

# On implementation of environment protection measures in 2019

Izolyator Company recognizes its responsibility for the negative impact on the environment resulting from production activities, and recognizes the obligation to make environmental payments to the Federal budget and to carry out monitoring and development of measures to reduce the level of negative impact on ecological systems.

- In 2019, 2.287 million rubles were spent on environmental protection measures, of which:
- 1.5 million rubles spent on the disposal and processing of production and consumption waste at landfills;
  - 465 thousand rubles were spent on laboratory studies of the qualitative composition of drinking water and storm sewage, monitoring compliance with the maximum permissible concentrations of pollutants in the air and the maximum noise level at the enterprise's border;
  - 176 thousand rubles contributed as an environmental fee;
  - 146 thousand rubles payment for the negative impact on the environment.

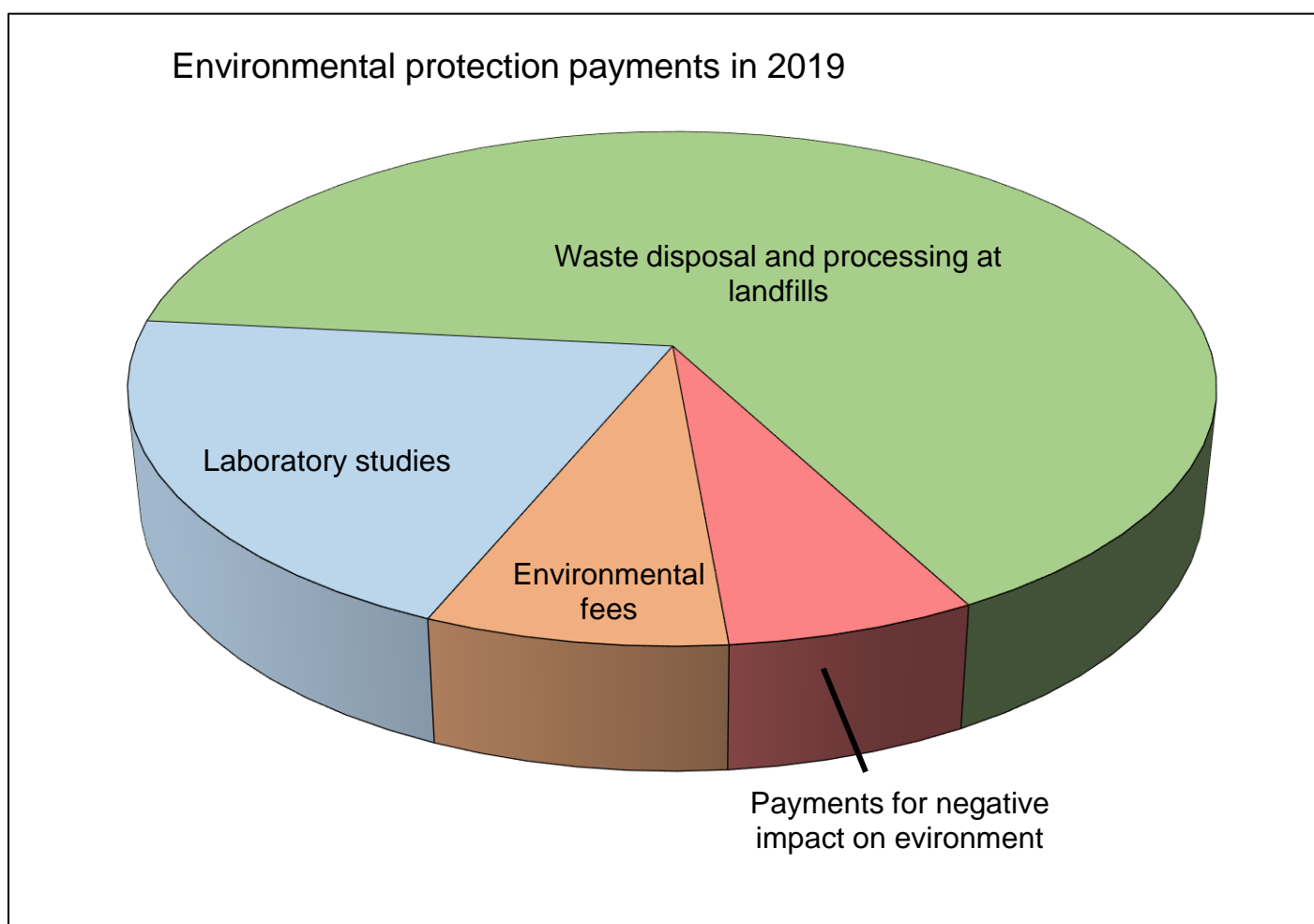


Fig.1

In compliance with the environmental legislation of the Russian Federation, the following measures were taken at the enterprise in 2019:

- an inventory of sources of emissions of pollutants was carried out, based on which the standards for permissible emissions of pollutants into the air were calculated;
- an inventory of pollutants entering water bodies from the treatment facilities of the enterprise was carried out, and draft standards of permissible discharge of pollutants into a water body were developed;

- an action plan was developed and agreed with the Ministry of Ecology and Nature Management of the Moscow Region and approved by the management of the enterprise to reduce emissions of harmful (polluting) substances into the air during periods of adverse meteorological conditions.

The results of studies of drinking and wastewater, atmospheric air and noise levels in the enterprise are given below.

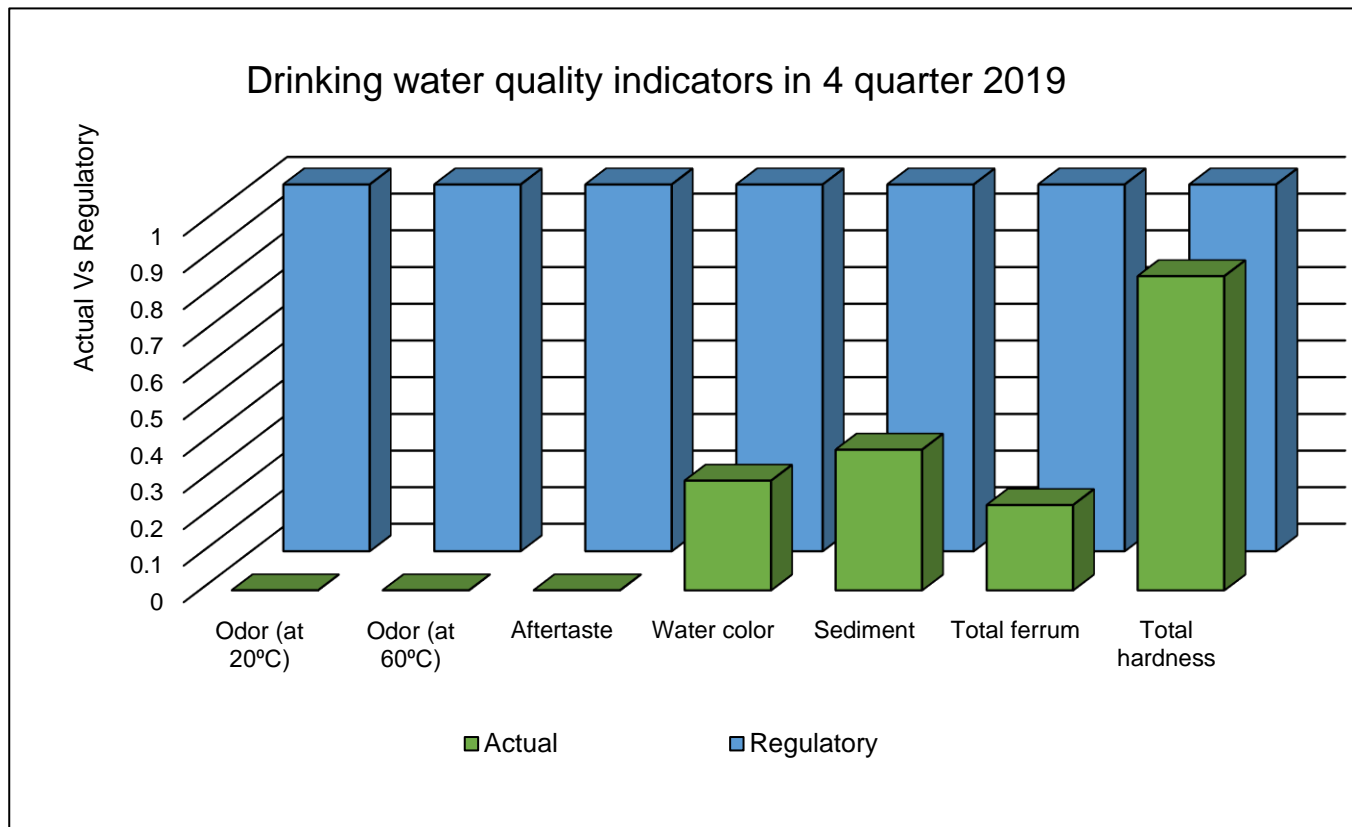


Fig. 2

Table 1

Study findings	Odor threshold at 20 °C, points	Odor threshold at 60 °C, points	Aftertaste, points	Water color index, degree	Sediment, FTU	Total ferrum, mg/dm <sup>3</sup>	Total hardness, dH
Normal values	2	2	2	20	2,6	0,3	7
Actual data	0	0	0	6	1	0,07	6

### Sewage water quality indicators (after treatment) in the 4 quarter 2019

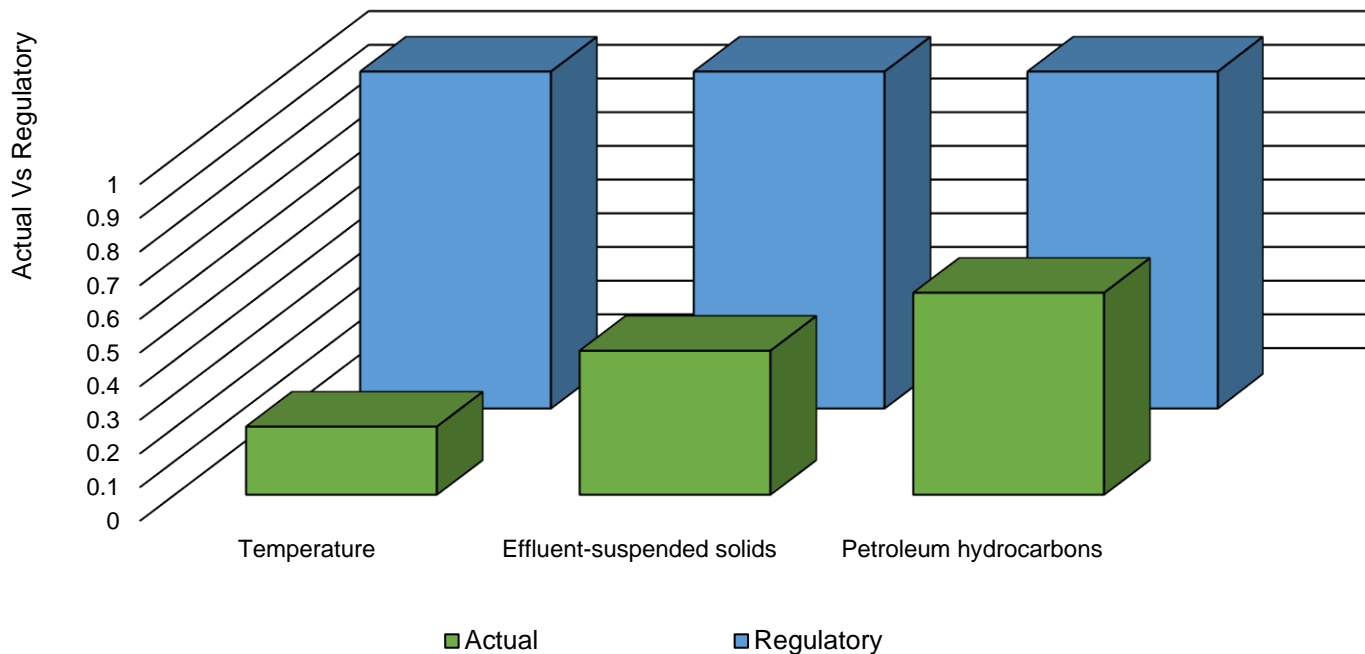


Fig. 3

Table 2

Study findings	Temperature, °C	Effluent-suspended solids mg/dm <sup>3</sup>	Oil and petroleum hydrocarbons, mg/dm <sup>3</sup>
Normal values	40	10,75	0,05
Actual values	8,1	4,6	0,03

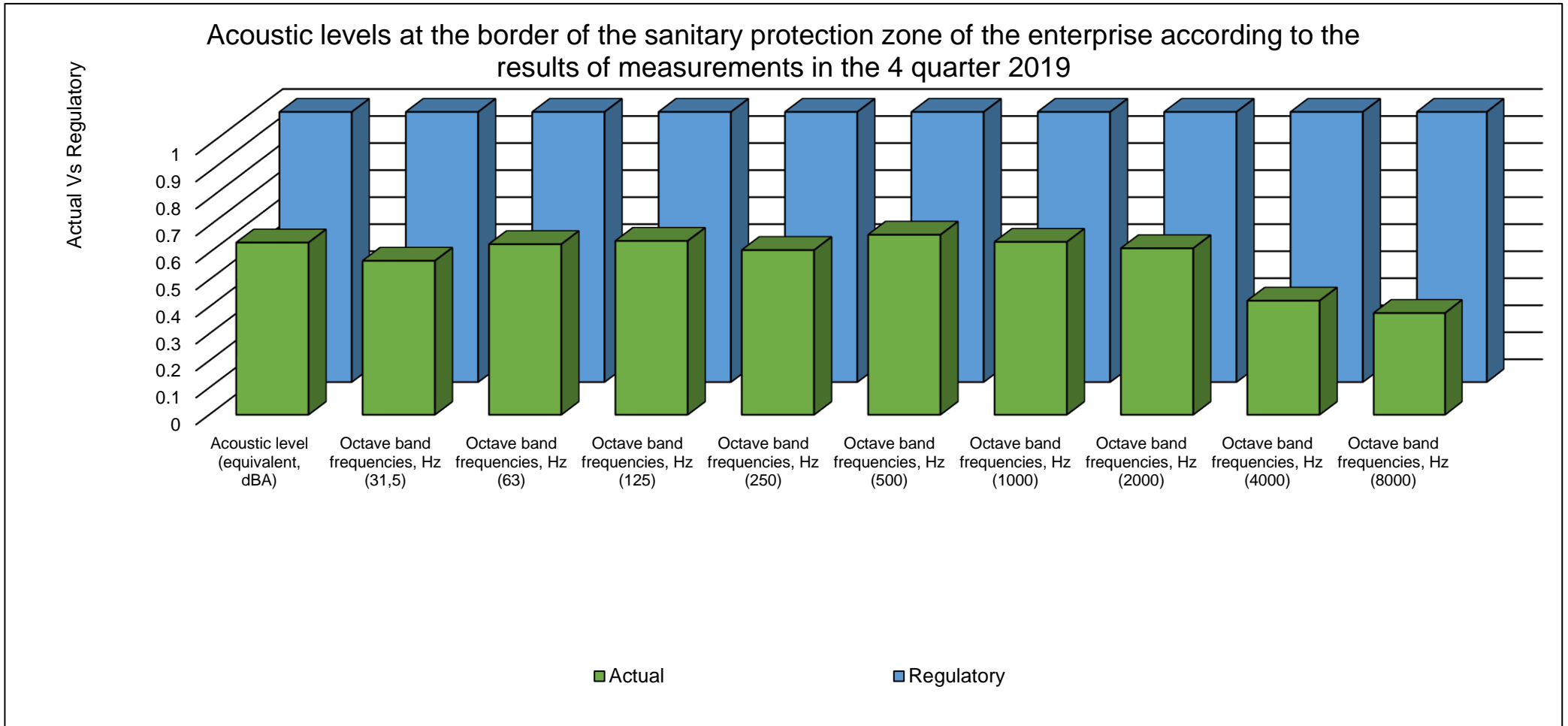


Fig. 4

Table 3

Study findings	Acoustic level (equivalent), dBA	Octave Band Center Frequencies, Hz								
		31,5	63	125	250	500	1000	2000	4000	8000
Regulatory indicators	80	107	95	87	82	78	75	73	71	69
Actual indicators	51	61	60	56	50	52	48	45	30	26

Outside air quality indicators at the border of the sanitary protection zone of the enterprise in 4 quarter 2019

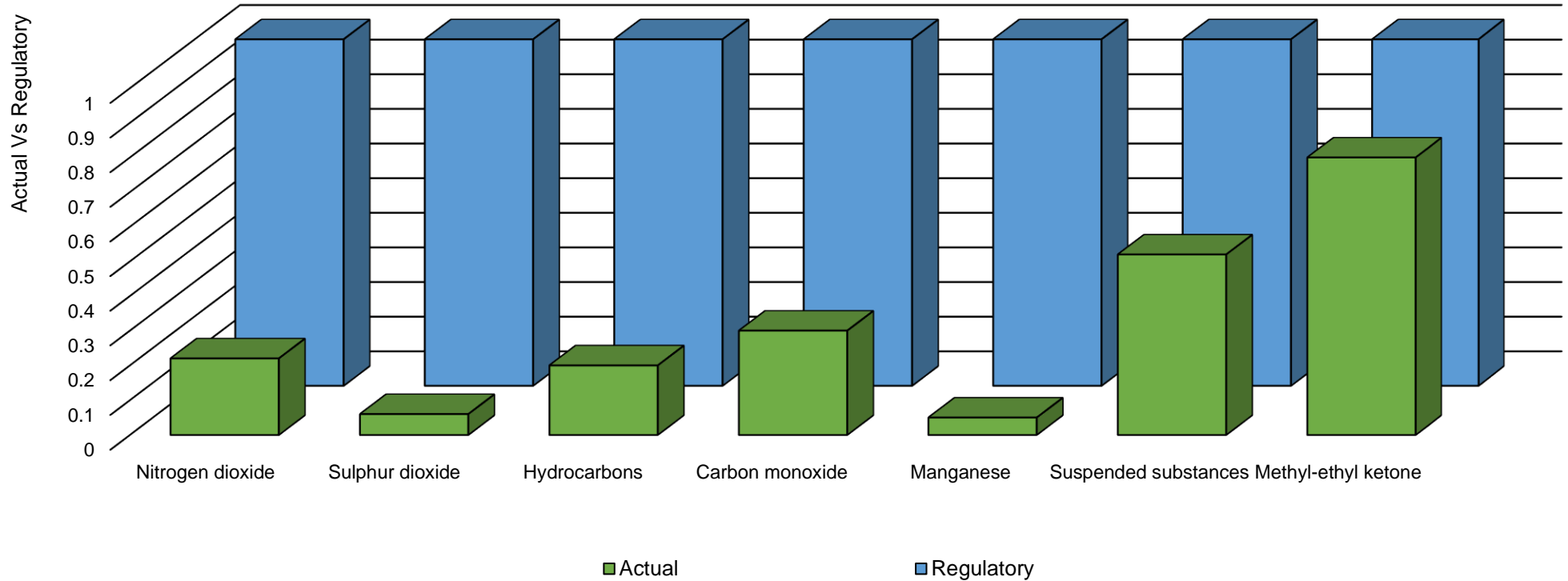


Fig. 5

Table 4

Study findings	Nitrogen dioxide	Sulphur dioxide	Hydrocarbons	Carbon monoxide	Manganese	Suspended substances	Methyl-ethyl ketone
Regulator indicators, mg/m <sup>3</sup>	0,2	0,5	5	5	0,001	0,5	0,1
Actual indicators, mg/m <sup>3</sup>	0,044	0,03	1	1,5	0,00005	0,26	0,08