

JAHORINA 2021 Virtual

UPOTREBA BAZA MJERENJA ZA NADZOR SISTEMA

Miodrag Babić, dipl.inž.građ.

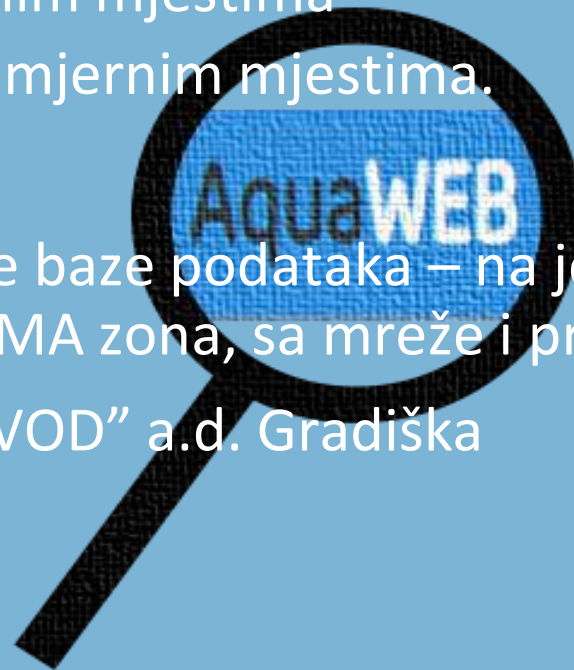
Gradiška, 27.05.2021. godine

Unapređenje baza podataka

- Baze mjerenja se mogu podijeliti na:
 - Mjerenja sa SCADA sistema – pumpne stanice i rezervoari....
 - Mjerenja na stalnim mjernim mjestima
 - Mjerenje na povremenim mjernim mjestima.

Primjer centralizovanja tehničke baze podataka – na jednom mjestu GIS, mjerenje iz SCADA sistema, mjerenje DMA zona, sa mreže i prenosivih mjerača.

Softver AquaWEB – KP “VODOVOD” a.d. Gradiška



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Integracija podataka iz GIS-a u AquaWEB

The screenshot displays the AquaWEB web application interface. On the left, a navigation menu includes options like 'Izveštaji', 'Podešavanja', and 'Upravljanje sistemom'. The main area shows a GIS map of a water network with various components like pipes, pumps, and reservoirs. A magnifying glass highlights the 'AquaWEB' logo on the map. On the right, a login form is visible with fields for 'Adresa elektronske pošte' and 'Lozinka', and a 'PRIJAVA' button. The map shows a network of blue lines representing pipes, with various nodes and structures. Labels on the map include Bistrica, Gornji Varoš, Uskoci, Mačkovac, Greda, Dolina, Orubica, Jalići, Bekovac, Laminc, Lužani, Cerovljani, Berek, Kijevci, and Novi Potok. A legend in the top right corner indicates 'Ulice' (Streets) and 'Satelit' (Satellite) views. The login form also includes a 'Zapamti me' checkbox and a 'Zaboravili ste lozinku' link.

AquaWEB

Adresa elektronske pošte

Lozinka

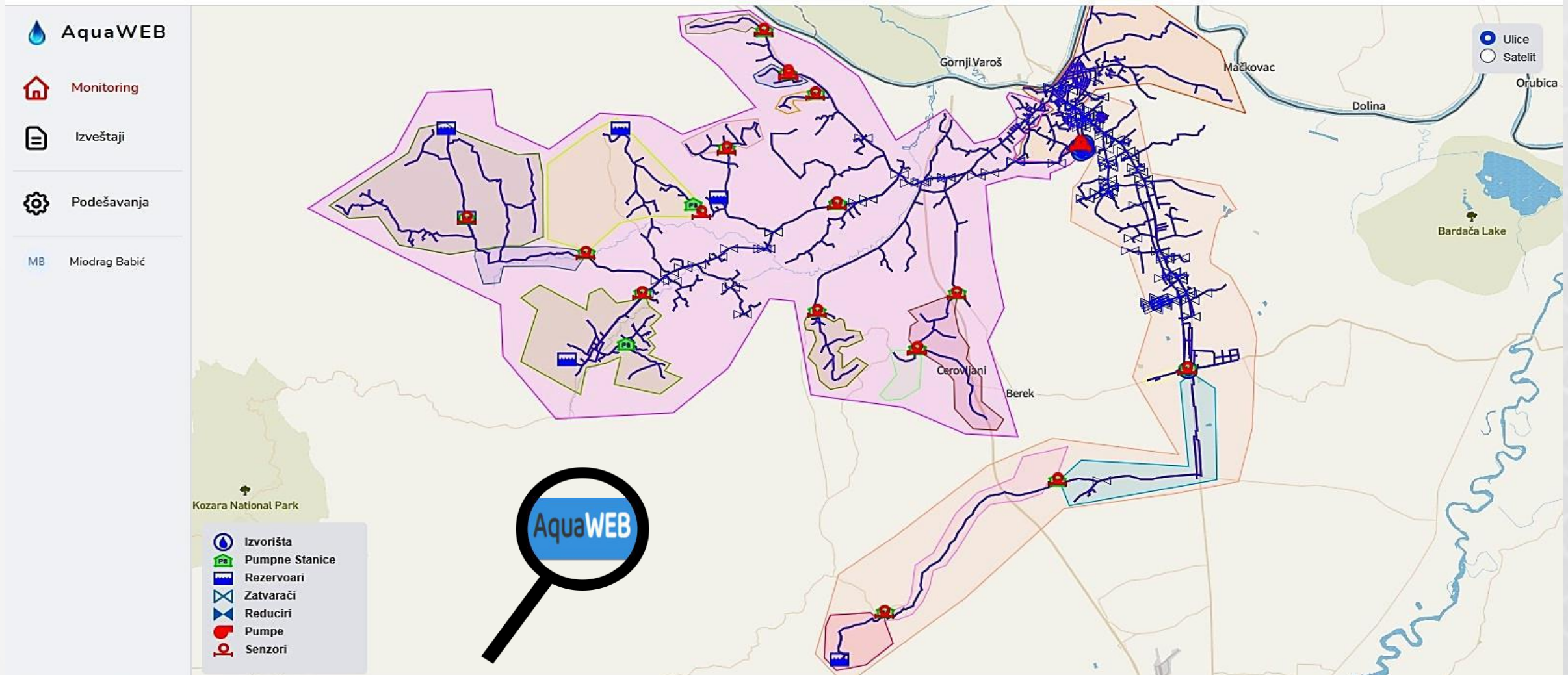
Zapamti me

Zaboravili ste lozinku **PRIJAVA**

Powered by ICTS doo & NMAqua

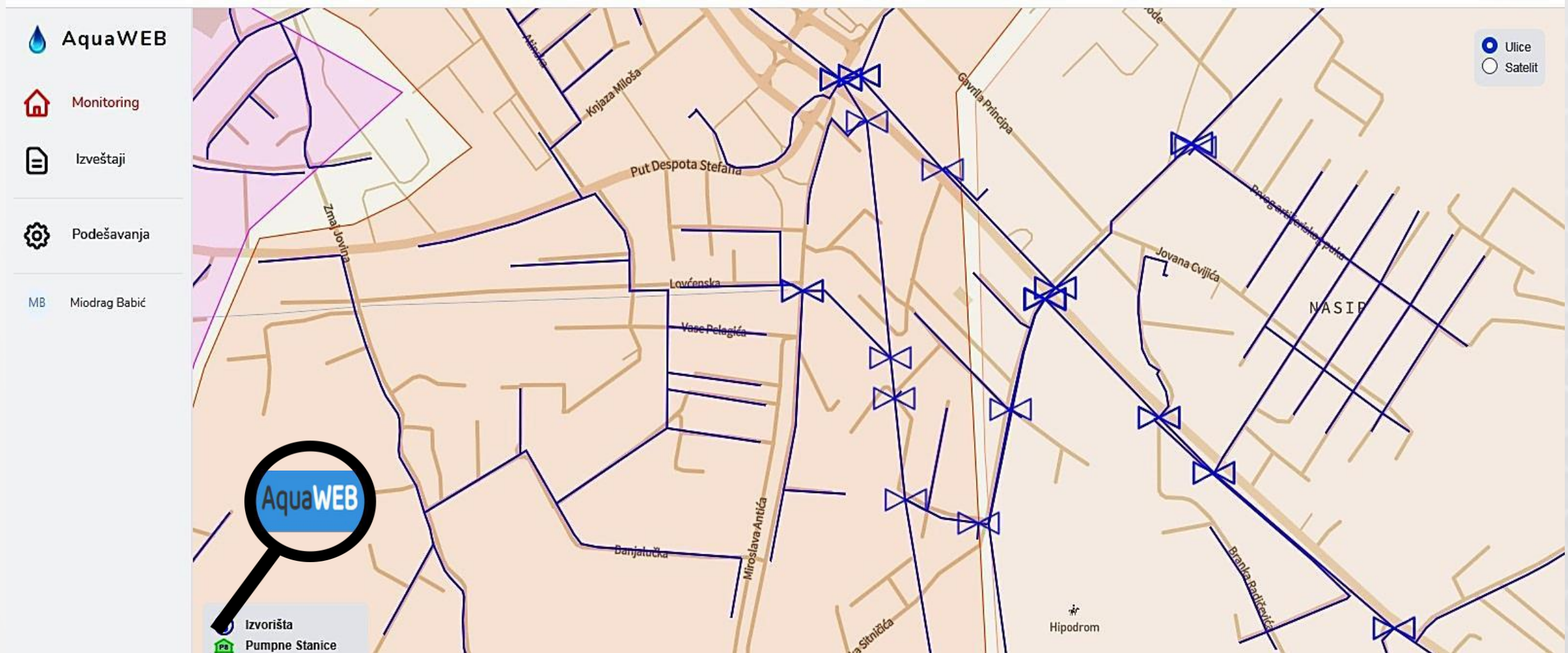
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Integracija podataka iz GIS-a u AquaWEB



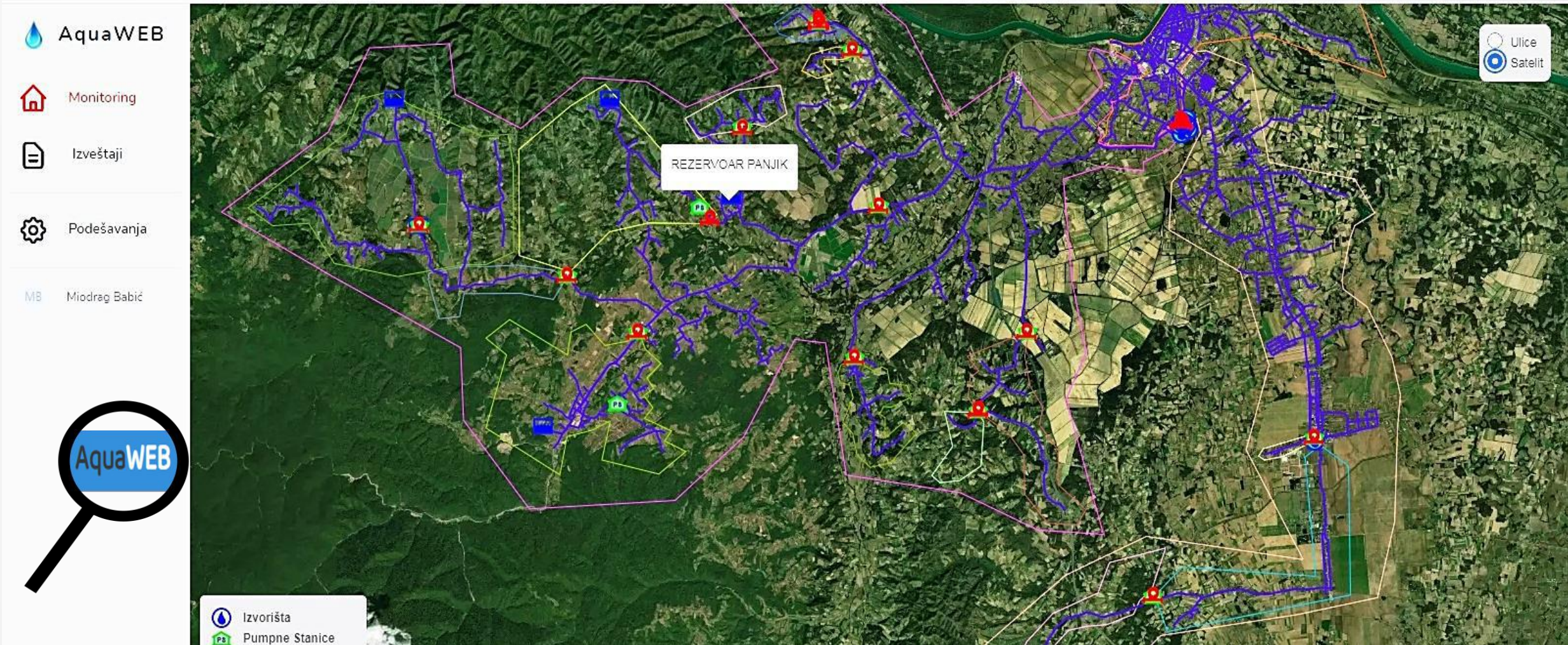
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Integracija podataka iz GIS-a u AquaWEB



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Integracija podataka iz GIS-a u AquaWEB



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Integracija podataka iz GIS-a u AquaWEB

 AquaWEB

 Monitoring








 Izveštaji

 Podešavanja

MB Midrag Babić

Rezervoari

NOVI REZERVOAR

Naziv	Kapacitet (m3)	Nadmorska visina (mnm)	DMA	Operacije
REZERVOAR GORNJA JURKOVICA	50.00	325.00	PS Šaškinovci (Gornja Jurkovic)	 
REZERVOAR JABLANICA 1	201.60	200.00	PS Jablanica 1	 
REZERVOAR JABLANICA 2	99.40	265.00	PS Jablanica 2	 
REZERVOAR MILOSEVO BRDO, 215 mnm	50.00	215.00	PS Miloševo Brdo	 
REZERVOAR PANJIK	319.50	166.00	DMA Potkozarje	 
REZERVOAR STRAZAC	319.50	210.00	PS Desančići	 


 AquaWEB

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Integracija podataka iz GIS-a u AquaWEB

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 Izveštaji

 Podešavanja

MB Miodrag Babić

Izmijena podataka o rezervoaru

NAZAD

SAČUVAJ IZMENE

Ime Rezervoara

REZERVOAR PANJIK

Kapacitet (m3)

319.50

Nadmorska visina (mnm)

166.00

DMA

DMA Potkozarje

Komentar

Unesi komentar ili zabilješku...

Ubaci sliku/slike

Choose Files No file chosen

Pridružene fotografije:

Nema pridruženih fotografija



AquaWEB

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Povezivanje tehničke baze i baza mjerenja

AquaWEB

- Monitoring
- Izveštaji
- Podešavanja
- MB Miodrag Babić

Kreiraj Novi Senzor

NAZAD SAČUVAJ IZMENE

Naziv: Izaberite senzor

DMA / PMM: Izaberite tip DMA ili PMM

DMA: Izaberi DMA zonu

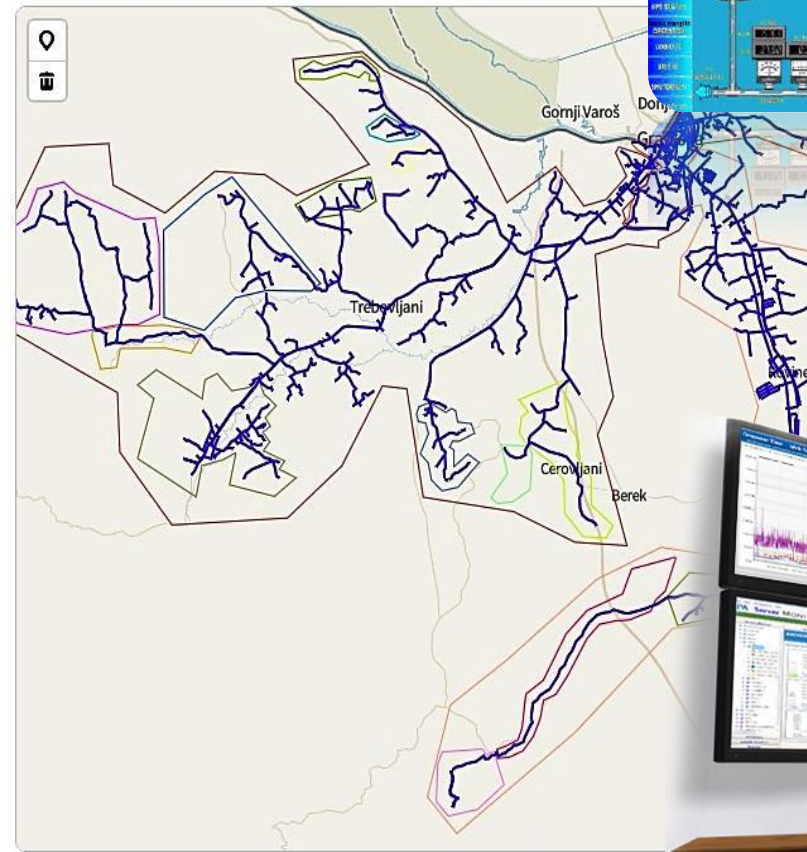
Izvorište: Izaberi Izvorište

Tip: Izaberite tip senzora

Elevation: Unesite nadmorsku visinu

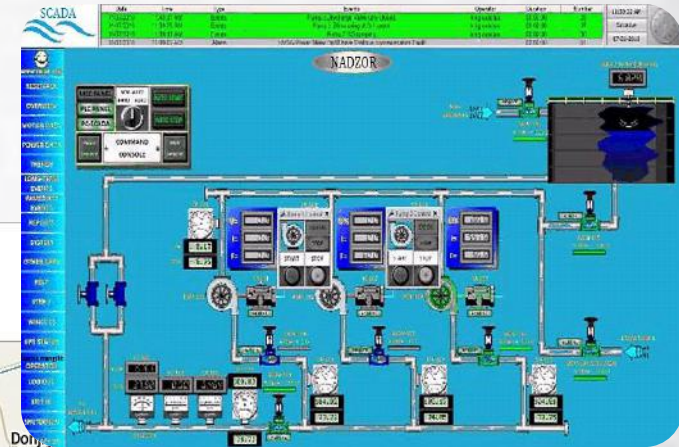
Unesi komentar ili zabilješku...

Choose Files No file chosen



Choose File No file chosen

Izaberi datoteku sa koordinatom ili na maobil




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Monitoring

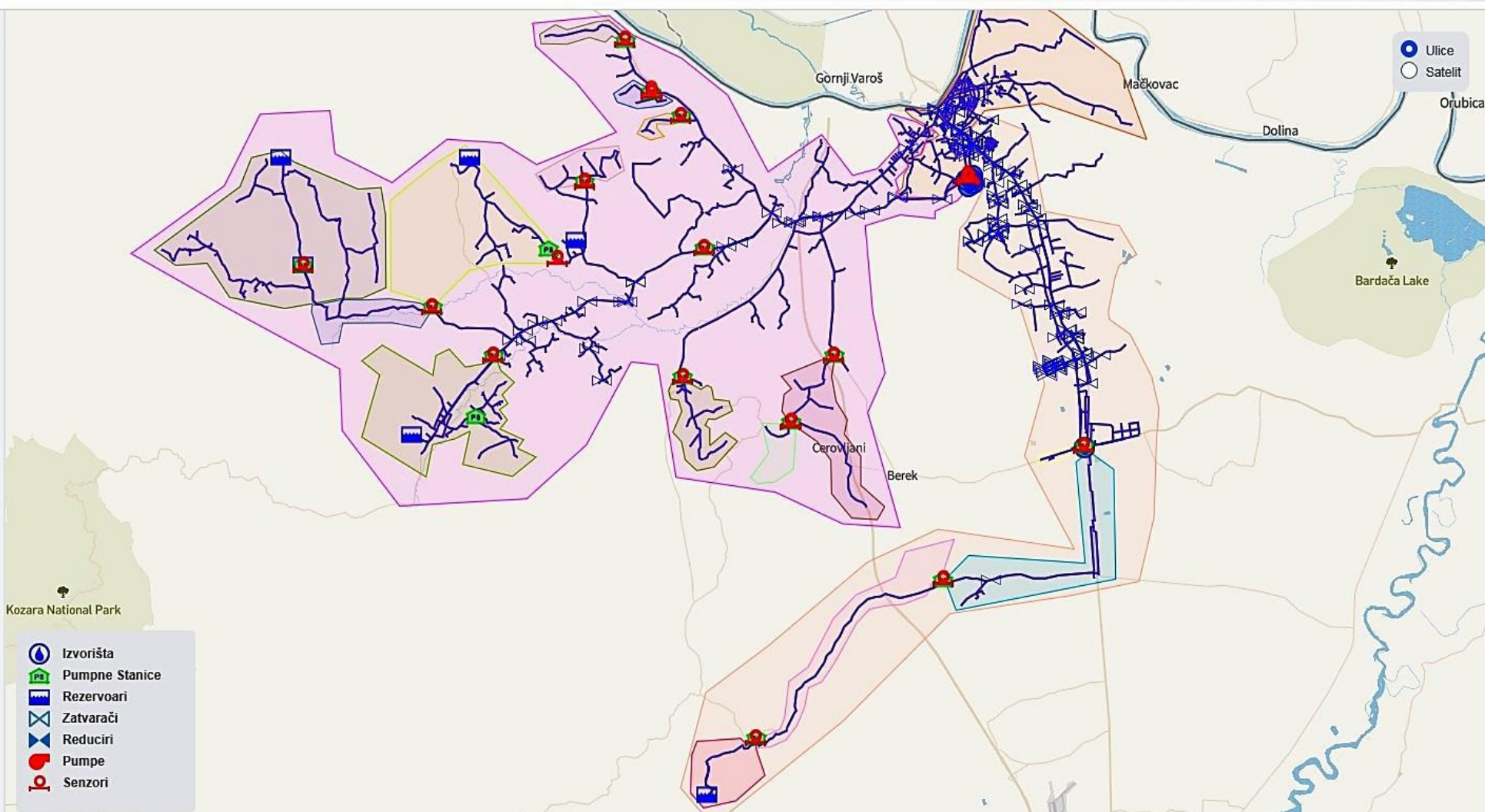
 AquaWEB

 Monitoring

 Izveštaji

 Podešavanja


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Monitoring

 AquaWEB

 Monitoring

 Izveštaji

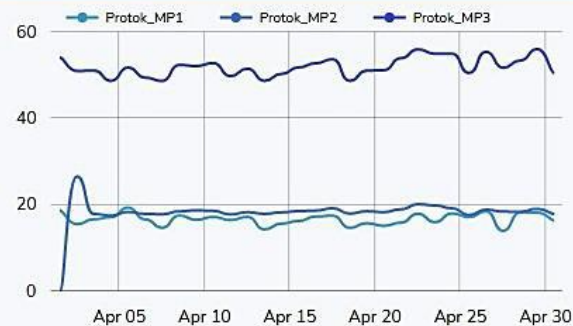
 Podešavanja

MB Miodrag Babić

OSNOVNI PODACI

Dužina mreže (km): **530.83**
Rezervoari (kom): **6**
Zapremina (m3): **1,040.00**
Prepumpne stanice (kom): **16**

PROTOK DMA (l/s)



DISTRIBUCIJA - Vodoizvorište

1. Izaberi godinu

2019 2020 2021

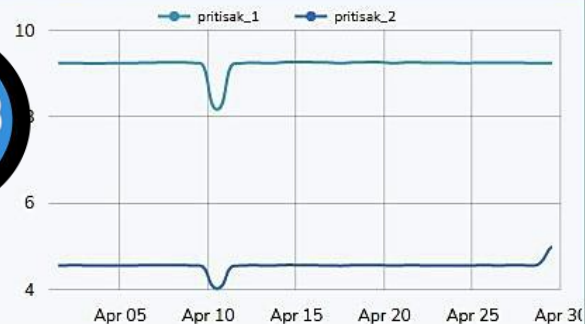
2. Izaberi mjesec za učitavanje podataka

Jan Feb Mar Apr Maj Jun
 Jul Avg Sep Oct Nov Dec

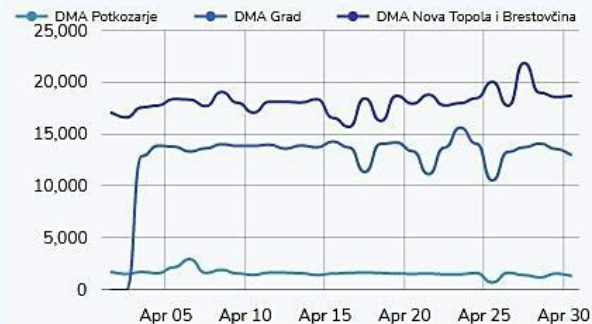
3. Klikni dugme za eksport mjesečnog izvještaja

 Eksport

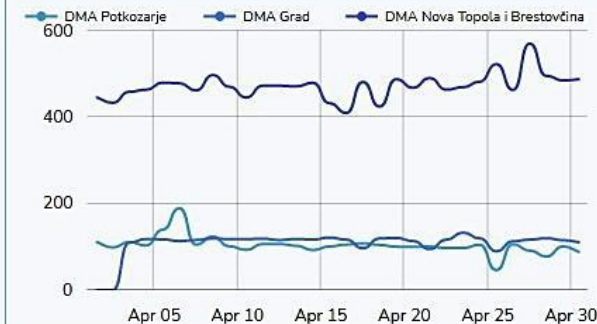
PRITISAK DMA (bar)



INDIKATOR GUBITKA (l/km/dan)



INDIKATOR GUBITKA (l/prikl/dan)



SREDNJI DNEVNI PROTOK VODOIZVORIŠTA (l/s)

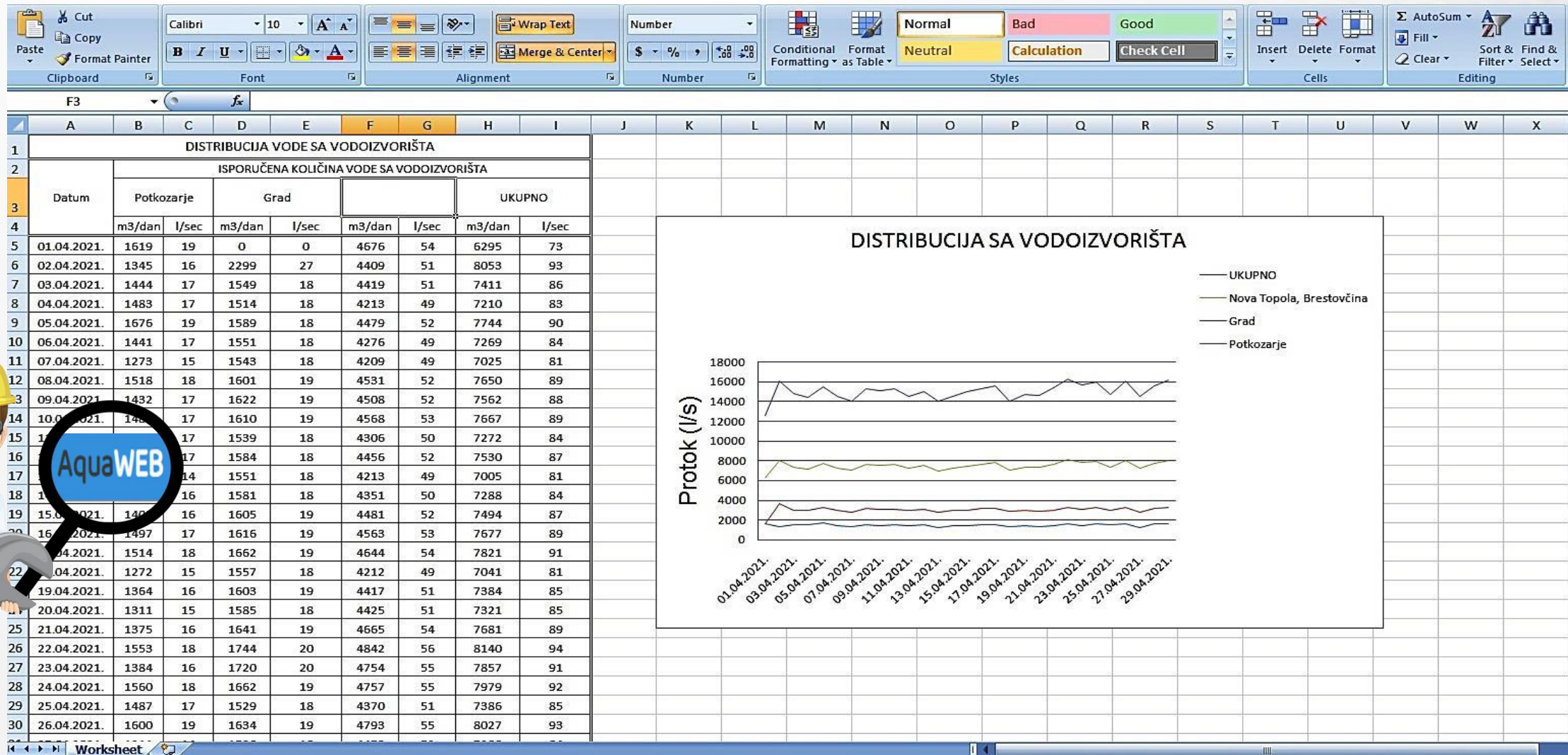
03.05.2021

Total



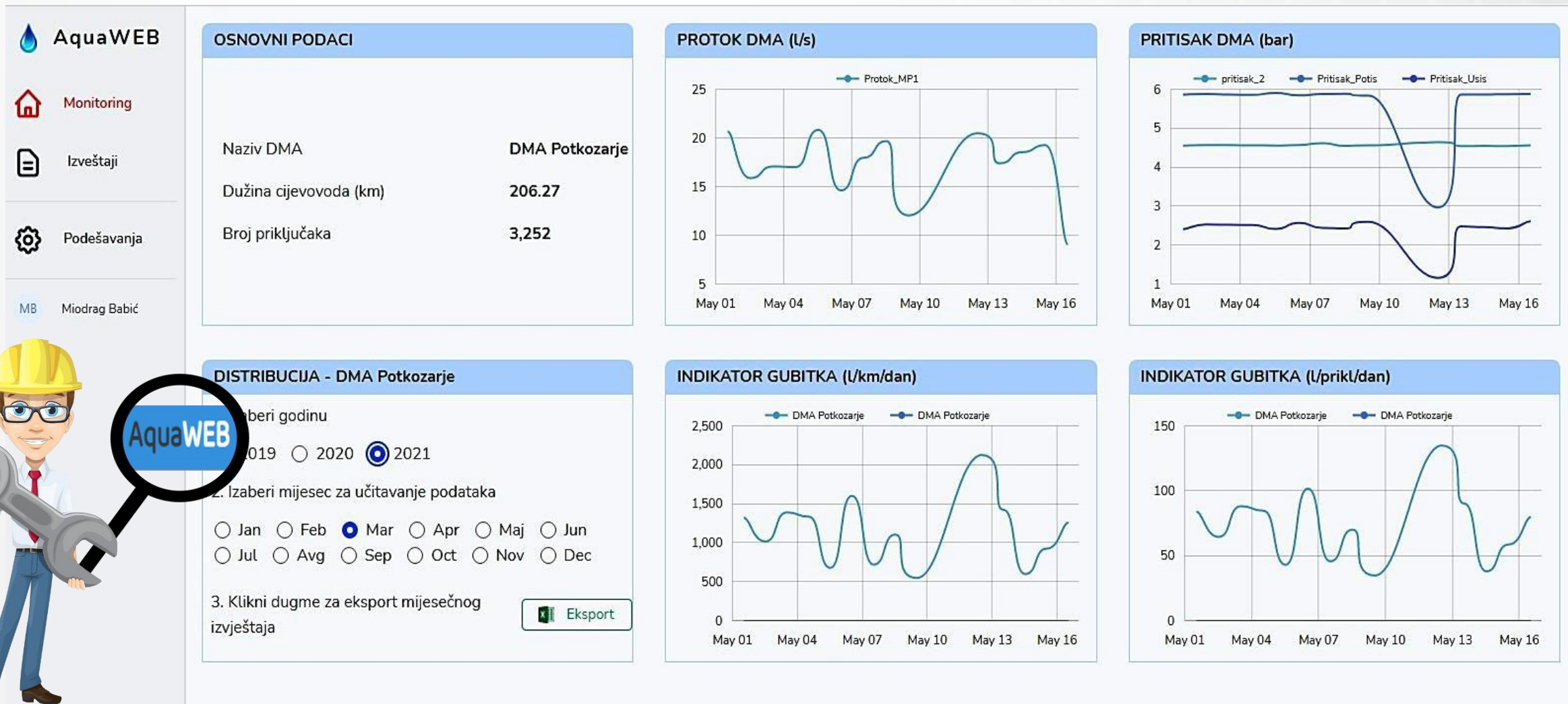
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Monitoring




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 Monitoring

 Izveštaji

 Podešavanja

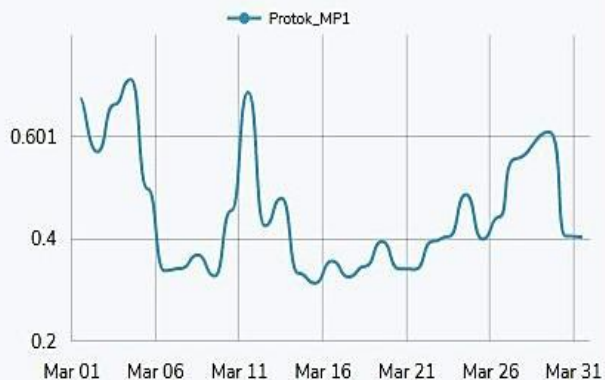
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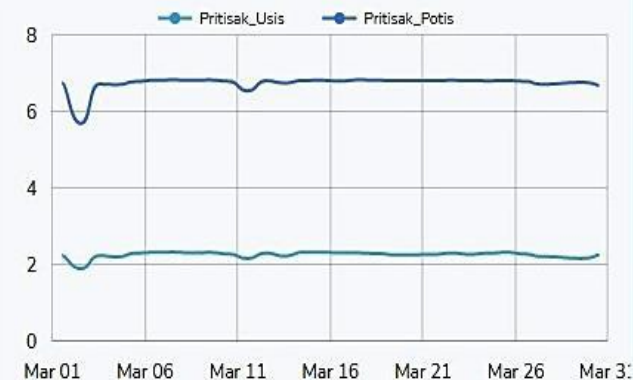
OSNOVNI PODACI

Naziv DMA	PS Dragelji
Dužina cijevovoda (km)	6.74
Broj priključaka	83

PROTOK DMA (l/s)



PRITISAK DMA (bar)



DISTRIBUCIJA - PS Dragelji

godinu

2020 2021

Zaberi mjesec za učitavanje podataka

Jan Feb Mar Apr Maj Jun
 Jul Avg Sep Oct Nov Dec

3. Klikni dugme za eksport mjesečnog izvještaja

 Eksport

INDIKATOR GUBITKA (l/km/dan)



INDIKATOR GUBITKA (l/prikl/dan)



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Izvjestaji

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- Monitoring
- Izveštaji

Available reports

- DMA Dnevni Izveštaj
- DMA Periodični Izveštaj
- PS Dnevni izveštaj
- PS Periodični izveštaj
- PMM Izveštaj
- Bilans Sistema

Map Legend:

- Izvorišta
- Pumpne Stanice
- Rezervoari
- Zatvarači
- Reduciri
- Pumpe
- Senzori

Map Labels: Bijakovac, Sleverovci, Jablanica, Sovjak, Miloševac, Jelići, Lužani, Čelinovac, Grbavci, Kijevci, Cerovljani, Berek, Samardžije, Adžići, Mičije, Srednja Jurkovića, Miljević, Romanovci, Vilusi, V. Mranci, Gornji varos, Uskoci, Mačkovac, Greda, Laminci, Kraljević, Kraljević, Nova Ploča, Kraljević.

Map Legend:

- Ulice
- Satel


AquaWEB

Chart: A bar chart with an upward-trending red line graph, presented on a whiteboard by a cartoon character.

Illustration: A group of four people sitting around a table, engaged in a meeting or discussion.


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Izvjestaji

 AquaWEB

 Monitoring

 Izveštaji

 Podešavanja

MB Miodrag Babić

Od: 01.05.2021

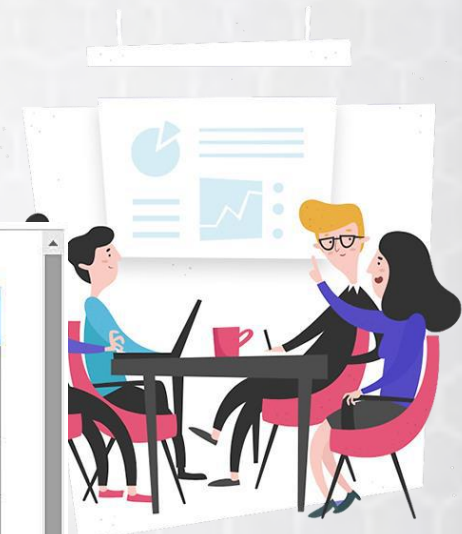
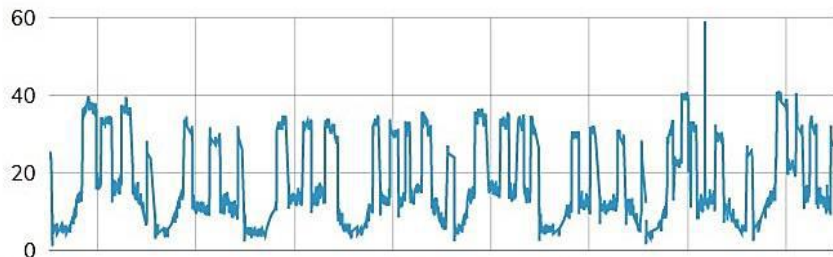
Do: 08.05.2021

DMA Potkozarje

PRETRAŽI

EXPORT PDF

PERIOD	Od 01.05.2121 do 08.05.2121		
	DNEVNI INDIKATORI	VRIJEDNOSTI ZA PRAĆENJE	PREPORUČENE VRIJEDNOSTI
Minimalni pritisak (bar)	0.01	4.35	4.35
Maksimalni pritisak (bar)	9.30	4.45	4.45
Prosečni pritisak (bar)	8.36	4.41	4.41
Minimalni noćni protok (l/s)	1.63	3.50	3.00
Maksimalni protok (l/s)	59.26	35.00	35.00
Prosečni protok (l/s)	18.01	16.30	16.30
Stvarni gubici po kilometru mreže na dan (l/km/dan)	682.76	1500	
Stvarni gubici po priključku na dan (l/priklj/dan)	43.31	93	



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Izvjestaji

Monitoring

Izveštaji

Podešavanja

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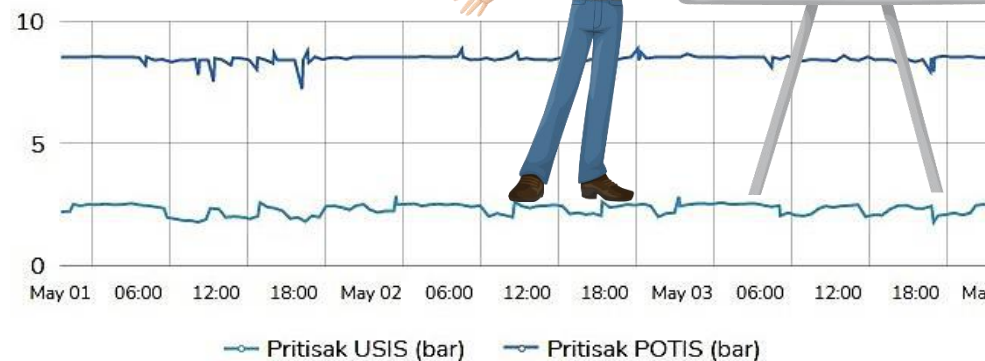
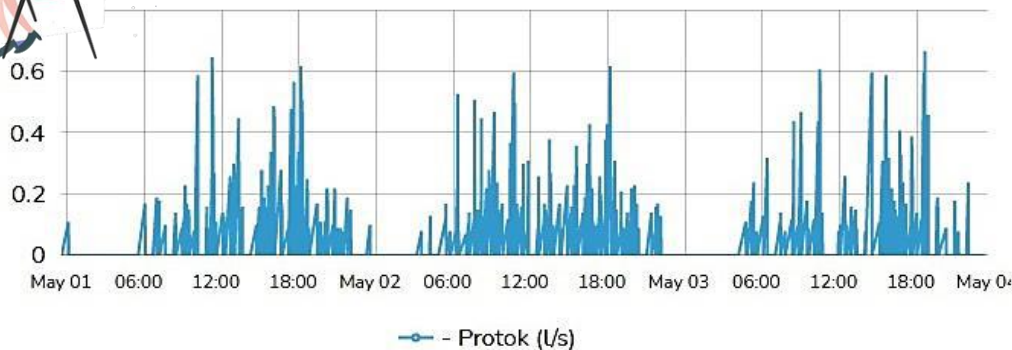
Do: 03.05.2021

PS Bistrica 1

PRETRAŽI


EXPORT PDF

	DNEVNI INDIKATORI	VRIJEDNOSTI ZA PRAĆENJE	PREPORUČENE VRIJEDNOSTI
Pritisak na POTISU (bar)	8.52	8.40	9.00
Pritisak na USISU (bar)	2.35	2.00	3.10
Minimalni noćni protok (l/s)	0.00	0.00	0.00
Maksimalni protok (l/s)	0.67	0.10	0.10
Prosečni protok (l/s)	0.02	0.00	0.00
Prepumpavanje (m3/dan)	1.55	0.00	0.00
Stvarni gubici po kilometru mreže na dan (l/km/dan)	0.00	150	
Stvarni gubici po priključku na dan (l/priklj/dan)	0.00	1200	




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Izveštaji

 AquaWEB

 Monitoring

 Izveštaji

 Podešavanja

MB Miodrag Babić

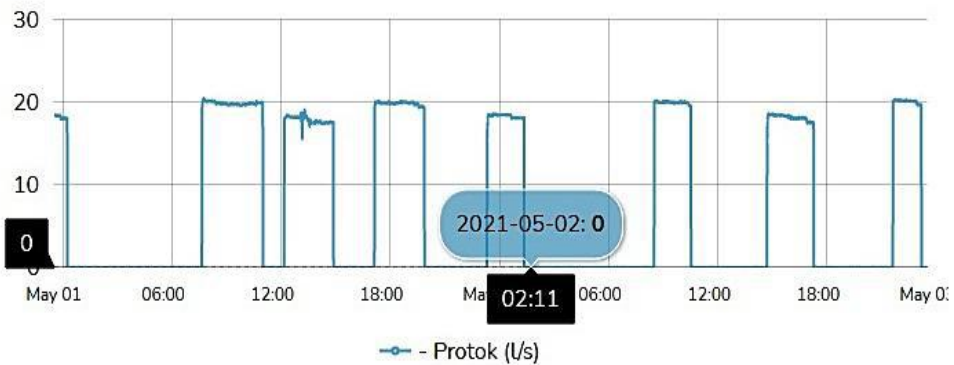
Od: 01.05.2021

Do: 02.05.2021

Skaliran_Protok_Ljutava

PRETRAŽI

EXPORT PDF



PERIOD	Od 01.05.2121 do 02.05.2121
	DNEVNI INDIKATORI
Minimalni pritisak (bar)	0.00
Maksimalni pritisak (bar)	0.00
Prosečni pritisak (bar)	0.00
Minimalni protok (l/s)	0.00
Maksimalni protok (l/s)	20.57
Prosečni protok (l/s)	7.06







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Izveštaji

 AquaWEB

 Monitoring

 Izveštaji

 Podešavanja

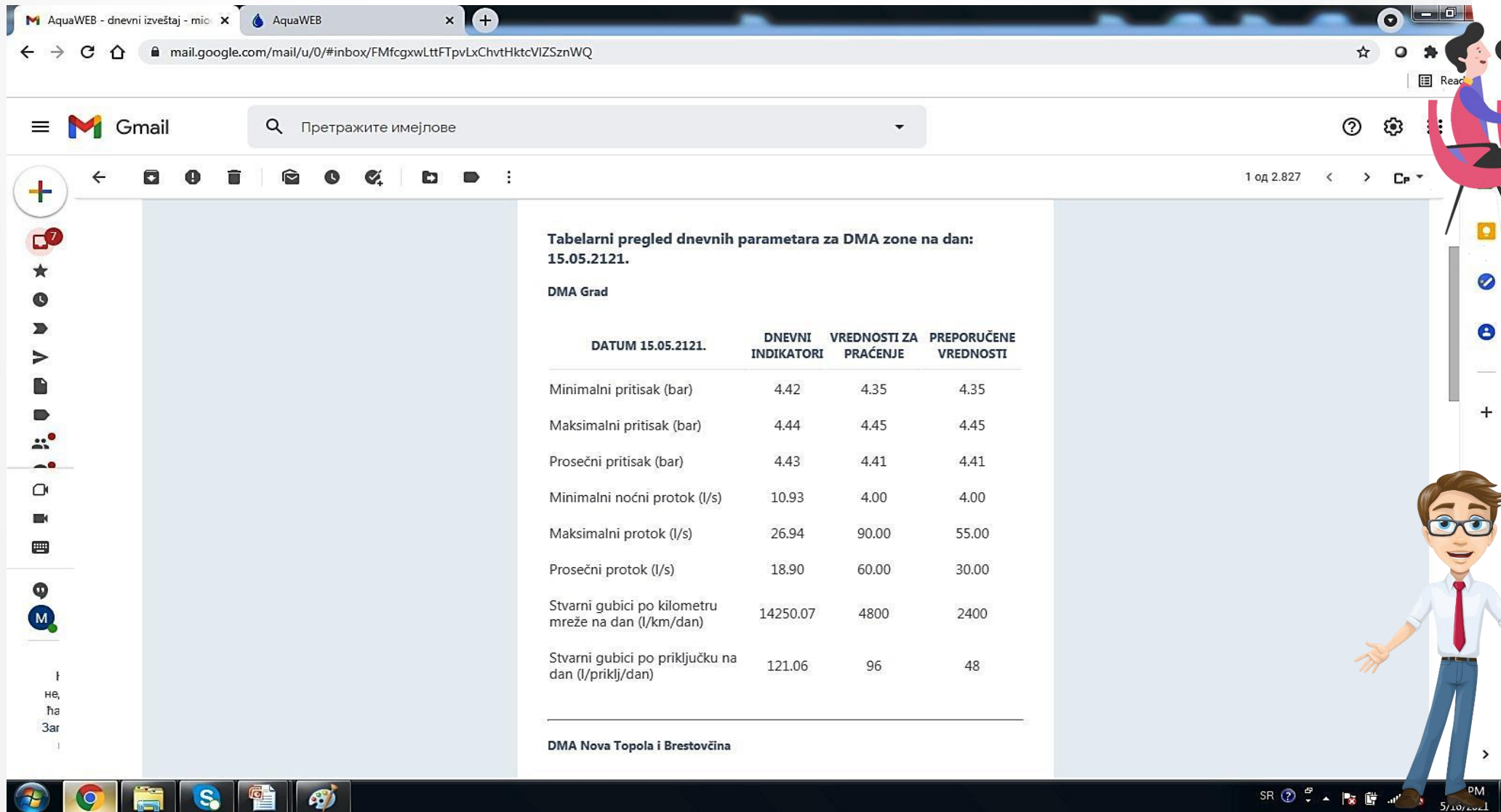
 MB Miodrag Babić

Datum	SREDNJI DNEVNI VODNI BILANS																											
	VODNI BILANS ZONE POTKOZARJE														VODNI BILANS ZONE GRAD				VODNI BILANS ZONE NOVA TOPOLA									
	Potkozarje		Bistrica1		Bistrica2		Cerovljani1		Desančići		Dragelji		Gašnica		G.Trebovljani		Jablanica1		Miloševo brdo		Razlika nepokrivena mjeracima		Grad		Nova Topola, Brestovčina		Nova Topola - dolaz	
m3/dan	l/sec	m3/dan	l/sec	m3/dan	l/sec	m3/dan	l/sec	m3/dan	l/sec	m3/dan	l/sec	m3/dan	l/sec	m3/dan	l/sec	m3/dan	l/sec	m3/dan	l/sec	m3/dan	l/sec	m3/dan	l/sec	m3/dan	l/sec	m3/dan	l/sec	
01.04.2021.	1618.72	18.74	1.74	0.02	1.33	0.02	45.93	0.53	130.34	1.51	39.26	0.45	4.06	0.05	34.41	0.40	98.28	1.14	10.52	0.12	1252.84	14.50	0.00	0.00	4675.97	54.12	380.95	4.41
02.04.2021.	1344.62	15.56	1.77	0.02	1.02	0.01	39.45	0.46	111.93	1.30	35.30	0.41	5.04	0.06	32.23	0.37	38.69	0.45	9.14	0.11	1070.06	12.38	2299.25	26.61	4409.11	51.03	373.10	4.32
03.04.2021.	1443.63	16.71	1.18	0.01	1.51	0.02	38.34	0.44	127.87	1.48	35.45	0.41	18.12	0.21	28.07	0.32	75.91	0.88	8.75	0.10	1108.43	12.83	1548.74	17.93	4418.97	51.15	373.18	4.32
04.04.2021.	1483.14	17.17	1.12	0.01	1.05	0.01	32.03	0.37	114.19	1.32	31.62	0.37	10.48	0.12	24.16	0.28	90.98	1.05	9.41	0.11	1168.11	13.52	1513.72	17.52	4212.64	48.76	348.31	4.03
05.04.2021.	1676.18	19.40	1.22	0.01	3.21	0.04	87.35	1.01	114.67	1.33	35.06	0.41	9.85	0.11	26.41	0.31	60.99	0.71	13.05	0.15	1324.37	15.33	1589.15	18.39	4478.88	51.84	376.04	4.35
06.04.2021.	1440.86	16.68	1.11	0.01	0.67	0.01	96.89	1.12	103.33	1.20	32.05	0.37	8.84	0.10	23.08	0.27	72.38	0.84	6.49	0.08	1096.03	12.69	1551.19	17.95	4276.47	49.50	373.06	4.32
07.04.2021.	1273.49	14.74	0.99	0.01	0.64	0.01	100.13	1.16	112.41	1.30	28.67	0.33	4.60	0.05	26.69	0.31	37.03	0.43	7.77	0.09	954.55	11.05	1542.57	17.85	4208.88	48.71	362.47	4.20
08.04.2021.	1518.06	17.57	1.64	0.02	1.35	0.02	69.79	0.81	122.82	1.42	32.24	0.37	5.13	0.06	44.31	0.51	77.11	0.89	9.09	0.11	1154.58	13.36	1600.91	18.53	4530.89	52.44	387.79	4.49
09.04.2021.	1432.19	16.58	1.18	0.14	0.81	0.01	35.01	0.41	114.12	1.32	34.73	0.40	4.42	0.05	237.92	2.75	72.71	0.84	10.34	0.12	910.32	10.54	1621.52	18.77	4508.01	52.18	388.89	4.50
10.04.2021.	1489.34	17.24	0.34	0.00	0.19	0.00	11.61	0.13	91.75	1.06	7.06	0.08	1.36	0.02	13.74	0.16	64.13	0.74	7.47	0.09	1291.69	14.95	1609.64	18.63	4567.87	52.87	399.54	4.62
11.04.2021.	1426.87	16.51	1.34	0.02	3.79	0.04	47.40	0.55	152.09	1.76	43.40	0.50	6.49	0.08	21.65	0.25	67.84	0.79	14.68	0.17	1068.19	12.36	1538.63	17.81	4306.43	49.84	389.88	4.51
12.04.2021.	1490.60	17.25	1.83	0.02	0.82	0.01	42.58	0.49	122.73	1.42	38.13	0.44	6.46	0.07	32.53	0.38	100.50	1.16	10.39	0.12	1134.62	13.13	1583.81	18.33	4455.73	51.57	381.28	4.41
13.04.2021.	1240.75	14.36	0.99	0.01	0.82	0.01	30.98	0.36	100.28	1.16	31.27	0.36	3.33	0.04	14.36	0.17	84.93	0.98	6.43	0.07	967.37	11.20	1551.31	17.95	4212.87	48.76	372.93	4.32
14.04.2021.	1356.25	15.70	1.08	0.01	1.02	0.01	33.67	0.39	114.34	1.32	30.44	0.35	3.68	0.04	16.86	0.20	108.89	1.26	8.92	0.10	1037.34	12.01	1581.07	18.30	4350.80	50.36	379.21	4.39
15.04.2021.	1407.89	16.30	1.39	0.02	0.92	0.01	37.55	0.43	130.54	1.51	34.21	0.40	13.37	0.15	17.19	0.20	83.65	0.97	10.36	0.12	1078.70	12.48	1604.73	18.57	4481.15	51.87	393.55	4.55
16.04.2021.	1497.32	17.33	0.96	0.01	2.21	0.03	44.79	0.52	112.99	1.31	36.62	0.42	4.33	0.05	20.10	0.23	56.91	0.66	10.14	0.12	1208.27	13.98	1616.21	18.71	4563.40	52.82	393.55	4.55
17.04.2021.	1514.47	17.53	1.07	0.01	0.97	0.01	37.93	0.44	131.94	1.53	36.33	0.42	5.41	0.06	19.34	0.22	103.79	1.20	12.52	0.14	1165.16	13.49	1662.36	19.24	4644.39	53.75	393.55	4.55
18.04.2021.	1272.22	14.72	0.79	0.01	0.79	0.01	30.99	0.36	115.82	1.34	30.92	0.36	5.93	0.07	17.87	0.21	35.85	0.41	7.39	0.09	1025.88	11.87	1556.97	18.02	4212.02	48.75	393.55	4.55
19.04.2021.	1364.19	15.79	1.68	0.19	0.64	0.01	33.10	0.38	112.55	1.30	33.75	0.39	3.62	0.04	315.05	3.65	86.09	1.00	7.59	0.09	754.97	8.74	1602.76	18.55	4416.91	51.12	352.00	4.16
20.04.2021.	1310.55	15.17	1.08	0.01	0.04	0.00	27.60	0.32	130.90	1.52	25.01	0.29	4.09	0.05	13.58	0.16	0.06	0.00	6.68	0.08	1101.50	12.75	1585.37	18.35	4425.28	51.22	367.00	4.26
21.04.2021.	1374.50	15.91	1.21	0.01	1.17	0.01	37.39	0.43	112.02	1.30	39.74	0.46	5.24	0.06	21.36	0.25	77.71	0.90	10.41	0.12	1068.24	12.36	1640.98	18.99	4665.44	54.00	393.55	4.55
22.04.2021.	1553.26	17.98	1.22	0.01	0.76	0.01	37.92	0.44	139.25	1.61	38.56	0.45	5.73	0.07	18.52	0.21	82.71	0.96	9.38	0.11	1219.20	14.11	1744.21	20.19	4842.41	56.05	366.00	4.12
23.04.2021.	1383.68	16.01	1.08	0.01	1.06	0.01	48.87	0.57	114.09	1.32	43.27	0.50	5.04	0.06	21.73	0.25	51.62	0.60	9.71	0.11	1087.20	12.58	1719.56	19.90	4753.98	55.00	377.00	4.34
24.04.2021.	1560.35	18.06	1.36	0.02	0.98	0.01	56.30	0.65	124.59	1.44	39.48	0.46	5.21	0.06	24.17	0.28	71.52	0.83	14.69	0.17	1222.05	14.14	1662.01	19.24	4756.77	52.06	377.00	4.34
25.04.2021.	1487.33	17.21	1.03	0.01	1.13	0.01	42.82	0.50	140.25	1.62	40.83	0.47	5.52	0.06	17.57	0.20	70.08	0.81	15.02	0.17	1153.07	13.35	1528.77	17.69	4369.92	50.58	366.00	4.12
26.04.2021.	1599.87	18.52	1.12	0.01	2.84	0.03	50.87	0.59	118.92	1.38	42.31	0.49	9.32	0.11	30.01	0.35	97.98	1.13	10.64	0.12	1235.86	14.30	1634.44	18.92	4792.81	55.47	442.00	4.84
27.04.2021.	1210.87	14.01	0.77	0.01	0.87	0.01	33.38	0.39	112.37	1.30	33.15	0.38	3.42	0.04	18.57	0.21	35.18	0.41	7.84	0.09	965.33	11.17	1595.89	18.47	4473.09	51.77	442.00	4.84
28.04.2021.	1582.36	18.31	1.06	0.01	1.35	0.02	39.12	0.45	144.95	1.68	38.50	0.45	4.71	0.05	17.40	0.20	86.91	1.01	7.51	0.09	1240.84	14.36	1591.70	18.42	4618.68	53.46	403.00	4.52
29.04.2021.	1578.34	18.27	1.55	0.02	2.63	0.03	50.30	0.58	132.19	1.53	46.23	0.54	6.03	0.07	17.29	0.20	93.66	1.08	11.51	0.13	1216.95	14.09	1652.09	19.12	4847.06	56.10	411.00	4.51
30.04.2021.	1419.00	16.42	1.24	0.01	0.96	0.01	42.10	0.49	125.14	1.45	41.88	0.48	4.64	0.05	22.79	0.26	78.15	0.90	9.07	0.11	1093.03	12.65	1545.30	17.89	4369.67	50.57	358.00	4.15
Dnevni prosjek	1445.03	16.73	2.06	0.02	1.25	0.02	45.41	0.53	121.05	1.40	35.18	0.41	6.12	0.07	39.63	0.46	72.07	0.86	9.76	0.11	1112.49	12.88	1623.27	18.79	4494.88	52.02	383.25	4.44



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Gmail Претражите имејлове



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Tabelarni pregled dnevnih parametara za DMA zone na dan: 15.05.2121.

DMA Grad

DATUM 15.05.2121.	DNEVNI INDIKATORI	VREDNOSTI ZA PRAĆENJE	PREPORUČENE VREDNOSTI
Minimalni pritisak (bar)	4.42	4.35	4.35
Maksimalni pritisak (bar)	4.44	4.45	4.45
Prosečni pritisak (bar)	4.43	4.41	4.41
Minimalni noćni protok (l/s)	10.93	4.00	4.00
Maksimalni protok (l/s)	26.94	90.00	55.00
Prosečni protok (l/s)	18.90	60.00	30.00
Stvarni gubici po kilometru mreže na dan (l/km/dan)	14250.07	4800	2400
Stvarni gubici po priključku na dan (l/priklj/dan)	121.06	96	48

DMA Nova Topola i Brestovčina



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HVALA NA PAŽNJI

