



QUARTERLY REPORT BOTTLED WATER QUALITY

(April-June, 2020)



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

April-June, 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 April-June, 2020 following is the brief overview of the findings.

Quarterly Monitoring of Bottled/Mineral Water (April-June, 2020)

Item	No.	% age
Total No. of Brands Collected	108	-
Overall Safe Brands	96	89
Overall Unsafe Brands	12	11
Chemically Safe Brands	99	92
Chemically Unsafe Brands	09	08
Microbiologically Safe Brands	106	98
Microbiologically Unsafe Brands	02	2

Name of Targeted Cities (10)	(Tando Jam, Faisalabad, Sialkot, Islamabad, Muzaffarabad, Multan, Karachi, Peshawar, Quetta, Lahore & Gilgit)
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Unsafe Brands	Ziran	21- km Industrial Area Ferozepur Road Lahore
	MM Pure	Burns Road Shahr-e-Liaquat Karachi.
	Blue Spring	Korengi industrial area Karachi.
	Aqua Best	BB-19 Defense view Karachi.
	Blue Plus	Q.N Traders: S.I.T.E Karachi.
	Alpha 7 Star	A product of Alpha Seven Star Contact: 0316 1277218
	YK Pure	Albadar society Badshah khan road Kemari Karachi.
	Hibba	S.I.T.E Karachi. Contact: 03069200186
	Leven Star	Head office B 1 block 20 F B Area Karachi.
	Dista Water	A product of M.Y. Sons Beverages: Gohar House Liaquat Colony Bridge Hyderabad
	DJOUR	Aimanabad Road, Chowk Akbarabad, Sialkot, 51310 Pakistan
	Chenab	Street 1 Nishat Abad, Faisalabad.



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	108	
No. of Cities Targeted(09)	(Tando Jam, Faisalabad, Sialkot, Islamabad, Muzaffarabad, Multan, Karachi, Peshawar, Quetta, Lahore & Gilgit)	
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 April-June, 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
Aquatic Fresh	BWZ-01	Peshawar	11/03/2020	12/2020	0.6 Liter	Collected from manufacturing point	Royal Food Industries: Plot#1-C, Industrial Estate Hayatabad, Peshawar
Oxygenated	BWZ-02	Peshawar	11/03/2020	10/2020	0.6 Liter	Collected from manufacturing point	ZMF beverages Pvt Ltd. Plot no 119 F industrial Estate Hayatabad Peshawar.
Aqua Pura Smart	BWZ-03	Peshawar	11/03/2020	12/2020	0.6 Liter	Collected from manufacturing point	K & S Khawaja & Sons: Plot No.45-A, Industrial Estate Hayatabad Peshawar
Top Up	BWZ-04	Peshawar	11/03/2020	01/2021	0.5 Liter	Collected from manufacturing point	Top Up Industry:Plot#C-3, Industrial Estate Hayatabad Peshawar
AB-e-Khyber	BWZ-05	Peshawar	11/03/2020	12/2020	0.6 Liter	Collected from manufacturing point	Processed and filled at : Plot no 87-88 A Hayatabad small industrial state Peshawar.
Aqua Splash	BWZ -06	Peshawar	11/03/2020	12/2020	1.5 Liter	Collected from manufacturing point	Euro International: 192- A Industrial Estate, Hayatabad, Peshawar
Aqua Green	BWZ-07	Islamabad	12/05/2020	06/2020	1.5 Liter	Collected from manufacturing point	Aqua Green Plot No.372 Japan Road, Naval Encourage Gate No.2, Islamabad.
Deosai	BWZ-08	Islamabad	12/05/2020	12/2020	0.6 Liter	Collected from manufacturing point	3 km Japan Road, Sihala Khurd Sihala, Islamabad.
Water Empire	BWZ-09	Islamabad	12/05/2020	06/2020	0.5 Liter	Collected from manufacturing point	Plot No.156, Japan Road, Islamabad.
Venora	BWZ-10	Islamabad	02/06/2020	06/2020	1.5 Liter	Collected from manufacturing point	Plot No.238, Street No.8, I-9/3, Islamabad.
Fresh Life	BWZ-11	Islamabad	02/06/2020	12/2020	0.5 Liter	Collected from manufacturing point	Main Hall, Khana Dak, Park Area Pindorian, Islamabad.
Dasani	BWZ-12	Quetta	12/05/2020	-	1.5 Liter	Good Look General Store, Jinnah Road, Quetta.	The Coca Cola Company by Coca Cola Beverages Pakistan Ltd. (CCBPL 26 FCC, Syed Maratab Ali road, Gulberg IV, Lahore.
Celeste	BWZ-13	Quetta	12/05/2020	-	1.5 Liter	Rusk & Cake Bakers Jinnah Road, Quetta.	AI -Zahra Beverages Adjacent to TCF school, Lider, Bedian Road Lahore.
AquaFina	BWZ-14	Quetta	12/05/2020	-	1.5 Liter	Pakistan Medical Store Jinnah Road, Quetta.	Purified and filled by Pakistan Beverages Ltd, Survey# 212, Deh Konkar, District Malir Karachi.
Nestle	BWZ-15	Quetta	12/05/2020	-	1.5 Liter	Pakistan Medical Store, Jinnah Road, Quetta.	Bottled by Nestle Pakistan Ltd.308-upper Mall, Lahore. www.nestlepurelife.com/pk
Ziran	BWZ-16	Quetta	12/05/2020	-	1.5 Liter	New Zam Zam Medical & General Store, Quetta.	21- km Industrial Area Ferozepur Road Lahore



Brand Name	PCRWR Code	City	Date of Collection	Date of Expiry	Size	Name & Address of Seller/Shop Keeper	Manufacturer's Address
Iceland	BWZ-17	Quetta	12/05/2020	-	1.5 Liter	New Ahsan Medical Store, Jinnah Road, Quetta.	ICELAND water 02,first floor Gul Plaza Shabaz town phase 1 Quetta.
Springley	BWZ-18	Islamabad	02/06/2020	06/2020	19 Liter	Plot No.1,Muhammadi Town Sohan, Islamabad	Qarshi Industries(Pvt.)Ltd Jam-e-Shirin Boulevard, 15-G Gulberg III Lahore
Nectar	BWZ-19	Islamabad	02/06/2020	12/2020	0.5 Liter	Collected from manufacturing point	Islamabad Expressway Near Paradise Complex Kuri Road Islamabad.
Nestol	BWZ-20	Islamabad	02/06/2020	12/2020	1.5 Liter	Collected from manufacturing point	Khana Dak, Park Area Pindorian, Islamabad
Hydra	BWZ-21	Islamabad	02/06/2020	12/2020	1.5 Liter	Collected from manufacturing point	Bottled by: Pakistan PVC Limited(Food Division) 31-A, Sector Islamabad
Sunley Pure	BWZ-22	Islamabad	02/06/2020	12/2020	1.5 Liter	Collected from manufacturing point	Bottled by: Pakistan PVC Limited(Food Division) 31-A, Sector Islamabad
Water Plus	BWZ-23	Islamabad	02/06/2020	06/2020	0.5 Liter	Collected from manufacturing point	Plot No.235,St.6,1-9/2,Industrial Area, Islamabad.
Aqua Stream	BWZ-24	Islamabad	02/06/2020	06/2020	1.5 Liter	Collected from manufacturing point	Plot#368,St 5,Sector, I-9/3, Islamabad
Sea Pack	BWZ-25	Islamabad	04/06/2020	12/2020	1.5 Liter	Collected from manufacturing point	Sea pack near kiyani plaza Ashraf town Pindorian Islamabad.
Aqua FLO	BWZ-26	Islamabad	04/06/2020	12/2020	1.5 Liter	Collected from manufacturing point	Sea pack near kiyani plaza Ashraf town Pindorian Islamabad.
Maple Plus	BWZ-27	Islamabad	04/06/2020	06/2020	1.5 Liter	Collected from manufacturing point	Maple Plus Purification Plant Plot No.2, Near Khalid Bin Waleed Masjid Federal Area, Sohan Islamabad
Calci Dew	BWZ-28	Islamabad	04/06/2020	06/2020	1.5 Liter	Collected from manufacturing point	Plot No.3, Khasra No.659 Sohan, Near Khalid Bin Waleed Masjid Federal Area, Sohan Islamabad
Elim	BWZ-29	Islamabad	04/06/2020	12/2020	1.5 Liter	Collected from manufacturing point	Plot No.195,St no.2,Sector I-9/3 Islamabad.
Alfalah	BWZ-30	Multan	04/06/2020	12/2020	0.6 Liter	Collected from manufacturing point	Western fort Commercial Area Qasim Bela, Multan Cantt. Wateralfalah@gmail.com
FAIHA	BWZ-31	Multan	04/06/2020	09/2020	0.6 Liter	Collected from manufacturing point	Bottled by Faiha Enterprises Multan green Road kekar wala Sujana Pur Multan Pakistan
City Spring	BWZ-32	Multan	04/06/2020	12/2020	0.6 Liter	Collected from manufacturing point	City Industries: Danawal Town Lahore Road, Vehari.
Alpine Pure	BWZ-33	Multan	04/06/2020	12/2020	0.5 Liter	Collected from manufacturing point	Address: 7-Sanpal Market, Shalimar Colony, Multan 0315-6056111 03330671347
Al-massafi	BWZ-34	Karachi	03/06/2020	-	0.6 Liter	Razia Medical Store, Bhanis Colony 7 ½ Karachi.	Plot no S3-S4 Malir City Karachi.



Brand Name	PCRWR Code	City	Date of Collection	Date of Expiry	Size	Name & Address of Seller/Shop Keeper	Manufacturer's Address
JEL	BWZ-35	Karachi	03/06/2020	12/2020	0.6 Liter	Abrar Fresh Juice Center, Main agra Road, Opposite Asdad Yaseen Hotel Lyari.	Produced by MEGAFINE Industries: Plot no.A-79 Industrial Area Malir, Karachi.
Aqua King	BWZ-36	Karachi	02/06/2020	06/2022	0.6 Liter	Syed Tea General Store, Opposite Civil Hospital Karachi.	Plot no 60, Sec 51 Super highway Karachi.
HF PURE EDGE	BWZ-37	Karachi	03/06/2020	12/2020	0.6 Liter	Quetta Mubarak Hotel Gabool, Chorangi.	A product by UF Enterprises: A 80/A ground Floor Block - 01,Metrovill 3 rd Abul Hasan Isphani Scheme - 33,Gulistan-e-Johar Karachi.
MM Pure Drinking Water	BWZ-38	Karachi	02/06/2020	12/2020	0.6 Liter	Karyana Store, Bempora Near Lea Market, Karachi.	Burns Road shahr-e-liaquat Karachi.
Blue Spring	BWZ-39	Karachi	02/06/2020	-	0.6 Liter	Sattar Medical Store, Bempora Main Street Near, Lea Market, Karachi.	Korengi industrial area Karachi.
Culligan	BWZ-40	Karachi	03/06/2020	02/2021	0.5 Liter	Sohani Sweet Bakery Malir, Karachi.	Bottled By: Culligan Water of Pakistan, Johan (Pvt) Ltd.F-17/A, Hub River Road, S.I.T.E Karachi.
Aqua best	BWZ-41	Karachi	03/06/2020	-	0.5 Liter	Masha Allah Milk Shop Malir Cantt.no.6,Karachi	BB-19 Defense view Karachi.
NEO	BWZ-42	Karachi	02/06/2020	12/2022	0.6 Liter	Kaleem General Store, Near Jamia Masjid Behar Colony Lyari Karachi.	Address: plot No.96, Malir Industrial Area Malir 15, Karachi. E-mail: neovattan@gmail.com
Water Plus	BWZ-43	Karachi	02/06/2020	12/20222	0.6 Liter	Shan Cold Drink Shop Main Gate Jinnah Hospital Karachi.	Bottled by MEGAFINE Industries: Plot no.A-79 Industrial Area Malir, Karachi.
Blue Plus	BWZ-44	Karachi	03/06/2020	12/2020	0.6 Liter	Mari general Store, Masjid Road,Behar Colony Lyari.	Q.N Traders: S.I.T.E Karachi.
Aqua Star	BWZ-45	Karachi	02/06/2020	-	0.5 Liter	Bilal Medical Store Main Gate Govt, General Hospital Lyari.	S.I.T.E Karachi.
VIVA JHEEL	BWZ-46	Karachi	03/06/2020	-	0.6 Liter	Rab Nawaz Bakery and Nimko Shop Cantt.	0300 2239383 Sales@vivafoo.com.pk
ALPHA 7 STAR	BWZ-47	Karachi	02/06/2020	-	0.6 Liter	Feroz Medical Store Shop No.1, PNS Shifa Road Defence Phase II, Karachi.	A product of Alpha Seven Star 0316 1277218
YK Pure	BWZ-48	Karachi	02/06/2020	03/2020	0.6 Liter	Karyana Store, Bempora Near Lea Market, Karachi	Albadar society Badshah khan road kemari Karachi.
Yes	BWZ-49	Karachi	03/06/2020	12/2020	0.6 Liter	Amir General Store Malir Cantt.no.6 Karachi	Mega Fina Industrial Area, Plot No.A-79,Malir Karachi
Sunlay	BWZ-50	Karachi	02/06/2020	06/2022	0.6 Liter	Syed Tea General Store, Opposite Civil Hospital Karachi.	Plot No 60 Sec 51, super highway Karachi.
Hibba	BWZ-51	Karachi	02/06/2020	-	0.6 Liter	AR General Store Hub Chowki Bus Stop Lea Market, Karachi.	S.I.T.E Karachi. 03069200186
LEVEN Silver	BWZ-52	Karachi	02/06/2020	-	0.6 Liter	Café Noor Hub Chowki Bus Stop Lea Market, Karachi.	Head office B 1 block 20 F B Area Karachi.



Brand Name	PCRWR Code	City	Date of Collection	Date of Expiry	Size	Name & Address of Seller/Shop Keeper	Manufacturer's Address
ALPHA	BWZ-53	Karachi	02/06/2020	-	0.6 Liter	Kaleem General Store, Near Jamia Masjid Behar Colony Lyari Karachi.	Qaiser Enterprises: N block B 261, N Nazimabad.
Afshak	BWZ-54	Tando Jam	08/06/2020	12/2020	0.5 Liter	New Murshid Medical/General Store, Qasimabad.	Head office: Jail road Hirabad, Hyderabad
AI-ZAID	BWZ-55	Tando Jam	08/06/2020	12/2020	0.6 Liter	Fateh Medical/General Store, Latifabad No.8	Z.M Enterprises: Berabad Hyderabad.
ICE Drop	BWZ-56	Tando Jam	08/06/2020	01/2021	0.5 Liter	New Murshid Medical/General Store, Qasimabad.	Product of Anabia Enterprises: Norani Basti Ahsanabad Colony, Hyderabad.
New Buxton	BWZ-57	Tando Jam	08/06/2020	12/2020	0.5 Liter	Rehman Medical Store Opp. L.U.H Casualty Hyderabad	Sindh National Industries Hyderabad:
MAA JEE	BWZ-58	Tando Jam	08/06/2020	12/2020	0.6 Liter	Rehman Medical Store Opp. L.U.H Casualty Hyderabad.	TM #484804 Jacob Road, Hyderabad. 0311-2118382
Oslo	BWZ-59	Tando Jam	08/06/2020	12/2020	0.6 Liter	Fateh Medical/General Store, Latifabad No.8	Oslo International, Karachi. 14 Ramzan Chamber Dr Bilmoria Street off: 1.1 Chandigarh Road Karachi.
Dista Water	BWZ-60	Tando Jam	08/06/2020	12/2020	0.6 Liter	Rehman Medical Store Opp. L.U.H Casualty Hyderabad	A product of M.Y. Sons Beverages: Gohar House Liaquat Colony Bridge Hyderabad
Bio	BWZ-61	Tando Jam	08/06/2020	01/2021	0.6 Liter	New Murshid Medical/General Store, Qasimabad.	Pak International Foods & Beverages: F/11 S.I.T.E Hyderabad
Dazzling Water	BWZ-62	Sialkot	03/06/2020	02/2021	0.6 Liter	Collected from manufacturing point	IR water Company Sialkot. lrwc2008@yahoo.com
Ice Well	BWZ-63	Sialkot	03/06/2020	05/2021	0.6 Liter	Tariq tea Stall Lari Adda Sialkot.	Bottled by: Quaint Beverages Industries Near G.T Road Mor Sambrial Sialkot
Masafi	BWZ-64	Sialkot	03/06/2020	03/2021	0.5 Liter	Collected from manufacturing point	Masafi Pure enterprises Eminabad Road, Sialkot.
Aqua Natural	BWZ-65	Sialkot	03/06/2020	05/2021	0.6 Liter	Bismillah Faisal Karyana Store, Shop Shahab Pura Road, Chowk Sialkot.	Aqua natural khan baba petroleum Gujranwala road Daska.
OASIS	BWZ-66	Sialkot	03/06/2020	02/2021	0.6 Liter	Rayan Karyana Store Khadim Ali Road, Sialkot	www.oasisplus.com.pk
Needs	BWZ-67	Sialkot	03/06/2020	01/2020	0.5 Liter	Bismillah Shani Pan Shop Shahab Pura Road, Chowk Sialkot.	03348125752 Sambrial Sialkot.
Aqua Sea	BWZ-68	Sialkot	03/06/2020	05/2021	0.5 Liter	Sunny Cold Corner Lari Adda Sialkot.	Product of K&S (Pvt) Ltd. A-22847 Jammu Road Sialkot.
Isberg	BWZ-69	Sialkot	03/06/2020	-	0.6 Liter	Collected from manufacturing point	Premier Water Refining Company: Wazirabad Road, Noul Morr 2 km Roras Road West, Dhabba Sialkot.
Sialko Pure Drinking Water	BWZ-70	Sialkot	03/06/2020	05/2021	0.6 Liter	Collected from manufacturing point	Said Pur Road Chak Putlian Sialkot. Ntfawoodworks2016@gmail.com 0322-6763946
Bake Master	BWZ-71	Sialkot	03/06/2020	11/2021	0.5 Liter	Bake Master Bakery Shahab Pura Road, Sialkot	Processed and Bottled by: Bake Master Food & Beverages Marala Road New Abadi Muradpur Sialkot.



Brand Name	PCRWR Code	City	Date of Collection	Date of Expiry	Size	Name & Address of Seller/Shop Keeper	Manufacturer's Address
DJOUR	BWZ-72	Sialkot	03/06/2020	01/2021	0.6 Liter	Collected from manufacturing point	Aimanabad Road, Chowk Akbarabad, Sialkot, 51310 Pakistan
Himalaya's Spring	BWZ-73	Sialkot	03/06/2020	05/2021	1.5 Liter	Collected from manufacturing point	Himalayas.spring@gmail.com Trade Mark(REGD)
Aqua Royals	BWZ-74	Sialkot	05/06/2020	12/2020	1.5 Liter	Collected from manufacturing point	0321-6668883 aquaroyals@gmail.com
Murree Sparkletts	BWZ-75	Faisalabad	10/06/2020	-	0.5 Liter	Ali Pan Shop Makuwana Chowk Faisalabad.	A division of Murree brewery Co. Ltd). Plot No. 102 phase III industrial estate Hattar.
ATLANTIS	BWZ-76	Faisalabad	10/06/2020	01/2021	0.5 Liter	Gull Muhammad Pan Shop G.T.S Faisalabad.	Plot no 57, Street no 17 Dastageer colony west canal road Faisalabad.
Nation	BWZ-77	Faisalabad	09/06/2020	05/2021	0.6 Liter	Ali Pan Shop Makuwana Chowk Faisalabad.	9-km G.T Road Rachna Road Feroz Wala.
Super Natural	BWZ-78	Faisalabad	10/06/2020	05/2021	0.5 Liter	Sheikh Pan Shop G.T.S Chowk Faisalabad.	WELL-O(Pvt)Ltd P-958 St 12 M. Abad Satiana Road, Faisalabad info@well-o.com
CHENAB	BWZ-79	Faisalabad	09/06/2020	01/2021	0.6 Liter	Bismillah Pan Shop G.T.S Faisalabad.	Street 1 Nishat Abad, Faisalabad.
McWAY	BWZ-80	Faisalabad	09/06/2020	04/2021	0.5 Liter	Malik Pan Shop G.T.S Chowk Faisalabad.	A product of Mcway water services bottled and source at near shell pump Yassin Pura St #2 Main Styana Road Faisalabad.
Best Natural	BWZ-81	Faisalabad	09/06/2020	05/2021	0.5 Liter	Usman Tea Stall G.T.S Chowk Faisalabad.	9-km G.T Road Rachna Road Feroz wala Shiekhpura.
ALL PURE	BWZ-82	Faisalabad	10/06/2020	05/2021	0.5 Liter	Waseem Pan Shop G.T.S Faisalabad.	4A B- block Pak Arab housing Society Ferozepur Road Lahore Pakistan.
IMMA	BWZ-83	Muzaffarabad	16/05/2020	12/2020	0.5 Liter	Collected from manufacturing point	Ward no.20 Chela Baandi, Near PSO Petrol Pump Muzaffarabad. 0303-0486257 0345-1554306
Soft Water	BWZ-84	Muzaffarabad	16/05/2020	12/2020	0.5 Liter	Collected from manufacturing point	Office Address: Soft Drinking Bottled Water Pvt Ltd. Kazmi Market Bypass Road Gojra, Muzaffarabad, Azad Kashmir.
Stream	BWZ-85	Peshawar	15/06/2020	12/2020	0.6 Liter	Collected from manufacturing point	KAT Industries Industrial Estate Hayatabad Peshawar.
Cristalene	BWZ-86	Lahore	10/06/2020	-	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.cristalene.com
Aqua One	BWZ-87	Lahore	10/06/2020	05/2021	1.5 Liter	Collected from manufacturing point	Aqua One Filtration (Pvt) Ltd. 30-A, Niaz Town Main Boulevard (Near Valencia Town) Lahore. www.aquaonefiltration.com
Jami Water	BWZ-88	Lahore	10/06/2020	-	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



Brand Name	PCRWR Code	City	Date of Collection	Date of Expiry	Size	Name & Address of Seller/Shop Keeper	Manufacturer's Address
Rahat	BWZ-89	Lahore	10/06/2020	-	1.5 Liter	Rahat Bakery, WAPDA Town, 0334-1789993	Rahat Bakers & Departmental Stores, Rahat Market, Aziz Bhatti Shaheed Road, Lahore Cantt.
Erie Water	BWZ-90	Lahore	10/06/2020	04/2021	1.5 Liter	Collected from manufacturing point	A Project of Sagacious (Pvt) Ltd.99-CII, PGECHS Lahore. www.erie.pk
Drinklay	BWZ-91	Lahore	10/06/2020		1.5 Liter	Collected from manufacturing point	Bottled by :Drinklay Water 843-F,Jubilee Town Lahore drinklaywater@gmail.com
Glacial Water	BWZ-92	Lahore	11/06/2020		1.5 Liter	Collected from manufacturing point	358-E, Johar Town, Lahore www.glacial.pk 0342- 4522425
Nestle	BWZ-93	Lahore	11/06/2020	01/2021	0.6 Liter	Anchor Super Store, 042-35853114	Bottled By Nestle Pakistan Ltd. 308-Upper Mall, Lahore
Aqua Fina	BWZ-94	Lahore	11/06/2020	-	0.5 Liter	Anchor Super Store, 042-35853114	Purified & Filled Riaz Bottles (Pvt)Ltd.32- N ,Gulberg II Lahore Under appointment from PepsiCo
Sufi	BWZ-95	Lahore	11/06/2020	12/2020	0.5 Liter	131- C Block Model Town, 0307-0397903	Processed and Bottled by: Hadayat Food Stuffs Industries (Pvt) Ltd.1-B, Garden Block, Garden Town Lahore
Gourmet Water	BWZ-96	Lahore	11/06/2020	-	19 Liter	180- Bank Squar Gourmet Bakery, 0300-4788512	Gourmet Foods: Gate # 1, Plot 1-5, Sunder Industrial Estate, Raiwind Sunder Road, Lahore, Pakistan
Klinz	BWZ-97	Lahore	16/06/2020	-	1.5 Liter	Collected from manufacturing point	Plot#10-A, Punjab Small Industrial Estate Kacha Jail Road Kot Lakhpat Lahore www.klinzfood.com
Besal	BWZ-98	Lahore	16/06/2020	-	0.5 Liter	Kachi Kothi Man, Road, Raiwind road, 0301-9783298	363-K Johar Town, Lahore
Dasani	BWZ-99	Lahore	16/06/2020	-	0.5 Liter	Butt Bakery, Near Thokar Niaz Baig Raiwind Road, Lahore, 0335-4005812	The Coca Cola Company by Coca Cola Beverages Pakistan Ltd. (CCBPL 26 FCC, Syed Maratab Ali road, Gulberg IV, Lahore.
Aqua Safe	BWZ-100	Lahore	16/06/2020	01/2021	0.5 Liter	Butt Bakery, Near Thokar Niaz Baig Raiwind Road, Lahore, 0335-4005812	Bottled by Aqua Safe Pakistan:96-McLeod Road, Lahore aquasafewater@gmail.com
Springs Water	BWZ-101	Lahore	16/06/2020	-	19 Liter	Cake & Bakes Thokar Niaz Baig Main Raiwind Road, Lahore 0317-8885293	Panjgraan 20-Km Multan Road, Lahore
Minto	BWZ-102	Lahore	16/06/2020	-	0.5 Liter	A.B Duck Shop, Thokar By pass Abdullah, Adda, 0345-4072690	Adda Mahal, Jatti Umra, Lahore
Aqua Gen	BWZ-103	Lahore	16/06/2020	04/2021	0.5 Liter	A.B Duck Shop, Thokar By pass Abdullah, Adda, 0345-4072690	36-Civic Center, Liqueate Chowk, Sabzazar Lahore
Doce Water	BWZ-104	Lahore	16/06/2020	-	0.5 Liter	Doce Water, 7 R3, Johar Town Near Shokat Khanam 0315-4007052	48-M, Quaid-e-Azam Industrial State, Kot Lakhpat, Lahore www.doce.pk



Brand Name	PCRWR Code	City	Date of Collection	Date of Expiry	Size	Name & Address of Seller/Shop Keeper	Manufacturer's Address
Himalaya	BWZ-105	Gilgit	30/06/2020	05/2021	1.5 Liter	Sultan bakers Micro Finance Bank Chowk Danyore Gilgit	A Product of Ali Foods & Beverages: Main KKH Juglood Guro Gilgit, Pakistan Alifoodsandbeverages@gmail.com
Vividle	BWZ-106	Gilgit	30/06/2020	05/2021	1.5 Liter	Sultan bakers Micro Finance Bank Chowk Danyore Gilgit	Bottled by Vividle Private Limited: Near Old China Bridge, Danyore Gilgit www.vividle.com
Seven Spring	BWZ-107	Gilgit	30/06/2020	06/2021	1.5 Liter	Sorgan Bakers Main Danyore Chowk.	A Product Of AL-Kosar foods GB, Pakistan. 7springsgb@gmail.com
SUJO	BWZ-108	Gilgit	30/06/2020	05/2021	1.5 Liter	Sultan bakers Micro Finance Bank Chowk Danyore Gilgit	A Product of Sujo Punar: Salar Road, Jutial Gilgit. www.sujopunar.com

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

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.	Ziran	BWZ- 16	Lahore	ppm	70
2.	MM Pure	BWZ- 38	Karachi	ppm	106
3.	Blue Spring	BWZ- 39	Karachi	ppm	114
4.	Aqua Best	BWZ- 41	Karachi	ppm	76
5.	Blue Plus	BWZ- 44	Karachi	ppm	92
6.	Alpha 7 Star	BWZ- 47	Karachi	ppm	72
7.	YK Pure	BWZ- 48	Karachi	ppm	68
8.	Hibba	BWZ- 51	Karachi	ppm	62
9.	Leven Star	BWZ- 52	Karachi	ppm	66

TDS : Safe Limit : 500 parts per million (ppm)					
Sr. No	Brand Name	Code	City of Manufacturing	Unit	Results
1.	MM Pure	BWZ- 38	Karachi	ppm	514
2.	Blue Spring	BWZ- 39	Karachi	ppm	503

pH : Safe Limit : 6.5-8.5					
Sr. No	Brand Name	Code	City of Manufacturing	Unit	Results
3.	Chenab	BWZ-79	Faisalabad	-	6.15

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.	Dista Water	BWZ-60	Hyderabad	4	Nil
2.	DJOUR	BWZ-72	Sialkot	6	Nil

PCRWR TESTING: SAFE BRANDS

Sr. No	Brand Name	Code	Quality (Safe/Unsafe)	
			Chemical	Microbiological
1.	Aquatic Fresh	BWZ-01	Safe	Safe
2.	Oxygenated	BWZ-02	Safe	Safe
3.	Aqua Pura Smart	BWZ-03	Safe	Safe
4.	Top Up	BWZ-04	Safe	Safe
5.	AB-e-Khyber	BWZ-05	Safe	Safe
6.	Aqua Splash	BWZ -06	Safe	Safe
7.	Aqua Green	BWZ-07	Safe	Safe
8.	Deosai	BWZ-08	Safe	Safe
9.	Water Empire	BWZ-09	Safe	Safe
10.	Venora	BWZ-10	Safe	Safe
11.	Fresh Life	BWZ-11	Safe	Safe
12.	Dasani	BWZ-12	Safe	Safe
13.	Celeste	BWZ-13	Safe	Safe
14.	AquaFina	BWZ-14	Safe	Safe



Sr. No	Brand Name	Code	Quality (Safe/Unsafe)	
			Chemical	Microbiological
15.	Nestle	BWZ-15	Safe	Safe
16.	Iceland	BWZ-17	Safe	Safe
17.	Springley	BWZ-18	Safe	Safe
18.	Nectar	BWZ-19	Safe	Safe
19.	Nestol	BWZ-20	Safe	Safe
20.	Hydra	BWZ-21	Safe	Safe
21.	Sunley Pure	BWZ-22	Safe	Safe
22.	Water Plus	BWZ-23	Safe	Safe
23.	Aqua Stream	BWZ-24	Safe	Safe
24.	Sea Pack	BWZ-25	Safe	Safe
25.	Aqua FLO	BWZ-26	Safe	Safe
26.	Maple Plus	BWZ-27	Safe	Safe
27.	Calci Dew	BWZ-28	Safe	Safe
28.	Elim	BWZ-29	Safe	Safe
29.	Alfalah	BWZ-30	Safe	Safe
30.	FAIHA	BWZ-31	Safe	Safe
31.	City Spring	BWZ-32	Safe	Safe
32.	Alpine Pure	BWZ-33	Safe	Safe
33.	Al-massafi	BWZ-34	Safe	Safe
34.	JEL	BWZ-35	Safe	Safe
35.	Aqua King	BWZ-36	Safe	Safe
36.	HF PURE EDGE	BWZ-37	Safe	Safe
37.	Culligan	BWZ-40	Safe	Safe
38.	NEO	BWZ-42	Safe	Safe
39.	Water Plus	BWZ-43	Safe	Safe
40.	Aqua Star	BWZ-45	Safe	Safe
41.	VIVA JHEEL	BWZ-46	Safe	Safe
42.	Yes	BWZ-49	Safe	Safe
43.	Sunlay	BWZ-50	Safe	Safe
44.	ALPHA	BWZ-53	Safe	Safe
45.	Afshak	BWZ-54	Safe	Safe
46.	AI-ZAID	BWZ-55	Safe	Safe
47.	ICE Drop	BWZ-56	Safe	Safe
48.	New Buxton	BWZ-57	Safe	Safe
49.	MAA JEE	BWZ-58	Safe	Safe
50.	Oslo	BWZ-59	Safe	Safe
51.	Bio	BWZ-61	Safe	Safe
52.	Dazzling Water	BWZ-62	Safe	Safe
53.	Ice Well	BWZ-63	Safe	Safe
54.	Masafi	BWZ-64	Safe	Safe
55.	Aqua Natural	BWZ-65	Safe	Safe
56.	OASIS	BWZ-66	Safe	Safe
57.	Needs	BWZ-67	Safe	Safe
58.	Aqua Sea	BWZ-68	Safe	Safe
59.	Isberg	BWZ-69	Safe	Safe
60.	Sialko Pure Drinking Water	BWZ-70	Safe	Safe
61.	Bake Master	BWZ-71	Safe	Safe
62.	Himalaya's Spring	BWZ-73	Safe	Safe
63.	Aqua Royals	BWZ-74	Safe	Safe
64.	Murree Sparkletts	BWZ-75	Safe	Safe
65.	ATLANTIS	BWZ-76	Safe	Safe
66.	Nation	BWZ-77	Safe	Safe
67.	Super Natural	BWZ-78	Safe	Safe



Sr. No	Brand Name	Code	Quality (Safe/Unsafe)	
			Chemical	Microbiological
68.	McWAY	BWZ-80	Safe	Safe
69.	Best Natural	BWZ-81	Safe	Safe
70.	ALL PURE	BWZ-82	Safe	Safe
71.	IMMA	BWZ-83	Safe	Safe
72.	Soft Water	BWZ-84	Safe	Safe
73.	Stream	BWZ-85	Safe	Safe
74.	Cristalene	BWZ-86	Safe	Safe
75.	Aqua One	BWZ-87	Safe	Safe
76.	Jami Water	BWZ-88	Safe	Safe
77.	Rahat	BWZ-89	Safe	Safe
78.	Erie Water	BWZ-90	Safe	Safe
79.	Drinklay	BWZ-91	Safe	Safe
80.	Glacial Water	BWZ-92	Safe	Safe
81.	Nestle	BWZ-93	Safe	Safe
82.	Aqua Fina	BWZ-94	Safe	Safe
83.	Sufi	BWZ-95	Safe	Safe
84.	Gourmet Water	BWZ-96	Safe	Safe
85.	Klinz	BWZ-97	Safe	Safe
86.	Besal	BWZ-98	Safe	Safe
87.	Dasani	BWZ-99	Safe	Safe
88.	Aqua Safe	BWZ-100	Safe	Safe
89.	Springs Water	BWZ-101	Safe	Safe
90.	Minto	BWZ-102	Safe	Safe
91.	Aqua Gen	BWZ-103	Safe	Safe
92.	Doce Water	BWZ-104	Safe	Safe
93.	Himalaya	BWZ-105	Safe	Safe
94.	Vividle	BWZ-106	Safe	Safe
95.	Seven Spring	BWZ-107	Safe	Safe
96.	SUJO	BWZ-108	Safe	Safe

PCRWR TESTING: UNSAFE BRANDS

Sr. No	Brand Name	Code	Address/Manufacturer	Quality (Safe/Unsafe)	
				Chemical	Microbiological
1.	Ziran	BWZ- 16	21- km Industrial Area Ferozpur Road Lahore	Unsafe	Safe
2.	MM Pure	BWZ- 38	Burns Road shahr-e-liaquat Karachi.	Unsafe	Safe
3.	Blue Spring	BWZ- 39	Korengi industrial area Karachi.	Unsafe	Safe
4.	Aqua Best	BWZ- 41	BB-19 Defense view Karachi.	Unsafe	Safe
5.	Blue Plus	BWZ- 44	Q.N Traders: S.I.T.E Karachi.	Unsafe	Safe
6.	Alpha 7 Star	BWZ- 47	A product of Alpha Seven Star 0316 1277218	Unsafe	Safe
7.	YK Pure	BWZ- 48	Albadar society Badshah khan road Kemari Karachi.	Unsafe	Safe
8.	Hibba	BWZ- 51	S.I.T.E Karachi. 03069200186	Unsafe	Safe
9.	Leven Star	BWZ- 52	Head office B 1 block 20 F B Area Karachi.	Unsafe	Safe
10.	Dista Water	BWZ- 60	A product of M.Y. Sons Beverages: Gohar House Liaquat Colony Bridge Hyderabad	Safe	Unsafe
11.	DJOUR	BWZ- 72	Aimanabad Road, Chowk Akbarabad, Sialkot, 51310 Pakistan	Safe	Unsafe
12.	Chenab	BWZ- 79	Street 1 Nishat Abad, Faisalabad.	Unsafe	Safe



MARKET CONSISTENCY IN TWO NEIGHBORING QUARTERS

Sr. No	Consistent Brands	New Brands	Unavailable Brands
1.	Aqua Green	Aquatic Fresh	Al-Kausar
2.	Deosai	Oxygenated	Best Kashmir
3.	Water Empire	Aqua Pura Smart	Deewan Water
4.	Venora	Top Up	Corny
5.	Fresh Life	AB-e-Khyber	SHUKRAN
6.	Dasani	Aqua Splash	MADIKH
7.	Nestle	Celeste	Vey
8.	Springley	Ziran	Clover Smart Water
9.	Nectar	Iceland	NFS
10.	Hydra	Sea Pack	Nature Aqua
11.	Sunley Pure	Aqua FLO	Blu Water
12.	Water Plus	Al-massafi	Fresco Healthy Water
13.	Aqua Stream	JEL	ECO
14.	Maple Plus	HF PURE EDGE	AQUA STAR
15.	Calci Dew	MM Pure Drinking Water	WATER FALL
16.	Elim	Blue Spring	Aab-E-Sehat
17.	Alfalah	Culligan	The Legend
18.	City Spring	Aqua best	D.Y Fresh & Pure Water
19.	Alpine Pure	Aqua Star	Water Right
20.	Aqua King	VIVA JHEEL	Crystal Maya
21.	NEO	ALPHA 7 STAR	DOURO
22.	Water Plus	YK Pure	Drop ice
23.	Blue Plus	Yes	AQUALUS
24.	Hibba	Sunlay	
25.	ALPHA	LEVEN Silver	
26.	Oslo	AquaFina	
27.	Murree Sparkletts	Nestol	
28.	Nation	FAIHA	
29.	Super Natural	Afshak	
30.	Aqua Royals	Al-ZAID	
31.	ICE WELL	ICE Drop	
32.	Bake Master	New Buxton	
33.	Isberg	MAA JEE	
34.	Aqua Natural	Dista Water	
35.	Sialko Pure Drinking Water	Bio	
36.	Himalaya Spring	Dazzling Water	
37.		Masafi	
38.		OASIS	
39.		Needs	
40.		Aqua Sea	
41.		DJOUR	
42.		ATLANTIS	
43.		Doce Water	
44.		Aqua Gen	
45.		CHENAB	
46.		McWAY	
47.		Best Natural	
48.		ALL PURE	
49.		IMMA	
50.		Soft Water	
51.		Stream	
52.		Cristalene	
53.		Aqua One	
54.		Jami Water	
55.		Rahat	



Sr. No	Consistent Brands	New Brands	Unavailable Brands
56.		Erie Water	
57.		Drinklay	
58.		Glacial Water	
59.		Aqua Fina	
60.		Sufi	
61.		Gourmet Water	
62.		Klinz	
63.		Besal	
64.		Aqua Safe	
65.		Springs Water	
66.		Minto	
67.		Himalaya	
68.		Vividle	
69.		Seven Spring	
70.		SUJO	

DISEASE POTENTIAL FROM CONTAMINATED BOTTLED WATER

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

CONCLUSIONS

Sr. No	Item	Conclusion	
		No.	% age
1.	Total No. of Brands Collected	108	-
2.	Overall Safe Brands	96	89
3.	No. of Overall Unsafe Brands	12	11
4.	No. of Chemically Safe Brands	99	92
5.	No. of Chemically Unsafe Brands	09	08
6.	No. of Microbiologically Safe Brands	106	98
7.	No. of Microbiologically Unsafe Brands	02	2
8.	No. of Consistent Brands in Market	36	34
9.	No. of Brands Disappeared/Unavailable	23	21
10.	No. of New Brands	70	66

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
Aquatic Fresh	BWZ-01	BDL	8.09	436	240	28	27	180	120	48	18	BDL	BDL	1.5	2.18	27	BDL	Negative	Negative
Oxygenated	BWZ-02	BDL	7.90	483	266	32	24	180	96	48	10	BDL	BDL	0.8	3.04	27	BDL	Negative	Negative
Aqua Pura Smart	BWZ-03	BDL	7.12	417	229	44	19	190	60	82	6	BDL	BDL	0.2	0.16	23	BDL	Negative	Negative
Top Up	BWZ-04	BDL	8.15	474	261	28	29	190	140	26	19	0.05	BDL	1.7	4.95	39	0.3	Negative	Negative
AB-e-Khyber	BWZ-05	BDL	8.34	308	169	22	19	130	100	14	13	BDL	BDL	1.1	3.85	28	0.2	Negative	Negative
Aqua Splash	BWZ -06	BDL	7.24	326	179	28	15	130	50	60	15	BDL	BDL	0.7	4.29	15	BDL	Negative	Negative
Aqua Green	BWZ-07	BDL	7.10	316	174	20	12	100	50	48	28	BDL	BDL	0.3	2.18	34	0.2	Negative	Negative
Deosai	BWZ-08	BDL	7.18	481	265	36	12	140	70	72	36	BDL	BDL	0.5	3.56	31	BDL	Negative	Negative
Water Empire	BWZ-09	BDL	7.80	203	112	20	7	80	50	24	11	BDL	BDL	0.5	0.79	17	BDL	Negative	Negative
Venora	BWZ-10	BDL	7.82	314	173	20	12	100	40	60	25	BDL	BDL	BDL	2.19	34	0.3	Negative	Negative
Fresh Life	BWZ-11	BDL	7.48	208	114	22	7	80	50	24	10	BDL	BDL	0.3	0.76	18	BDL	Negative	Negative
Dasani	BWZ-12	BDL	7.16	270	149	BDL	29	120	50	12	7	BDL	BDL	0.3	BDL	65	BDL	Negative	Negative
Celeste	BWZ-13	BDL	6.88	426	234	38	15	160	70	72	23	BDL	BDL	BDL	0.93	35	0.5	Negative	Negative
AquaFina	BWZ-14	BDL	7.05	248	136	BDL	19	80	50	26	19	BDL	BDL	1.0	BDL	32	BDL	Negative	Negative
Nestle	BWZ-15	BDL	7.33	456	251	36	19	170	60	75	17	0.23	BDL	BDL	BDL	36	BDL	Negative	Negative
Ziran	BWZ-16	BDL	7.50	519	285	20	7	80	120	52	70	0.29	BDL	1.1	BDL	38	BDL	Negative	Negative
Iceland	BWZ-17	BDL	7.55	295	162	36	7	120	40	60	17	0.23	BDL	BDL	BDL	29	1	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	-	-
Springley	BWZ-18	BDL	7.52	548	301	52	17	200	190	12	23	BDL	BDL	1.2	3.3	30	BDL	Negative	Negative
Nectar	BWZ-19	BDL	7.74	408	224	40	17	170	90	48	9	0.20	BDL	0.4	2.0	25	BDL	Negative	Negative
Nestol	BWZ-20	BDL	6.76	342	188	36	12	190	50	65	7	0.25	BDL	0.4	0.6	12	BDL	Negative	Negative
Hydra	BWZ-21	BDL	7.40	442	243	40	22	190	180	21	22	0.47	BDL	0.7	1.7	21	BDL	Negative	Negative
Sunley Pure	BWZ-22	BDL	7.51	439	241	20	27	160	150	14	21	0.36	BDL	0.7	1.7	30	BDL	Negative	Negative
Water Plus	BWZ-23	BDL	7.76	443	244	40	19	180	160	16	19	0.32	BDL	0.6	3.1	27	BDL	Negative	Negative
Aqua Stream	BWZ-24	BDL	7.44	463	255	44	17	180	170	20	23	0.49	BDL	0.8	3.4	21	BDL	Negative	Negative
Sea Pack	BWZ-25	BDL	7.20	264	145	16	12	90	75	20	9	0.36	BDL	0.6	0.8	25	BDL	Negative	Negative
Aqua FLO	BWZ-26	BDL	7.24	261	144	16	17	110	85	14	10	0.27	BDL	0.6	0.9	24	BDL	Negative	Negative
Maple Plus	BWZ-27	BDL	7.42	431	237	28	27	180	160	18	17	0.46	BDL	0.7	2.9	20	BDL	Negative	Negative
Calci Dew	BWZ-28	BDL	7.00	347	191	32	15	140	100	36	13	0.36	BDL	0.4	1.1	20	BDL	Negative	Negative
Elim	BWZ-29	BDL	7.10	315	177	20	13	105	65	38	25	0.29	BDL	BDL	2.4	28	BDL	Negative	Negative
Alfalah	BWZ-30	BDL	7.42	381	210	36	19	170	70	60	11	0.29	BDL	0.3	BDL	33	BDL	Negative	Negative
FAIHA	BWZ-31	BDL	7.75	355	195	28	17	140	60	48	18	0.27	BDL	0.3	BDL	34	BDL	Negative	Negative
City Spring	BWZ-32	BDL	7.50	410	226	36	19	170	70	72	17	0.24	BDL	BDL	BDL	35	0.2	Negative	Negative
Alpine Pure	BWZ-33	BDL	7.05	409	170	20	17	120	65	5	16	0.18	BDL	BDL	BDL	20	0.6	Negative	Negative
Al-massafi	BWZ-34	BDL	7.51	326	179	BDL	22	90	50	64	35	0.27	BDL	2.1	2.5	13	0.2	Negative	Negative
JEL	BWZ-35	BDL	7.41	285	157	12	15	90	50	48	25	0.31	BDL	BDL	1.5	20	0.2	Negative	Negative
Aqua King	BWZ-36	BDL	7.85	455	250	16	19	120	110	60	48	0.28	BDL	1.7	0.3	30	0.5	Negative	Negative
HF PURE EDGE	BWZ-37	BDL	7.58	335	184	12	10	70	60	62	44	0.61	BDL	1.9	0.3	19	BDL	Negative	Negative
MM Pure Drinking	BWZ-38	BDL	7.50	935	514	30	38	230	380	38	106	0.38	BDL	4.7	4	19	0.3	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	-	-
Water																			
Blue Spring	BWZ-39	BDL	7.65	914	503	32	29	200	340	55	114	0.34	BDL	6.0	4	20	0.4	Negative	Negative
Culligan	BWZ-40	BDL	7.30	308	169	20	19	130	85	48	8	0.37	BDL	7.7	BDL	BDL	BDL	Negative	Negative
Aqua best	BWZ-41	BDL	6.95	560	308	12	19	110	150	72	76	0.34	BDL	0.6	BDL	20	BDL	Negative	Negative
NEO	BWZ-42	BDL	7.48	246	135	12	10	70	50	35	24	0.22	BDL	BDL	2.8	14	BDL	Negative	Negative
Water Plus	BWZ-43	BDL	7.12	291	160	12	10	70	40	55	32	0.21	BDL	0.3	2.9	18	BDL	Negative	Negative
Blue Plus	BWZ-44	BDL	6.89	768	422	12	34	170	95	168	92	0.33	BDL	5.3	6.5	27	BDL	Negative	Negative
Aqua Star	BWZ-45	BDL	6.56	335	184	28	15	130	55	80	15	0.45	BDL	0.5	0.3	BDL	BDL	Negative	Negative
VIVA JHEEL	BWZ-46	BDL	7.15	396	218	20	19	130	65	72	30	0.30	BDL	1.0	0.2	28	BDL	Negative	Negative
ALPHA 7 STAR	BWZ-47	BDL	7.08	317	174	BDL	0	BDL	40	72	72	0.21	BDL	0.4	0.1	14	BDL	Negative	Negative
YK Pure	BWZ-48	BDL	6.85	492	271	BDL	10	40	20	105	68	0.48	BDL	7.9	3.3	19	BDL	Negative	Negative
Yes	BWZ-49	BDL	7.20	312	172	20	12	100	40	60	27	0.27	BDL	BDL	1.6	25	BDL	Negative	Negative
Sunlay	BWZ-50	BDL	7.25	403	222	12	17	100	85	60	48	0.23	BDL	1.8	0.5	30	BDL	Negative	Negative
Hibba	BWZ-51	BDL	7.42	580	319	28	15	110	90	80	62	0.19	BDL	6.6	2.2	41	BDL	Negative	Negative
LEVEN Silver	BWZ-52	BDL	7.28	449	247	8	15	80	85	65	66	0.24	BDL	1.1	1.7	40	BDL	Negative	Negative
ALPHA	BWZ-53	BDL	7.05	162	89	8	10	60	30	30	9	0.27	BDL	BDL	0.1	10	BDL	Negative	Negative
Afshak	BWZ-54	BDL	7.36	365	201	16	12	90	95	36	38	0.30	BDL	4.5	0.1	34	BDL	Negative	Negative
AI-ZAID	BWZ-55	BDL	7.25	316	174	12	15	90	70	24	29	0.22	BDL	2.3	0.09	54	BDL	Negative	Negative
ICE Drop	BWZ-56	BDL	7.84	518	285	32	15	140	70	72	40	0.31	BDL	1.7	1.6	52	BDL	Negative	Negative

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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	-	-
New Buxton	BWZ-57	BDL	6.45	266	146	20	17	120	50	36	7	0.41	BDL	0.3	0.2	32	BDL	Negative	Negative
MAA JEE	BWZ-58	BDL	6.85	386	212	20	22	140	80	48	25	0.28	BDL	2.9	3.4	34	BDL	Negative	Negative
Oslo	BWZ-59	BDL	7.28	350	193	BDL	24	100	73	48	34	0.16	BDL	3.6	0.8	30	BDL	Negative	Negative
Dista Water	BWZ-60	BDL	7.08	377	207	20	15	110	50	48	34	0.21	BDL	2.7	0.8	60	BDL	04	Negative
Bio	BWZ-61	BDL	7.21	123	68	12	2	40	25	12	10	0.27	BDL	1.4	2.5	17	BDL	Negative	Negative
Dazzling Water	BWZ-62	BDL	6.66	367	202	28	12	120	85	48	27	0.31	BDL	0.7	0.2	25	0.5	Negative	Negative
Ice Well	BWZ-63	BDL	7.03	243	134	20	13	105	65	20	7	0.41	BDL	0.9	1.2	28	0.3	Negative	Negative
Masafi	BWZ-64	BDL	6.73	452	249	48	22	210	90	82	7	0.10	BDL	0.6	BDL	25	0.6	Negative	Negative
Aqua Natural	BWZ-65	BDL	7.52	408	224	36	17	160	200	BDL	19	0.22	BDL	4.4	BDL	BDL	0.5	Negative	Negative
OASIS	BWZ-66	BDL	8.02	545	300	44	22	200	270	BDL	32	BDL	BDL	3.8	BDL	BDL	0.3	Negative	Negative
Needs	BWZ-67	BDL	7.05	394	217	44	15	170	76	72	11	0.51	BDL	0.7	0.2	18	0.6	Negative	Negative
Aqua Sea	BWZ-68	BDL	6.96	159	87	16	5	60	30	24	9	BDL	BDL	0.6	BDL	21	0.7	Negative	Negative
Isberg	BWZ-69	BDL	7.80	370	204	40	2	110	120	48	35	0.37	BDL	1.6	BDL	BDL	BDL	Negative	Negative
Sialko Pure Drinking Water	BWZ-70	BDL	7.85	295	162	28	12	120	130	12	12	0.26	BDL	2.6	BDL	BDL	BDL	Negative	Negative
Bake Master	BWZ-71	BDL	7.55	371	204	25	19	150	105	36	17	0.21	BDL	1.2	BDL	30	0.5	Negative	Negative
DJOUR	BWZ-72	BDL	7.25	303	167	20	15	110	65	36	18	BDL	BDL	0.6	BDL	36	BDL	06	Negative
Himalaya's Spring	BWZ-73	BDL	7.25	271	149	20	10	90	60	30	22	0.21	BDL	0.6	BDL	26	BDL	Negative	Negative

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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	-	-
Aqua Royals	BWZ-74	BDL	6.60	417	229	52	15	190	100	72	6	0.31	BDL	0.6	BDL	6	BDL	Negative	Negative
Murree Sparkletts	BWZ-75	BDL	7.65	387	213	40	12	150	140	10	16	0.16	BDL	1.2	2.2	22	BDL	Negative	Negative
ATLANTIS	BWZ-76	BDL	6.59	319	175	20	15	110	60	50	22	0.21	BDL	0.7	0.3	26	1	Negative	Negative
Nation	BWZ-77	BDL	7.30	419	230	24	12	140	100	48	30	0.41	BDL	BDL	BDL	35	3	Negative	Negative
Super Natural	BWZ-78	BDL	6.40	230	127	BDL	10	40	40	30	34	BDL	BDL	1.3	0.7	31	3	Negative	Negative
CHENAB	BWZ-79	BDL	6.15	485	267	40	19	180	50	82	30	0.10	BDL	9.0	2.2	33	3	Negative	Negative
McWAY	BWZ-80	BDL	6.80	451	248	40	17	170	100	60	27	0.22	BDL	0.6	0.4	39	BDL	Negative	Negative
Best Natural	BWZ-81	BDL	7.50	469	258	28	15	130	175	16	48	BDL	BDL	2.1	BDL	35	2	Negative	Negative
ALL PURE	BWZ-82	BDL	7.40	416	229	40	17	170	80	72	19	0.19	BDL	0.2	BDL	26	3	Negative	Negative
IMMA	BWZ-83	BDL	7.60	348	191	20	19	130	60	52	21	0.03	BDL	BDL	BDL	41	BDL	Negative	Negative
Soft Water	BWZ-84	BDL	7.68	300	165	32	15	140	120	14	8	0.09	BDL	2.7	3.58	29	BDL	Negative	Negative
Stream	BWZ-85	BDL	6.95	360	198	24	19	140	10	16	18	0.26	BDL	1.1	4.3	28	BDL	Negative	Negative
Cristalene	BWZ-86	BDL	6.80	288	166	40	2	110	40	77	18	BDL	BDL	BDL	BDL	5	0.9	Negative	Negative
Aqua One	BWZ-87	0.13	6.70	405	232	40	12	150	60	72	22	BDL	BDL	BDL	BDL	50	0.8	Negative	Negative
Jami Water	BWZ-88	0.16	6.80	371	211	24	10	100	80	58	43	BDL	BDL	BDL	BDL	28	0.8	Negative	Negative
Rahat	BWZ-89	0.11	6.80	334	186	28	10	110	60	53	22	BDL	BDL	BDL	BDL	37	0.8	Negative	Negative
Erie Water	BWZ-90	BDL	6.60	341	192	44	5	130	50	72	20	BDL	BDL	BDL	BDL	21	0.8	Negative	Negative
Drinklay	BWZ-91	BDL	6.70	392	216	42	11	150	40	72	17	BDL	BDL	BDL	BDL	50	0.9	Negative	Negative

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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	-	-
Glacial Water	BWZ-92	0.23	6.80	322	180	34	9	120	50	62	18	BDL	BDL	BDL	0.17	27	0.8	Negative	Negative
Nestle	BWZ-93	0.15	6.80	362	199	46	9	150	40	72	15	BDL	BDL	BDL	BDL	33	0.9	Negative	Negative
Aqua Fina	BWZ-94	BDL	7.00	199	120	2	13	60	10	24	22	BDL	BDL	BDL	BDL	53	0.9	Negative	Negative
Sufi	BWZ-95	BDL	6.80	360	198	38	9	130	40	77	19	BDL	BDL	BDL	BDL	31	0.7	Negative	Negative
Gourmet Water	BWZ-96	0.19	7.10	375	206	44	5	130	60	77	21	BDL	BDL	BDL	BDL	23	1.1	Negative	Negative
Klinz	BWZ-97	0.28	6.80	521	317	52	10	170	100	100	47	BDL	BDL	BDL	BDL	48	0.5	Negative	Negative
Besal	BWZ-98	BDL	7.10	211	128	18	9	80	40	38	16	BDL	BDL	BDL	BDL	23	0.9	Negative	Negative
Dasani	BWZ-99	0.22	7.20	233	146	30	6	100	20	9	10	BDL	BDL	BDL	BDL	79	3.0	Negative	Negative
Aqua Safe	BWZ-100	0.12	7.10	375	213	20	15	110	100	34	39	BDL	BDL	0.7	BDL	45	4.8	Negative	Negative
Springs Water	BWZ-101	0.25	7.10	438	244	16	32	170	50	34	20	BDL	BDL	BDL	BDL	112	0.8	Negative	Negative
Minto	BWZ-102	0.18	7.10	363	198	32	11	125	60	62	21	BDL	BDL	BDL	BDL	36	3.2	Negative	Negative
Aqua Gen	BWZ-103	BDL	6.70	287	168	34	10	125	45	58	18	BDL	BDL	BDL	0.17	21	2.8	Negative	Negative
Doce Water	BWZ-104	0.2	6.80	454	255	36	12	140	90	52	42	BDL	BDL	BDL	BDL	59	0.8	Negative	Negative
Himalaya	BWZ-105	BDL	6.60	166	91	12	12	80	20	24	BDL	0.16	BDL	0.9	BDL	27	BDL	Negative	Negative
Vividle	BWZ-106	BDL	7.30	441	243	40	15	160	100	62	24	0.21	BDL	2.6	0.30	29	BDL	Negative	Negative
Seven Spring	BWZ-107	BDL	7.35	164	90	12	7	60	45	12	8	BDL	BDL	5.4	0.36	20	BDL	Negative	Negative
SUJO	BWZ-108	BDL	7.30	339	241	40	17	170	140	32	21	0.10	BDL	2.1	0.31	30	BDL	Negative	Negative