

Environmental Monitoring Service

Testing and research laboratory for water, soil and food products

Aurobrindavan, Auroville, T.N., India - 605101

Phone: 91-0413-2677096/2677070

E-mail: ems@auroville.org.in

Test Report

Customer name: Survivor Filter

Nature of sample: Water

Sample ID: Ceramic filter

Sample received: 21/07/2020

Analysis completed: 28/07/2020

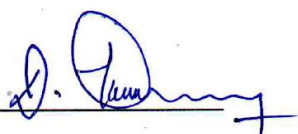
Sample collected: By customer

Lab ID: 58/3

Bacteria and virus removal: Filter was conditioned by passing 10 L tap water having TDS 170 mg/and pH 6.6 after conditioning E.coli and MS2 phage spiked water were passed, sample was collected and analyzed.

S. No	Sample ID	Flow Rate (lit/hour)	E.coli		MS2 Phage	
			Method IS-15185:2002l ISO - 9308-1:2000		Method EPA: 1602	
			CFU/100 ml	% of removal	PFU/100 ml	% of Removal
1	Control	-	2 400 000	-	1 100 000	-
2	Sample	1.5	8	99.9997	400	99.96

Analyst



Lab executive



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Test Report

Customer name: Survivor Filter

Sample ID: Mentioned Below

Sample received: 18/09/19

Analysis completed: 01/10/19

Sample collected: By customer

Lab ID: 26

Objective: To check the efficiency of Survivor Filter Ultra Steel Filter's ability to purify water from bacterial contamination

Protocol :

All filters were passed 20 Litres of tap water having TDS 190 mg/l, pH 6.8. The flow rate was checked and tap water was spiked with E.coli culture. The filters were passed through spiked E.coli culture water and samples were collected and analyzed for E.coli test.

Method of testing: E.coli tested as per the specification laid down in ISO 9308 - 1:2014

Results Batch 1:

S.No	Sample ID	Flow Rate (lit/hour)	E.coli	
			CFU/100 ml	% of removal
1	Control	-	2 600 000	-
2	F1	1.2	0	100
3	F2	1.2	0	100
4	F3	1.3	0	100
5	F4	1.2	0	100
6	F5	1.3	0	100

Batch 2:

S.No	Sample ID	Flow Rate (lit/hour)	E.coli	
			CFU/100 ml	% of removal
1	Control	-	1 740 000	-
2	F6	1.0	0	100
3	F7	0.9	0	100
4	F8	0.9	0	100
5	F9	1.1	0	100
6	F10	1.1	0	100

* ΔP (Distance from the water level to the outlet of filter) = 30 cm

Analyst A.Rathina

Lab executive [Signature]

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Test Report

Customer name: Survivor Filter

Nature of sample: Water

Sample ID: Ceramic filter

Sample received: 21/07/2020

Analysis completed: 28/07/2020

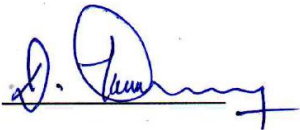
Sample collected: By customer

Lab ID: 58/1

Lead removal: Filter was conditioned by passing 10 L tap water having TDS 170 mg and pH 6.6. Water with 1 ppm lead (Pb) was prepared and passed through filter. At outlet of filter sample was collected and analyzed for lead.

S.No.	Parameters	Result, ppm	Removal %	Method of testing
1.	Pb	<0.01	100	AAS method - 3110 B, APHA 23 rd 2017

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Test Report

Customer name: Survivor Filter

Nature of sample: Water

Sample ID: Ceramic filter

Sample received: 21/07/2020

Analysis completed: 28/07/2020

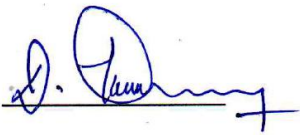
Sample collected: By customer

Lab ID: 58/2

Chlorine removal: Filter was conditioned by passing 10 L tap water having TDS 170 mg and pH 6.6 after conditioning 1 ppm chlorine spiked into the water. Water passed the filter, sample was collected and analyzed for chlorine.

S.No.	Parameter	Result, ppm	Removal %	Method of testing
1.	Free Chlorine	< 0.1	99.9	DPD colorimetric method - 4500-Cl.G.2 APHA 23 rd 2017

Analyst



Lab executive





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SUBMITTED SAMPLE

Date of report : 25/08/2016

Received on : 05/07/2016

Commenced on : 05/07/2016

Completed on : 24/08/2016

Report Number : 16070024.01

Sample Description : Filter Sample

Sample Identification : Efficiency Study

Customer Reference : Test Request form dated: 05/07/2016

S.No.	Parameter	Protocol	Analysis Report					%of Performance Efficiency
			Blank	Method Blank	Spiked Concentration	After filtration	Treatment	
I	ORGANOCHLORINE PESTICIDE RESIDUE:							
1.	Aldrin	EPA3545A	BDL	BDL	100	13.586	13.586	77.5
2.	Alpha BHC	EPA3545 A	BDL	BDL	100	ND	ND	100
3.	Beta BHC	EPA3545 A	BDL	BDL	100	ND	ND	100
4.	Gamma BHC	EPA3545A	BDL	BDL	100	ND	ND	100
5.	Delta BHC	EPA 3545 A	BDL	BDL	100	ND	ND	100
6.	Alpha Chlordane	EPA3545A	BDL	BDL	100	ND	ND	100
7.	Gamma Chlordane	EPA 3545 A	BDL	BDL	100	8.975	8.975	91.025
8.	4,4-DDD	EPA 3545 A	BDL	BDL	100	ND	ND	100
9.	4,4-DDE	EPA3545A	BDL	BDL	100	ND	ND	100
10.	4,4-DDT	EPA3545A	BDL	BDL	100	ND	ND	100
11.	Dieldrin	EPA3545 A	BDL	BDL	100	ND	ND	100
12.	Endosulfan I	EPA3545A	BDL	BDL	100	ND	ND	100
13.	Endosulfan I	EPA 3545 A	BDL	BDL	100	ND	ND	100
14.	Endosulfan Sulfate	EPA 3545 A	BDL	BDL	100	ND	ND	100
15.	Endrin,	EPA3545A	BDL	BDL	100	ND	ND	100
16.	Endrin aldehyde	EPA3545A	BDL	BDL	100	ND	ND	100

For CVR Labs Pvt Ltd

Authorized Signatory

D.C. Benja;-nin.
Lab Mana er

Verified By

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S.No.	Parameter	Protocol	Analysis Report					% of Performance Efficiency
			Blank	Method Blank	Spiked concentration	After filtration	Treatment	
17.	Endrin Ketone	EPA 3545 A	BDL	BDL	100	14.633	14.633	85.367
18.	Heptachlor	EPA3545A	BDL	2.328	100	5.241	2.913	97.087
19.	Heptachlor Epoxide	EPA3545A	BDL	BDL	100	12.146	12.146	87.854
20.	Methoxychlor	EPA3545A	BDL	BDL	100	ND	ND	100
II	ORGANOPHOSPHORUS PESTICIDES:							
1.	Azinphos -Methyl	EPA3545A	BDL	BDL	100	ND	ND	100
2.	Bolstar	EPA3545A	BDL	BDL	100	ND	ND	100
3.	Chlorpyrifos	EPA3545A	BDL	BDL	100	ND	ND	100
4.	Coumaphos	EPA 3545 A	BDL	BDL	100	ND	ND	100
5.	Diazinon	EPA 3545 A	BDL	BDL	100	ND	ND	100
6.	Disulfoton	EPA 3545 A	BDL	BDL	100	ND	ND	100
7.	Fensulfothion	EPA 3545 A	BDL	BDL	100	ND	ND	100
8.	Fenthion	EPA 3545 A	BDL	BDL	100	ND	ND	100
9.	Methyl Parathion	EPA 3545 A	BDL	BDL	100	ND	ND	100
10.	Mevinphos	EPA3545A	BDL	BDL	100	ND	ND	100
11.	Naled	EPA3545A	BDL	BDL	100	ND	ND	100
12.	Ronnel	EPA3545A	BDL	BDL	100	ND	ND	100
13.	Stirophos	EPA3545 A	BDL	BDL	100	ND	ND	100
14.	Tokuthion	EPA3545 A	BDL	BDL	100	ND	ND	100
15.	Trichloronate	EPA3545A	BDL	BDL	100	ND	ND	100
III	VOLATILE ORGANIC COMPOUNDS (VOC):							
1.	1, 1, 1,2-Tetrachloroethane	EPA5030C	BDL	BDL	20	ND	ND	100
2.	1, 1, 1-Trichloroethane	EPA5030 C	BDL	BDL	20	ND	ND	100
3.	1, 1,2,2-Teirachloroethane	EPA5030 C	BDL	BDL	20	ND	ND	100
4.	1, 1,2-Trichloroethane	EPA5030C	BDL	BDL	20	ND	ND	100
5.	1, 1-Dichloroethane	EPA5030 C	BDL	BDL	20	ND	ND	100
6.	1, 1 Dichloro ethylene	EPA5030 C	BDL	BDL	20	ND	ND	100
7.	1, 1-Dichloropropene	EPA5030 C	BDL	BDL	20	ND	ND	100
8.	1,2,3-trichlorobenzene	EPA5030 C	BDL	BDL	20	ND	ND	100
9.	1,2,3-Trichloropropane	EPA 5030 C	BDL	BDL	20	ND	ND	100

V, Y
Verified Y

For CVR Labs Pvt Ltd
[Signature]
Authorised Signatory

D.C. Benjamin
Lab Manager

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S.No.	Parameter	Protocol	Analysis Report					% of Performance Efficiency
			Blank	Method Blank	Spiked concentration	After filtration	Treatment	
10.	1,2,4-Trichlorobenzene	EPA 5030 C	BDL	BDL	20	ND	ND	100
11.	1,2,4-Trimethylbenzene	EPA 5030 C	BDL	BDL	20	ND	ND	100
12.	1,2-Dibromo-3-chloropropane	EPA 5030 C	BDL	BDL	20	ND	ND	100
13.	1,2-Dibromoethane	EPA 5030 C	BDL	BDL	20	ND	ND	100
14.	1,2-Dichlorobenzene	EPA5030C-	BDL	BDL	20	ND	ND	100
15.	1,2 -Dichloroethane	EPA 5030 C	BDL	BDL	20	ND	ND	100
16.	1,2-Dichloropropane	EPA 3545 A	BDL	BDL	100	ND	ND	100
17.	1,3,5-Trimethylbenzene	EPA 3545 A	BDL	BDL	100	ND	ND	100
18.	1,3-Dichlorobenzene	EPA 3545 A	BDL	BDL	100	ND	ND	100
19.	1,3-Dichloropropane	EPA3545A	BDL	BDL	100	ND	ND	100
20.	1,4 Dichlorobenzene	EPA3545A	BDL	BDL	100	ND	ND	100
21.	2,2-Dichloropropane	EPA3545A	BDL	BDL	100	ND	ND	100
22.	2-Chlorotoluene	EPA3545A	BDL	BDL	100	ND	ND	100
23.	4-Chlorotoluene	EPA3545A	BDL	BDL	100	ND	ND	100
24.	4-Isopropyltoluene	EPA3545A	BDL	BDL	100	ND	ND	100
25.	Benzene	EPA3545A	BDL	BDL	100	ND	ND	100
26.	Bromobenzene	EPA3545A	BDL	BDL	100	ND	ND	100
27.	Bromochloromethane	EPA 3545 A	BDL	BDL	100	ND	ND	100
28.	Bromodichloromethane	EPA3545A	BDL	BDL	100	ND	ND	100
29.	Bromoform	EPA 3545A	BDL	BDL	100	ND	ND	100
30.	Bromomethane	EPA3545A	BDL	BDL	100	ND	ND	100
31.	Carbontetrachloride	EPA5030 C	BDL	BDL	20	ND	ND	100
32.	Chlorobenzene	EPA5030C	BDL	BDL	20	ND	ND	100
33.	Chloroethane	EPA5030C	BDL	BDL	20	ND	ND	100
34.	Chloroform	EPA5030 C	BDL	BDL	20	ND	ND	100
35.	Chloromethane	EPA5030 C	BDL	BDL	20	ND	ND	100
36.	Cis-1,2-Dichloroethene	EPA5030 C	BDL	BDL	20	ND	ND	100
37.	cis-1,3-Dichloropropene	EPA5030 C	BDL	BDL	20	ND	ND	100
38.	Dibromochloromethane	EPA 5030 C	BDL	BDL	20	ND	ND	100
39.	Dibromomethane	EPA5030C	BDL	BDL	20	ND	ND	100

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S.No.	Parameter	Protocol	Analysis Report					% of Performance Efficiency
			Blank	Method Blank	Spiked concentration	After filtration	Treatment	
40	Dichlorodifluoromethane	EPA5030 C	BDL	BDL	20	ND	ND	100
41	Ethyl benzene	EPA5030C	BDL	BDL	20	ND	ND	100
42	Isopropylbenzene	EPA5030C	BDL	BDL	20	ND	ND	100
43	m & p-xylenes	EPA5030C	BDL	BDL	20	ND	ND	100
44	a-Xylene	EPA5030 C	BDL	BDL	20	ND	ND	100
45	Methyl Ethyl Ketone	EPA 5030 C	BDL	BDL	20	ND	ND	100
46	Methyl Chloride	EPA 5030 C	BDL	BDL	20	ND	ND	100
47	n-Butylbenzene	EPA 5030 C	BDL	BDL	20	ND	ND	100
48	n-Propylbenzene	EPA 5030 C	BDL	BDL	20	ND	ND	100
49	sec-Butylbenzene	EPA 5030 C	BDL	BDL	20	ND	ND	100
50	Styrene	EPA 5030 C	BDL	BDL	20	ND	ND	100
51	t-butylbenzene	EPA3545A	BDL	BDL	100	ND	ND	100
52	Tetrachloroethene	EPA 3545 A	BDL	BDL	100	ND	ND	100
53	Toluene	EPA 3545 A	BDL	BDL	100	ND	ND	100
54	Trans-1,2-Dichloroethene	EPA3545 A	BDL	BDL	100	ND	ND	100
55	trans-1,3-Dichloropropene	EPA3545A	BDL	BDL	100	ND	ND	100
56	Napthalene	EPA3545A	BDL	BDL	100	ND	ND	100
57	Trichloro ethylene	EPA3545A	BDL	BDL	100	ND	ND	100
58	Trichlorofluoromethane	EPA3545A	BDL	BDL	100	ND	ND	100
59	Vinyl Chloride	EPA3545 A	BDL	BDL	100	ND	ND	100
60	Xylene	EPA3545A	BDL	BDL	100	ND	ND	100
IV	Heavy Metals :							
1.	Arsenic	APHA22" EDI: 2012	BDL	BDL	16.13	10.1	ND	37.38
2.	Cadmium	APHA22" EDI: 2012	BDL	BDL	15.61	3.481	ND	77.70
3.	Chromium	APHA22" EDI: 2012	BDL	BDL	30.71	ND	ND	100
4.	Lead	APHA22" EDI: 2012	BDL	BDL	23.53	ND	ND	100
5.	Nickel	APHA22" EDI: 2012	BDL	BDL	30.81	1.007	ND	96.73
6.	Selenium	APHA22" EDI: 2012	BDL	BDL	12.23	2.818	ND	76.96

For !;VH bs (Pv)

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**** END OF REPORT ****

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Lab-Manager

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