	mg/L	0.0005	≤0.13	ND		
Hexachlorobutadiene	USEPA 8270E	mg/L	0.0005	≤0.5	ND		
Hexachloroethane	USEPA 8270E	mg/L	0.0005	≤3	ND		
Nitrobenzene	USEPA 8270E	mg/L	0.0005	≤2	ND		
Pentachlorophenol	USEPA 8270E	mg/L	0.0025	≤100	ND		
Pyridine	USEPA 8270E	mg/L	0.002	≤5.0	ND		
2,4,5-Trichlorophenol	USEPA 8270E	mg/L	0.0005	≤400	ND		
2,4,6-Trichlorophenol	USEPA 8270E	mg/L	0.0005	≤2	ND		
Chlordane(Total) <sup>2</sup>	USEPA 8270E	mg/L	0.001	≤0.03	ND		
Endrin	USEPA 8270E	mg/L	0.0005	≤0.02	ND		
γ-BHC	USEPA 8270E	mg/L	0.0005	≤0.4	ND		
Toxaphene	USEPA 8270E	mg/L	0.050	≤0.5	ND		
γ-Chlordane	USEPA 8270E	mg/L	0.0005	-	ND		
α-Chlordane	USEPA 8270E	mg/L	0.0005	-	ND		
Methoxychlor	USEPA 8270E	mg/L	0.0005	≤10	ND		
Heptachlor	USEPA 8270E	mg/L	0.0005	≤0.008	ND		

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						Sample Number	23-03234.002
						Sample Name	VSUN545-144BMH-DG
						Test Object	Solid waste
						Sample Description	SHES2306011243TX
						Receive Date	2023/06/13
Parameter	Method	Units	MDL	Limit	Testing Results		
Arsenic (As)	USEPA 200.8	mg/L	0.050	≤5	ND		
Barium (Ba)	USEPA 200.8	mg/L	0.010	≤100	0.223		
Cadmium (Cd)	USEPA 200.8	mg/L	0.001	≤1	0.001		
Chromium (Cr)	USEPA 200.8	mg/L	0.010	≤5	0.013		
Lead (Pb)	USEPA 200.8	mg/L	0.010	≤5	4.97		
Selenium (Se)	USEPA 200.8	mg/L	0.050	≤1	ND		
Silver (Ag)	USEPA 200.8	mg/L	0.010	≤5	ND		
Mercury (Hg)	USEPA 7473	mg/L	0.005	≤0.2	ND		
2,4-D*	USEPA 8151A	mg/L	0.0005	≤10	ND		
2,4,5-TP (Silvex, Fenopop)	USEPA 8151A	mg/L	0.0005	≤1	ND		
Benzene	USEPA 8260D	mg/L	0.0005	≤0.5	ND		
Carbon tetrachloride	USEPA 8260D	mg/L	0.0005	≤0.5	ND		
Chlorobenzene	USEPA 8260D	mg/L	0.0005	≤100	ND		
Chloroform	USEPA 8260D	mg/L	0.0005	≤6	ND		
1,4-Dichlorobenzene	USEPA 8260D	mg/L	0.0005	≤7.5	ND		
1,2-Dichloroethane	USEPA 8260D	mg/L	0.0005	≤0.5	ND		
1,1-Dichloroethene	USEPA 8260D	mg/L	0.0005	≤0.7	ND		
2-butanone(MEK)	USEPA 8260D	mg/L	0.020	≤200	ND		
Tetrachloroethene	USEPA 8260D	mg/L	0.0005	≤0.7	ND		
Trichloroethene	USEPA 8260D	mg/L	0.0005	≤0.5	ND		
Vinyl chloride	USEPA 8260D	mg/L	0.0005	≤0.2	ND		
Methylphenol <sup>1</sup>	USEPA 8270E	mg/L	0.001	≤200	ND		
2-Methylphenol	USEPA 8270E	mg/L	0.0005	-	ND		
3&4-Methylphenol	USEPA 8270E	mg/L	0.0005	-	ND		
2,4-Dinitrotoluene	USEPA 8270E	mg/L	0.0005	≤0.13	ND		
Hexachlorobenzene	USEPA 8270E	mg/L	0.0005	≤0.13	ND		
Hexachlorobutadiene	USEPA 8270E	mg/L	0.0005	≤0.5	ND		
Hexachloroethane	USEPA 8270E	mg/L	0.0005	≤3	ND		
Nitrobenzene	USEPA 8270E	mg/L	0.0005	≤2	ND		
Pentachlorophenol	USEPA 8270E	mg/L	0.0025	≤100	ND		
Pyridine	USEPA 8270E	mg/L	0.002	≤5.0	ND		
2,4,5-Trichlorophenol	USEPA 8270E	mg/L	0.0005	≤400	ND		
2,4,6-Trichlorophenol	USEPA 8270E	mg/L	0.0005	≤2	ND		
Chlordane(Total) <sup>2</sup>	USEPA 8270E	mg/L	0.001	≤0.03	ND		
Endrin	USEPA 8270E	mg/L	0.0005	≤0.02	ND		
γ-BHC	USEPA 8270E	mg/L	0.0005	≤0.4	ND		
Toxaphene	USEPA 8270E	mg/L	0.050	≤0.5	ND		
γ-Chlordane	USEPA 8270E	mg/L	0.0005	-	ND		
α-Chlordane	USEPA 8270E	mg/L	0.0005	-	ND		
Methoxychlor	USEPA 8270E	mg/L	0.0005	≤10	ND		
Heptachlor	USEPA 8270E	mg/L	0.0005	≤0.008	ND		

Remark:

- 1.Methylphenol are the sum of 2-Methylphenol and 3&4-Methylphenol.
- 2.Chlordane(Total) are the sum of α-Chlordane and γ-Chlordane.
- 3.Preparative method:USEPA1311-1992(Toxicity Characteristic Leaching Procedure)
- 4.The Limits comes from CFR(code of federal regulations) title 40 part 261.24.
- 5.SHE23-03234.001 sample No.:CLD4F8201230530905793,SHE23-03234.002 sample No.:CLD4F8201230530904413
- 6.\*:Not certificated by CNAS



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## Method List

USEPA 200.8-1994 Determination of trace elements in waters and wastes by inductively coupled plasma-mass spectrometry

USEPA 7473-2007 Metals-Hg

USEPA 8151A-1996 Acid Herbicides in Water by GC-MS

USEPA 8260D-2018 VOCs

USEPA 8270E-2018 SVOCs



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Testing Center-Environmental

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检测



Method Blank(MB)

Parameter	Batch ID	Unit	MDL	MB	Control Range
<b>Determination of trace elements in waters and wastes by inductively coupled plasma-mass spectrometry Method: USEPA 200.8-1994</b>					
Arsenic (As)	LB2321699	mg/L	0.050	<0.05	<0.050
Barium (Ba)	LB2321699	mg/L	0.010	<0.01	<0.010
Cadmium (Cd)	LB2321699	mg/L	0.001	<0.001	<0.001
Chromium (Cr)	LB2321699	mg/L	0.010	<0.010	<0.010
Lead (Pb)	LB2321699	mg/L	0.010	<0.01	<0.010
Selenium (Se)	LB2321699	mg/L	0.050	<0.050	<0.050
Silver (Ag)	LB2321699	mg/L	0.010	<0.01	<0.010
<b>Metals-Hg Method: USEPA 7473-2007</b>					
Mercury (Hg)	LB2321802	mg/L	0.005	<0.005	<0.005
<b>Acid Herbicides in Water by GC-MS Method: USEPA 8151A-1996</b>					
2,4-D	LB2321721	mg/L	0.0005	<0.0005	<0.0005
2,4,5-TP (Silvex, Fenopop)	LB2321721	mg/L	0.0005	<0.0005	<0.0005
<b>VOCs Method: USEPA 8260D-2018</b>					
Benzene	LB2321822	mg/L	0.0005	<0.0005	<0.0005
Carbon tetrachloride	LB2321822	mg/L	0.0005	<0.0005	<0.0005
Chlorobenzene	LB2321822	mg/L	0.0005	<0.0005	<0.0005
Chloroform	LB2321822	mg/L	0.0005	<0.0005	<0.0005
1,4-Dichlorobenzene	LB2321822	mg/L	0.0005	<0.0005	<0.0005
1,2-Dichloroethane	LB2321822	mg/L	0.0005	<0.0005	<0.0005
1,1-Dichloroethene	LB2321822	mg/L	0.0005	<0.0005	<0.0005
2-butanone(MEK)	LB2321822	mg/L	0.020	<0.020	<0.020
Tetrachloroethene	LB2321822	mg/L	0.0005	<0.0005	<0.0005
Trichloroethene	LB2321822	mg/L	0.0005	<0.0005	<0.0005
Vinyl chloride	LB2321822	mg/L	0.0005	<0.0005	<0.0005
<b>SVOCs Method: USEPA 8270E-2018</b>					
2-Methylphenol	LB2321643	mg/L	0.0005	<0.0005	<0.0005
3&4-Methylphenol	LB2321643	mg/L	0.0005	<0.0005	<0.0005
2,4-Dinitrotoluene	LB2321643	mg/L	0.0005	<0.0005	<0.0005
Hexachlorobenzene	LB2321643	mg/L	0.0005	<0.0005	<0.0005
Hexachlorobutadiene	LB2321643	mg/L	0.0005	<0.0005	<0.0005
Hexachloroethane	LB2321643	mg/L	0.0005	<0.0005	<0.0005
Nitrobenzene	LB2321643	mg/L	0.0005	<0.0005	<0.0005
Pentachlorophenol	LB2321643	mg/L	0.0025	<0.0025	<0.0025



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Method Blank(MB)

Parameter	Batch ID	Unit	MDL	MB	Control Range
<b>SVOCs Method: USEPA 8270E-2018 (continued)</b>					
Pyridine	LB2321643	mg/L	0.002	<0.002	<0.002
2,4,5-Trichlorophenol	LB2321643	mg/L	0.0005	<0.0005	<0.0005
2,4,6-Trichlorophenol	LB2321643	mg/L	0.0005	<0.0005	<0.0005
<b>SVOCs Method: USEPA 8270E-2018</b>					
Endrin	LB2321641	mg/L	0.0005	<0.0005	<0.0005
γ-BHC	LB2321641	mg/L	0.0005	<0.0005	<0.0005
Toxaphene	LB2321641	mg/L	0.050	<0.050	<0.050
γ-Chlordane	LB2321641	mg/L	0.0005	<0.0005	<0.0005
α-Chlordane	LB2321641	mg/L	0.0005	<0.0005	<0.0005
Methoxychlor	LB2321641	mg/L	0.0005	<0.0005	<0.0005
Heptachlor	LB2321641	mg/L	0.0005	<0.0005	<0.0005

The evaluation of Method Blanks (MB): All results of MB on this batch are lower than method detection limits, which meet the acceptance criteria of lab quality control.

Laboratory Control Sample(LCS)

LCS Recovery%= Result\*100/ Reference Value.

Parameter	Batch ID	Unit	MDL	Result	Ref. Value	Recovery%	Control Range	
							Lower	Upper
<b>Determination of trace elements in waters and wastes by inductively coupled plasma-mass spectrometry Method: USEPA 200.8-1994</b>								
Arsenic (As)	LB2321699	mg/L	0.050	0.195	0.2	97.4	80%	120%
Barium (Ba)	LB2321699	mg/L	0.010	0.199	0.2	99.6	80%	120%
Cadmium (Cd)	LB2321699	mg/L	0.001	0.198	0.2	98.9	80%	120%
Chromium (Cr)	LB2321699	mg/L	0.010	0.199	0.2	99.5	80%	120%
Lead (Pb)	LB2321699	mg/L	0.010	0.207	0.2	103	80%	120%
Selenium (Se)	LB2321699	mg/L	0.050	0.180	0.2	90.1	80%	120%
Silver (Ag)	LB2321699	mg/L	0.010	0.201	0.2	100	80%	120%
<b>Metals-Hg Method: USEPA 7473-2007</b>								
Mercury (Hg)	LB2321802	mg/L	0.005	<0.005	0.001	100	80%	120%
<b>Acid Herbicides in Water by GC-MS Method: USEPA 8151A-1996</b>								
2,4-D	LB2321721	mg/L	0.0005	0.0007	0.001	74.0	70%	130%
2,4,5-TP (Silvex, Fenopop)	LB2321721	mg/L	0.0005	0.0008	0.001	78.0	70%	130%
<b>VOCs Method: USEPA 8260D-2018</b>								
Benzene	LB2321822	mg/L	0.0005	0.0163	0.02	81.6	70%	130%



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Laboratory Control Sample(LCS)

LCS Recovery%= Result\*100/ Reference Value.

Parameter	Batch ID	Unit	MDL	Result	Ref. Value	Recovery%	Control Range	
							Lower	Upper

VOCs Method: USEPA 8260D-2018 (continued)

Carbon tetrachloride	LB2321822	mg/L	0.0005	0.0156	0.02	77.8	70%	130%
Chlorobenzene	LB2321822	mg/L	0.0005	0.0191	0.02	95.5	70%	130%
Chloroform	LB2321822	mg/L	0.0005	0.0153	0.02	76.6	70%	130%
1,4-Dichlorobenzene	LB2321822	mg/L	0.0005	0.0170	0.02	85.0	70%	130%
1,2-Dichloroethane	LB2321822	mg/L	0.0005	0.0148	0.02	74.1	70%	130%
1,1-Dichloroethene	LB2321822	mg/L	0.0005	0.0142	0.02	71.0	70%	130%
2-butanone(MEK)	LB2321822	mg/L	0.020	<0.02	0.02	79.6	70%	130%
Tetrachloroethene	LB2321822	mg/L	0.0005	0.0187	0.02	93.6	70%	130%
Trichloroethene	LB2321822	mg/L	0.0005	0.0211	0.02	106	70%	130%
Vinyl chloride	LB2321822	mg/L	0.0005	0.0172	0.02	85.9	70%	130%

SVOCs Method: USEPA 8270E-2018

2-Methylphenol	LB2321643	mg/L	0.0005	0.0033	0.005	65.4	30%	144%
3&4-Methylphenol	LB2321643	mg/L	0.0005	0.0082	0.01	82.1	30%	141%
2,4-Dinitrotoluene	LB2321643	mg/L	0.0005	0.0048	0.005	97.0	46%	140%
Hexachlorobenzene	LB2321643	mg/L	0.0005	0.0032	0.005	64.0	61%	127%
Hexachlorobutadiene	LB2321643	mg/L	0.0005	0.0030	0.005	59.0	10%	111%
Hexachloroethane	LB2321643	mg/L	0.0005	0.0034	0.005	68.6	38%	131%
Nitrobenzene	LB2321643	mg/L	0.0005	0.0032	0.005	64.2	25%	133%
Pentachlorophenol	LB2321643	mg/L	0.0025	0.0152	0.025	60.8	35%	130%
Pyridine	LB2321643	mg/L	0.002	0.004	0.005	73.4	10%	200%
2,4,5-Trichlorophenol	LB2321643	mg/L	0.0005	0.0041	0.005	82.0	40%	140%
2,4,6-Trichlorophenol	LB2321643	mg/L	0.0005	0.0039	0.005	78.8	40%	140%

The evaluation of recoveries for Laboratory Control Samples (LCS): All recoveries of LCS on this batch are in the controlled range, which meet the acceptance criteria of lab quality control.

Laboratory Duplicate(DUP)

Relative deviation(RD)%=|Sample Result -Duplicate Result|\*100/(Sample Result +Duplicate Result).

Parameter	Sample ID	Unit	MDL	Sample Result	Duplicate Result	RD%	RD Control Range%	Sur Control Range
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Determination of trace elements in waters and wastes by inductively coupled plasma-mass spectrometry Method: USEPA 200.8-1994

Arsenic (As)	SHE23-03413.001	mg/L	0.050	<0.05	<0.05	0.0	≤20	-
Barium (Ba)	SHE23-03413.001	mg/L	0.010	0.081	0.077	2.5	≤20	-



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Laboratory Duplicate(DUP)

Relative deviation(RD)%= $\frac{|Sample\ Result - Duplicate\ Result|}{(Sample\ Result + Duplicate\ Result)} \times 100$

Parameter	Sample ID	Unit	MDL	Sample Result	Duplicate Result	RD%	RD Control Range%	Sur Control Range
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Determination of trace elements in waters and wastes by inductively coupled plasma-mass spectrometry Method: USEPA 200.8-1994 (continued)

Cadmium (Cd)	SHE23-03413.001	mg/L	0.001	0.002	0.001	8.4	≤20	-
Chromium (Cr)	SHE23-03413.001	mg/L	0.010	<0.01	<0.01	0.0	≤20	-
Lead (Pb)	SHE23-03413.001	mg/L	0.010	0.014	0.014	1.3	≤20	-
Selenium (Se)	SHE23-03413.001	mg/L	0.050	<0.05	<0.05	0.0	≤20	-
Silver (Ag)	SHE23-03413.001	mg/L	0.010	0.015	0.013	4.5	≤20	-

Metals-Hg Method: USEPA 7473-2007

Mercury (Hg)	SHE23-03413.001	mg/L	0.005	<0.005	<0.005	0.0	≤10	-
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VOCs Method: USEPA 8260D-2018

Benzene	SHE23-03413.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
Carbon tetrachloride	SHE23-03413.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
Chlorobenzene	SHE23-03413.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
Chloroform	SHE23-03413.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
1,4-Dichlorobenzene	SHE23-03413.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
1,2-Dichloroethane	SHE23-03413.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
1,1-Dichloroethene	SHE23-03413.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
2-butanone(MEK)	SHE23-03413.001	mg/L	0.020	<0.02	<0.02	0.0	≤30	-
Tetrachloroethene	SHE23-03413.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
Trichloroethene	SHE23-03413.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-
Vinyl chloride	SHE23-03413.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤30	-

SVOCs Method: USEPA 8270E-2018

2-Methylphenol	SHE23-03234.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
3&4-Methylphenol	SHE23-03234.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
2,4-Dinitrotoluene	SHE23-03234.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
Hexachlorobenzene	SHE23-03234.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
Hexachlorobutadiene	SHE23-03234.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
Hexachloroethane	SHE23-03234.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
Nitrobenzene	SHE23-03234.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
Pentachlorophenol	SHE23-03234.001	mg/L	0.0025	<0.0025	<0.0025	0.0	≤17.5	-
Pyridine	SHE23-03234.001	mg/L	0.002	<0.002	<0.002	0.0	≤17.5	-
2,4,5-Trichlorophenol	SHE23-03234.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
2,4,6-Trichlorophenol	SHE23-03234.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-

SVOCs Method: USEPA 8270E-2018

Endrin	SHE23-03234.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
γ-BHC	SHE23-03234.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-



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### Laboratory Duplicate(DUP)

Relative deviation(RD)%= $\frac{|Sample\ Result - Duplicate\ Result|}{(Sample\ Result + Duplicate\ Result)}$  \*100

Parameter	Sample ID	Unit	MDL	Sample Result	Duplicate Result	RD%	RD Control Range%	Sur Control Range
<b>SVOCs Method: USEPA 8270E-2018 (continued)</b>								
Toxaphene	SHE23-03234.001	mg/L	0.050	<0.05	<0.05	0.0	≤17.5	-
γ-Chlordane	SHE23-03234.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
α-Chlordane	SHE23-03234.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
Methoxychlor	SHE23-03234.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-
Heptachlor	SHE23-03234.001	mg/L	0.0005	<0.0005	<0.0005	0.0	≤17.5	-

The evaluation of Relative Deviation (RD) for Duplicates: All RD of duplicates on this batch are in the controlled range, which meet the acceptance criteria of lab quality control.

### Matrix Spike(MS)

MS Recovery% =  $\frac{(MS\ Result - Sample\ Result)}{Spike\ Added} * 100$  (Related factor should be taken into consideration)

Parameter	Sample ID	Unit	MDL	Sample Result	MS Result	Spike Added	Recovery%	Control Range Lower	Control Range Upper
<b>Determination of trace elements in waters and wastes by Inductively coupled plasma-mass spectrometry Method: USEPA 200.8-1994</b>									
Arsenic (As)	SHE23-03413.001	mg/L	0.050	<0.050	0.151	0.2	75.2	70%	130%
Barium (Ba)	SHE23-03413.001	mg/L	0.010	0.079	0.273	0.2	97.2	70%	130%
Cadmium (Cd)	SHE23-03413.001	mg/L	0.001	0.001	0.193	0.2	95.6	70%	130%
Chromium (Cr)	SHE23-03413.001	mg/L	0.010	<0.010	0.205	0.2	99.9	70%	130%
Lead (Pb)	SHE23-03413.001	mg/L	0.010	0.014	0.223	0.2	104	70%	130%
Selenium (Se)	SHE23-03413.001	mg/L	0.050	<0.050	0.170	0.2	78.1	70%	130%
Silver (Ag)	SHE23-03413.001	mg/L	0.010	0.014	0.212	0.2	99.0	70%	130%

**VOCs Method: USEPA 8260D-2018**

Benzene	SHE23-03413.001	mg/L	0.0005	<0.0005	0.0164	0.02	82.2	50%	150%
Carbon tetrachloride	SHE23-03413.001	mg/L	0.0005	<0.0005	0.0107	0.02	53.7	50%	150%
Chlorobenzene	SHE23-03413.001	mg/L	0.0005	<0.0005	0.0196	0.02	97.8	50%	150%
Chloroform	SHE23-03413.001	mg/L	0.0005	<0.0005	0.0151	0.02	75.6	50%	150%
1,4-Dichlorobenzene	SHE23-03413.001	mg/L	0.0005	<0.0005	0.0172	0.02	85.9	50%	150%
1,2-Dichloroethane	SHE23-03413.001	mg/L	0.0005	<0.0005	0.0143	0.02	71.3	50%	150%
1,1-Dichloroethene	SHE23-03413.001	mg/L	0.0005	<0.0005	0.0102	0.02	51.2	50%	150%
2-butanone(MEK)	SHE23-03413.001	mg/L	0.020	<0.020	<0.02	0.02	67.7	50%	150%
Tetrachloroethene	SHE23-03413.001	mg/L	0.0005	<0.0005	0.0217	0.02	108	50%	150%
Trichloroethene	SHE23-03413.001	mg/L	0.0005	<0.0005	0.0211	0.02	106	50%	150%
Vinyl chloride	SHE23-03413.001	mg/L	0.0005	<0.0005	0.0104	0.02	52.2	50%	150%

The evaluation of recoveries for Matrix Spiked (MS): All recoveries for MS on this batch are in the controlled range, which meet the acceptance criteria of lab quality control.



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Matrix Spike Duplicate(MSD)

Relative deviation(RD)%=|MS Recovery% -MSD Recovery%|\*100/(MS Recovery%+MSD Recovery%).

Parameter	Sample ID	Unit	MDL	MS Recovery%	MSD Recovery%	RD%	RD Control Range%	Sur Control Range
<b>Determination of trace elements in waters and wastes by inductively coupled plasma-mass spectrometry Method: USEPA 200.8-1994</b>								
Arsenic (As)	SHE23-03413.001	mg/L	0.050	75.2	73.8	1.0	≤20	-
Barium (Ba)	SHE23-03413.001	mg/L	0.010	97.2	99.4	1.1	≤20	-
Cadmium (Cd)	SHE23-03413.001	mg/L	0.001	95.6	95.2	0.2	≤20	-
Chromium (Cr)	SHE23-03413.001	mg/L	0.010	99.9	98.9	0.5	≤20	-
Lead (Pb)	SHE23-03413.001	mg/L	0.010	104	106	0.9	≤20	-
Selenium (Se)	SHE23-03413.001	mg/L	0.050	78.1	86.0	4.8	≤20	-
Silver (Ag)	SHE23-03413.001	mg/L	0.010	99.0	97.5	0.7	≤20	-

VOCs Method: USEPA 8260D-2018

Benzene	SHE23-03413.001	mg/L	0.0005	82.2	86.0	2.2	≤30	-
Carbon tetrachloride	SHE23-03413.001	mg/L	0.0005	53.7	64.8	9.4	≤30	-
Chlorobenzene	SHE23-03413.001	mg/L	0.0005	97.8	102	1.9	≤30	-
Chloroform	SHE23-03413.001	mg/L	0.0005	75.6	81.1	3.5	≤30	-
1,4-Dichlorobenzene	SHE23-03413.001	mg/L	0.0005	85.9	91.8	3.3	≤30	-
1,2-Dichloroethane	SHE23-03413.001	mg/L	0.0005	71.3	75.8	3.1	≤30	-
1,1-Dichloroethene	SHE23-03413.001	mg/L	0.0005	51.2	53.9	2.5	≤30	-
2-butanone(MEK)	SHE23-03413.001	mg/L	0.020	67.7	72.5	3.4	≤30	-
Tetrachloroethene	SHE23-03413.001	mg/L	0.0005	108	109	0.3	≤30	-
Trichloroethene	SHE23-03413.001	mg/L	0.0005	106	114	3.6	≤30	-
Vinyl chloride	SHE23-03413.001	mg/L	0.0005	52.2	51.6	0.5	≤30	-

The evaluation of Matrix Spiked Duplicates (MSD): All recoveries for MSD on this batch are in the controlled range, which meet the acceptance criteria of lab quality control. All RD for MS and MSD on this batch are in the controlled range, which meet the acceptance criteria of lab quality control.

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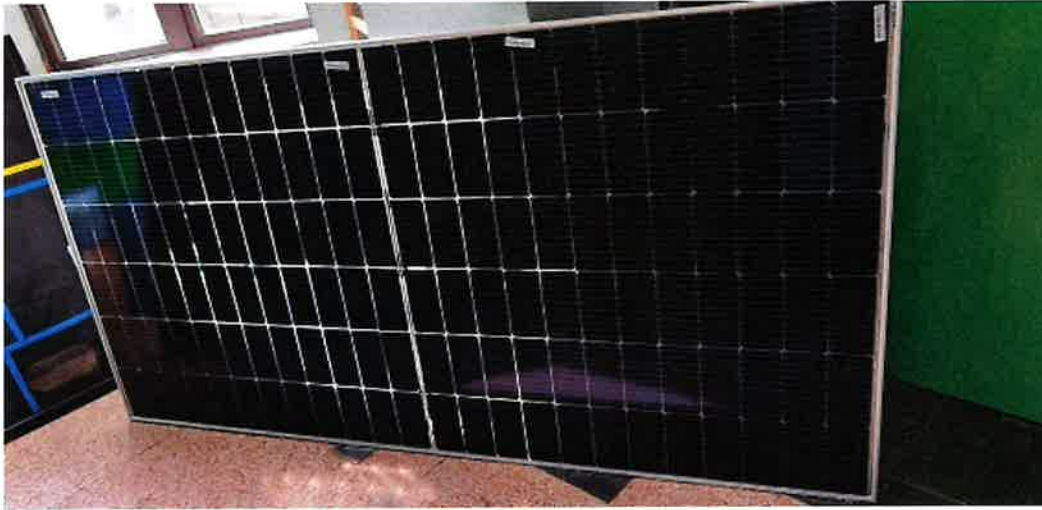


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