



Our ref. No

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*Ние, служителите на общинска администрация, се стремим
да осигуряваме високо качество на обслужването при
прилагане на принципите за законност, равенство,
достъпност, безпристрастност и бързина.*

AQUA-LITY Project Meeting and Training Seminar

Dear Lead Partner,

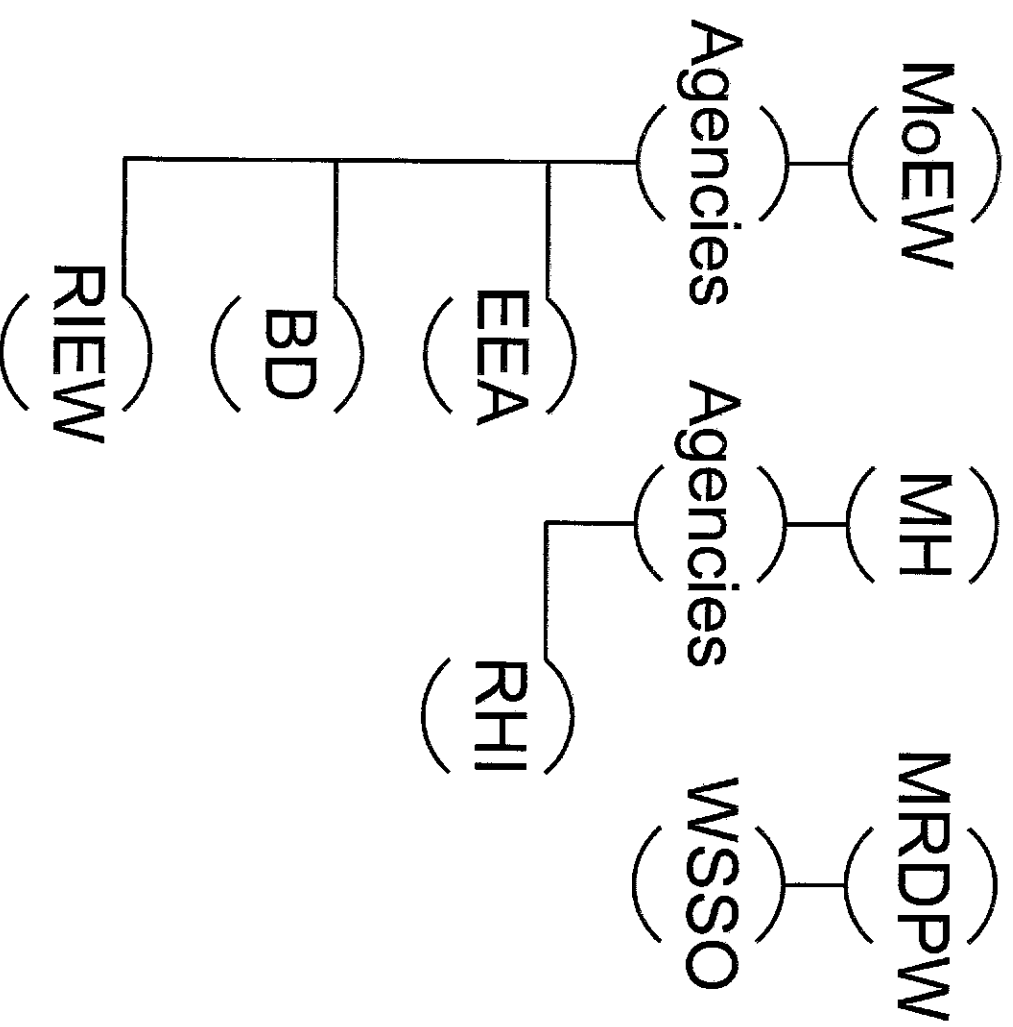
I have the pleasure to invite you and all Greek representatives to the AQUA-LITY project meeting and training seminar, which will be held on 16 October 2019 at the premises of the Municipality of Dimitrovgrad, 15 G.S. Rakovski Blvd, 6400 Dimitrovgrad, Bulgaria. The agenda for the events is attached.

Sincerely,

Yasho Minkov
Deputy Mayor of Municipality of Dimitrovgrad

Application of innovative techniques for improving drinking water quality in urban areas

Responsible institutions



Responsible institutions

MoEW – Ministry of Environmental and Water

EEA – Executive Environmental Agency

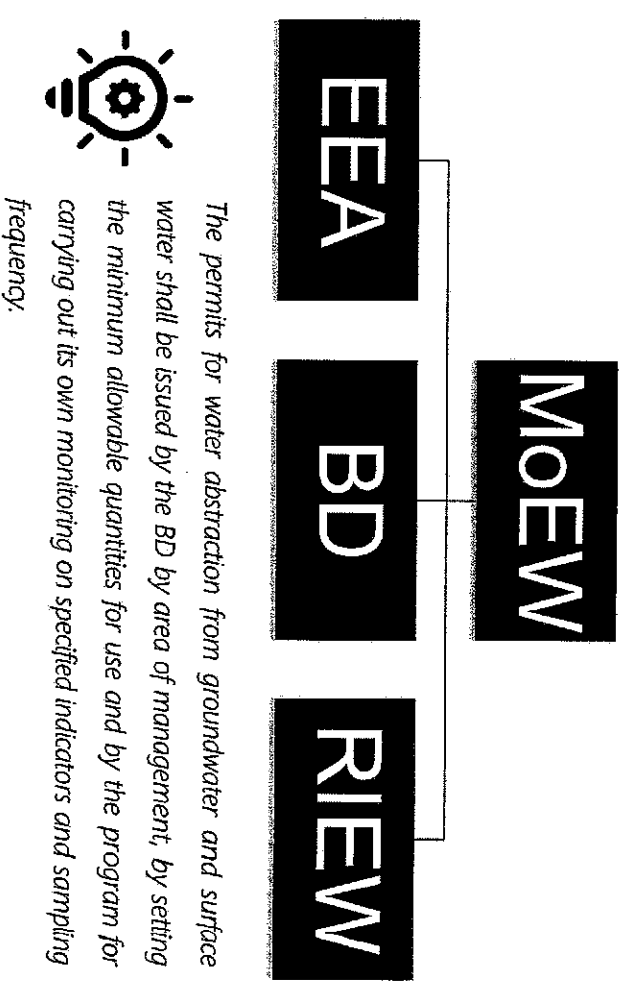
Basin Directorates for Water

Management – Basin Directorates for

Water management

RIEW – Regional Inspectorates for

Environment and Waters



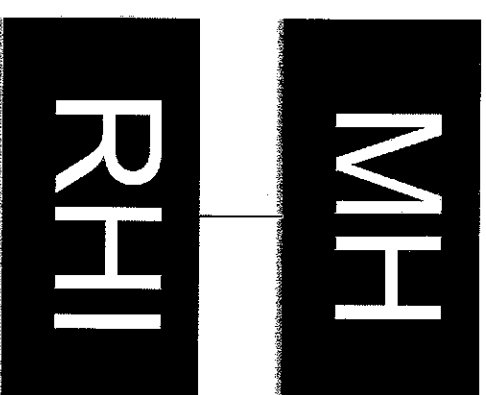
Responsible institutions

MH – Ministry of Health

EEA – Regional Health Inspection



RHI - Haskovo is the regional structure, which covers the territory of Dimitrograd Municipality. The inspection has an accredited laboratory where microbiological and chemical monitoring is carried out, including the possibility of sampling of individuals and organizations.



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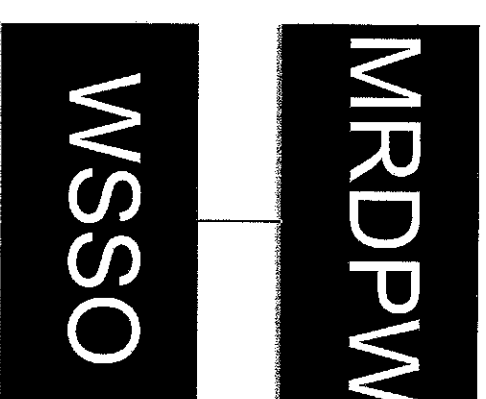


Responsible institutions

MH – Ministry of Regional Development and Public Works

WSSO – Water supply and sewerage operator

- *Water supply organizations are required to take all necessary measures to ensure that the population is supplied with safe and clean drinking water. – Art. 3, para. 1, Ordinance №9*
- *Water supply organizations take all necessary steps to avoid secondary deterioration of the quality of drinking water in the repair of water supply systems, regular water supply and commissioning of new water sources. – Art. 3, para. 3, Ordinance №9*
- *In order to protect water for drinking and household purposes from pollution around the drinking water sources and the facilities for drinking and domestic water supply, it is obligatory to create SOD according to Ordinance № 3 – art. 3, para. 4, Ordinance №9*



Legislative framework

Water Act – main law for regulation of water



• According to Art. 1. This law regulates the ownership and management of the waters on the territory of the Republic of Bulgaria as a nation-wide indivisible natural resource and the ownership of the water-saving systems and facilities."

According Water Act management structure regarding management of water is as follows:

- Ministry of Environmental and Water
- Supreme Water Advisory Council
 - Executive Environment Agency
 - Directors of the four Basin Directorates



Legislative framework

Ordinances for implementation of WA (the list is not full):

- ORDINANCE №1 of 10.10.2007 for exploration, use and protection of groundwater (Amended and supplemented, SG No. 102 / 23.12.2016, effective 23.12.2016);
- ORDINANCE № 1 of 11.04.2011 for water monitoring (Amended and supplementary SG No. 20 of 15.03.2016, effective 15.03.2016);
- ORDINANCE №2 of 13.09.2007 for the protection of waters from pollution with nitrates from agricultural sources (Amended, SG No. 97 of 9.12.2011);
- ORDINANCE №3 of 16.10.2000 on the conditions and procedure for investigation, design, validation and operation of the sanitary-protection zones around the water sources and the facilities for drinking water supply and around the water sources of mineral waters used for healing, prophylactic, drinking and hygiene needs (promulgated SG No. 88/2000);
- ORDINANCE No. 9 of 16.03.2001 on the quality of water intended for drinking and household purposes (Amended and supplemented SG No. 6 of 16.01.2018);
- ORDINANCE № 12 of 18.06.2002 on the quality requirements for surface water intended for drinking and domestic water supply (Amended, SG No. 15 / 21.02.2012, in force as of 21.02.2012)



Legislative framework

Health Act and its implementing legislation:

- ORDINANCE № 3 of 16.10.2000 on the conditions and procedure for investigation, design, validation and operation of the sanitary protection zones around the water sources and the facilities for drinking water supply and around the water sources of mineral waters used for healing, prophylactic, drinking and hygienic needs (promulgated in State Gazette, issue 88 of 2000);
- ORDINANCE № 9 of 16.03.2001 on the quality of water intended for drinking and household purposes (Amended and supplemented SG No. 102 of 12.12.2014.);
- ORDINANCE № 12 of 18.06.2002 on the quality requirements for surface water intended for drinking and household water supply (Amended, SG No. 15 of 21.02.2012, in force as of 21.02.2012);



Legislative framework

Law on Territory Planning:

- ORDINANCE №2 of 22.03.2005 for the design, construction and operation of water supply systems;
- ORDINANCE № ПД-02-20-8 of 17.05.2013 for design, construction and operation of sewerage systems (Amended and supplemented, SG No. 99/30 November 2018);

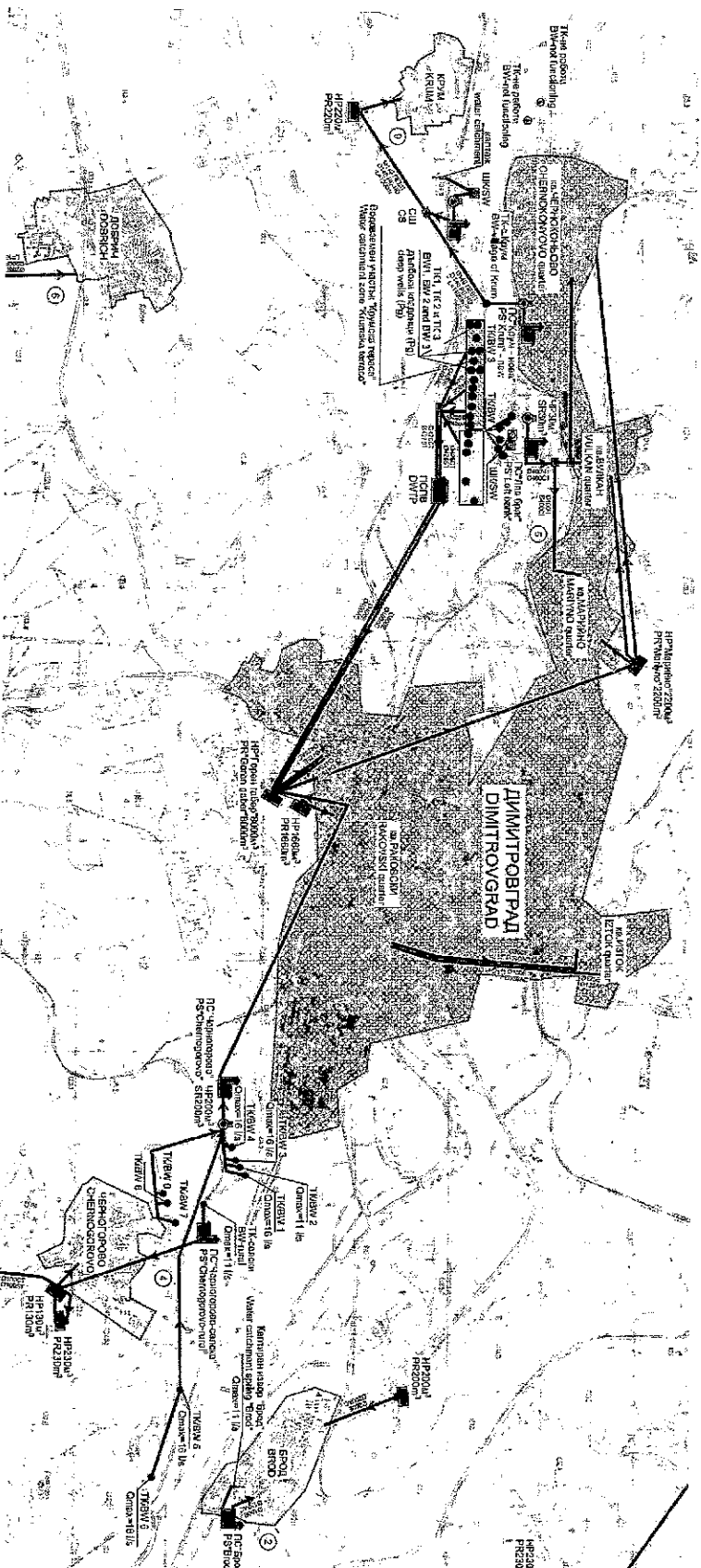


EU and National Legislation

EU DIRECTIVES		National legislation	
DIRECTIVE 2000/60 / EC of the European Parliament and of the Council of 23 October 2000 establishing a framework for Community action in the field of water policy		Water Act	
		Ordinance No. N-4 of 14.09.2012 on characterization of surface water	
		Ordinance No. 1 of 11.04.2011 on water monitoring	
		Ordinance No. 1 of 10.10.2007 on exploration, use and protection of underground water	
		Ordinance No. 9 of 16.03.2001 on the quality of water intended for drinking and household purposes	
COUNCIL DIRECTIVE 98/83 / EC of 3 November 1998 on the quality of water intended for human consumption		Ordinance No. 9 of 16.03.2001 on the quality of water intended for drinking and household purposes	
COUNCIL DIRECTIVE 2013/51 / Euratom of 22.10.2013 laying down requirements for the protection of the health of the general public with regard to radioactive substances in water intended for human consumption		Ordinance No. 9 of 16.03.2001 on the quality of water intended for drinking and household purposes	
DIRECTIVE 2006/118 / EC of the European Parliament and of the Council of 12.12.2006 on the protection of groundwater against pollution and deterioration		Ordinance No. 1 of 10.10.2007 on exploration, use and protection of groundwater	
COUNCIL DIRECTIVE 91/676 / EU of 12.12.1991 on the protection of waters against pollution caused by nitrates from agricultural sources		Ordinance No. 2 of 13.09.2007 on the protection of waters against pollution by nitrates from agricultural sources	
DIRECTIVE 75/440 / EU of 16 June 1975 on the quality required of surface water intended for the abstraction of drinking water in the Member States *		Ordinance No. 12 on the quality requirements for surface water intended for drinking and domestic water supply	
DIRECTIVE 79/869 / EU of 9 October 1979 on measuring methods and sampling frequencies and analysis of surface water intended for the abstraction of drinking water *		Ordinance No. 12 on the quality requirements for surface water intended for drinking and domestic water supply	
COUNCIL DIRECTIVE 80/68 / EU of 17.12.1979 on the conservation of wild birds	groundwater from pollution caused by certain dangerous substances (date of termination 21.12.2013). **	Ordinance No. 2 of 13.09.2007 on the protection of waters against pollution by nitrates from agricultural sources	
		Ordinance No. 3 of 16.10.2000 on the conditions and procedure for investigation, design, validation and operation of the sanitary-protection zones around the water sources and the facilities for drinking water supply and around the water sources of mineral waters used for healing, prophylactic, drinking and hygiene needs	
		Ordinance No. 2 of 08.06.2011 for the issuance of permits for discharge of waste waters into water bodies and determination of the individual emission limitations of point sources of pollution	



Water quality problems in Dimitrovgrad and relevant measures

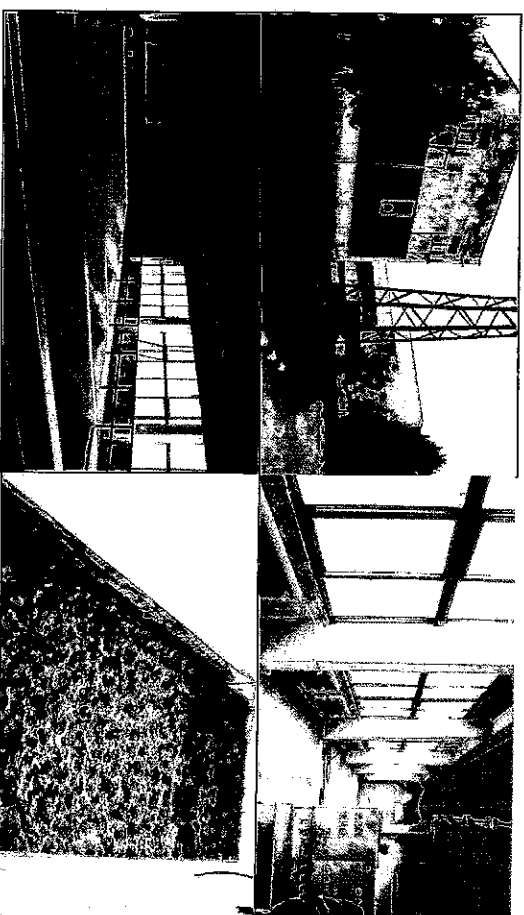


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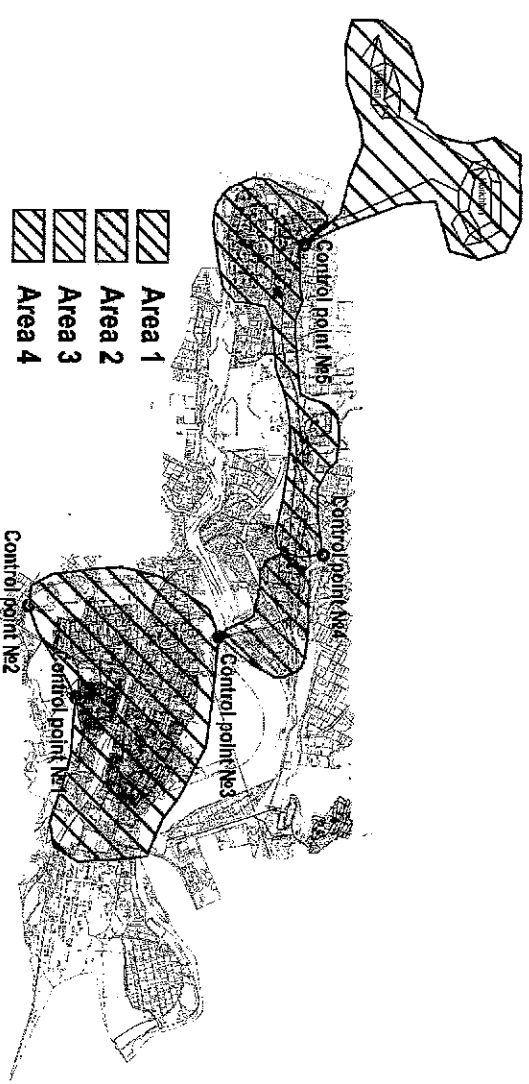
Water quality problems in Dimitrovgrad and relevant measures

- Presence of manganese in water sources is the main problem of water supply of Dimitrovgrad
- In 1994 Drinking Water Treatment Plant was put into operation to treat water from sources against manganese
- As a result of long-term supply of water with high concentration of manganese in pipes deposits of manganese have accumulated
- Under sensitive speed changes, so-called hydraulic impacts, particles of deposits are dissolved in water and there is a risk of an increase in manganese concentration above the normative value of 50 µg / l



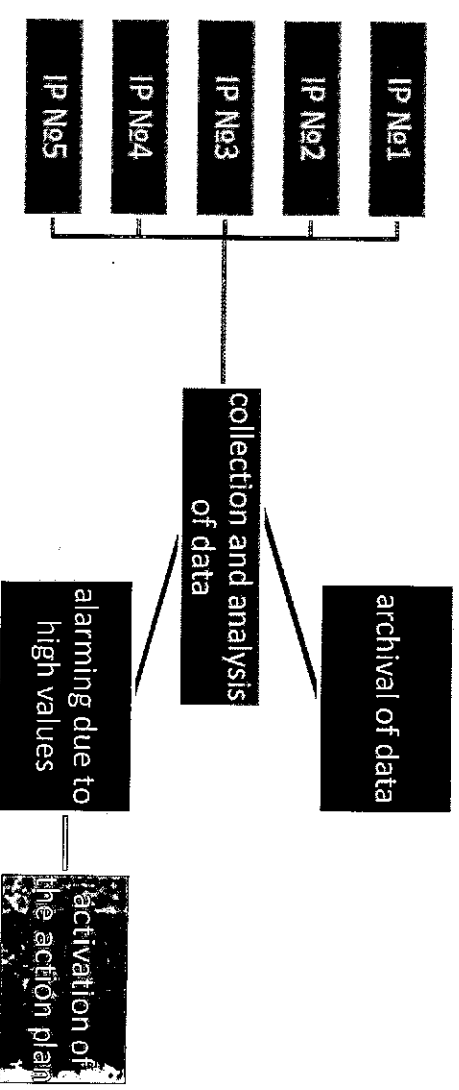
Water quality problems in Dimitrovgrad and relevant measures

- Separation of water supply network to 4 water supply zone
- Implementation of water quality monitoring at the entrance of each water supply zone
- Remote monitoring of data through web based SCADA system
- Implementation of a plan for signalization in case of an untypical change of some of the parameters



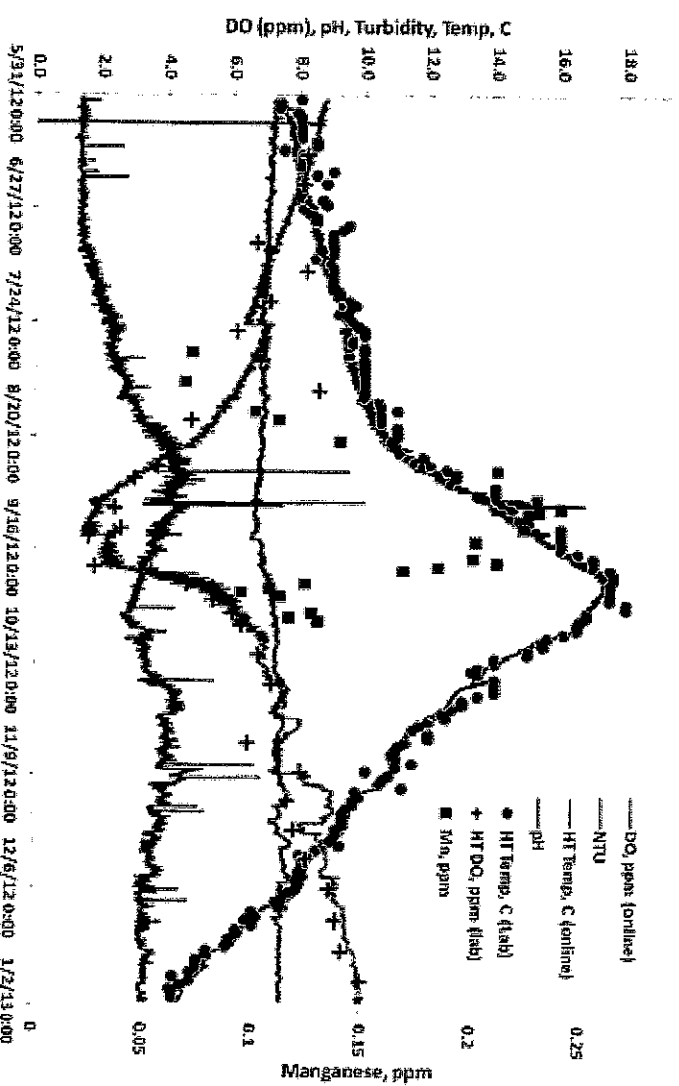
Water quality problems in Dimitrovgrad and relevant measures

- System for activation of an active plan in case of untypical data change
- Involvement of relevant responsible institutions
- Taking of relevant actions for protection of population



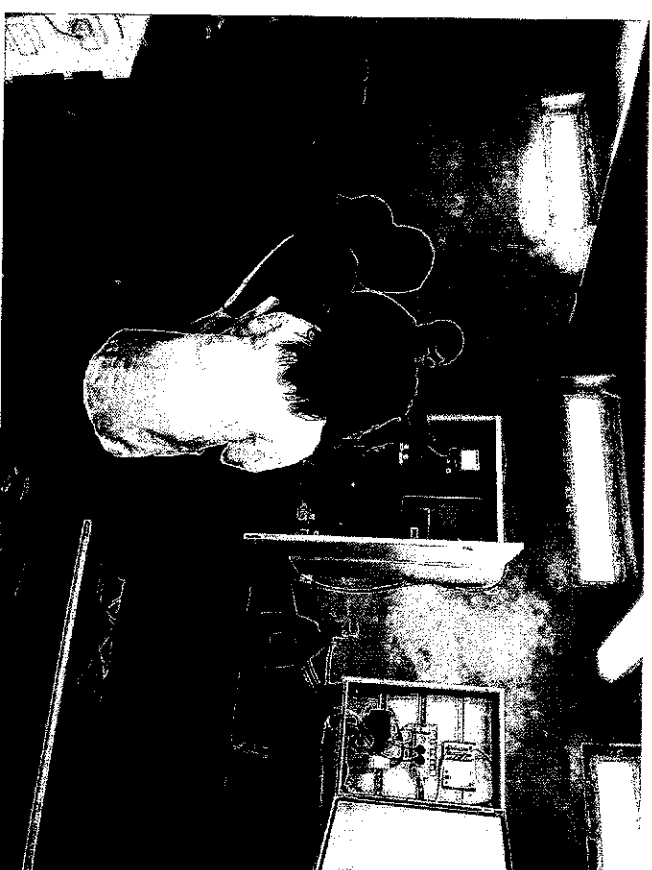
Water quality problems in Dimitrovgrad and relevant measures

- Physical monitoring of key water quality parameters – pH, ORP, residual chlorine
- Passive monitoring of manganese through
- Monitoring of key exploitation parameters – pressure and flow



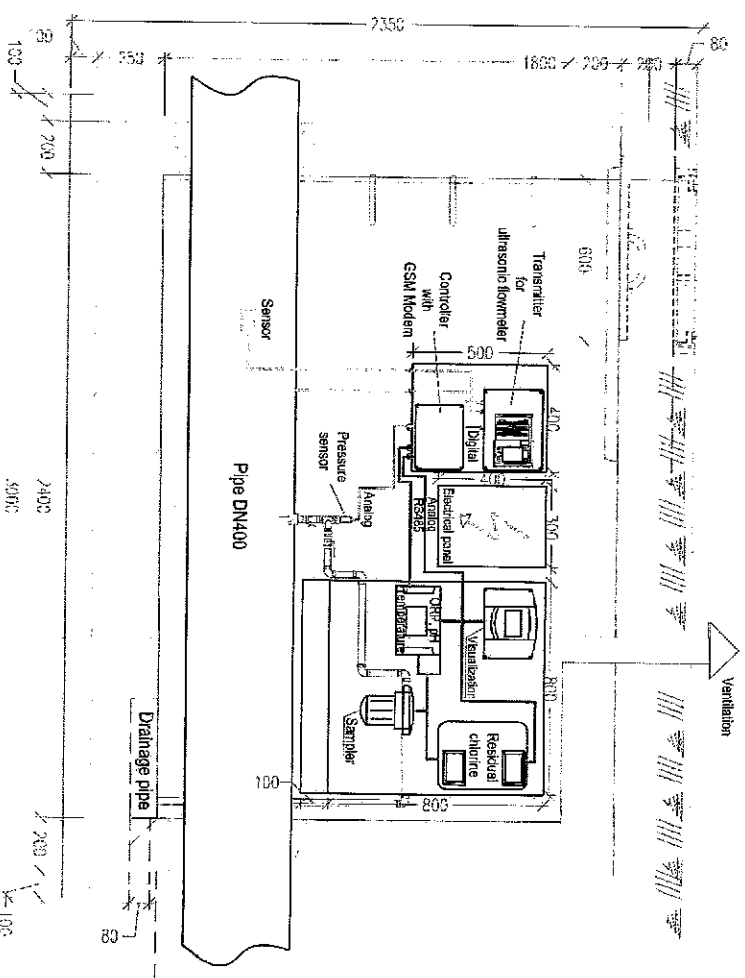
Water quality problems in Dimitrovgrad and relevant measures

- Physical monitoring of key water quality parameters – pH, ORP, residual chlorine
- Passive monitoring of manganese through
- Monitoring of key exploitation parameters – pressure and flow



Water quality problems in Dimitrovgrad and relevant measures

- Three types of measuring equipment with different controllers – ORP, pH and temperature; residual chlorine; flow and pressure
- Central controller with integrated GSM modem and direct communication with three measuring controllers
- Optimization of installation for lower consumption of water



Water quality problems in Dimitrovgrad and relevant measures

- Online centralized system for remote data monitoring provided by Schneider
- Historical trends in tabular and graphic format
- Open system with option for integration of all data in SCADA system of water Operator



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MINUTES

Training Seminar

Dimitrovgrad, 16 October 2019

Project Beneficiary 2 – the Municipality of Dimitrovgrad – organised and hosted a training seminar with the participation of local authorities' personnel, water management experts and consultants from Bulgaria and Greece. The Mayor of Dimitrovgrad Mr. Ivo Dimov welcomed the participants and underlined the expected role of Aqua-lity project's outputs for the improvement of the municipal water management in the municipality and the cooperation with the Municipality of Oraikastro in this field. Presentations named *Legislative framework, Responsible institutions, Water quality problems in Dimitrovgrad and relevant measures, Technological capabilities of the installed equipment at selected points for monitoring water quality and demonstration of specialized software for access and management of data from monitoring telemetric stations* were made. Every presentation was followed by a discussion and a question-and-answer session. At the end of the seminar, the participants visited Chernokonevo pumping station where was made a demonstration of the operation of one of the five telemetric monitoring stations that were recently mounted within the framework of the project.



















НАЧАЛО (/) НОВИНИ ([HTTP://WWW.DGNEWS.EU/NOVINI/LAST](http://www.dgnews.eu/novini/last)) ОБЩИНА ([HTTP://WWW.DGNEWS.EU/NOVINI/CATEGORY/10/OBSHINA](http://www.dgnews.eu/novini/category/10/obshina))
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Иво Димов: Димитровград ще бъде град с по-чиста вода и по-чист въздух!

≡ МЕСТНИ ИЗБОРИ 2019 (<http://www.dgnews.eu/novini/category/2/mestni-izbori-2019>)



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ДГНОВЕС (#)

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3 коментара (#comments)

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„Димитровград ще бъде град с по-чиста вода и по-чист въздух!“, заяви Иво Димов на българо-гръцка среща за подобряване качеството на питейната вода по проект „Прилагане на иновативни техники за подобряване качеството на питейната вода в градските области“ - AQUA-LITY. Проектът стартира по време на изтеклия му мандат като кмет на община Димитровград.

Участниците в срещата обсъдиха критериите и начините на работа на петте контролни телеметрични мониторингови станции, поставени по проекта и предстоящите дейности. Иво Димов сподели, че начало на тази инициатива са поставили група граждани, споделили пред него притесненията си за „отровна вода“. Това го провокирало да потърси варианти и да подсури необходимите мерки като проби и качество на водата, за да могат хората да се чувстват спокойни при употребата ѝ.

Пред участниците на срещата Иво Димов изрази радостта си, че проектът вече се реализира и благодарение на инсталираната в рамките му техника, която следи и измерва нивата на киселинност, остатъчен хлор и дебита на вода в различните зони, което по прецизно локализира наличието на течове и аварии.

Освен взетите мерки за подобряването качеството на водата в Димитровград, общината стартира и проект за подобряването качеството на въздуха в града, чрез който над 3000 домакинства ще могат да сменят печките си на дърва и въглища с нови отоплителни уреди. „Работя и ще продължа да работя за град с по-чиста вода и по-чист въздух, какъвто според мен гражданите на Димитровград трябва да имат“, каза кандидата на ПП ГЕРБ Иво Димов.

КУПУВАНЕТО И ПРОДАВАНЕТО НА ПЛАСОВЕ Е ПРЕСТЪПЛЕНИЕ!



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ПОСЛЕДНИ НОВИНИ ([HTTP://WWW.DGNEWS.EU/NOVINI/CATEGORY/ALL](http://www.dgnews.eu/novini/category/all))

Иво Димов: „Язак“ даде тласък за икономическо развитие на Димитровград и региона (<http://www.dgnews.eu/news/article/10227?Ivo-Dimov--%E2%80%9EYAzak%E2%80%9C-dade-tlasak-za-ikonomiche-sko-razviti-na-Dimitrovgrad-i-regiona>)

Концерт „С Димитровград в сърцата!“ в спортна зала тази вечер (<http://www.dgnews.eu/news/article/10226?Koncert-S-Dimitrovgrad-v-sarcata-v-sportna-zala-tazi-vecher>)

Три жени отнесоха актове за 800 къса безакцизни цигари (<http://www.dgnews.eu/news/article/10225?Tri-zheni-otnesoha-aktove-za-800-kasa-bezakcizni-cigari>)

8 медала завоюваха димитровградски каратисти на купа „Пловдив“ (<http://www.dgnews.eu/news/article/10224?8-medala-zavoyuvaha-dimitrovgradski-karatisti-na-kupa-%E2%80%9EPlovdiv%E2%80%9D>)

Търсят се работници и монтажници, едно място за висшист логопед (<http://www.dgnews.eu/news/article/10223?Tarsyat-se-robotnici-i-montazhnici--edno-myasto-za-visshist-logoped>)

Иво Димов към избирателите: „По работата ще ни познаете!“ (<http://www.dgnews.eu/news/article/10222?Ivo-Dimov-kam-izbiratelite--%E2%80%9CPo-robotata-she-ni-poznaete%E2%80%9C>)

Ансамбъл „Българе“ и Ивана в подкрепа на Иво Димов (<http://www.dgnews.eu/news/article/10221?D0%90nsambal-Balgare-i-Ivana-v-podkrepa-na-Ivo-Dimov>)

„Ситроен“ изгоря напълно между Ябълково и Сталево (<http://www.dgnews.eu/news/article/10220?%E2%80%9ESitroen%E2%80%9C-izgorya-napalno-mezhdu-YAbalkovo-i-Stalevo>)

Стоян ХРИСТОВ, кандидат за общински съветник: Всички имаме право на добри условия на живот (<http://www.dgnews.eu/news/article/10219?Stoyan-HRISTOV--kandidat-za-obshinski-savetnik--Vsichki-imame-pravo-na-dobri-usloviya-na-zhivot>)

Откриха дрога у 14-годишна, дете задигна телефон от такси (<http://www.dgnews.eu/news/article/10218?Otkriha-droga-u-14-godishna--dete-zadigna-telefon-ot-taksi>)

ВИДЕО