



Permanent Mission of Ukraine
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The Permanent Mission of Ukraine to the United Nations Office and other International Organizations in Geneva presents its compliments to the Implementation Support Unit of the Convention on the Prohibition of the Use, Stockpiling, Production and Transfer of Anti-Personnel Mines and on Their Destruction and has the honour to submit the Work Plan for Humanitarian Demining of De-occupied Territories of Ukraine for 2024 in accordance with the Decision of the 21MSP on the request submitted by Ukraine for an extension of the deadline for completing the destruction of anti-personnel mines in accordance with Article 5 of the Convention.

The Permanent Mission of Ukraine avails itself of this opportunity to renew to the Implementation Support Unit of the Convention on the Prohibition of the Use, Stockpiling, Production and Transfer of Anti-Personnel Mines and on Their Destruction the assurances of its highest consideration.

Enclosure: 15 pages and 4 Tables



Geneva, 30 April 2024

Chair of the Committee on Article 5 Implementation
Implementation Support Unit
Anti-Personnel Mine Ban Convention

**The Work Plan for Humanitarian Demining
of De-occupied Territories of Ukraine for 2024
(hereinafter referred to as - the Work Plan)
(With annual updates to the plan until 2032)**

1. This Work Plan, which was approved at the meeting of the National Authority on Mine Action on December 22, 2023, outlines the humanitarian demining activities planned for 2024.

The Plan is subject to annual updates until 2032, aiming to ensure the most effective fulfillment of Ukraine's obligations under the Article 5 of the Convention on the Prohibition of the Use, Stockpiling, Production, and Transfer of Anti-Personnel Mines and on their Destruction (hereinafter referred to as the Ottawa Convention) during the extended period of these obligations.

2. The Work Plan aims to achieve the following results:

- a) To reduce the risks posed by explosive ordnance to a level that is safe for the life and health of the population, thereby enabling the economic utilization of the natural resources from cleared territories.
- b) To minimize and prevent accidents from unauthorized handling of explosive ordnance.
- c) To reduce social tensions among populations residing in or near areas contaminated with explosive ordnance.

3. The main tasks to achieve the abovementioned results are defined in the following directions:

- a) Preparation for the demining of contaminated territories.
- b) Conducting humanitarian demining of the landscape and objects in the liberated territories of Ukraine.
- c) Quality control of the cleared territories.

4. The activities outlined in the Work Plan will be implemented in accordance with the Procedure for Carrying Out Humanitarian Demining of Liberated Territories of Ukraine, which defines the following:

- a) **General rules for conducting humanitarian demining.**

1) Only the executors of measures in the field of mine action that have acquired the status of mine action operators, both non-governmental and governmental, are allowed to implement the measures of the Work Plan.

2) Non-technical/technical surveys and clearance (cleaning) are conducted only in the areas beyond military locations and engineering barriers, and all operations must be coordinated with the military command. Access to perform non-technical/technical surveys and clearance within 20 km of the actual front line and state **border is prohibited**.

3) The military command has the authority to unilaterally **prohibit** the operations in certain areas if the security situation deteriorates or during actions to counter Russian aggression.

4) The destruction of explosive ordnance, identified by mine action operators, is carried out by demining groups of the Armed Forces of Ukraine, the State Special Transport Service, and pyrotechnic work groups from the State Emergency Service.

5) After completing the formation and certification as a mine action operator by the authorized unit of the State Special Transport Service, and upon registration of mine action operators by institutions and organizations, the Ministry of Defense (through the Mine Action Center) redistributes tasks related to non-technical surveys and clearance.

6) Reporting by mine action operators and their interaction with the National Authority on Mine Action is managed through the Mine Action Center and the Secretariat of the National Authority.

7) The mine action operator (authorized unit) that has identified potentially contaminated/contaminated territories is responsible for establishing, maintaining, servicing, and restoring the marking system.

8) When identifying the borders of potentially contaminated/contaminated territories, it is prohibited to cross the other such territories. If necessary, the re-registration of potentially contaminated/contaminated territories should be carried out. When new potentially contaminated/contaminated territories are identified by multiple organizations, the Ministry of Defense decides on further actions. These decisions consider the resources available to mine action operators and the situation around the territory (except for areas designated for demining by units of the Armed Forces, the State Special Transport Service, and the State Emergency Service).

9) Decisions on the redistribution of clearance tasks of potentially contaminated/contaminated territories and the determination of the mine action operator to carry out further humanitarian demining activities are made by the Ministry of Defense (in agreement with the State Emergency Service and military command as needed), **based on:**

- An application from the mine action operator;
- The lack of sufficient resources for the mine action operator to perform the tasks (except for authorized units of central executive bodies);
- Registration of a new mine action operator;
- Changes in the situation and security conditions in the areas defined in the Plan, and considering other factors that may affect task execution.

Note: *The specified Procedure for Carrying Out Humanitarian Demining of Liberated Territories of Ukraine applies equally to all legal entities that have obtained the status of mine action operators.*

b) Procedure for Conducting Initial Non-Technical Survey (NTS) of Territorial Communities

The Mine Action Center (MAC) assigns a mine action operator (MAO) a territory for conducting NTS tied to the smallest administrative-territorial unit — a territorial community with a clearly defined geographical perimeter. After conducting NTS at the level of the minimum administrative-territorial unit - territorial community, the MAO, in accordance with the State Standard of Ukraine (SSU) 8820, submits a report on the completion of NTS to the MAC or the Center for Humanitarian Demining (CHD) with the fixation of the following criterias:

- All populated areas within the community, within the defined geographical perimeter, were surveyed during the NTS.
- All potential key informants were interviewed for evidence of possible contamination.
- All accident sites within the community were processed according to the State Mine Action Information System (SMAIS) and other sources during the NTS.
- All existing requests/applications from the MAC (CHD) (local administration/additional information sources identified by the MAC (CHD) in the territory of the community were processed.
- Reports of identified Suspected Hazardous Areas (SHAs) / Hazardous Areas (HAs) within the community were formed, entered into the SMAIS, and validated by the MAC.
- All territories with reported potential contamination were visited during the NTS.
- All identified SHAs/HAs were marked on the ground to reduce the risk of local population entering dangerous areas.
- Local authorities were informed about the NTS conducted in the community and its results.

The compliance with these criteria confirms that the MAO in the specified community has completed all actions during the NTS as of the report date, and the initial NTS (within the territory of the populated area with a clearly defined geographical

perimeter) is considered completed on the date of the report. The report is provided in electronic form through the SMAIS and is duplicated in paper form signed by the head of the MAO responsible for conducting the NTS.

The report format is determined by the MAC (CHD) and agreed upon by the Secretariat of the National Mine Action Authority (NMAA).

Along with the report, the MAO provides information on the total area of the community (within the territory of the populated area with a clearly defined geographical perimeter), the total area of identified SHAs/HAs, and the difference in these values. The difference between the specified values is considered to be the area of the community's territories (within the territory with a clearly defined geographical perimeter) that contains no evidence of explosive ordnance contamination.

After verification of the reports, the MAC informs the NMAA Secretariat and the relevant territorial community about the completion of the initial NTS and monitors the communities (limits of populated areas, limits of territories with clearly defined geographical perimeters) where the initial NTS has been completed.

In the case of updating analytical data on explosive ordnance incidents among the population (other than violations of security measures) or in case of the concentration of operational calls for discovered explosive ordnance at a specific location, the MAC may assign NTS tasks to specific sections or specific populated areas.

The MAC determines the conduct of repeated NTS by the resources of another MAO, in case of detection of a concentration of unexploded ordnance, leftover ammunition within 100 square meters, groups of mines, or minefields within the community (within the limits of populated areas, within the limits of territories with clearly defined geographical perimeters) under monitoring.

c) Procedure for Conducting Repeated Non-Technical Survey

A repeated NTS is carried out when updated information about the dangers associated with explosive ordnance or the absence of such dangers on a previously identified section of territory is received.

The repeated NTS is conducted by the MAO in agreement with the MAC to clear previously identified SHAs/HAs without carrying out technical survey (TS) processes, demining, or clearance of combat operation areas (COAs), based on updated analytical or technical information (including using unmanned systems) about the absence of evidence (direct and indirect) of explosive ordnance according to the national standard SSU 8820:2023.

d) Procedure for Authorizing Operators to Conduct Humanitarian Demining Activities

1) Following the evaluation process (certification) by an accredited conformity assessment body, within 7 days, the MAO is listed by the NMAA Secretariat and gains access to the information management system.

2) Simultaneously, the MAO informs the MAC in writing about readiness to perform

tasks according to certified MAO processes. In this letter, the MAO provides information about available human resources, equipment, and logistical capabilities.

3) The MAC, within no later than 3 days, analyzes the information received from the MAO and allocates populated areas and potentially contaminated/contaminated sections, about which it informs the NMAA Secretariat and the MAO (after coordination with the NMAA Secretariat).

4) The MAO confirms readiness to start work on assigned tasks, informing the MAC by providing a written notice specifying a clear list of locations for activities, a nominal list of personnel, a list of equipment and machinery to be involved, and the methods of task execution.

5) Within no later than 3 days from receiving the notice from the MAO, the MAC prepares a directive for the MAO, specifying the interaction procedure with the MAC, regional military administrations (RMAs), and combined territorial communities (CTCs), geographical information regarding the location of the task, terms, reporting procedures, and the procedure for informing about problematic issues.

After the directive is signed, the MAC informs the NMAA Secretariat about the start of the MAO's operations, particularly through the information management system.

6) After receiving the order from the MAC, the MAO organizes interaction with the relevant RMA within 1-2 days (in particular, through operational groups for the coordination of MAO activities) and receives passes, if necessary. Local authorities, considering the tasks defined by the MAC, assist MAO operators in performing the tasks assigned to them, taking into account the restrictions related to countering Russian aggression. The MAO informs the MAC about the organization of interaction.

7) If the situation at the task execution location changes, leading to a suspension of tasks (conducting infrastructure restoration works, countering Russian aggression activities, adverse climatic conditions, etc.), the operator immediately informs the MAC.

The overall duration from the moment the MAO is listed among the operators to the start of task execution by the MAO should not exceed 10 days.

e) Conducting Awareness Activities on the Dangers from Explosive Ordnance and Training on Risk Prevention by Mine Action Operators

Awareness activities on the dangers from explosive ordnance and training on risk prevention related to such items, carried out by MAO operators, are planned and controlled by the MAC through the appropriate unit designated to ensure the conduct of public awareness about the risks associated with explosive ordnance.

Planning takes into account the locations of humanitarian demining activities by MAO operators, the presence of explosive ordnance incidents among the civilian population in the task execution areas.

The MAC, through the appropriate unit designated to ensure the conduct of public awareness about the risks associated with explosive ordnance, coordinates with MAO operators the locations of activities on the dangers from explosive ordnance and training on risk prevention related to explosive ordnance, methods, and target audience.

MAO operators provide weekly reports on conducted awareness activities and training on risks through the information management system. The validation (verification) of data in the reports is performed by the MAC through the appropriate unit designated to ensure the conduct of public awareness about the risks associated with explosive ordnance.

Awareness activities on the dangers from explosive ordnance and training on risk prevention related to such items can be conducted by MAO operators within 20 km of the actual front line and state border, with the agreement of the relevant RMA, considering the security situation, about which the MAC is informed. The acceptability of potential risks for employees is determined by the operator independently.

f) External Quality Control of Demining

External quality control is carried out by accredited conformity assessment bodies.

The MAC, considering the applications from MAO operators, distributes such applications among conformity assessment bodies (with their agreement), about which it informs the NMAA Secretariat.

The list of tasks for clearing potentially contaminated/contaminated territories of Ukraine for conducting external quality control (inspection) of task completion for clearing territories from explosive ordnance can be expanded in case of completion of non-technical/technical surveys and humanitarian demining from clearing potentially contaminated/contaminated territories, as specified in the appendices to the Plan.

g) Monitoring the Compliance of Mine Action Operators with Certification Requirements

Monitoring the compliance of an MAO with certification requirements is carried out by certification bodies according to the requirements of accreditation legislation and relevant national standards by:

- Obtaining information on the compliance of such MAO with certification requirements;
- Control (in the form of surveys and inspections) of work sites, production premises, documentation, processes, procedures, personnel qualifications, and equipment of certified MAO operators involved in performing mine action activities.

Monitoring the compliance of MAO is planned by the MAC in interaction with other certification bodies (conformity assessment) and is coordinated with the NMAA Secretariat.

Planning of monitoring is carried out by the MAC for the period April-October and is specified monthly, taking into account MAO operators that perform humanitarian demining activities as of the monitoring month.

h) Marking Potentially Contaminated Territories /Contaminated Territories (PCT/CT)

Initially, PCT/CT are marked where there are direct and indirect evidences of mines and cluster munition remnants. Marking requirements are mandatory for all MAO operators. Marking is conducted according to the Rules for Marking Dangers Associated with Mines and Explosive Ordnance - War Consequences, approved by the Resolution of the Cabinet of Ministers of Ukraine dated April 17, 2019, No. 372, and the national standard SSU 8820:2023.

RMAs inform the MAC about the need for marking identified SHAs/ZTs by MAO operators.

i) Reporting

Reporting by MAO operators is carried out through the information management system according to the forms established by the MAC.

The MAC conducts validation (verification) of reports and visualizes data in accordance with requests provided by the NMAA Secretariat.

A summary of information regarding the conduct of non-technical and technical surveys, demining/clearing of territories, external quality control (inspection) of task completion for clearing territories from explosive ordnance, and reports on the completion of humanitarian demining activities are provided by the MAC to the NMAA Secretariat monthly by the 7th day of the month following the reporting month.

5. Regulatory Acts Governing the Organization of Humanitarian Demining Activities in De-occupied Territories of Ukraine

- a) Law of Ukraine "On Mine Action in Ukraine";
- b) Law of Ukraine "On the Legal Regime of Martial Law";
- c) Resolution of the Cabinet of Ministers of Ukraine dated November 10, 2021, No. 1207 "On the Establishment of the National Mine Action Authority";
- d) Resolution of the Cabinet of Ministers of Ukraine dated November 3, 2021, No. 1150 "On the Approval of the Procedure for Registration of Mine Action Operators";
- e) Resolution of the Cabinet of Ministers of Ukraine dated April 17, 2019, No. 372 "On the Approval of the Rules for Marking Dangers Associated with Mines and Explosive Ordnance - War Consequences";
- f) SSU 8820:2023 "Mine Action. Management Processes. Basic Provisions";
- g) International Mine Action Standards (IMAS).

Completed forms established by the general recommendations of the Implementation Support Group of the Ottawa Convention on the development of a draft work plan for the implementation of Article 5 of the Ottawa Convention are attached.

Attachments:

Table 1. Progress made in the implementation of the Ottawa Convention from January 1 to December 31, 2023 (at the district/regional level);

Table 2. Remaining areas with suspected/confirmed contamination by anti-personnel mines (APMs) (at the district/regional level);

Table 3. Details of remaining areas with suspected/confirmed contamination by APMs and the estimated date of completion of work on these areas;

Table 4. General forecasts regarding the number and area of sites (in m²) with suspected/confirmed contamination by APMs, which will be released during the implementation period of the Work Plan.

Annual plan for informing the population about mine hazards for 2024

	Name of the event	Type of the event	Date of implementation	Responsible body
1	<p>Ukrainian communication campaign on awareness of the risks of explosive objects (together with UNDP, BBC Media Action).</p> <p>As part of the communication campaign, content is prepared for various platforms:</p> <ul style="list-style-type: none"> - boards / posters / visuals of social advertising regarding the rules of safe behavior when detecting explosive objects; - publications in the media and on the pages of the State Emergency Service of Ukraine in social networks; - creation of audio and video clips of social advertising for placement in the media; - preparation and implementation of the course "Mine safety" with placement on the «Diya platform“Osvita”» 	Ukrainian communication campaign	May - August 2024	State Emergency Service of Ukraine
2	<p>Implementation of the "Mine Safety" project together with Unicef Ukraine:</p> <ul style="list-style-type: none"> - creation of a mobile mine safety game for children; - creation of a web portal for parents and children, which includes issues of mine safety; - printing and equipping 450 safety classes with UNICEF Ukraine printing materials (mine safety materials); - printing and distribution of mine safety posters for children and parents, distributing them in the de-occupied territories and near-front areas; - a brochure for adults "A concise guide for parents. Mine safety: what your child should know and how to tell him about it"; - an online course for rescuers, police officers and educators on the Bezpeka info site "How to teach children mine safety" Implementation of the project "Mine safety" 		During 2024	State Emergency Service of Ukraine
3	Carrying out the information campaign "Caution: MINES!"	Implementation of the	During 2024	Ministry of Reintegration

		information campaign		
4	Transmission of text appeals to the population regarding safety measures and rules of conduct when detecting explosive objects through radio nodes of objects with a mass presence of people	Broadcasting of audio files	During 2024	State Emergency Service of Ukraine, Ministry of Defense, National Police, Ministry of Reintegration, local state administrations (military administrations), local government bodies, business entities
5	Development (production) and distribution of printed materials on mine safety in places of mass presence of people, printed media.	Creation of thematic stands, distribution of information and educational brochures, monuments	During 2024	State Emergency Service of Ukraine, Ministry of Reintegration, Ministry of Defense, Ministry of Education and Science, Ministry of Culture and Information Policy of Ukraine, National Police, Mine action center, center for humanitarian demining, Mine operators, local state administrations

				(military administrations) local government bodies business entities (by consent)
6	National, regional and local television channels broadcasting, radio stations broadcasting on safety measures and rules of conduct when detecting explosive objects, social advertising	Preparation of files and airing	During 2024	State Emergency Service of Ukraine, Ministry of Culture and Information Policy of Ukraine, Ministry of Reintegration, humanitarian demining center, National Council for Television and Radio Broadcasting, local state administrations (military administrations) local government bodies
7	Circulation of information on departmental media, Internet resources, social media pages regarding: - mine danger; - online courses for children and adults on mine safety; - informational announcements on conducting exercises in the field of detection, disposal, disposal of explosive objects.	Preparation of information for websites, social networks	During 2024	Ministry of Reintegration, Ministry of Culture and Information Policy of Ukraine, Ministry of Defense, Ministry of Internal Affairs, Ministry of Education and Science,

				State Emergency Service, Mine action center, humanitarian demining center, mine action operators local state administrations (military administrations) local government bodies, business entities (with consent)
8	<p>Conducting informative discussions with children, teenagers and adults regarding safety measures and rules of conduct in case of detection of explosive objects with the involvement of Mobile Safety Classes (mine safety):</p> <ul style="list-style-type: none"> - conducting excursions for students of general educational institutions to the divisions of the Main Directorate of the State Emergency Service of Ukraine with explanatory information on the rules of behavior when explosive objects are detected; - provision of thematic classes on safety measures and rules of conduct in case of detection of explosive objects in preschool, secondary and higher educational institutions; - preventive work during the summer holidays in children's health facilities and pre-school camps; - providing Life Safety Knowledge Weeks in schools, institutes, vocational and higher education institutions. 	Organization of the events, educational work	During 2024	Ministry of Education and Science, State Emergency Service, National Police, Mine action center, humanitarian demining center, mine action operators
9	Updating the content of programs for educational institutions "Protection of Ukraine", in particular in the area of mine protection	Update of educational programs	September 2024	Ministry of Education and Science

10	Approval of State Educational Standards for specific professions	Approval of educational standards	December 2024	Ministry of Education and Science
11	Organization of educational presentations on the development of stress resistance skills as part of workshops on providing psychological first aid in emergency situations: - meetings, briefings, press conferences; - special thematic telephone "hot lines"	Psychological assistance	During 2024	State Emergency Service of Ukraine, Ministry of Health
12	Informing population through SMS notifications (for subscribers of mobile operators) about the need to comply with the rules on handling with explosive objects	messages notifications	Every month	Ministry of Reintegration
13	Interaction and cooperation with Ukrainian and foreign humanitarian public organizations, foundations on the issue of informing the population about the threats posed by various explosive objects	Interaction with non-governmental organizations	On permanent basis	Ministry of Defense , State Emergency Service of Ukraine, Ministry of Internal Affairs, humanitarian demining center, mine action operators, Ministry of Culture and Information Policy of Ukraine, Ministry of Reintegration, Ministry of Education and Science, local state administrations (military

				administrations) local government bodies, business entities (with consent)
14	Free access for population to information about territories contaminated by mines and explosive objects, implementation of humanitarian demining measures, maintaining an interactive map "Information about dangers from explosive objects and risk prevention training" which is posted at the official website of the Ministry of Defense of Ukraine and the State Emergency Service of Ukraine (IMSMA information management system)	Maintaining of the interactive map of the territories contaminated by mines and explosive objects	On permanent basis	Ministry of Defense, Mine action center, State Emergency Service of Ukraine, National body for mine action, humanitarian demining center mine action operators
15	Preparing informational resources for the population on contamination of the territory by explosive objects, on risks associated with explosive objects in the territories where the active phases of hostilities have been completed: - informing the population about the systems for marking dangerous areas established in the respective territories and the measures taken to avoid danger to the population; - prevention of accidents at the locations of detection of explosive objects; - monitoring the condition of the established systems for marking dangerous areas and their maintenance, informing the mine action center and the center for humanitarian demining about cases of their damage, destruction, theft or other cases that prevent further effective use of such systems	Preparing information about the installed systems for marking of dangerous areas	On permanent basis	Local state administrations (military administrations) local governments Mine action center, center for humanitarian demining, mine operators
16	Marking of dangerous areas of the territories, infrastructure facilities and other areas in the de-occupied territories of Ukraine	Marking territories	On permanent basis starting from the date of the end of the	Ministry of Defense, State Emergency Service of Ukraine, National Police, mine action operators

			temporary occupation	Mine action center, humanitarian demining center, local state administrations (military administrations) local governments, business entities
17	Ensuring that the population is informed about the potentially contaminated areas that may pose a risk of explosive objects, marking the territories	Transmission of warning (marking) signs on mine danger to communities where contamination by explosive objects was confirmed	On permanent basis starting from the date of the end of the temporary occupation	Ministry of Reintegration, local state administrations (military administrations), local self-government bodies, business entities

Table 1. Progress made in the implementation of the Ottawa Convention from January 1 to December 31, 2023 (at the district/region level)									
Region	District	Area of canceled plots (in square meters)	Area of reduced plots (in square meters)	Area of cleared areas (in square meters)	Area of freed plots (in square meters)	Number of neutralized APM	Type of APM	The number of other neutralized Explosive objects	The number of freed plots
Kyivska	Brovarskiyi		1098	93898	944996				5
Kyivska	Buchanskyi		3177	46865	50042			3	1
Mykolaivskiyi	Bashtanskyi			44034	44034	1		198	3
Total			44275	184797	1039072	1		201	9

Table 2. The rest of the areas with probable / confirmed PPM contamination (at the district / region level)

Region	District	The number of sites with confirmed APM contamination	The number of areas with probable contamination of APM	The total number of sites with probable / confirmed APM contamination	Total area of sites with confirmed APM contamination (sq. m)	Total area of areas with probable APM contamination (sq. m)	Total area of sites with probable/confirmed APM contamination (sq. m)
Dnipropetrovska	Kryvorigskiyi	4		4	254306.4		254306.4
Kyivska	Brovarskiyi	2		2	20950		20950
Kyivska	Buchanskyyi	7		7	91134.9		91134.9
Kyivska	Vyshgorodskiyi	5		5	100577.1		100577.1
Mykolaivska	Bashtanskyyi	49	4	53	1866626.4	335370.9	2201997.3
Mykolaivska	Mykolaivskyyi	74	5	79	4229267.6	360029.6	4589297.2
Sumska	Konotopskyyi	1		1	9978		9978
Sumska	Ohtyrskyyi	17	6	23	379562.9	180041.9	559604.8
Kharkivska	Izumskyyi	83	88	171	5968564.6	9904005.1	15872569.7
Kharkivska	Kupyanskyyi	8		8	689648.9		689648.9
Kharkivska	Kharkovskyyi	8	1	9	1536583.4	1117.3	1537700.7
Kharkivska	Chuguevskyyi	86	4	90	2662413.9	68119.5	2730533.4
Khersonska	Berislavskyyi	48	4	52	4895622	446215.2	5341837.2
Khersonska	Khersonskyyi	1	1	2	19687.2	353416.1	373103.3
Chernihivska	Nigynskyyi	6		6	97012		97012
Chernihivska	Prylutskyi	1	1	2	368542.6	212733.2	581275.8
Chernihivska	Chernihivskyyi	8	2	10	153968	16875.8	170843.8
Total		408	116	524	23344445.9	11877924.6	35222370.5

Table 3. Details of the remaining areas with probable / confirmed APM contamination and the estimated date of completion of works on these areas

Region	District	Longitude	Latitude	Area of the site with confirmed APM contamination (in square meters)	Area of the site with probable APM contamination (in square meters)	Type and number of APM	Approximate period when the mines were laid	Approximate year of completion of works on the site
Dnipropetrovska	Kryvorizskiy	47.545245	33.4307175	50575				
Dnipropetrovska	Kryvorizskiy	47.54470975	33.777775	61318				
Dnipropetrovska	Kryvorizskiy	47.5347525	33.780946	54892				
Dnipropetrovska	Kryvorizskiy	47.5521215	33.743099	87521				
Kyivska	Buchanskyi	50.43107882	30.02254661	23176				
Kyivska	Vyshhorodskiy	50.9497716	29.87934477	26019				
Kyivska	Buchanskyi	50.47092303	30.18782643	4340				
Kyivska	Brovarskiy	50.52631246	31.37818725	4435				
Kyivska	Buchanskyi	50.47679615	29.83918208	13409				
Kyivska	Buchanskyi	50.40307172	29.81569561	4001.9				
Kyivska	Buchanskyi	50.50703067	29.82218551	24058				
Kyivska	Vyshhorodskiy	50.87237214	29.99868474	11321				
Kyivska	Buchanskyi	50.50422305	29.81954735	21171				
Kyivska	Vyshhorodskiy	50.87000344	30.02725695	10485				
Kyivska	Brovarskiy	50.60630712	30.78875005	16515				
Kyivska	Vyshhorodskiy	51.09433034	29.83090448	41324				
Kyivska	Vyshhorodskiy	51.1054525	29.5309639	11428.1				
Kyivska	Buchanskyi	50.47511923	29.81756207	979				
Mykolaivska	Mykolaivskiy	46.85838082	32.38241173	14257				
Mykolaivska	Bashtanskyi	47.07602512	32.77141111	46847				
Mykolaivska	Bashtanskyi	47.08202021	32.88367442	6244				
Mykolaivska	Bashtanskyi	47.09029364	32.8274689	373528				
Mykolaivska	Bashtanskyi	47.09557067	32.90345532	5080				
Mykolaivska	Mykolaivskiy	46.90853375	32.450398	132303.9				
Mykolaivska	Mykolaivskiy	46.9171544	32.4486398	24858.4				
Mykolaivska	Bashtanskyi	46.9149835	32.77968217		236691			
Mykolaivska	Mykolaivskiy	46.890258	32.3987085		373306.7			
Mykolaivska	Bashtanskyi	47.09676775	32.907226		8759			
Mykolaivska	Mykolaivskiy	46.86224639	32.38107617		169599.7			
Mykolaivska	Mykolaivskiy	46.86641336	32.38084164		298564.6			
Mykolaivska	Bashtanskyi	46.95784814	32.73291829		12850.2			
Mykolaivska	Mykolaivskiy	46.87029029	32.22278986		8526.3			

Mykolaivska	Mykolaivskiyi	46.83246425	32.38763642		30725.5		
Mykolaivska	Mykolaivskiyi	46.90320888	32.39212175		652625.3		
Mykolaivska	Bashtanskyi	46.96384478	32.69809033		80304.7		
Mykolaivska	Bashtanskyi	46.9705618	32.7177868		164245.7		
Mykolaivska	Bashtanskyi	46.96936767	32.72421517		147286.3		
Mykolaivska	Bashtanskyi	47.21938645	33.07195316		32828		
Mykolaivska	Mykolaivskiyi	46.86401875	32.24726225		37465.9		
Mykolaivska	Bashtanskyi	46.98113336	32.57654071		43715		
Mykolaivska	Bashtanskyi	47.09078816	32.81600371		5525		
Mykolaivska	Bashtanskyi	47.09375911	32.90280361		374	2	
Mykolaivska	Mykolaivskiyi	46.77958263	32.195505		27972.4		
Mykolaivska	Mykolaivskiyi	46.91498274	32.12416153		249784.5		
Mykolaivska	Bashtanskyi	47.08288786	32.7847825		35077		
Mykolaivska	Mykolaivskiyi	46.81888825	32.349578		10260		
Mykolaivska	Mykolaivskiyi	47.0141648	32.5244728		103417.3		
Mykolaivska	Mykolaivskiyi	46.9516266	32.4696926		22926.5		
Mykolaivska	Mykolaivskiyi	47.0471496	32.5388856		4800.5		
Mykolaivska	Mykolaivskiyi	46.88185763	32.39935025		81056.9		
Mykolaivska	Mykolaivskiyi	46.8183955	32.344861		24226.5		
Mykolaivska	Mykolaivskiyi	46.9789442	32.4753904		29057.1		
Mykolaivska	Mykolaivskiyi	46.90845075	32.39729725		20805.1		
Mykolaivska	Bashtanskyi	47.09338066	32.81874389		5273		
Mykolaivska	Bashtanskyi	47.08636996	32.78964593		11999		
Mykolaivska	Bashtanskyi	47.06914636	32.65255708		11114		
Mykolaivska	Mykolaivskiyi	46.83618271	32.39122179		39027.2		
Mykolaivska	Mykolaivskiyi	46.88992175	32.455967		1474.7		
Mykolaivska	Mykolaivskiyi	46.823112	32.35171125		56528.1		
Mykolaivska	Mykolaivskiyi	46.8764122	32.3428528		11969.8		
Mykolaivska	Mykolaivskiyi	46.82930457	32.35997343		29046		
Mykolaivska	Mykolaivskiyi	46.946685	32.441973		50867.3		
Mykolaivska	Bashtanskyi	47.07980671	32.78619744		52195		
Mykolaivska	Bashtanskyi	47.07357497	32.77050249		15472		
Mykolaivska	Bashtanskyi	47.087396	33.12192137		69799	26	
Mykolaivska	Bashtanskyi	47.09665921	32.82374381		15759		
Mykolaivska	Mykolaivskiyi	46.90860675	32.45104075		47668.1		
Mykolaivska	Mykolaivskiyi	46.92422975	32.44655		72653		
Mykolaivska	Mykolaivskiyi	46.8611342	32.3867696		5391.8		
Mykolaivska	Mykolaivskiyi	46.91685625	32.43539575		45826		

Mykolaivska	Mykolaivskiyi	46.8599275	32.38069		3156.2		
Mykolaivska	Mykolaivskiyi	46.86170882	32.39216327		12913.8		
Mykolaivska	Mykolaivskiyi	46.81016563	32.30796888		38434.2		
Mykolaivska	Mykolaivskiyi	47.03179525	32.52906975		47574		
Mykolaivska	Mykolaivskiyi	46.9569424	32.474331		134120.3		
Mykolaivska	Mykolaivskiyi	47.0239954	32.5224424		10065.2		
Mykolaivska	Mykolaivskiyi	46.97039225	32.47971513		21322.8		
Mykolaivska	Mykolaivskiyi	46.87860225	32.362535		6253		
Mykolaivska	Mykolaivskiyi	46.97761025	32.475171		13587.2		
Mykolaivska	Mykolaivskiyi	46.97679375	32.47736525		12512		
Mykolaivska	Mykolaivskiyi	46.976386	32.4754135		8633.8		
Mykolaivska	Mykolaivskiyi	46.81874525	32.34857675		2991.1		
Mykolaivska	Mykolaivskiyi	47.0253135	32.522051		7850		
Mykolaivska	Mykolaivskiyi	46.8648466	32.3943292		2641.7		
Mykolaivska	Mykolaivskiyi	46.9630245	32.47460733		3491.4		
Mykolaivska	Mykolaivskiyi	46.865591	32.395094		9511.7		
Mykolaivska	Mykolaivskiyi	46.96687083	32.47870367		12841.3		
Mykolaivska	Mykolaivskiyi	46.8324355	32.3833635		15837.1		
Mykolaivska	Mykolaivskiyi	46.9169175	32.44649117		18452.1		
Mykolaivska	Mykolaivskiyi	46.90064525	32.37804175		10133.1		
Mykolaivska	Mykolaivskiyi	46.85840575	32.40117325		3692.9		
Mykolaivska	Mykolaivskiyi	46.98063763	32.47249263		5232.7		
Mykolaivska	Mykolaivskiyi	46.86445667	32.3952835		19503.5		
Mykolaivska	Bashtanskyi	47.09190482	32.80441633		51532		
Mykolaivska	Mykolaivskiyi	46.81777567	32.34715033		18897.1		
Mykolaivska	Bashtanskyi	47.09835569	32.81289697		39607	3	
Mykolaivska	Mykolaivskiyi	46.8579495	32.3682105		10098.1		
Mykolaivska	Mykolaivskiyi	46.8597304	32.3949764		20647.3		
Mykolaivska	Mykolaivskiyi	46.85627625	32.36768875		12424.6		
Mykolaivska	Mykolaivskiyi	46.858237	32.39555388		22497		
Mykolaivska	Mykolaivskiyi	46.829434	32.3688322		38608		
Mykolaivska	Bashtanskyi	47.1047675	32.90461036		19287		
Mykolaivska	Bashtanskyi	46.97863443	32.84047256		11235		
Mykolaivska	Bashtanskyi	47.06917859	32.66913348		29452		
Mykolaivska	Bashtanskyi	47.06917069	32.66612575		27289		
Mykolaivska	Bashtanskyi	47.0984291	33.12678986		52200		
Mykolaivska	Mykolaivskiyi	47.01878475	32.522849		22200.7		
Mykolaivska	Mykolaivskiyi	47.00879369	32.52953654		52929.1		

Mykolaivska	Mykolaivskiyi	47.0204566	32.523331		12990.7			
Mykolaivska	Mykolaivskiyi	47.01570114	32.54085643		41755.9			
Mykolaivska	Mykolaivskiyi	46.8378095	32.3902075		46189.7			
Mykolaivska	Mykolaivskiyi	47.01767455	32.52096209		53662.1			
Mykolaivska	Bashtanskyi	47.0978163	33.12444596		20849			
Mykolaivska	Bashtanskyi	46.97063465	32.85937373		33011			
Mykolaivska	Bashtanskyi	47.10208941	33.11082578		7610			
Mykolaivska	Bashtanskyi	46.9738723	32.90256375		21221			
Mykolaivska	Bashtanskyi	47.10102407	33.11692985		5068			
Mykolaivska	Mykolaivskiyi	47.02544125	32.533636		79978.3			
Mykolaivska	Mykolaivskiyi	46.91487725	32.418326		36739.9			
Mykolaivska	Mykolaivskiyi	46.914745	32.41706325		18872.7			
Mykolaivska	Mykolaivskiyi	47.03258175	32.54008188		7805.3			
Mykolaivska	Bashtanskyi	47.07287314	32.76753718		8739			
Mykolaivska	Bashtanskyi	47.08986277	32.83607101		34227			
Mykolaivska	Bashtanskyi	47.09398695	32.80003558		13163			
Mykolaivska	Bashtanskyi	47.10267645	33.10569391		6256			
Mykolaivska	Bashtanskyi	47.06751726	32.72392173		47475			
Mykolaivska	Mykolaivskiyi	46.833576	32.3832205		274838.3			
Mykolaivska	Mykolaivskiyi	46.914483	32.41554925		53767.9			
Mykolaivska	Mykolaivskiyi	46.882772	32.39831957		8915.1			
Mykolaivska	Mykolaivskiyi	46.98227933	32.49522417		97758.5			
Mykolaivska	Mykolaivskiyi	46.9093301	32.3872883		50311			
Mykolaivska	Mykolaivskiyi	46.835125	32.38983036		254486.2			
Mykolaivska	Bashtanskyi	47.08842851	33.13214164		26921			
Mykolaivska	Bashtanskyi	46.97666013	32.70476563		98355.4			
Mykolaivska	Bashtanskyi	47.10664469	33.1469614		11351			
Mykolaivska	Bashtanskyi	47.10352805	32.90361938		13558			
Mykolaivska	Bashtanskyi	46.98188765	32.83400968		24452			
Mykolaivska	Bashtanskyi	47.09862785	33.11967646		33141			
Mykolaivska	Bashtanskyi	47.09079747	33.13484513		45045			
Mykolaivska	Bashtanskyi	47.08797082	33.13293929		9749			
Mykolaivska	Bashtanskyi	47.08055186	33.10742363		9433			
Mykolaivska	Bashtanskyi	47.06745313	32.65905127		24163			
Mykolaivska	Bashtanskyi	47.0681793	32.68132549		41959			
Mykolaivska	Bashtanskyi	47.09755917	32.7986005		15746			
Mykolaivska	Bashtanskyi	47.06946221	32.68064308		11493			
Mykolaivska	Bashtanskyi	47.08941384	33.09491686		27444			

Mykolaivska	Mykolaivskiyi	46.77904967	32.19374478		18364.7			
Mykolaivska	Mykolaivskiyi	46.84557444	32.47839433		34959.5			
Mykolaivska	Mykolaivskiyi	46.91241717	32.401051		188913.8			
Mykolaivska	Mykolaivskiyi	46.86091333	32.380549		12942.5			
Sumska	Ohtyrskiyi	50.45835564	34.99007723		23036			
Sumska	Ohtyrskiyi	50.50255124	34.96384935		41810			
Sumska	Ohtyrskiyi	50.44831444	34.95405961		16362			
Sumska	Ohtyrskiyi	50.48887684	34.94055304		33102			
Sumska	Ohtyrskiyi	50.4281218	34.97136855		15928			
Sumska	Ohtyrskiyi	50.61165327	34.9172562		5161.6			
Sumska	Ohtyrskiyi	50.50446029	34.97050245		122998			
Sumska	Ohtyrskiyi	50.57739057	34.97049771		1245.7			
Sumska	Ohtyrskiyi	50.57738825	34.96987238		2297.1			
Sumska	Ohtyrskiyi	50.48613388	34.98927399		7218			
Sumska	Ohtyrskiyi	50.528942	34.88848933		19271.6			
Sumska	Ohtyrskiyi	50.48751088	34.9878773		17432			
Sumska	Ohtyrskiyi	50.43154257	34.96957184		14979			
Sumska	Ohtyrskiyi	50.52903538	34.88736		3053.7			
Sumska	Ohtyrskiyi	50.494019	34.8405		5965.9			
Sumska	Ohtyrskiyi	50.49096396	34.98734221		20677			
Sumska	Konotopskiy	51.18648319	33.37919962		9978			
Sumska	Ohtyrskiyi	50.49070804	34.99501728		63050.5			
Sumska	Ohtyrskiyi	50.49291507	34.99819259		49837.3			
Sumska	Ohtyrskiyi	50.45074904	34.95302555		1704			
Sumska	Ohtyrskiyi	50.45264937	34.95407871		3933			
Sumska	Ohtyrskiyi	50.49241543	34.99917143		57645.4			
Sumska	Ohtyrskiyi	50.49247909	34.99173613		28976			
Sumska	Ohtyrskiyi	50.48791824	34.99464202		3921			
Kharkivska	Izumskiyi	49.16631345	37.44089064		13655.4			
Kharkivska	Izumskiyi	49.33716671	37.21873843		50285.7			
Kharkivska	Izumskiyi	49.16692171	37.43922343		19912.3			
Kharkivska	Kupyanskiy	49.66283676	37.26338456		80027.1			
Kharkivska	Kupyanskiy	49.77860156	37.02854656		17436			
Kharkivska	Kupyanskiy	49.77715444	37.03092744		34511.9			
Kharkivska	Kupyanskiy	49.779662	37.02910725		4069.5			
Kharkivska	Kupyanskiy	49.77878	37.02928992		17211.9			
Kharkivska	Kupyanskiy	49.78927658	37.02176862		245528.5			
Kharkivska	Kupyanskiy	49.78509025	37.02734125		761.6			

Kharkivska	Kharkivskiyi	50.115354	36.4378303		77847.7		
Kharkivska	Kharkivskiyi	50.1132743	36.4370568		585799.1		
Kharkivska	Kharkivskiyi	50.1429409	36.41456138		155614.9		
Kharkivska	Chuhuevskiyi	49.89192641	36.99916207		32872		
Kharkivska	Chuhuevskiyi	49.89006435	36.99890284		34732		
Kharkivska	Izumskiyi	49.60333769	36.78243478		25204.4		
Kharkivska	Izumskiyi	49.61472433	36.79228033		131408.5		
Kharkivska	Chuhuevskiyi	49.7185781	36.89832139		44394		
Kharkivska	Chuhuevskiyi	49.71088527	36.81063966		24546		
Kharkivska	Izumskiyi	49.34549714	36.75036686		49208.9		
Kharkivska	Chuhuevskiyi	49.70176876	36.81654261		34813		
Kharkivska	Chuhuevskiyi	49.72539753	36.80348353		14096		
Kharkivska	Chuhuevskiyi	49.72971418	36.80316733		86742		
Kharkivska	Izumskiyi	49.5982456	36.9895892		8359.8		
Kharkivska	Chuhuevskiyi	49.87942833	36.98642841		13550		
Kharkivska	Izumskiyi	49.1249345	37.23494		6086.3	5	
Kharkivska	Izumskiyi	49.12492779	37.22861683		6031.4		
Kharkivska	Izumskiyi	49.11839378	37.20455775		19440.9		
Kharkivska	Izumskiyi	49.12483935	37.16538868		21857.6		
Kharkivska	Chuhuevskiyi	49.72513666	36.80035132		16336	1	
Kharkivska	Izumskiyi	49.13712423	37.13569158		17238.9		
Kharkivska	Chuhuevskiyi	49.7270963	36.79749573		4449		
Kharkivska	Chuhuevskiyi	49.75156893	36.93633861		7673		
Kharkivska	Izumskiyi	49.14622917	37.10726825		11667.9		
Kharkivska	Chuhuevskiyi	49.70917888	36.83389483		16816.1		
Kharkivska	Izumskiyi	49.14720857	37.09165914		3256.7		
Kharkivska	Chuhuevskiyi	49.7029155	36.821089		954.4		
Kharkivska	Izumskiyi	49.12403391	37.2928343		20399.8		
Kharkivska	Izumskiyi	49.23682018	37.24292009		209733.8		
Kharkivska	Izumskiyi	49.12942562	37.29661469		17018.7		
Kharkivska	Izumskiyi	49.2391125	37.2401902		179859.5		
Kharkivska	Izumskiyi	49.62309858	36.83269633		817349.4		
Kharkivska	Izumskiyi	49.091177	37.28325279		97263		
Kharkivska	Izumskiyi	49.24182153	37.23643671		489931.1		
Kharkivska	Chuhuevskiyi	49.70259987	36.86803202		18290		
Kharkivska	Chuhuevskiyi	49.7287636	36.90692085		12448		
Kharkivska	Chuhuevskiyi	49.73982267	36.94216838		2615		
Kharkivska	Chuhuevskiyi	49.74226045	36.92083723		6197		

Kharkivska	Chuhuevskiyi	49.71196167	36.82941419		59452.9			
Kharkivska	Izumskiyi	49.10979707	37.27334263		386172			
Kharkivska	Izumskiyi	49.63041173	36.82655982		635593			
Kharkivska	Izumskiyi	49.6287385	36.81668483		1135783.1			
Kharkivska	Izumskiyi	49.13777618	37.2446855		207040.6			
Kharkivska	Izumskiyi	49.11493629	37.26313106		340721			
Kharkivska	Chuhuevskiyi	49.69570637	36.8542258		9614			
Kharkivska	Chuhuevskiyi	49.73629688	36.92392363		8283			
Kharkivska	Chuhuevskiyi	49.69427764	36.85332291		21013			
Kharkivska	Chuhuevskiyi	49.70010357	36.86178001		3528			
Kharkivska	Izumskiyi	49.33916882	37.21868082		45845.4			
Kharkivska	Izumskiyi	49.09160227	37.31453607		516110.3			
Kharkivska	Izumskiyi	49.08560693	37.44304986		102862.1			
Kharkivska	Izumskiyi	49.11705483	37.2804405		26252.7			
Kharkivska	Izumskiyi	49.0869255	37.44479833		39209.2			
Kharkivska	Chuhuevskiyi	49.73217545	36.84729345		32248	1		
Kharkivska	Chuhuevskiyi	49.69942631	36.85861227		18813			
Kharkivska	Izumskiyi	49.38598532	36.87520426		14003			
Kharkivska	Izumskiyi	49.39304381	36.86421834		12209			
Kharkivska	Chuhuevskiyi	49.75023989	36.93439648		2869			
Kharkivska	Chuhuevskiyi	49.72661429	36.79872948		3321			
Kharkivska	Chuhuevskiyi	49.73892371	36.92811654		21525			
Kharkivska	Chuhuevskiyi	49.75197604	36.92669029		9122			
Kharkivska	Izumskiyi	49.1215639	37.3172563		14326.7			
Kharkivska	Izumskiyi	49.12072425	37.31975756		59148			
Kharkivska	Izumskiyi	49.078454	37.45323775		220081.1			
Kharkivska	Kharkivskiyi	50.102206	36.28249346		21087.4			
Kharkivska	Izumskiyi	49.075409	37.45537775		132552.4			
Kharkivska	Izumskiyi	49.0728255	37.45808333		166311.9			
Kharkivska	Izumskiyi	49.10360867	37.31635378		199042.4			
Kharkivska	Izumskiyi	49.07539875	37.44820975		109346.1			
Kharkivska	Izumskiyi	49.07206629	37.45279171		103040.7			
Kharkivska	Izumskiyi	49.07385975	37.44532375		129351.8			
Kharkivska	Izumskiyi	49.5541278	36.9612386		16975.9			
Kharkivska	Izumskiyi	49.526552	36.85186		40817.7			
Kharkivska	Izumskiyi	49.07161126	37.43973621		131682.6			
Kharkivska	Izumskiyi	49.07268523	37.33914538		86530.4			
Kharkivska	Izumskiyi	49.071017	37.447889		92207.2			

Kharkivska	Chuhuevskyi	49.73279676	36.90411949		49616		
Kharkivska	Chuhuevskyi	49.72177172	36.97924414		83861		
Kharkivska	Izumskyi	49.07577567	37.32236467		61370.5		
Kharkivska	Kharkivskyi	50.10223067	36.28483267		1117.3		
Kharkivska	Izumskyi	49.10974954	37.26801674		103589.3		
Kharkivska	Izumskyi	49.11166336	37.26694729		106631.5		
Kharkivska	Izumskyi	49.11285592	37.26037025		90921		
Kharkivska	Izumskyi	49.11111638	37.25583075		101925.2		
Kharkivska	Izumskyi	49.1107225	37.26050875		90224.8		
Kharkivska	Izumskyi	49.1087918	37.2659963		88587.4		
Kharkivska	Izumskyi	49.11964529	37.29419823		63700.3	51	
Kharkivska	Izumskyi	49.40748596	36.84557554		301077		
Kharkivska	Izumskyi	49.41019276	36.84094301		60643		
Kharkivska	Izumskyi	49.40898528	36.83471779		45506		
Kharkivska	Izumskyi	49.111559	37.31114457		14168.8		
Kharkivska	Izumskyi	49.11119058	37.31160817		99814.9		
Kharkivska	Izumskyi	49.1088145	37.31279983		100112.1		
Kharkivska	Izumskyi	49.10535371	37.31298871		42008.4		
Kharkivska	Izumskyi	49.10553313	37.31518238		104074.7		
Kharkivska	Izumskyi	49.10700229	37.31799286		107250.9		
Kharkivska	Izumskyi	49.1168214	37.2920438		1495.2		
Kharkivska	Izumskyi	49.11603267	37.29053487		34721.1		
Kharkivska	Izumskyi	49.4892482	36.80376882		7270		
Kharkivska	Chuhuevskyi	49.76058401	36.94384272		40502		
Kharkivska	Chuhuevskyi	49.69057203	36.8510132		5387		
Kharkivska	Chuhuevskyi	49.69299051	36.85284579		10018		
Kharkivska	Chuhuevskyi	49.74005591	36.86630378		36271		
Kharkivska	Izumskyi	49.40776193	36.82879901		81717		
Kharkivska	Chuhuevskyi	49.74848704	36.85290356		12582		
Kharkivska	Izumskyi	49.40975893	36.83868738		13446		
Kharkivska	Chuhuevskyi	49.70944771	36.83442831		67978		
Kharkivska	Izumskyi	49.48619803	36.80199502		43929		
Kharkivska	Izumskyi	49.40319469	36.85237609		262815		
Kharkivska	Chuhuevskyi	49.73155446	36.84696125		11682		
Kharkivska	Chuhuevskyi	49.76333279	36.93773325		68185		
Kharkivska	Izumskyi	49.40893237	36.82693073		34470		
Kharkivska	Izumskyi	49.12597075	37.26580075		51032.2		
Kharkivska	Izumskyi	49.50664307	36.8118936		35136		

Kharkivska	Izumskiy	49.1245291	37.2634629		44867.1			
Kharkivska	Chuhuevskiy	49.7365692	36.81754959		23904			
Kharkivska	Izumskiy	49.38231365	36.82760408		15967			
Kharkivska	Chuhuevskiy	49.76861989	36.93917047		31318			
Kharkivska	Chuhuevskiy	49.69340245	36.85161495		15585			
Kharkivska	Izumskiy	49.38571924	36.89101103		21501			
Kharkivska	Izumskiy	49.1283962	37.2593112		49755.3			
Kharkivska	Izumskiy	49.125395	37.26461475		51976.7			
Kharkivska	Izumskiy	49.12730773	37.25861418		37116.1			
Kharkivska	Izumskiy	49.1291904	37.259963		51974.2			
Kharkivska	Izumskiy	49.1276965	37.27097725		10400.4			
Kharkivska	Izumskiy	49.12672267	37.27160767		100292.6			
Kharkivska	Izumskiy	49.12811943	37.26860929		98800			
Kharkivska	Izumskiy	49.129756	37.26618417		99095.1			
Kharkivska	Izumskiy	49.1316285	37.263674		114031			
Kharkivska	Izumskiy	49.13346494	37.26058438		115152.8			
Kharkivska	Chuhuevskiy	49.77041122	36.9519089		10367			
Kharkivska	Chuhuevskiy	49.71263144	36.85118296		10005			
Kharkivska	Chuhuevskiy	49.72513826	36.90878473		53372			
Kharkivska	Chuhuevskiy	49.65580819	36.8314797		24634			
Kharkivska	Chuhuevskiy	50.05823905	36.81086989		12509			
Kharkivska	Chuhuevskiy	49.73347527	36.83392215		4886			
Kharkivska	Chuhuevskiy	49.73348164	36.83393674		14992			
Kharkivska	Izumskiy	49.06817464	37.06900682		90950.8			
Kharkivska	Izumskiy	49.06975525	37.066623		97456.4			
Kharkivska	Izumskiy	49.070498	37.06409875		96182.9			
Kharkivska	Izumskiy	49.06840325	37.072857		98236.4			
Kharkivska	Chuhuevskiy	49.63251617	36.89482683		16434			
Kharkivska	Izumskiy	49.50696464	36.80814667		34196			
Kharkivska	Izumskiy	49.39134763	36.87023979		13443			
Kharkivska	Izumskiy	49.50396625	36.80430783		22324			
Kharkivska	Izumskiy	49.39059238	36.86999877		22244			
Kharkivska	Chuhuevskiy	49.7143712	36.81622753		73735			
Kharkivska	Chuhuevskiy	49.7262477	36.90517004		93190			
Kharkivska	Izumskiy	49.07120325	37.06162025		96070.4			
Kharkivska	Izumskiy	49.0718355	37.05911375		91993.7			
Kharkivska	Izumskiy	49.07250625	37.05661575		90458.8			
Kharkivska	Izumskiy	49.0731935	37.054011		92048.5			

Kharkivska	Izumskiy	49.07390975	37.051282		91068.9		
Kharkivska	Izumskiy	49.07499367	37.0480845		98144.4		
Kharkivska	Izumskiy	49.0747005	37.0735191		91587.8		
Kharkivska	Izumskiy	49.07469667	37.07107633		98657.8		
Kharkivska	Izumskiy	49.07431975	37.06856475		99705.2		
Kharkivska	Izumskiy	49.07490375	37.066358		93510.8		
Kharkivska	Izumskiy	49.075479	37.064059		97881		
Kharkivska	Izumskiy	49.075937	37.0617405		85138		
Kharkivska	Izumskiy	49.07750543	37.05980086		85812.7		
Kharkivska	Izumskiy	49.07815056	37.05812678		97640.3		
Kharkivska	Izumskiy	49.07762025	37.0547215		98257.6		
Kharkivska	Izumskiy	49.07910987	37.05250373		93419.6		
Kharkivska	Izumskiy	49.07911483	37.0648545		28354.4		
Kharkivska	Izumskiy	49.11797571	37.22235564		104828.8		
Kharkivska	Izumskiy	49.10767714	37.33399871		105441.2		
Kharkivska	Izumskiy	49.1100886	37.333644		108240.1		
Kharkivska	Izumskiy	49.1108495	37.33477925		3507.1		
Kharkivska	Chuhuevskiy	49.83742119	37.04289354		23498		
Kharkivska	Chuhuevskiy	49.67547824	36.83240284		71187		
Kharkivska	Chuhuevskiy	49.66074291	36.83180059		28225		
Kharkivska	Izumskiy	49.40728717	36.82496087		41963		
Kharkivska	Izumskiy	49.40516103	36.81697718		26060		
Kharkivska	Chuhuevskiy	49.66675415	36.83194782		85508		
Kharkivska	Izumskiy	49.11265617	37.33332333		102349		
Kharkivska	Izumskiy	49.11268867	37.337341		108256.3		
Kharkivska	Izumskiy	49.11268083	37.33880417		2091.7		
Kharkivska	Izumskiy	49.12063425	37.22079175		67687		
Kharkivska	Izumskiy	49.06617714	37.13639529		82915		
Kharkivska	Izumskiy	49.12160457	37.21940743		75263.1		
Kharkivska	Izumskiy	49.1164785	37.21282325		4253.2		
Kharkivska	Izumskiy	49.11641988	37.21324538		18801.5		
Kharkivska	Kharkivskiy	50.07917978	36.30758472		609320.2		
Kharkivska	Izumskiy	49.48914054	36.79084896		47989		
Kharkivska	Izumskiy	49.114047	37.2145842		10492.6		
Kharkivska	Izumskiy	49.11382995	37.21454		60143.4		
Kharkivska	Chuhuevskiy	49.69043592	36.8626628		10503		
Kharkivska	Izumskiy	49.38208223	36.82869422		5085		
Kharkivska	Chuhuevskiy	50.07348374	36.99243709		28180		

Kharkivska	Chuhuevskiyi	49.71110327	36.82056772		21752		
Kharkivska	Izumskiyi	49.49256045	36.79327405		15445		
Kharkivska	Chuhuevskiyi	49.71762447	36.89971185		59758		
Kharkivska	Chuhuevskiyi	49.65961469	36.82488237		49596		
Kharkivska	Chuhuevskiyi	49.6853811	36.83206785		40307		
Kharkivska	Izumskiyi	49.11443689	37.21129589		53288.8		
Kharkivska	Izumskiyi	49.122324	37.31303644		42969.8		
Kharkivska	Kupyanskyi	49.772204	36.97189643		290102.4		
Kharkivska	Izumskiyi	49.12002593	37.31382513		95415.6		
Kharkivska	Izumskiyi	49.1156834	37.3179484		44659.6		
Kharkivska	Izumskiyi	49.1074824	37.3211748		110079		
Kharkivska	Izumskiyi	49.11282238	37.320439		29995.6		
Kharkivska	Izumskiyi	49.1151552	37.314406		71780.2		
Kharkivska	Izumskiyi	49.1126132	37.3223362		17121.5		
Kharkivska	Izumskiyi	49.1200097	37.312538		21923.7		
Kharkivska	Izumskiyi	49.11970636	37.312113		72468.7		
Kharkivska	Izumskiyi	49.11080244	37.31868656		113291.1		
Kharkivska	Izumskiyi	49.118759	37.31086557		95932.9		
Kharkivska	Chuhuevskiyi	49.65183016	36.82137014		33915		
Kharkivska	Izumskiyi	49.57334466	36.78349461		175054		
Kharkivska	Chuhuevskiyi	49.69275716	36.82440053		139794		
Kharkivska	Chuhuevskiyi	49.74543587	36.96585		13445		
Kharkivska	Izumskiyi	49.4813644	36.78817534		9303		
Kharkivska	Izumskiyi	49.41534335	36.83976309		5408		
Kharkivska	Chuhuevskiyi	49.73403163	36.82017059		14767		
Kharkivska	Chuhuevskiyi	49.81030077	37.0573382		16916		
Kharkivska	Izumskiyi	49.10912867	37.32677283		46608.1		
Kharkivska	Izumskiyi	49.1105295	37.3255495		66543.5		
Kharkivska	Izumskiyi	49.109346	37.32552175		21749.4		
Kharkivska	Izumskiyi	49.10921633	37.32350883		44669.4		
Kharkivska	Izumskiyi	49.1133881	37.3100341		291727.6		
Kharkivska	Izumskiyi	49.1138135	37.31784275		89518.9		
Kharkivska	Izumskiyi	49.12053582	37.30329082		372141		
Kharkivska	Chuhuevskiyi	49.73916167	36.83049205		13006		
Kharkivska	Izumskiyi	49.58999551	37.00824967		18803		
Kharkivska	Chuhuevskiyi	49.74206431	36.83496953		13136		
Kharkivska	Izumskiyi	49.38474807	36.8279304		59705		
Kharkivska	Kharkivskiyi	50.009116	36.56581975		11808.3		

Kharkivska	Kharkivskiyi	50.01173443	36.54121229		48465			
Kharkivska	Kharkivskiyi	50.00552167	36.5375265		26640.8			
Kharkivska	Chuhuevskiyi	49.73450058	36.96790655		2497			
Kharkivska	Izumskiyi	49.38714466	36.86584235		11378			
Kharkivska	Chuhuevskiyi	49.73105194	36.82330292		14270			
Kharkivska	Chuhuevskiyi	50.05371298	36.81223681		38075			
Kharkivska	Izumskiyi	49.38960998	36.80974643		15355			
Kharkivska	Chuhuevskiyi	49.71116842	36.84453504		4507			
Kharkivska	Izumskiyi	49.39028375	36.86306861		20499			
Kharkivska	Izumskiyi	49.39056526	36.8638734		11149			
Kharkivska	Chuhuevskiyi	49.75078521	36.94840576		14839			
Kharkivska	Chuhuevskiyi	49.64972509	36.82497903		68382			
Kharkivska	Chuhuevskiyi	49.72659075	36.92900504		15940			
Kharkivska	Izumskiyi	49.37260008	36.84341232		10139			
Kharkivska	Izumskiyi	49.40627456	36.82330617		15852			
Kharkivska	Chuhuevskiyi	49.7374467	36.87442095		37935			
Kharkivska	Izumskiyi	49.60868327	36.99782662		34258			
Kharkivska	Izumskiyi	49.57710084	36.80123703		97777			
Kharkivska	Chuhuevskiyi	49.65004008	36.817042		26686			
Kharkivska	Izumskiyi	49.58061685	36.81620405		206087			
Kharkivska	Izumskiyi	49.38653185	36.83063775		10097			
Kharkivska	Izumskiyi	49.60887166	36.98205021		32448			
Kharkivska	Izumskiyi	49.40099253	36.8567323		23099			
Kharkivska	Chuhuevskiyi	49.71638883	36.79888935		39157			
Kharkivska	Chuhuevskiyi	49.71016196	36.85055245		115697			
Kharkivska	Chuhuevskiyi	49.74644387	36.83098457		10001			
Kharkivska	Chuhuevskiyi	49.78272765	36.83218732		34780			
Kharkivska	Izumskiyi	49.38408183	36.86916186		22036			
Kharkivska	Chuhuevskiyi	49.84250816	37.03710214		61899			
Kharkivska	Chuhuevskiyi	49.63041719	36.77139476		5928			
Kharkivska	Chuhuevskiyi	49.75499065	36.91627228		91772			
Kharkivska	Chuhuevskiyi	49.71170419	36.82393756		16509			
Kharkivska	Izumskiyi	49.58558305	36.79778103		93637			
Kharkivska	Izumskiyi	49.49110812	36.80547459		46078			
Kharkivska	Chuhuevskiyi	49.73027539	36.90850263		23571			
Kharkivska	Izumskiyi	49.5840773	36.78500315		119975			
Kharkivska	Chuhuevskiyi	49.75190708	36.93769117		10391			
Kharkivska	Chuhuevskiyi	49.67984533	36.81740619		28457			

Kharkivska	Chuhuevskiyi	49.64327641	36.91714142		27024			
Kharkivska	Chuhuevskiyi	49.68337318	36.82618499		46398			
Khersonska	Beryslavskiyi	47.18303585	33.17641986		130028			
Khersonska	Beryslavskiyi	47.18534182	33.19853008		15046	3		
Khersonska	Beryslavskiyi	47.18539416	33.19478189		12604			
Khersonska	Beryslavskiyi	47.20002044	33.13176122		2701			
Khersonska	Beryslavskiyi	47.18353686	33.19459582		5843			
Khersonska	Beryslavskiyi	47.20044314	33.12958094		22035			
Khersonska	Khersonskiyi	46.830601	32.3784145		19687.2			
Khersonska	Khersonskiyi	46.83010693	32.38375021		353416.1			
Khersonska	Beryslavskiyi	47.20088212	33.13558841		27853			
Khersonska	Beryslavskiyi	47.24751908	33.20106646		9985			
Khersonska	Beryslavskiyi	47.20132763	33.13893163		10810			
Khersonska	Beryslavskiyi	47.28313352	33.24828867		24574			
Khersonska	Beryslavskiyi	47.18763219	33.2172158		30983			
Khersonska	Beryslavskiyi	47.1995456	33.14036986		19783			
Khersonska	Beryslavskiyi	47.20241424	33.1353517		23901			
Khersonska	Beryslavskiyi	47.19801377	33.13330899		18670			
Khersonska	Beryslavskiyi	47.19038258	33.21664501		34518			
Khersonska	Beryslavskiyi	47.18934557	33.21939507		19792			
Khersonska	Beryslavskiyi	47.07194717	33.25792417		202479			
Khersonska	Beryslavskiyi	47.11039886	33.04454686		49668.1			
Khersonska	Beryslavskiyi	47.11174017	33.0411555		56024.5			
Khersonska	Beryslavskiyi	47.10931625	33.047054		37554.1			
Khersonska	Beryslavskiyi	47.0952075	33.0983595		94767.4			
Khersonska	Beryslavskiyi	47.20084798	33.12850662		6750			
Khersonska	Beryslavskiyi	47.119561	33.00538517		46848.3			
Khersonska	Beryslavskiyi	47.20427206	33.13810543		33675			
Khersonska	Beryslavskiyi	47.19891462	33.24673873		31255			
Khersonska	Beryslavskiyi	47.20261547	33.25049103		22715			
Khersonska	Beryslavskiyi	47.4391542	33.4596508		77075.3			
Khersonska	Beryslavskiyi	47.42326967	33.5314225		471567			
Khersonska	Beryslavskiyi	47.4049482	33.6111534		226141.2			
Khersonska	Beryslavskiyi	47.12138875	33.006562		80654.7			
Khersonska	Beryslavskiyi	47.090055	33.094229		10472.9			
Khersonska	Beryslavskiyi	47.44736117	33.399394		247124.6			
Khersonska	Beryslavskiyi	47.45485478	33.54053589		261690.8			
Khersonska	Beryslavskiyi	47.46124175	33.53441225		309118.5			

Khersonska	Beryslavskiyi	47.121001	33.012778		414009.9			
Khersonska	Beryslavskiyi	47.1191105	33.0186175		418613			
Khersonska	Beryslavskiyi	47.11767575	33.0267075		139015.1			
Khersonska	Beryslavskiyi	47.11474225	33.035561		147801.1			
Khersonska	Beryslavskiyi	47.10923693	33.15697316		40416			
Khersonska	Beryslavskiyi	47.20342522	33.23152798		10065			
Khersonska	Beryslavskiyi	47.21638923	33.24691547		10979			
Khersonska	Beryslavskiyi	47.20700555	33.14007036		5671			
Khersonska	Beryslavskiyi	47.19805375	33.14138956		12221			
Khersonska	Beryslavskiyi	47.21698624	33.24563594		12957			
Khersonska	Beryslavskiyi	47.20364175	33.23497239		26878			
Khersonska	Beryslavskiyi	47.20366905	33.13606332		13065			
Khersonska	Beryslavskiyi	47.1149475	33.024488		344006.4			
Khersonska	Beryslavskiyi	47.1118925	33.03329525		388299.7			
Khersonska	Beryslavskiyi	47.12279325	33.02845725		360254.5			
Khersonska	Beryslavskiyi	47.121395	33.03258275		292941.9			
Khersonska	Beryslavskiyi	47.526365	33.5229205		9403.8			
Khersonska	Beryslavskiyi	47.5298294	33.5296538		20532.4			
Chernihivska	Chernihivskiyi	51.45788321	31.1765634		23180			
Chernihivska	Chernihivskiyi	51.377546	31.18014575		7463.5			
Chernihivska	Nigynskiyi	50.55634557	31.53009964		4676			
Chernihivska	Chernihivskiyi	51.41889804	31.08870089		10890			
Chernihivska	Chernihivskiyi	51.48043553	31.11388539		10268			
Chernihivska	Nigynskiyi	50.56042836	31.54405257		3150			
Chernihivska	Nigynskiyi	50.53411301	31.38466968		44552			
Chernihivska	Chernihivskiyi	51.56984327	31.3923574		6358			
Chernihivska	Nigynskiyi	50.52806191	31.39444287		18042			
Chernihivska	Nigynskiyi	50.63566835	31.33118015		18235			
Chernihivska	Chernihivskiyi	51.31743283	31.27629475		71495.4			
Chernihivska	Chernihivskiyi	51.33245983	31.26274783		19944.1			
Chernihivska	Chernihivskiyi	51.3259845	31.26879617		9154.5			
Chernihivska	Nigynskiyi	50.63487113	31.33586655		8357			
Chernihivska	Chernihivskiyi	51.91035356	31.6549215		9412.3			
Chernihivska	Chernihivskiyi	51.42497421	31.14785963		2678			
Chernihivska	Prylutskiy	50.68949326	32.35922892		368542.6			
Chernihivska	Prylutskiy	50.69150555	32.36449959		212733.2			

