



QUARTERLY REPORT BOTTLED WATER QUALITY

(October-December, 2020)



PAKISTAN COUNCIL OF RESEARCH IN WATER RESOURCES
Ministry of Science & Technology
Khyban-e-Johar, H-8/1, Islamabad.
www.pcrwr.gov.pk

October-December, 2020



SUMMARY

The poor quality of drinking water has forced a large cross-section of citizens to buy bottled water. However, many of the mineral water companies were found selling contaminated water. To monitor and improve the quality of bottled water, the government of Pakistan through Ministry of Science and Technology has designated the task for quarterly monitoring of bottled/mineral water brands to PCRWR. According to the monitoring report for the quarter October-December, 2020 following is the brief overview of the findings.

Quarterly Monitoring of Bottled/Mineral Water (October-December, 2020)

Item	No.	% age
Total No. of Brands Collected	119	-
Overall Safe Brands	106	89
Overall Unsafe Brands	13	11
Chemically Safe Brands	110	92
Chemically Unsafe Brands	09	08
Microbiologically Safe Brands	115	97
Microbiologically Unsafe Brands	04	03

Name of Targeted Cities (13)	(Islamabad, Rawalpindi, Quetta, Gilgit, D.G.Khan, Multan, Faisalabad, Karachi, Bahawalpur, Tando Jam, , Sialkot, Muzaffarabad, Lahore)
--------------------------------------	---

Unsafe Brands	MASKOOB	A Product of Sandeelah Food & Beverages:311-E Block Shah Rukn e Alam Colony Multan
	Al Safa	Bukhari Plaza Shop No.1, Faizan Chowk Nawab Pur Road, Multan
	Aqua SWAG	Produced by: SWAG Enterprises Timber Market Main 100 Feet Road, Dera Ghazi Khan.
	Pure Nature	PAK Enterprises:9 km G.T. Road, Rachna Town Ferozwala, Shahdera Lahore
	McWay Water	A product of Mcway water services bottle & source Faisalabad Branch Main Styana Road P-68 Satellite Town, Faisalabad.
	Pristin One	A Product of Pristine Water Private Limited Karachi. 0333-3965887
	Alkaline Water	-
	More Plus	-
	Blue Life	A Product by A Enterprises
	Aqua Star	A Product by: AQUA STAR S.I.T.E Karachi. 03222186401 03161073043
	ONE	A Product by JEELANI Groups: Main National Highway Sujawal Road Thatta.
	Dropice	TM 428572 0306-2009099 0314-7739595
Blue Plus	Q.N Traders: S.I.T.E Karachi.	



INTRODUCTION

Drinking water quality is deteriorating continually due to biological contamination from human waste, chemical pollutants from industries and agricultural inputs. Piped water also gets contaminated because pipes are laid very close to sewerage lines or open drains and cause many serious water borne diseases. It was found that 45% of infant deaths have been attributed to diarrhea and about 60% to overall infectious waterborne diseases in Pakistan. According to the World Health Organization (WHO) 25-30% of the diseases are gastro-intestinal in nature. The poor quality of drinking water has forced a large cross-section of citizens to buy bottled water. As a consequence of this expanding market a mushroom growth of bottled water industry in the country is witnessed during the last few years. However, many of the mineral water companies were found selling contaminated water. To monitor and improve the quality of bottled water, the government of Pakistan has designated the PCRWR as focal point agency.

1. Ministry of Science & Technology informed PCRWR Vide U.O. No. 5(21)/2004-ATA-II dated 17.10.2005 that the Cabinet in its meeting under the chairmanship of Prime Minister directed Ministry of Science & Technology to undertake regular survey/samples of bottled/mineral water and publicize the results on a quarterly basis and follow up with punitive/legal action.
2. Ministry of Science & Technology has assigned the task of quality monitoring of bottled water and publicize the results to PCRWR Vide U.O. No.1(1)/2005-Secy (MoST) dated 8.12.2005.

PCRWR SAMPLING METHODOLOGY

No. of Brands Collected	119	
No. of Cities Targeted(13)	(Islamabad, Rawalpindi, Quetta, Gilgit, D.G.Khan, Multan, Faisalabad, Karachi, Bahawalpur, Tando Jam, Sialkot, Muzaffarabad, Lahore)	
Composition of Sampling Team as per MoU Signed between PCRWR & PSQCA	One Research Officer and one Laboratory Assistants from PCRWR and Senior staff member and field officer from PSQCA.	
Sampling Procedure	Samples of commercially available brands of mineral/bottled water were collected from local market of seven cities of Pakistan. These samples were collected by the senior staff members of National Water Quality Laboratory (NWQL) of PCRWR Head Office and Regional/district Water Quality Laboratories of PCRWR during October-December, 2020. A set of four bottles of each brand was collected and sealed on site. Identification codes were allotted to all the brands according to PCRWR Bottled Water Classification System.	
Transparency	Sample No. 1	Handed over to shopkeeper at the time of sample collection;
	Sample No. 2	Preserved in the National Water Quality Laboratory of PCRWR, Islamabad for future record.
	Sample No. 3	Used for Microbiological Analysis
	Sample No. 4	Used for Physico-chemical Analysis



PCRWR BOTTLED WATER CLASSIFICATION SYSTEM

Brand Name	PCRWR Code	City	Date of Collection	Date of Expiry	Size	Name & Address of Seller/Shop Keeper	Manufacturer's Address
MASKOOB	BWB-01	Multan	19/11/2020	05/2021	0.5 Liter	Collected from manufacturing point	A Product of Sandeelah Food & Beverages:311-E Block Shah Rukn e Alam Colony Multan.
Vital	BWB-02	Multan	19/11/2020	10/2021	0.5 Liter	Collected from manufacturing point	Daimond Food & Beverages: Nadira Bad Railway Colony Industrial Area, Multan
Alpine Pure	BWB-03	Multan	19/11/2020	10/2021	0.6 Liter	Collected from manufacturing point	Address: 7-Sanpal Market, Shalimar Colony, Multan 0315-6056111 03330671347
Alfalah	BWB-04	Multan	19/11/2020	08/2021	0.6 Liter	Collected from manufacturing point	Western fort Commercial Area Qasim Bela, Multan Cantt. Wateralfalah@gmail.com
FAIHA	BWB-05	Multan	19/11/2020	10/2021	0.6 Liter	Collected from manufacturing point	Bottled by Faiha Enterprises Multan green Road kekar wala Sujan Pur Multan Pakistan
Al-Safa	BWB-06	D.G.Khan	03/11/2020	08/2021	0.5 Liter	Dost Pharmacy Block-9, D.G.Khan	Bukhari Plaza Shop No.1, Faizan Chowk Nawab Pur Road, Multan.
Himalaya Cool	BWB-07	D.G.Khan	03/11/2020	10/2021	0.5 Liter	Imran Medical Store Opp. DHQ D.G. Khan	Himalaya Enterprises: Faiz Yaseen Colony, 3-km JamPur Road, Pul Shoria, D.G.Khan
Aqua SWAG	BWB-08	D.G.Khan	03/11/2020	10/2021	1.5 Liter	Baloch Pharmacy Opp.DHQ D.G.Khan	Produced by: SWAG Enterprises Timber Market Main 100 Feet Road, Dera Ghazi Khan.
Oriel	BWB-09	D.G.Khan	03/11/2020	10/2021	1.5 Liter	Zeeshan Pharmacy Railway Road,Block-9 D.G.Khan	Oriel Beverages: Near Al-Hamd Sweets Pul Shoria D.G. Khan
NESTOL	BWB-10	Muzaffarabad	25/11/2020	08/2021	0.5 Liter	Abbasi General Store Near Katha Wali Masjid Upper Adda Muzaffarabad.	Khana Dak, Park Area Pindorian, Islamabad
Springley	BWB-11	Muzaffarabad	25/11/2020	03/2022	0.5 Liter	Abbasi General Store Near Katha Wali Masjid Upper Adda Muzaffarabad	Qarshi Industries(Pvt.)Ltd Jam-e-Shirin Boulevard, 14-G Gulberg III Lahore
Pure Nature	BWB-12	Faisalabad	16/10/2020	01/2021	0.5 Liter	Abdul Jabbar Shop G.T.S Faisalabad.	PAK Enterprises: 9 km G.T. Road, Rachna Town Ferozwala, Shahdera Lahore
Fresco Healthy Water	BWB-13	Faisalabad	16/10/2020	-	0.5 Liter	Hafiz Tuck Shop G.T.S Faisalabad.	PS:221- 2010(R) CML/N-740/15
Super Natural	BWB-14	Faisalabad	16/10/2020	09/2021	0.5 Liter	Gujjar Hotel G.T.S Faisalabad.	Well-O (Pvt) Ltd. P-958, St No. 12, M. Abbas Satiana Road, Faisalabad.
CHENAB	BWB-15	Faisalabad	16/10/2020	08/2021	0.6 Liter	M. Akram Tuck Shop G.T.S Faisalabad.	Product by: CHENAB Pure Water Add: Street 1 Nishat Abad, Faisalabad.
New Nation	BWB-16	Faisalabad	16/10/2020	10/2021	0.5 Liter	Usman Pan Shop G.T.S Faisalabad.	Rameez Enterprises: 9-km G.T Road Rachna Road Feroz wala.
ATLANTIS Water	BWB-17	Faisalabad	16/10/2020	01/2021	0.5 Liter	New 786 Tuck Shop G.T.S Faisalabad.	Plot no 57, Street no 17 Dastageer colony west canal road Faisalabad.



Brand Name	PCRWR Code	City	Date of Collection	Date of Expiry	Size	Name & Address of Seller/Shop Keeper	Manufacturer's Address
McWay Water	BWB-18	Faisalabad	16/10/2020	09/2021	0.5 Liter	Abdul Sattar Pan Shop G.T.S Faisalabad.	A product of Mcway water services bottle & source Faisalabad Branch Main Styana Road P-68 Satellite Town, Faisalabad.
Aqua Soft	BWB-19	Quetta	08/10/2020	12/2022	1.5 Liter	Juice Centre Opposite BMC, Hospital Quetta.	Approved By: PSQCA Bottled by: S&G Bottlers
Aqua Hygienic	BWB-20	Quetta	08/10/2020	09/2021	1.5 Liter	Karachi Medical Store, Jinnah Road, Quetta.	Marketed By Zauhras: Plot No.2, Street#12, Faisal Town Brewery Road Quetta.
Dasani	BWB-21	Quetta	08/10/2020	09/2021	1.5 Liter	Saleem Medical M.A Jinnah Road, Quetta.	The Coca Cola Company by Coca Cola Beverages Pakistan Ltd. (CCBPL 26 FCC, Syed Maratab Ali road, Gulberg IV, Lahore.
Ice Land	BWB-22	Quetta	08/10/2020	08/2021	1.5 Liter	Ideal Bakers & Super Store Samungli Road, Quetta.	ICELAND water 02,first floor Gul Plaza Shabaz Town phase 1 Quetta
JEL	BWB-23	Quetta	08/10/2020	12/2022	1.5 Liter	Juice Centre Opposite BMC, Hospital Quetta.	Produced by MEGAFINE Industries: Plot No. A-79 Industrial Area Malir, Karachi
AquaFina	BWB-24	Quetta	08/10/2020	08/2021	1.5 Liter	Karachi Medical Store, Jinnah Road, Quetta.	Purified & Filled by Pakistan Beverages Survey No. 212, Deh Konkar District Malir Karachi
Nestle	BWB-25	Quetta	08/10/2020	03/2022	1.5 Liter	Quetta Hospital Pharmacy Dr. Sher M Road, Quetta.	Bottled by Nestle Pakistan Ltd. 308-upper Mall, Lahore. www.nestlepurelife.com/pk
CHILTAN Aqua	BWB-26	Quetta	08/10/2020	-	1.5 Liter	Pakistan Medical Store, Jinnah Road, Quetta.	A Product By: BMG Foods Qambarani Road, Quetta..
NEO	BWB-27	Quetta	08/10/2020	12/2021	1.5 Liter	Amir Juice House Jinnah Road,Quetta.	Address: plot No.96, Malir Industrial Area Malir 15, Karachi. E-mail: neovattan@gmail.com
Aqua Natural	BWB-28	Sialkot	16/11/2020	10/2021	0.6 Liter	Bismillah Faisal Pan Shop Shahab Pura Road,Sialkot.	Aqua Natural khan baba petroleum Gujranwala Road Daska PS:4639-2004
Aqua Royals	BWB-29	Sialkot	16/11/2020	08/2021	0.6 Liter	Collected from manufacturing point	0321-6668883 aquaroyals@gmail.com
Needs	BWB-30	Sialkot	16/11/2020	11/2021	0.6 Liter	Allah Waris Pan Shop China Chowk Wazirabad Road Sialkot.	Needs Pure Life Sambrial Sialkot. 03348125752
Isberg	BWB-31	Sialkot	16/11/2020	11/2021	0.6 Liter	Collected from manufacturing point	Premier Water Refining Company: Wazirabad Road, Noul Morr 2 km Roras Road West, Dhabba Sialkot
Urban Sip	BWB-32	Sialkot	16/11/2020	09/2021	0.6 Liter	Sunny Cold Corner Lari Ada Sialkot.	A Product of K&K Foods and Beverages: Jammu Road, Dalowali, Sialkot 0300-0911926 0332-4767777 urbanwater@gmail.com
Britx Natural Water	BWB-33	Sialkot	16/11/2020	11/2021	0.6 Liter	Khalida Memorial Hospital Near Jinnah Stadium Sialkot.	Small Industrial Estate: Rehmat Ali Road Sialkot www.britxwater.com



Brand Name	PCRWR Code	City	Date of Collection	Date of Expiry	Size	Name & Address of Seller/Shop Keeper	Manufacturer's Address
Dazzling Water	BWB-34	Sialkot	16/11/2020	08/2021	0.5 Liter	Collected from manufacturing point	IR water Company Sialkot. lrwc2008@yahoo.com
Masafi	BWB-35	Sialkot	16/11/2020	09/2021	0.5 Liter	Ch. Traders Shahab Pura Road, Sialkot.	Masafi Pure Enterprises Eminabad Road, Sialkot.
Bake Master	BWB-36	Sialkot	16/11/2020	10/2021	0.5 Liter	Bake Master Shahab Pura Road, Sialkot.	Processed and Bottled by: Bake Master Food & Beverages Marala Road New Abadi Muradpur Sialkot.
ICE WELL	BWB-37	Sialkot	16/11/2020	11/2021	0.6 Liter	Imam Pak Pan Shop Shahab Pura Road, Sialkot.	Bottled by: Quaint Beverages Industries Near G.T Road Mor Sambrial Sialkot
Droplet	BWB-38	Tando Jam	12/11/2020		0.6 Liter	Discount Medical/General Store, Latifabad No.7 Hyderabad.	Bottled By: MAKKAH INTERNATIONAL Address: Block 1-A, Gulistan-e-Johar, Karachi
MAA JEE	BWB-39	Tando Jam	12/11/2020	-	0.6 Liter	Fateh Medical/General Store Latifabad, Hyderabad.	TM #484804 Jacob Road, Hyderabad. 0311-2118382
Al-Ghadeer	BWB-40	Tando Jam	12/11/2020	05/2021	0.6 Liter	Near Herabad Opposite Casuility LUMCH Hyderabad.	Manufactured By: Al-Ghadeer Foundation Hyderabad.
Pristine One	BWB-41	Tando Jam	12/11/2020	-	0.5 Liter	Al-Asif Super Store Naseem Nagar Qasimabad Hyderabad.	A Product of Pristine Water Private Limited Karachi. 0333-3965887
Alkaline Water	BWB-42	Tando Jam	12/11/2020		0.6 Liter	Al-Asif Super Store Qasimabad Hyderabad.	-
OSLO	BWB-43	Tando Jam	12/11/2020	-	0.6 Liter	Awan Medical/General Store Civil Hospital Hyderabad.	Oslo International, Karachi. 14- Ramzan Chamber Dr Bilmoria Street off: 1.1 Chandigarh Road Karachi.
Al-Zaid	BWB-44	Tando Jam	12/11/2020	-	0.6 Liter	Near Herabad Opposite Casuility LUMCH Hyderabad.	Product by Z.M Enterprises: Berabad Hyderabad
Afshak	BWB-45	Tando Jam	12/11/2020	12/2020	0.5 Liter	Discount Medical/General Store, Latifabad No.7 Hyderabad.	Head Office: Jail road Hirabad, Hyderabad
Refine	BWB-46	Tando Jam	12/11/2020	-	0.5 Liter	Jeay Latif Medical/General Store, Qasimabad.	Head Office: A-84 Tando Meer Ghulam Huusain Unit No. 9 Latifabad Hyderabad Sindh. 0337-8017618
More Plus	BWB-47	Tando Jam	12/11/2020		0.5 Liter	Shah Medical Store OPD LUMCH Hyderabad.	-
ICE Drop	BWB-48	Tando Jam	12/11/2020	-	0.6 Liter	Near Hyrabad Opposite Casuility LUMCH Hyderabad.	Noorani Basti Ahsanabad Colony Hyderabad 0333-7154915
ALPHA	BWB-49	Karachi	17/11/2020	-	0.6 Liter	Kaleem General Store, Masjid Behar Colony Lyari Karachi.	Qaiser Enterprises: N Block B 261, N Nazimabad
Active One	BWB-50	Karachi	16/11/2020	10/2021	0.5 Liter	Noor Medical Store, Check Post No.6 Karachi, Malir Cantt.	A Product by Active Foods: D-13/A-9, S.I.T.E Karachi. www.Activefoods.biz
Blue Life	BWB-51	Karachi	16/11/2020	-	0.6 Liter	Lasani General Store, Sparko Road, Mosmiyat Karachi.	A Product by A Enterprises



Brand Name	PCRWR Code	City	Date of Collection	Date of Expiry	Size	Name & Address of Seller/Shop Keeper	Manufacturer's Address
Orish	BWB-52	Karachi	17/11/2020	-	0.6 Liter	Hazrat General Store, Shop No.10 Super Highway Opposite Daewoo Stop.	A Product by A Enterprises B-24 KDA Society Gulzar-e-Hijri Scheme 33, Karachi. 021-34693631
Al-Umer	BWB-53	Karachi	17/11/2020	-	0.6 Liter	Al-Umer Shop Noorani Masjid Road, Near Noorani, masjid Agra Taj Colony Lyai Karachi.	alumerwatershop@gmail.com 0307-2526200 0312-2395278
Crystal Maya	BWB-54	Karachi	17/11/2020	-	0.6 Liter	Time Communication and General Store, Super Highway, Jewani Heights Karachi.	A Product of Asghar and Sons
Aqua Star	BWB-55	Karachi	17/11/2020	-	0.5 Liter	White Rose General Store, St,5 E Road, Bihar Colony Lyari Karachi.	A Product by: AQUA STAR S.I.T.E Karachi. 03222186401 03161073043
ONE	BWB-56	Karachi	17/11/2020	-	0.6 Liter	One Pure Drinking Water Shop, Bihar Colony Road, Lyari Karachi.	A Product by JEELANI Groups: Main National Highway Sujawal Road Thatta.
Hill drops	BWB-57	Karachi	17/11/2020	-	0.6 Liter	MashaAllah Pan Shop Arif Market Safoora Gulistan-e- Johar Karachi.	Product by: Faizan Enterprises: Plot No. 20, Sector 1 Landhi Commercial Industrial Area, Karachi No.22. hilldrops@gmail.com
Clover Smart Water	BWB-58	Karachi	16/11/2020	12/2021	0.5 Liter	Kakar Hotel Gulistan-e-Johar, Block No.4,Mosmiyat Karachi.	Bottled by Clover Pakistan.
Yes	BWB-59	Karachi	16/11/2020	12/2020	0.6 Liter	Ya Allah Madad General Store, Shah Latif,B-19 Bin Qasim Karachi.	Mega Fina Industrial Area, Plot No.A-79,Malir Karachi
HUNZA	BWB-60	Karachi	16/11/2020	12/2022	0.6 Liter	Ideal Super Store Inside Mateen Complex Bin Qasim Karachi.	A Product by Hunza Enterprises: Korangi Industrial Area, Karachi.
Dropice	BWB-61	Karachi	16/11/2020		0.6 Liter	Iqbal Bakari and General Store, Okhai Market Karachi.	TM 428572 0306-2009099 0314-7739595
UF Pure EDGE	BWB-62	Karachi	16/11/2020	-	0.6 Liter	United Milk Shop Okhai Market, Karachi.	A product by UF Enterprises: A 80/A ground Floor Block - 01,Metrovill 3 rd Abul Hasan Isphani Scheme - 33,Gulistan-e-Johar Karachi.
Douro	BWB-63	Karachi	16/11/2020	-	0.6 Liter	New Quetta MashaAllah Mosmiyat Gulistan-e-Johar Karachi.	Plot No. C-14, Sultan Road, F.B Area Karachi.
AM 2PM	BWB-64	Karachi	17/11/2020	-	0.6 Liter	Al-Madina Abul Asfani Road, Abbas Town Karachi.	TM#522293
H ₂ O Water Right	BWB-65	Karachi	16/11/2020	-	0.6 Liter	Kakar Hotel Gulistan-e-Johar, Block No.4,Mosmiyat Karachi.	Bottled by: J Traders 0345-3135475 03462115518
Water Plus	BWB-66	Karachi	16/11/2020	12/2022	0.5 Liter	Aamir General Store Malir Cantt, Check Post No.6,Karachi.	Bottled by MEGAFINE Industries: Plot No. A-79 Industrial Area Malir, Karachi.
Blue Plus	BWB-67	Karachi	16/11/2020	-	0.6 Liter	Aamar Cold Drink Shop Malir Cantt, Check Post No.6,Karachi.	Q.N Traders: S.I.T.E Karachi.



Brand Name	PCRWR Code	City	Date of Collection	Date of Expiry	Size	Name & Address of Seller/Shop Keeper	Manufacturer's Address
Elovina Water	BWB-68	Islamabad	02/12/2020	09/2021	1.5 Liter	Collected from manufacturing point	Plot No.17,Street No. 3, Federal Area, Sohan Islamabad.
Seven Stream	BWB-69	Islamabad	02/12/2020	08/2021	1.5 Liter	Collected from manufacturing point	Plot No. 2, Near Khalid Bin Waleed Masjid Federal Area, Sohan Islamabad
Calci Dew	BWB-70	Islamabad	02/12/2020	10/2021	1.5 Liter	Collected from manufacturing point	Plot No.3, Khasra No. 659 Sohan, Near Khalid Bin Waleed Masjid Federal Area, Sohan Islamabad
Springley	BWB-71	Islamabad	02/12/2020	-	19 Liter	Plot No.1,Muhammadi Town Sohan, Islamabad	Qarshi Industries (Pvt.) Ltd Jam-e-Shirin Boulevard, 15-G Gulberg III Lahore
DrinkIt Pure	BWB-72	Islamabad	02/12/2020	12/2021	19 Liter	Collected from manufacturing point	Plot No.27, Street No.3-A, Muhammadi Town, Islamabad.
Fresh Life	BWB-73	Islamabad	02/12/2020	06/2021	1.5 Liter	Collected from manufacturing point	Main Hall, Khana Dak, Park Area Pindorian, Islamabad.
Nestol	BWB-74	Islamabad	02/12/2020	08/2021	0.5 Liter	Collected from manufacturing point	Khana Dak, Park Area Pindorian, Islamabad
Ripple Water	BWB-75	Rawalpindi	02/12/2020	10/2021	0.5 Liter	Collected from manufacturing point	Sector 3 Plot 769, Street 6, Al Noor Colony Khana Pull, Rawalpindi
Al-MENA Water	BWB-76	Islamabad	02/12/2020	06/2021	19 Liter	Collected from manufacturing point	Japan Road, Near Railway Phatak Islamabad.
Aqua Green	BWB-77	Islamabad	02/12/2020	09/2021	0.5 Liter	Collected from manufacturing point	Aqua Green Plot No.372 Japan Road, Naval Encourage Gate No.2, Islamabad
Deosai	BWB-78	Islamabad	02/12/2020	10/2021	1.5 Liter	Collected from manufacturing point	3 km Japan Road, Sihala Khurd Sihala, Islamabad
Water Empire	BWB-79	Islamabad	02/12/2020	09/2021	0.5 Liter	Collected from manufacturing point	Plot No.156, Japan Road, Islamabad.
Victoria	BWB-80	Bahawalpur	25/11/2020	07/2021	0.5 Liter	Nouman Super Store Model Town C Bahawalpur.	J.R Trader: T.M No.539472
Pine'o	BWB-81	Bahawalpur	25/11/2020	10/2021	0.5 Liter	Discount Pharmacy Model Town C Bahawalpur.	Under Licence: Gysing Pak DDR-1, PSIE Bahawalpur. gysing@live.com
National	BWB-82	Bahawalpur	25/11/2020	11/2021	0.5 Liter	Shareef Pharmacy Model Town C Bahawalpur	Nazir Enterprises Dera Bakha Bahawalpur nazirenterprises509@gmail.com
Mountain Spring	BWB-83	Bahawalpur	25/11/2020	08/2021	0.5 Liter	Nouman Super Store Model Town C Bahawalpur.	Pak American Beverages Korli Road, Kallar Kahar.
Pure Next	BWB-84	Bahawalpur	25/11/2020	10/2021	1.5 Liter	Shan Sweets & Bakers Railway Station Bahawalpur.	Filled by: Mezan Beverages (Pvt) Ltd 45 km, Multan Road, Lahore
MARWA Water	BWB-85	Islamabad	08/12/2020	06/2021	1.5 Liter	Collected from manufacturing point	Plot No.1, Street B-1, Sector B, Marwa Town, Islamabad.
Hyder	BWB-86	Islamabad	08/12/2020	08/2021	1.5 Liter	Collected from manufacturing point	Office: 6,7,14,15 Main Double Road, Commercial Plaza Block H, Soan Garden, Islamabad.
Hydra	BWB-87	Islamabad	08/12/2020	06/2021	1.5 Liter	Collected from manufacturing point	Plot No. 31-A, Main Service Road, North 02/12/2020 Sector, I-9/2, Islamabad.
Sunley	WB-88	Islamabad	08/12/2020	06/2021	1.5 Liter	Collected from manufacturing point	Plot No. 31-A, Main Service Road, North Sector, I-9/2, Islamabad.



Brand Name	PCRWR Code	City	Date of Collection	Date of Expiry	Size	Name & Address of Seller/Shop Keeper	Manufacturer's Address
SUJO	BWB-89	Gilgit	10/12/2020	10/2021	1.5 Liter	Pervez Alif Plaza KKH Danyore Chowk, Gilgit.	A Product of Sujo Punar: Salar Road, Jutial Gilgit. www.sujopunar.com
Vividle	BWB-90	Gilgit	10/12/2020	08/2021	1.5 Liter	Pervez Alif Plaza KKH Danyore Chowk, Gilgit.	Bottled by Vividle Private Limited: Near Old China Bridge,Danyore Gilgit www.vividle.com
Himalaya	BWB-91	Gilgit	10/12/2020	08/2021	1.5 Liter	Sargan Bakers and Sweets House Main Chowk Gilgit.	A Product of Ali Foods & Beverages: Main KKH Juglood Guro Gilgit, Pakistan Alifoodsandbeverages@g mail.com
Seven Spring	BWB-92	Gilgit	10/12/2020	10/2021	1.5 Liter	Pervez Alif Plaza KKH Danyore Chowk, Gilgit.	A Product of AL-Kosar foods GB, Pakistan. 7springsgb@gmail.com
Aqua One	BWB-93	Lahore	04/11/2020	01/2021	1.5 Liter	Collected from manufacturing point	Aqua One Filtration (Pvt) Ltd. 30-A, Niaz Town Main Boulevard (Near Valencia Town) Lahore. www.aquaonefiltration.co m
Cristalene	BWB-94	Lahore	04/11/2020	09/2021	1.5 Liter	Collected from manufacturing point	A Product of Cristalene Pak Brothers: 30/A-1 Al- Feroz Plaza Commercial Area Valencia Society Lahore. www.cristalenepak.com
Jami Water	BWB-95	Lahore	04/11/2020	07/2021	1.5 Liter	Collected from manufacturing point	A Product of Jami Water Services: Wapda Town Branch Lahore: 318, K-2, Wapda Town, Rehmat Chowk, Lahore. www.jamiwater.com 042- 35219733
Rahat Water	BWB-96	Lahore	04/11/2020	08/2021	1.5 Liter	Rahat bakers & Sweets Wapda Town NCSPAC Lahore.	Rahat Bakers & Departmental Stores Rahat Market, Aziz Bhatti Shaheed Road, Lahore Cantt.
Erie Water	BWB-97	Lahore	04/11/2020	-	1.5 Liter	Collected from manufacturing point	A Project of Sagacious (Pvt) Ltd.99-CII, PGECHS Lahore. www.erie.pk
Klinz	BWB-98	Lahore	04/11/2020	10/2021	1.5 Liter	Collected from manufacturing point	Plot#10-A, Punjab Small Industrial Estate Kacha Jail Road Kot Lakhpat Lahore www.klinzfood.com
Glacial Water	BWB-99	Lahore	04/11/2020	09/2021	1.5 Liter	Collected from manufacturing point	358-E, Johar Town, Lahore www.glacial.pk 0342- 4522425
Pure It	BWB-100	Lahore	05/11/2020	09/2021	1.5 Liter	Collected from manufacturing point	Address: Ghosia Street Sher Shah Colony Lahore.
Drinklay	BWB-101	Lahore	05/11/2020	10/2021	1.5 Liter	Collected from manufacturing point	Bottled by :Drinklay Water 843-F,Jubilee Town Lahore drinklaywater@gmail.com
Pureflo	BWB-102	Lahore	05/11/2020	07/2021	1.5 Liter	Collected from manufacturing point	193,Ali Center, Airline Society, Khayaban-e- Jinnah, Lahore www.pureflo.pk
Aqua Fit	BWB-103	Lahore	05/11/2020	07/2021	1.5 Liter	Collected from manufacturing point	Address:422-0/Q-Block Model Town Lahore
Aqua Health Life	BWB-104	Lahore	05/11/2020	10/2021	1.5 Liter	Collected from manufacturing point	Address: 803-G-Q Block Flats Toor Electric store Model Town Lahore.
Trust Drinking Water	BWB-105	Lahore	05/11/2020	09/2021	1.5 Liter	Collected from manufacturing point	Address: Model Town Q.block link Dhobi ghat Road Lahore.



Brand Name	PCRWR Code	City	Date of Collection	Date of Expiry	Size	Name & Address of Seller/Shop Keeper	Manufacturer's Address
Aqua Safe	BWB-106	Lahore	05/11/2020	09/2021	1.5 Liter	Collected from manufacturing point	Bottled by Aqua Safe Pakistan: 96-McLeod Road, Lahore aquasafewater@gmail.com
Ice Berg	BWB-107	Lahore	06/11/2020	07/2021	0.5 Liter	Hanan Pan Shop Kachi Kothi Stop Raiwind Road Lahore.	Dalish food (Pvt) Ltd Suit No.314, 3 rd floor Burj al-Saeed 99 km FerozPur Road Lahore.
Amfahh	BWB-108	Lahore	06/11/2020	11/2021	1.5 Liter	Collected from manufacturing point	Bottled by AMFAHH 541-J,Block Johar Town Lahore
Doce Water	BWB-109	Lahore	06/11/2020	11/2021	1.5 Liter	Collected from manufacturing point	48-M, Quaid-e-Azam Industrial State, Kot Lakhpat, Lahore www.doce.pk
Gourmet Water	BWB-110	Lahore	06/11/2020	10/2021	0.6 Liter	Address: PIA road near Round About Wapda Town Lahore.	Gourmet Foods: Gate # 1, Plot 1-5, Sunder Industrial Estate, Raiwind Sunder Road, Lahore, Pakistan
Aasnai Sip	BWB-111	Lahore	06/11/2020	09/2021	0.5 Liter	Collected from manufacturing point	Address: Sher Shah Colony Bilal Town, Raiwind Road, Lahore
Sufi	BWB-112	Lahore	11/11/2020	11/2022	1.5 Liter	89-A Ayubia market New Muslim town Lahore.	Processed and Bottled by: Hadayat Food Stuffs Industries (Pvt) Ltd. 1-B, Garden Block, Garden Town Lahore
Karakorum Flow	BWB-113	Lahore	11/11/2020	11/2021	1.5 Liter	Collected from manufacturing point	KARAKORUM Food (Pvt) Limited. 21-km Off FerozPur Road Lahore. www.karakorumfood.com
Marine Blue	BWB-114	Lahore	11/11/2020	09/2021	1.5 Liter	Collected from manufacturing point	Address: 1.5 Km Defence road kahna NAU Lahore
Murree Sparkletts	BWB-115	Lahore	16/11/2020	09/2021	0.5 Liter	Packages mall Carrefour Lahore.	A division of Murree brewery Co. Ltd). Plot No. 102 phase III Industrial Estate Hattar
Verbena	BWB-116	Islamabad	08/12/2020	06/2021	0.5 Liter	Collected from manufacturing point	Service Road Ghouri Town Phase, Islamabad. 0333-5134882
Venora	BWB-117	Islamabad	08/12/2020	09/2021	1.5 Liter	Collected from manufacturing point	Plot No. 238, Street No.8, I-9/3, Islamabad.
Aqua Stream	BWB-118	Islamabad	08/12/2020	09/2021	1.5 Liter	Collected from manufacturing point	Plot#368, St 5, Sector I-9/3, Islamabad
OPAL+	BWB-119	Islamabad	08/12/2020	06/2021	1.5 Liter	Collected from manufacturing point	Shop No.1 Dost Muhammad Market, Lehtrar Road, Islamabad



WATER QUALITY PARAMETERS AND METHODS USED FOR ANALYSIS

Sr. #	PARAMETERS	ANALYTICAL METHOD
1.	Alkalinity (mg/l as CaCO ₃)	2320, Standard method (2012) APHA
2.	Arsenic (ppb)	AAS Vario 6, Analytik Jena AG
3.	Bicarbonate	2320, Standard method (2012) APHA
4.	Calcium (mg/l)	3500-Ca-D, Standard Method (2012) APHA
5.	Carbonate (mg/l)	2320, Standard method (2012)
6.	Chloride (mg/l)	Titration (Silver Nitrate), Standard Method (2012) APHA
7.	Color (TCU)	Sensory Test
8.	Conductivity (μS/cm)	E.C meter, Hach-44600-00, USA
9.	Hardness (mg/l)	EDTA Titration, Standard Method (2012) APHA
10.	Magnesium (mg/l)	2340-C, Standard Method (2012) APHA
11.	Nitrate Nitrogen (mg/l)	Cd. Reduction (Hach-8171) by Spectrophotometer
12.	Odor	Sensory Test
13.	pH	pH Meter, Hanna Instrument, Model 8519, Italy
14.	Potassium (mg/l)	Flame photometer PFP7, UK
15.	Sodium (mg/l)	Flame photometer PFP7, UK
16.	Sulfate (mg/l)	SulfaVer4 (Hach-8051) by Spectrophotometer
17.	Phosphate (mg/l)	8190 and 8048 (Hach)
18.	Taste	Sensory Test
19.	TDS (mg/l)	2540C, Standard method (2012) APHA
20.	Turbidity (NTU)	Turbidity Meter, Lamotte, Model 2008, USA
21.	Fluoride (mg/l)	4500-F C. ion-Selective Electrode Method Standard method (2005) APHA
22.	Iron (mg/l)	FerroVer method (HACH Cat. 21057-69)
23.	Total Coliforms(MPN/100ml)	9221-B,C&D, Standard Methods (2012) APHA
24.	E. coli (MPN/100ml)	9221-B,C&D, Standard Methods (2012) APHA



WATER QUALITY PERMISSIBLE LIMITS FOR BOTTLED WATER

Sr. #	Parameter	Units	Permissible Limits		
			WHO	IBWA	PSQCA
1.	Alkalinity	(mg/l)	NGVS	NGVS	NGVS
2.	Bicarbonate	(mg/l)	NGVS	NGVS	NGVS
3.	Calcium	(mg/l)	NGVS	NGVS	100
4.	Carbonate	(mg/l)	NGVS	NGVS	NGVS
5.	Chloride	(mg/l)	250	250	250
6.	Color	(TCU)	15	NGVS	5
7.	Conductivity	(μ S/cm)	NGVS	NGVS	NGVS
8.	Fluoride	(mg/l)	1.5	3	0.7
9.	Hardness	(mg/l)	NGVS	NGVS	NGVS
10.	Iron	(mg/l)	0.3	0.3	0.3
11.	Magnesium	(mg/l)	NGVS	NGVS	50
12.	Odor	-	Odorless	NGVS	Unobjectionable
13.	Nitrate-N	(mg/l)	10	10	10
14.	pH	-	6.5-8.5	NGVS	6.5-8.5
15.	Potassium	(mg/l)	NGVS	NGVS	10
16.	Sodium	(mg/l)	200	NGVS	50
17.	Sulfate	(mg/l)	250	250	250
18.	Taste	-	Unobject.	NGVS	Unobjectionable
19.	TDS	(mg/l)	1000	500	500
20.	Turbidity	(NTU)	5	NGVS	0.5
21.	Phosphate	(mg/l)	NGVS	NGVS	NGVS
22.	Arsenic	ppb	10	10	10
23.	Total Coliforms	MPN/100ml	0	0	0
24.	E-Coli	MPN/100ml	0	0	0

WHO World Health Organization
IBWA International Bottled Water Association
PSQCA Pakistan Standards and Quality Control Authority



SUMMARY OF RESULTS OF PCRWR MONITORING

Contaminants of Potential Concerns Found in Bottled Water Brands

Sodium: Safe Limit : 50 parts per million (ppm)

Sr. No	Brand Name	Code	City of Manufacturing	Unit	Results
1.	MASKOOB	BWB-01	Multan	ppm	64
2.	Blue Life	BWB-51	Karachi	ppm	96
3.	ONE	BWB-56	Thatta	ppm	98
4.	Dropice	BWB-61	Karachi	ppm	100
5.	Blue Plus	BWB-67	Karachi	ppm	80

Arsenic : Safe Limit : 10 parts per billions (ppb)

Sr. No	Brand Name	Code	City of Manufacturing	Unit	Results
1.	MASKOOB	BWB-01	Multan	ppb	27
2.	Al Safa	BWB-06	Multan	ppb	14
3.	Pure Nature	BWB-12	Lahore	ppb	29

pH : Safe Limit : 6.5-8.5

Sr. No	Brand Name	Code	City of Manufacturing	Unit	Results
4.	Aqua SWAG	BWB-08	D.G. Khan	-	6.19
5.	More Plus	BWB-47	Hyderabad		6.19

Bacteriological: (Total Coliforms , Fecal Coliforms & E Coli) (Safe Limit: 0/100ml)

Sr. No	Brand Name	Code	City of Manufacturing	Results	
				Total Coliforms (MPN/100ml)	E. Coli (MPN/100ml)
1.	McWay Water	BWB-18	Faisalabad	06	Nil
2.	Pristin One	BWB-41	Karachi	02	Nil
3.	Alkaline Water	BWB-42	Hyderabad	08	Nil
4.	Aqua Star	BWB-55	Karachi	04	Nil

PCRWR TESTING: SAFE BRANDS

Sr. No	Brand Name	Code	Quality (Safe/Unsafe)	
			Chemical	Microbiological
1.	Vital	BWB-02	Safe	Safe
2.	Alpine Pure	BWB-03	Safe	Safe
3.	Alfalah	BWB-04	Safe	Safe
4.	FAIHA	BWB-05	Safe	Safe
5.	Himalaya Cool	BWB-07	Safe	Safe
6.	Oriel	BWB-09	Safe	Safe
7.	NESTOL	BWB-10	Safe	Safe
8.	Springley	BWB-11	Safe	Safe
9.	Fresco Healthy Water	BWB-13	Safe	Safe
10.	Super Natural	BWB-14	Safe	Safe
11.	CHENAB	BWB-15	Safe	Safe
12.	Nation	BWB-16	Safe	Safe
13.	ATLANTIS Water	BWB-17	Safe	Safe



Sr. No	Brand Name	Code	Quality (Safe/Unsafe)	
			Chemical	Microbiological
14.	Aqua Soft	BWB-19	Safe	Safe
15.	Aqua Hygienic	BWB-20	Safe	Safe
16.	Dasani	BWB-21	Safe	Safe
17.	Ice Land	BWB-22	Safe	Safe
18.	JEL	BWB-23	Safe	Safe
19.	AquaFina	BWB-24	Safe	Safe
20.	Nestle	BWB-25	Safe	Safe
21.	CHILTAN Aqua	BWB-26	Safe	Safe
22.	NEO	BWB-27	Safe	Safe
23.	Aqua Natural	BWB-28	Safe	Safe
24.	Aqua Royals	BWB-29	Safe	Safe
25.	Needs	BWB-30	Safe	Safe
26.	Isberg	BWB-31	Safe	Safe
27.	Urban Sip	BWB-32	Safe	Safe
28.	Britx Natural Water	BWB-33	Safe	Safe
29.	Dazzling Water	BWB-34	Safe	Safe
30.	Masafi	BWB-35	Safe	Safe
31.	Bake Master	BWB-36	Safe	Safe
32.	ICE WELL	BWB-37	Safe	Safe
33.	Droplet	BWB-38	Safe	Safe
34.	MAA JEE	BWB-39	Safe	Safe
35.	Al-Ghadeer	BWB-40	Safe	Safe
36.	OSLO	BWB-43	Safe	Safe
37.	Al-Zaid	BWB-44	Safe	Safe
38.	Afshak	BWB-45	Safe	Safe
39.	Refine	BWB-46	Safe	Safe
40.	ICE Drop	BWB-48	Safe	Safe
41.	ALPHA	BWB-49	Safe	Safe
42.	Active One	BWB-50	Safe	Safe
43.	Orish	BWB-52	Safe	Safe
44.	Al-Umer	BWB-53	Safe	Safe
45.	Crystal Maya	BWB-54	Safe	Safe
46.	Hill drops	BWB-57	Safe	Safe
47.	Clover Smart Water	BWB-58	Safe	Safe
48.	Yes	BWB-59	Safe	Safe
49.	HUNZA	BWB-60	Safe	Safe
50.	UF Pure EDGE	BWB-62	Safe	Safe
51.	Douro	BWB-63	Safe	Safe
52.	AM 2PM	BWB-64	Safe	Safe
53.	H ₂ O Water Right	BWB-65	Safe	Safe
54.	Water Plus	BWB-66	Safe	Safe
55.	Elovina Water	BWB-68	Safe	Safe
56.	Seven Stream	BWB-69	Safe	Safe
57.	Calci Dew	BWB-70	Safe	Safe
58.	Springley	BWB-71	Safe	Safe
59.	DrinkIt Pure	BWB-72	Safe	Safe
60.	Fresh Life	BWB-73	Safe	Safe
61.	Nestol	BWB-74	Safe	Safe
62.	Ripple Water	BWB-75	Safe	Safe



Sr. No	Brand Name	Code	Quality (Safe/Unsafe)	
			Chemical	Microbiological
63.	Al-MENA Water	BWB-76	Safe	Safe
64.	Aqua Green	BWB-77	Safe	Safe
65.	Deosai	BWB-78	Safe	Safe
66.	Water Empire	BWB-79	Safe	Safe
67.	Victoria	BWB-80	Safe	Safe
68.	Pine'o	BWB-81	Safe	Safe
69.	National	BWB-82	Safe	Safe
70.	Mountain Spring	BWB-83	Safe	Safe
71.	Pure Next	BWB-84	Safe	Safe
72.	MARWA Water	BWB-85	Safe	Safe
73.	Hyder	BWB-86	Safe	Safe
74.	Hydra	BWB-87	Safe	Safe
75.	Sunley	BWB-88	Safe	Safe
76.	SUJO	BWB-89	Safe	Safe
77.	Vividle	BWB-90	Safe	Safe
78.	Himalaya	BWB-91	Safe	Safe
79.	Seven Spring	BWB-92	Safe	Safe
80.	Aqua One	BWB-93	Safe	Safe
81.	Cristalene	BWB-94	Safe	Safe
82.	Jami Water	BWB-95	Safe	Safe
83.	Rahat Water	BWB-96	Safe	Safe
84.	Erie Water	BWB-97	Safe	Safe
85.	Klinz	BWB-98	Safe	Safe
86.	Glacial Water	BWB-99	Safe	Safe
87.	Pure It	BWB-100	Safe	Safe
88.	Drinklay	BWB-101	Safe	Safe
89.	Pureflo	BWB-102	Safe	Safe
90.	Aqua Fit	BWB-103	Safe	Safe
91.	Aqua Health Life	BWB-104	Safe	Safe
92.	Trust Drinking Water	BWB-105	Safe	Safe
93.	Aqua Safe	BWB-106	Safe	Safe
94.	Ice Berg	BWB-107	Safe	Safe
95.	Amfahh	BWB-108	Safe	Safe
96.	Doce Water	BWB-109	Safe	Safe
97.	Gourmet Water	BWB-110	Safe	Safe
98.	Aasnai Sip	BWB-111	Safe	Safe
99.	Sufi	BWB-112	Safe	Safe
100.	Karakorom Flow	BWB-113	Safe	Safe
101.	Marine Blue	BWB-114	Safe	Safe
102.	Murree Sparkletts	BWB-115	Safe	Safe
103.	Verbena	BWB-116	Safe	Safe
104.	Venora	BWB-117	Safe	Safe
105.	Aqua Stream	BWB-118	Safe	Safe
106.	OPAL+	BWB-119	Safe	Safe



PCRWR TESTING: UNSAFE BRANDS

Sr. No	Brand Name	Code	Address/Manufacturer	Quality (Safe/Unsafe)	
				Chemical	Microbiological
1.	MASKOOB	BWB-01	A Product Of Sandeelah Food & Beverages:311-E Block Shah Rukn e Alam Colony Multan	Unsafe	Safe
2.	Al Safa	BWB-06	Bukhari Plaza Shop No.1,Faizan Chowk Nawab Pur Road, Multan	Unsafe	Safe
3.	Aqua SWAG	BWB-08	Produced by: SWAG Enterprises Timber Market Main 100 Feet Road, Dera Ghazi Khan.	Unsafe	Safe
4.	Pure Nature	BWB-12	PAK Enterprises:9 km G.T. Road, Rachna Town Ferozwala, Shahdera Lahore	Unsafe	Safe
5.	McWay Water	BWB-18	A product of Mcway water services bottle & source Faisalabad Branch Main Styana Road P-68 Satellite Town, Faisalabad.	Safe	Unsafe
6.	Pristin One	BWB-41	A Product of Pristine Water Private Limited Karachi. 0333-3965887	Safe	Unsafe
7.	Alkaline Water	BWB-42	-	Safe	Unsafe
8.	More Plus	BWB-47	-	Unsafe	Safe
9.	Blue Life	BWB-51	A Product by A Enterprises	Unsafe	Safe
10.	Aqua Star	BWB-54	A Product by: AQUA STAR S.I.T.E Karachi. 03222186401 03161073043	Safe	Unsafe
11.	ONE	BWB-56	A Product by JEELANI Groups: Main National Highway Sujawal Road Thatta.	Unsafe	Safe
12.	Dropice	BWB-61	TM 428572 0306-2009099 0314-7739595	Unsafe	Safe
13.	Blue Plus	BWB-67	Q.N Traders: S.I.T.E Karachi.	Unsafe	Safe

MARKET CONSISTENCY IN TWO NEIGHBORING QUARTERS

Sr. No	Consistent Brands	New Brands	Unavailable Brands
1.	Alfalah	MASKOOB	Mashmoom Aqua
2.	FAIHA	Vital	Nurturmil Water
3.	Himalaya Cool	Alpine Pure	Star
4.	Aqua SWAG	Al-Safa	Wadi Mina
5.	NESTOL	Oriel	Aquatic Fresh
6.	Springley	Super Natural	Aqua DORE
7.	Pure Nature	Aqua Soft	Wah Water
8.	Fresco Healthy Water	Aqua Hygienic	OXY
9.	CHENAB	Britx Natural Water	Aquamin Plus
10.	Nation	ICE WELL	NEBRASKA
11.	ATLANTIS Water	Al-Ghadeer	BREATHE
12.	Mc Way Water	Pristine One	TOP UP
13.	Dasani	Alkaline Water	Aqua Pure Smart
14.	Ice Land	Afshak	Aqua Splash
15.	CHILTAN Aqua	Refine	Natural Aqwah
16.	JEL	More Plus	Moya Mineral
17.	AquaFina	ICE Drop	Care Life
18.	Nestle	ALPHA	Freshin
19.	NEO	Active One	SIP
20.	Aqua Natural	Blue Life	OPAL
21.	Aqua Royals	Orish	New Classic
22.	Needs	ONE	Royal Pure Life



Sr. No	Consistent Brands	New Brands	Unavailable Brands
23.	Isberg	Hill drops	Culligan
24.	Urban Sip	Clover Smart Water	Vitella
25.	Dazzling Water	HUNZA	Aqua Best
26.	Masafi	Douro	PERSIA Water
27.	Bake Master	Blue Plus	One Pure Drinking Water
28.	Droplet	Seven Stream	Sunlay
29.	MAA JEE	Ripple Water	Aqua King
30.	OSLO	Al-MENA Water	Active Plus
31.	Al-Zaid	Victoria	Elayn Plus
32.	Al-Umer	Hydra	Iceland
33.	Crystal Maya	Sunley	Vey
34.	Aqua Star	Seven Spring	New Buxton
35.	Yes	Klinz	Crystal Spring
36.	Dropice	Pure It	Handsome Pure
37.	UF Pure EDGE	Aqua Fit	SK
38.	AM 2PM	Aqua Health Life	DJOUR
39.	H ₂ O Water Right	Trust Drinking Water	Al-Shalal
40.	Water Plus	Ice Berg	Aqua Sea
41.	Elovina Water	Aasnai Sip	Al-Haider
42.	Calci Dew	Marine Blue	Pak Nest
43.	Springley	Murree Sparkletts	Popular H ₂ OPE
44.	DrinkIt Pure	Verbena	Aqua Gen
45.	Fresh Life	Venora	Besal
46.	Nestol	Aqua Stream	Punjab Water
47.	Aqua Green		Aqua Life
48.	Deosai		Blu Water
49.	Water Empire		Water Mart
50.	Pine'o		Natural Cool
51.	National		Maple Plus
52.	Mountain Spring		
53.	Pure Next		
54.	MARWA Water		
55.	Hyder		
56.	SUJO		
57.	Vividle		
58.	Himalaya		
59.	Drinklay		
60.	Cristalene		
61.	Amfahh		
62.	Erie Water		
63.	Jami Water		
64.	Aqua One		
65.	Rahat Water		
66.	Glacial Water		
67.	Pureflo		
68.	Aqua Safe		
69.	Doce Water		
70.	Sufi		
71.	Karakorom Flow		
72.	Gourmet Water		
73.	OPAL+		



DISEASE POTENTIAL FROM CONTAMINATED BOTTLED WATER

Sr. No	Contaminant	Diseases Impacts
1.	Bacteriological Contamination	Cholera, Diarrhea, Dysentery, Hepatitis, Typhoid
2.	Arsenic	Keratoses, Skin cancer
3.	Sodium	Hypertension
4.	pH	Acidity due to low pH

CONCLUSIONS

Sr. No	Item	Conclusion	
		No.	% age
1.	Total No. of Brands Collected	119	-
2.	Overall Safe Brands	106	89
3.	No. of Overall Unsafe Brands	13	11
4.	No. of Chemically Safe Brands	110	92
5.	No. of Chemically Unsafe Brands	09	08
6.	No. of Microbiologically Safe Brands	115	97
7.	No. of Microbiologically Unsafe Brands	04	03
8.	No. of Consistent Brands in Market	73	61
9.	No. of Brands Disappeared/Unavailable	51	43
10.	No. of New Brands	46	39

Detailed water quality status of each bottled water brand is available at **Annexure-1**

PCRWR QUARTERLY REPORT-BOTTLED WATER QUALITY



Annexure-1

Chemical and Microbiological Quality of Bottled/Mineral Water Brands

Brand Name	Brand Code	Turbidity	pH	EC	TDS	Ca	Mg	Hard	HCO ₃	Cl	Na	F	Fe	K	NO ₃	SO ₄	As	Microbiological Contaminants	
PSQCA Bottled Water Standards	-	0.5	6.5 - 8.5	NGVS	500	100	50	NGVS	NGVS	250	50	0.7	0.3	10	10	250	10	Total Coli forms 0/100ml	E-Coli 0/100ml
Detection Limits	-	0.2	0.02	0.287	-	2	1	5	5	2	1	0.03	0.03	0.2	0.06	0.4	0.1	-	-
Units	-	NTU		µS/cm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	MPN /100ml	MPN /100ml
MASKOOB	BWB-01	BDL	7.62	570	314	40	12	150	230	10	64	0.34	BDL	4.7	0.20	51	27	Negative	Negative
Vital	BWB-02	BDL	7.03	340	187	20	9	85	65	60	45	0.06	BDL	1.1	BDL	28	3.3	Negative	Negative
Alpine Pure	BWB-03	BDL	6.63	311	177	40	12	150	40	55	7	0.12	BDL	0.9	BDL	40	0.9	Negative	Negative
Alfalab	BWB-04	BDL	6.88	373	205	40	12	150	50	70	15	0.14	BDL	0.9	BDL	41	3.1	Negative	Negative
FAIHA	BWB-05	BDL	7.05	347	191	40	10	140	80	46	20	0.13	BDL	0.8	BDL	31	5.4	Negative	Negative
Al-Safa	BWB-06	BDL	7.38	430	237	52	10	170	100	62	14	0.10	BDL	2.6	0.20	19	14	Negative	Negative
Himalaya Cool	BWB-07	BDL	7.00	278	153	28	2	80	60	26	28	0.20	BDL	2.5	BDL	35	0.4	Negative	Negative
Aqua SWAG	BWB-08	BDL	6.19	248	136	20	11	95	30	54	13	0.18	BDL	0.8	BDL	20	0.7	Negative	Negative
Oriel	BWB-09	BDL	7.03	230	127	20	5	70	60	28	20	0.14	BDL	1.6	0.06	17	BDL	Negative	Negative
NESTOL	BWB-10	BDL	7.53	330	182	40	10	140	120	16	12	0.20	BDL	1.7	2	24	0.4	Negative	Negative
Springley	BWB-11	BDL	7.56	519	286	68	12	220	220	18	23	0.26	BDL	1.9	3.7	23	BDL	Negative	Negative
Pure Nature	BWB-12	BDL	7.52	360	198	28	7	100	120	24	34	0.22	BDL	2.2	0.08	26	29	Negative	Negative
Fresco Healthy Water	BWB-13	BDL	6.58	200	110	12	0	30	20	40	32	0.07	BDL	1.0	0.10	25	BDL	Negative	Negative
Super Natural	BWB-14	BDL	6.93	300	165	12	5	50	50	36	41	0.16	BDL	2.3	1	39	1.7	Negative	Negative
CHENAB	BWB-15	BDL	6.5	425	234	40	10	140	40	90	27	0.10	BDL	1.2	2.56	34	BDL	Negative	Negative
New Nation	BWB-16	BDL	7.20	360	198	40	6	125	90	48	30	0.20	BDL	0.7	BDL	34	4.2	Negative	Negative
ATLANTIS Water	BWB-17	BDL	6.82	302	166	20	12	100	40	65	24	BDL	BDL	1.2	0.38	21	BDL	Negative	Negative
McWay Water	BWB-18	BDL	6.84	342	188	40	7	130	50	72	19	BDL	BDL	0.7	0.60	25	1.2	06	Negative
Aqua Soft	BWB-19	BDL	7.72	586	322	60	19	230	160	40	43	1.70	BDL	1.9	1.46	51	BDL	Negative	Negative
Aqua Hygienic	BWB-20	BDL	6.95	321	177	40	2	70	30	70	10	0.16	BDL	0.6	BDL	33	1.1	Negative	Negative
Dasani	BWB-21	BDL	6.58	188	104	24	2	70	20	10	4	0.08	BDL	0.7	BDL	51	BDL	Negative	Negative
Ice Land	BWB-22	BDL	6.77	201	111	24	7	90	25	40	14	0.15	BDL	0.5	BDL	26	0.6	Negative	Negative
JEL	BWB-23	BDL	6.72	536	295	40	17	70	30	120	50	0.06	BDL	1.2	1.84	25	BDL	Negative	Negative
AquaFina	BWB-24	BDL	6.68	230	127	16	0	40	40	28	18	0.05	BDL	1.5	BDL	39	0.6	Negative	Negative

PCRWR QUARTERLY REPORT-BOTTLED WATER QUALITY



Brand Name	Brand Code	Turbidity	pH	EC	TDS	Ca	Mg	Hard	HCO ₃	Cl	Na	F	Fe	K	NO ₃	SO ₄	As	Microbiological Contaminants	
PSQCA Bottled Water Standards	-	0.5	6.5 - 8.5	NGVS	500	100	50	NGVS	NGVS	250	50	0.7	0.3	10	10	250	10	Total Coli forms 0/100ml	E-Coli 0/100ml
Detection Limits	-	0.2	0.02	0.287	-	2	1	5	5	2	1	0.03	0.03	0.2	0.06	0.4	0.1	-	-
Nestle	BWB-25	BDL	7.16	442	243	64	7	190	50	96	13	0.04	BDL	0.5	BDL	32	BDL	Negative	Negative
CHILTAN Aqua	BWB-26	BDL	6.5	368	203	40	12	150	40	96	10	BDL	BDL	1.2	BDL	BDL	BDL	Negative	Negative
NEO	BWB-27	BDL	6.80	275	151	28	7	100	50	30	23	BDL	BDL	0.7	2.08	27	BDL	Negative	Negative
Aqua Natural	BWB-28	BDL	7.23	350	193	44	2	120	160	10	15	0.16	BDL	3.9	BDL	6	1.3	Negative	Negative
Aqua Royals	BWB-29	BDL	6.5	422	232	60	7	180	30	104	6	0.04	BDL	0.9	0.04	BDL	1.1	Negative	Negative
Needs	BWB-30	BDL	7.22	289	159	20	22	140	80	30	23	0.10	BDL	1.2	0.10	31	3.5	Negative	Negative
Isberg	BWB-31	BDL	7.35	335	184	40	7	130	90	60	23	BDL	BDL	1.3	BDL	6	3.6	Negative	Negative
Urban Sip	BWB-32	BDL	6.90	277	152	20	10	90	50	28	16	0.05	BDL	0.9	BDL	28	0.7	Negative	Negative
Britx Natural Water	BWB-33	BDL	6.55	253	139	28	2	80	20	70	5	0.06	BDL	0.6	BDL	20	BDL	Negative	Negative
Dazzling Water	BWB-34	BDL	7.05	426	234	40	22	190	90	75	28	0.07	BDL	1.2	1.60	27	0.2	Negative	Negative
Masafi	BWB-35	BDL	7.08	426	234	20	32	180	70	96	18	BDL	BDL	0.6	BDL	17	BDL	Negative	Negative
Bake Master	BWB-36	BDL	7.05	156	86	16	2	50	50	24	8	0.06	BDL	1.2	BDL	22	1.5	Negative	Negative
ICE WELL	BWB-37	BDL	6.76	288	158	36	10	130	30	60	5	0.07	BDL	0.9	BDL	29	1.0	Negative	Negative
Droplet	BWB-38	BDL	6.98	610	336	48	19	200	70	48	41	0.38	BDL	3.7	3.2	140	0.6	Negative	Negative
MAA JEE	BWB-39	BDL	6.55	325	179	28	10	110	30	65	18	0.14	BDL	2.9	3.5	35	BDL	Negative	Negative
Al-Ghadeer	BWB-40	BDL	6.5	293	161	28	12	120	30	75	13	BDL	BDL	1.5	1.1	15	0.2	Negative	Negative
Pristine One	BWB-41	BDL	6.5	485	267	60	41	210	50	114	14	0.12	BDL	0.9	0.2	34	BDL	02	Negative
Alkaline Water	BWB-42	BDL	6.5	189	103	BDL	1	45	20	40	21	0.06	BDL	4.2	2.5	9	0.6	08	Negative
OSLO	BWB-43	BDL	6.95	341	188	20	19	80	50	55	36	0.12	BDL	3.4	0.8	31	BDL	Negative	Negative
Al-Zaid	BWB-44	BDL	6.99	502	276	20	30	175	40	48	34	0.32	BDL	3.4	3.2	144	0.4	Negative	Negative
Afshak	BWB-45	BDL	6.5	273	150	36	7	130	40	72	9	0.05	BDL	0.8	BDL	9	0.6	Negative	Negative
Refine	BWB-46	BDL	6.5	425	234	32	10	130	60	75	41	0.05	BDL	1.9	1.2	39	0.5	Negative	Negative
More Plus	BWB-47	BDL	6.18	337	185	32	15	140	40	70	19	0.07	BDL	0.9	0.2	30	BDL	Negative	Negative
ICE Drop	BWB-48	BDL	7.06	457	251	28	15	140	80	75	38	0.16	BDL	1.9	2.1	31	0.4	Negative	Negative
ALPHA	BWB-49	BDL	6.70	255	140	16	0	70	40	48	28	0.18	BDL	0.9	0.6	24	BDL	Negative	Negative
Active One	BWB-50	BDL	6.5	120	66	BDL	7	30	30	36	14	0.04	BDL	2.1	1.3	10	BDL	Negative	Negative
Blue Life	BWB-51	BDL	6.5	600	330	20	19	80	50	120	96	0.23	BDL	1.1	5	32	BDL	Negative	Negative
Orish	BWB-52	BDL	6.65	404	222	12	15	90	90	50	50	0.09	BDL	0.7	1.6	31	BDL	Negative	Negative
Al-Umer	BWB-53	BDL	6.5	492	271	16	17	110	180	120	50	0.06	BDL	5.6	0.5	14	BDL	Negative	Negative

PCRWR QUARTERLY REPORT-BOTTLED WATER QUALITY



Brand Name	Brand Code	Turbidity	pH	EC	TDS	Ca	Mg	Hard	HCO ₃	Cl	Na	F	Fe	K	NO ₃	SO ₄	As	Microbiological Contaminants	
PSQCA Bottled Water Standards	-	0.5	6.5 - 8.5	NGVS	500	100	50	NGVS	NGVS	250	50	0.7	0.3	10	10	250	10	Total Coli forms 0/100ml	E-Coli 0/100ml
Detection Limits	-	0.2	0.02	0.287	-	2	1	5	5	2	1	0.03	0.03	0.2	0.06	0.4	0.1	-	-
Crystal Maya	BWB-54	BDL	6.55	120	66	8	0	20	20	15	16	0.08	BDL	1.7	1.1	12	BDL	Negative	Negative
Aqua Star	BWB-55	BDL	6.5	325	190	24	15	120	30	96	22	BDL	BDL	1.4	0.2	6	BDL	04	Negative
ONE	BWB-56	BDL	6.48	535	294	4	12	60	75	120	98	0.03	BDL	4.9	0.2	19	BDL	Negative	Negative
Hill drops	BWB-57	BDL	6.92	330	182	16	7	70	50	52	41	0.07	BDL	4.3	6.0	12	BDL	Negative	Negative
Clover Smart Water	BWB-58	BDL	6.92	345	190	28	2	80	60	50	43	0.24	BDL	1.5	4.8	26	BDL	Negative	Negative
Yes	BWB-59	BDL	6.63	298	164	16	10	80	30	60	28	0.05	BDL	0.6	1.4	20	BDL	Negative	Negative
HUNZA	BWB-60	BDL	6.58	363	200	16	5	60	40	75	56	BDL	BDL	1.2	6.2	15	0.5	Negative	Negative
Dropice	BWB-61	BDL	6.80	700	385	20	22	120	120	140	100	0.24	BDL	5.0	0.7	57	BDL	Negative	Negative
UF Pure EDGE	BWB-62	BDL	6.68	157	86	BDL	5	20	20	36	28	0.19	BDL	1.0	BDL	15	BDL	Negative	Negative
Douro	BWB-63	BDL	7.12	352	188	28	5	90	60	40	39	0.13	BDL	1.6	3.6	37	BDL	Negative	Negative
AM 2 PM	BWB-64	BDL	6.28	252	139	20	7	80	50	48	23	BDL	BDL	2.2	0.2	15	BDL	Negative	Negative
H ₂ O Water Right	BWB-65	BDL	7.02	353	194	20	6	75	50	55	46	0.25	BDL	1.9	5.4	24	BDL	Negative	Negative
Water Plus	BWB-66	BDL	6.63	414	228	20	5	70	30	96	50	BDL	BDL	0.8	0.9	19	BDL	Negative	Negative
Blue Plus	BWB-67	BDL	6.5	559	308	28	7	100	80	114	80	BDL	BDL	4.6	8.6	28	BDL	Negative	Negative
Elovina Water	BWB-68	BDL	6.80	281	155	40	2	110	70	36	14	BDL	BDL	0.9	1.3	12	BDL	Negative	Negative
Seven Stream	BWB-69	BDL	7.06	360	198	52	5	150	130	24	19	0.04	BDL	1.2	3.2	14	BDL	Negative	Negative
Calci Dew	BWB-70	BDL	6.82	270	149	40	5	120	70	40	13	BDL	BDL	0.9	1.4	11	BDL	Negative	Negative
Springley	BWB-71	BDL	7.35	493	271	60	12	200	210	20	24	BDL	BDL	1.9	3.4	18	BDL	Negative	Negative
DrinkIt Pure	BWB-72	BDL	6.76	440	242	52	2	140	100	65	39	BDL	BDL	1.6	1.1	26	BDL	Negative	Negative
Fresh Life	BWB-73	BDL	7.00	424	233	60	7	180	170	14	16	0.05	BDL	2.1	1.7	20	BDL	Negative	Negative
Nestol	BWB-74	BDL	7.32	358	197	56	2	150	120	28	13	0.06	BDL	1.6	1.5	19	BDL	Negative	Negative
Ripple Water	BWB-75	BDL	7.22	422	232	60	10	190	100	60	21	0.03	BDL	1.7	1.0	24	BDL	Negative	Negative
AI-MENA Water	BWB-76	BDL	6.52	361	199	40	12	150	55	80	22	BDL	BDL	0.6	0.2	25	BDL	Negative	Negative
Aqua Green	BWB-77	BDL	6.72	325	178	40	7	130	80	45	34	BDL	BDL	0.6	1.9	28	BDL	Negative	Negative
Deosai	BWB-78	BDL	6.85	446	245	56	2	150	80	72	39	BDL	BDL	1.6	5.1	28	BDL	Negative	Negative
Water Empire	BWB-79	BDL	7.18	344	189	40	0	100	90	36	25	BDL	BDL	1.0	1.2	27	BDL	Negative	Negative
Victoria	BWB-80	BDL	7.67	625	344	80	19	280	250	40	37	0.44	BDL	6.9	BDL	26	3.5	Negative	Negative

PCRWR QUARTERLY REPORT-BOTTLED WATER QUALITY



Brand Name	Brand Code	Turbidity	pH	EC	TDS	Ca	Mg	Hard	HCO ₃	Cl	Na	F	Fe	K	NO ₃	SO ₄	As	Microbiological Contaminants	
PSQCA Bottled Water Standards	-	0.5	6.5 - 8.5	NGVS	500	100	50	NGVS	NGVS	250	50	0.7	0.3	10	10	250	10	Total Coli forms 0/100ml	E-Coli 0/100ml
Detection Limits	-	0.2	0.02	0.287	-	2	1	5	5	2	1	0.03	0.03	0.2	0.06	0.4	0.1	-	-
Pine'o	BWB-81	BDL	7.32	439	242	56	2	150	80	80	48	0.08	BDL	1.9	BDL	26	1.3	Negative	Negative
National	BWB-82	BDL	7.18	349	192	32	10	120	50	70	30	0.04	BDL	0.8	0.7	21	0.4	Negative	Negative
Mountain Spring	BWB-83	BDL	7.17	369	202	48	5	140	150	16	14	0.44	BDL	1.2	2.1	15	BDL	Negative	Negative
Pure Next	BWB-84	BDL	6.92	374	206	28	22	160	60	65	32	BDL	BDL	0.5	BDL	30	BDL	Negative	Negative
MARWA Water	BWB-85	BDL	6.68	398	219	40	7	130	70	72	19	BDL	BDL	0.6	BDL	26	BDL	Negative	Negative
Hyder	BWB-86	BDL	6.60	378	208	48	2	130	70	60	25	BDL	BDL	0.8	1.3	30	BDL	Negative	Negative
Hydra	BWB-87	BDL	7.02	469	258	60	12	200	210	16	25	BDL	BDL	1.5	1.5	17	BDL	Negative	Negative
Sunley	BWB-88	BDL	7.01	475	261	60	12	200	170	45	25	BDL	BDL	1.4	1.5	19	BDL	Negative	Negative
SUJO	BWB-89	BDL	7.08	464	255	40	22	190	90	82	22	0.06	BDL	1.3	0.3	29	BDL	Negative	Negative
Vividle	BWB-90	BDL	7.05	462	254	40	19	180	70	82	20	0.07	BDL	1.3	0.3	29	BDL	Negative	Negative
Himalaya	BWB-91	BDL	7.26	424	233	40	17	170	80	72	23	BDL	BDL	0.7	0.1	30	BDL	Negative	Negative
Seven Spring	BWB-92	BDL	7.02	248	136	40	2	110	50	18	5	0.08	BDL	2.9	0.4	39	BDL	Negative	Negative
Aqua One	BWB-93	BDL	7.60	308	174	32	12	130	30	62	12	0.03	BDL	BDL	BDL	37	0.9	Negative	Negative
Cristalene	BWB-94	BDL	7.10	259	144	32	5	100	30	62	11	0.01	BDL	BDL	BDL	16	0.8	Negative	Negative
Jami Water	BWB-95	BDL	7.00	378	209	24	12	110	70	48	32	BDL	BDL	BDL	BDL	51	0.9	Negative	Negative
Rahat Water	BWB-96	BDL	7.00	334	186	32	10	120	60	57	19	BDL	BDL	BDL	BDL	32	0.8	Negative	Negative
Erie Water	BWB-97	BDL	6.70	322	178	38	7	125	40	72	14	BDL	BDL	BDL	BDL	23	0.9	Negative	Negative
Klinz	BWB-98	BDL	7.00	529	322	46	16	180	70	134	44	BDL	BDL	BDL	0.03	40	2.6	Negative	Negative
Glacial Water	BWB-99	BDL	7.20	288	159	32	7	110	40	62	13	BDL	BDL	BDL	0.59	18	1.1	Negative	Negative
Pure It	BWB-100	BDL	6.80	363	202	24	7	90	80	48	39	BDL	BDL	0.1	BDL	36	6.1	Negative	Negative
Drinklay	BWB-101	BDL	6.90	337	188	32	10	120	50	57	18	BDL	BDL	BDL	BDL	41	0.9	Negative	Negative
Pureflo	BWB-102	BDL	7.40	372	210	32	7	110	100	57	35	BDL	BDL	0.1	BDL	18	0.9	Negative	Negative
Aqua Fit	BWB-103	BDL	7.20	196	113	18	9	80	40	33	10	BDL	BDL	BDL	BDL	19	0.9	Negative	Negative
Aqua Health Life	BWB-104	BDL	6.90	338	203	14	18	110	80	24	28	BDL	BDL	BDL	BDL	71	0.9	Negative	Negative
Trust Drinking Water	BWB-105	BDL	6.70	292	162	16	13	95	50	36	19	0.02	BDL	BDL	0.87	44	0.9	Negative	Negative
Aqua Safe	BWB-106	BDL	7.50	341	188	18	16	110	80	39	26	BDL	BDL	BDL	BDL	41	5.5	Negative	Negative
Ice Berg	BWB-107	BDL	7.10	322	182	46	1	120	40	88	17	BDL	BDL	BDL	BDL	6	BDL	Negative	Negative
Amfahh	BWB-108	BDL	7.30	242	133	26	6	90	40	53	12	BDL	BDL	BDL	BDL	12	0.8	Negative	Negative

PCRWR QUARTERLY REPORT-BOTTLED WATER QUALITY



Brand Name	Brand Code	Turbidity	pH	EC	TDS	Ca	Mg	Hard	HCO ₃	Cl	Na	F	Fe	K	NO ₃	SO ₄	As	Microbiological Contaminants	
PSQCA Bottled Water Standards	-	0.5	6.5 - 8.5	NGVS	500	100	50	NGVS	NGVS	250	50	0.7	0.3	10	10	250	10	Total Coli forms 0/100ml	E-Coli 0/100ml
Detection Limits	-	0.2	0.02	0.287	-	2	1	5	5	2	1	0.03	0.03	0.2	0.06	0.4	0.1	-	-
Doce Water	BWB-109	BDL	6.80	307	175	38	9	130	20	72	16	BDL	BDL	BDL	BDL	28	0.9	Negative	Negative
Gourmet Water	BWB-110	BDL	7.00	347	192	38	9	130	40	77	19	BDL	BDL	BDL	0.21	25	0.8	Negative	Negative
Aasnai Sip	BWB-111	BDL	7.10	329	186	34	9	120	30	62	17	BDL	BDL	BDL	BDL	46	0.9	Negative	Negative
Sufi	BWB-112	BDL	7.30	348	197	40	9	135	50	67	20	BDL	BDL	BDL	BDL	31	2.7	Negative	Negative
Karakorum Flow	BWB-113	BDL	7.20	267	163	8	17	90	50	19	22	BDL	BDL	BDL	BDL	67	0.8	Negative	Negative
Marine Blue	BWB-114	BDL	7.20	351	194	28	15	130	70	57	18	BDL	BDL	BDL	BDL	34	1.9	Negative	Negative
Murree Sparkletts	BWB-115	BDL	7.90	324	186	36	12	140	150	14	14	BDL	BDL	BDL	2.03	10	0.8	Negative	Negative
Verbena	BWB-116	BDL	7.65	342	196	38	10	140	50	62	18	0.49	BDL	0.8	BDL	21	BDL	Negative	Negative
Venora	BWB-117	BDL	7.82	314	173	20	12	100	40	60	25	BDL	BDL	BDL	2.19	34	BDL	Negative	Negative
Aqua Stream	BWB-118	BDL	7.44	463	255	44	17	180	170	20	23	0.49	BDL	0.8	3.4	21	BDL	Negative	Negative
OPAL+	BWB-119	BDL	6.86	321	177	24	5	80	100	21	41	0.10	BDL	1.7	1.7	35	BDL	Negative	Negative