Contaminated Site
Investigation
& Remediation

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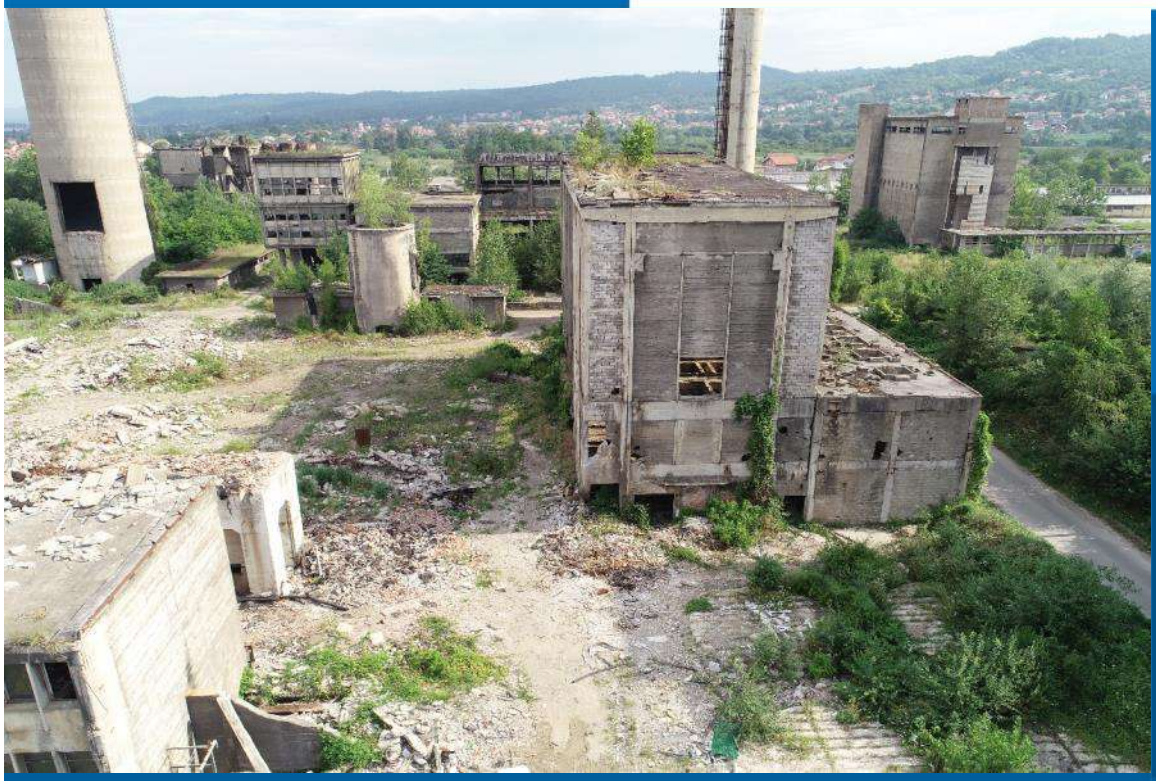

Conducted Fieldwork Report

INCEL, Banja Luka, Republika Srpska, Bosnia and Hercegovina

25. 8. 2020

ISO 9001
ISO 14001
ISO 45001

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a.s.l.	Above mean sea level
b.g.l.	Below ground level
BTEX	Benzene, Toluene, Ethylbenzene and Xylene
BZ	Business Zone INCEL
Cd	Cadmium
cm	Centimeter
COC	Contaminants of concern
CS2	Carbon Disulphide
Cu	Copper
DKS	(local geodetic system – MGI_1901_Balkans_6)
DNAPL	Dense non-aqueous phase liquid
GIS	Geographic Information System
GWL	Groundwater level
Hg	Mercury
HNO_3	Nitric acid
ICSM	Initial Conceptual Site Model
INCEL	INdustrija CELuloze (Industry of Cellulose)
kg	Kilogram
km	Kilometer
LNAPL	Light non-aqueous phase liquid
LV	Limit value
m	Meter
mg	Milligram
m/s	Meters per second
NaCl	Sodium Chloride
NaOCl	Sodium Hypochlorite
NaOH	Sodium Hydroxide
Na_2S	Sodium Sulphide
Na_2SO_4	Sodium Sulphate
Ni	Nickel
Nm	Newton meter
PAH	Polycyclic Aromatic Hydrocarbons
Pb	Lead
PCB	Polychlorinated Biphenyls
PCDDs	Polychlorinated Dibenzo-p-dioxins
PCDFs	Polychlorinated dibenzofurans
POPs	Persistent Organic Pollutants
PFAS	Per- and Polyfluoroalkyl substances
PPE	Personal Protective Equipment
S	Sulphur
TPH	Total Petroleum Hydrocarbons
UNDP	United Nation Development Program
WGS84	World Geodetic System 1984

1 INTRODUCTION

1.1 General

With respect to Contractor's duties and deliverables specified in the Contract signed between the United Nations Development Programme and DEKONTA a.s. on July 1, 2020 and Contract´s Amendment No. 1 signed on August 12, 2020, we present the first deliverable of the project.

This report on conducted fieldwork describes the implementation of the site investigation in the period from 28. 7. to 10. 8. 2020.

In the next sections of the report, more details of the field activities carried out during the fieldworks will be presented.

1.2 Objectives of the survey

The objectives of the proposed site survey is the exact identification of sources of the PCB pollution, determination of the vertical and horizontal extent of the PCB contaminated soil (unsaturated zone), verification of groundwater and surface water pollution, identification of potentially exposed groups of inhabitants and individual elements of the eco-system and the proposal of remediation/rehabilitation measures leading to the elimination of existing human health and/or environmental risks related to the PCB contamination in the soil.

The results of the survey will provide the following knowledge and information about the locality:

- Determination of basic geological and hydro-geological characteristics of the area;
- Identification of sources of PCB contamination;
- Information about the spatial distribution of the PCB contamination in soil on the INCEL site;
- Specification of the qualitative and quantitative characteristics of the contamination;
- Inputs for evaluation of risks resulting from the PCB contamination;
- Inputs for recommendation of corrective measures.

1.3 Tasks

The main tasks implemented during the field works were the following:

- Meeting with site owners, obtaining permits to perform field works;
- Verification of the existence of underground networks;
- Installation of boreholes and the description of the soil profiles on bore logs;
- Soil sampling;
- Installation of groundwater monitoring wells and recording the well specification on the bore logs;
- Groundwater sampling;
- Geodetic/drone survey and contaminated soil/area quantification.

1.4 Team structure

Project team involved in the fieldwork has comprised experts from DEKONTA, including its Bosnian branch, CETEOR and two local consultants. There are minor changes in the original team structure proposed in the technical offer, mainly caused by problematic mobilization of some Czech experts due to the COVID-19 pandemic. However, substitute experts possess the same experiences and knowledge necessary for proper performance of investigation work.

List of experts involved in fieldwork survey is presented below:

Table 1: Experts' involvement in the fieldwork survey

Name	Position	No. of Days	
		In BiH	Home Based - Prague
Ondřej Urban	Team Leader	10	10
Vojtěch Musil	Environmental Expert / Deputy Team Leader		5
Maja Colovic-Daul	Environmental Expert / Liaison Officer	10	
Jan Kukačka	GIS Specialist		8
Fernando Rebelo	Soil Sampling Specialist	11	7
Jiří Kubricht	Site Manager and Drone Specialist	12	8
Martin Polák	Site Manager and GW Sampling Specialist	12	8
Eva Čechová	Construction Materials Sampling Specialist	9	7
Aleš Kulhánek	Risk Assessment Specialist		5
Jasmina Comic	Local Coordinator / Legislation Expert	10	
Denis Fontana	Local Coordinator	14	
Boris Legovic	External Consultant	5	

2 PERFORMED ACTIVITIES

2.1 Preparatory work

With regard to the restriction of entry into Bosnia due to the COVID-19 pandemic situation, the investigation and thus preparatory work was postponed to the second half of July (28. 7. 2020), approx. 3 weeks later compared to the original plan 2. 7. 2020.

As part of the preparatory works, a Geoprobe drilling rig and other technical equipment for sampling soil, sediment, building structures and groundwater were transported by truck to Bosnia on July 24. Mobilization of the experts and technicians took place on July 27 and 28.

In the period from signing of the contract (15. 6. 2020) to the commencement of field works (28. 7. 2020), a detailed review of previously conducted surveys and studies in INCEL took place. Based on this review, a detailed sampling plan was prepared and consulted with UNDP in advance (by e-mail on July 16) and subsequently presented to other members of the working group at a meeting on July 28.

2.2 Meetings and site reconnaissance

An introductory working meeting took place on July 28 and was attended by representatives of the working group and other stakeholders. The list of representatives is given in the Table 2 below. The minutes of the meeting prepared by UNDP can be found in Annex III (in Bosnian language).

Table 2: Introductory work meeting participants

No.	Name	Organisation
1	Vladimir Plavšić	Gradsta uprava Banja Luka / Odjeljenje za inspekcijske poslove City Administration of Banja Luka / Department for Inspection Affairs

2	Saša Vrućinić	Gradska uprava Banja Luka/ Odjeljenje za komunalne poslove Banja Luka City Administration / Department of Communal Affairs
3	Ana Štikić	Gradstka uprava Banja Luka / Odjeljenje za prostorno uređenje Banja Luka City Administration / Department of Physical Planning
4	Saša Panić	Poslovna zona Incel Business zone Incel
5	Svetlana Topić	Ministarstvo za prostorno uređenje, građevinarstvo i ekologiju RS RS Ministry of Physical Planning, Construction and Ecology
6	Marko Galić	Ministarstvo za prostorno uređenje, građevinarstvo i ekologiju RS RS Ministry of Physical Planning, Construction and Ecology
7	Ondrej Urban	DEKONTA
8	Jiří Kubricht	DEKONTA
9	Martin Polak	DEKONTA
10	Denis Fontana	DEKONTA
11	Boris Legovic	DEKONTA
12	Andrea Muharemović	UNDP
13	Mirnesa Bajramović	UNDP
14	Svjetlana Radusin	Ministarstvo za prostorno uređenje, građevinarstvo i ekologiju RS RS Ministry of Physical Planning, Construction and Ecology
15	Darko Antunic	RUIP
16	Dragan Mijović	Inspektorat RS RS Inspectorate
17	Dragan Uikolic	Inspektorat RS RS Inspectorate

Figure 1: Site reconnaisance with Boris Legović and Petar Smitran, 29. 7. 2020

Figure 2: Site reconnaisance with Ermin Tajić, 3. 8. 2020

The site reconnaissance took place in the INCEL complex and its vicinity on July 28, 29 and August 3, and included the activities listed below:

- Delineation of hotspots identified by previous surveys;
- Verification of the existence of underground networks;
- Finding preferential migration routes, specifically sewerage system within INCEL;
- Specification of drilling sites and sampling locations of soil, sediment and building structures.

Apart from the DEKONTA project team, representatives of the INCEL Business zone (Mr. Ermin Tajić , Mr. Saša Panić), an expert involved in previous studies (Mr. Boris Legović) and owners/tenants of other properties (Mr. Petar Smitran) that are the subject of the investigation work took part in the site reconnaissance.

The Field visit by RS Ministry of Physical Planning, Construction and Ecology was conducted on August 7 (around 9.00 h) at the INCEL Business Zone, and was attended by five members of Ministry of Physical Planning, Construction and Ecology:

- Svjetlana Radusin
- Mišo Radaković
- Mirjana Kos
- Marija Nikolić
- Svetlana Topić

The first phase of the visit was conducted at the DEKONTA temporary field office inside the BZ administrative building, where the representatives were given a short presentation about DEKONTA, Sampling plan for the BZ, quick showcase regarding the equipment used (pumps, electrical meters, water analyzer, etc.) and a field safety briefing.

The second phase was conducted at one of the sampling sites (SHP Celex), where the representatives were shown the sampling process using the drilling rig. After the sampling was completed, photos and videos of the DEKONTA project team and ministry representatives were taken using the drone unit. All of the questions posed by the representatives were answered to the fullest extent by the DEKONTA project team.

2.3 Sampling work

*2.3.1 **Summary of sampling work***

Between 28. 7. 2020 and 11. 8. 2020 project team was in BiH to carry out the sampling campaign as described in DEKONTA's Technical Proposal and updated in the latest version of the sampling plan.

The following samples were collected (a total of 204 samples):

- 67 samples of topsoil. 63 samples from known hotspots inside INCEL and 4 samples from outside INCEL;
- 3 samples of sediment from the Vrbas River. 1 at the sewage system outlet, 1 upstream of the outlet and 1 downstream of the outlet;
- 21 samples of construction materials (from walls and floors of building structures located on the site);
- 3 samples of groundwater from drinking wells located outside INCEL;
- 14 samples of groundwater from inside INCEL;
- 92 samples from soil probes at different depths from inside INCEL.

Out of the total of 207 samples, 200 samples were transported to ALS laboratories in Czech Republic in two batches for analyses. The first batch, consisting of 110 samples, was delivered to the laboratory for analyses on 6. 8. 2020 and the second batch, consisting of 90 samples, was delivered to the laboratory for analyses on 13. 8. 2020.

2.3.2 *Soil probes*

2.3.2.1 Methodology of sampling work

In order to carry out exploratory probes and soil sampling, a light mobile drilling rig GEOPROBE, model 7822DT, was used at the site. The GEOPROBE 7822DT drilling rig is a multifunctional device manufactured by the American company Geoprobe, offering a wide range of applications in the exploration-remediation sector and the construction industry. The drilling rig is equipped with a hydraulic hammer G63 with percussion energy of 701 Nm with a built-in rotation option and a separate rotary head for spiral drilling.

The use of a drilling rig enables to collect intact soil samples in a penetrating manner, perform spiral drilling, install hydrogeological boreholes and narrow-profile monitoring probes / piezometers, take groundwater and soil air samples, apply direct-push survey methods - MIP, CPT, as well as inject remediation solutions into the rock environment as part of in-situ remediation.

Figure 3: Drilling of probes for soil and groundwater sampling

Figure 4: Soil probe S-23 equiped with HDPE pipe

For the purposes of the project (soil sampling from a defined depth), the DUAL TUBE system was used. The DUAL TUBE system is based on the impact pushing of a double rig (drilling diameter 60 mm), during which the drilling core is taken into a plastic (PVC) tube (diameter 28 mm) installed in the inner sampling rod. The double equipment is always pushed in 1,2-meter sections, while after this section the inner plastic tube with the collected soil is always removed and replaced by a new empty tube. An additional section is then added to the outer steel gear and this repeated procedure continues into the required depth. The depth reach within the survey work was at maximum of 6 m b.g.l.

Plastic tubes were marked immediately after extraction from the outer steel equipment so that they cannot be confused. Due to the transparency of the tubes, a lithological description of the individual sections was made first. Subsequently, the tube was cut with a special knife and the required soil sample was poured into a pre-prepared sample box (200 ml sealable glass jar). The depths and position of soil sampling was determined by the geological service on site and are given in the following chapter.

In total 30 probes were drilled. The position of individual probes was chosen on the basis of the previous survey work and is shown in Annex I.

During the drilling works, the probes S-1, S-4, S7, S-9, S-11, S-14, S-15, S-19, S-23 and S-29 were temporarily equipped with an HDPE pipe for the purpose of groundwater sampling. After groundwater sampling, these probes were removed.

Figure 5: Drilling core of S-4 soil probe

Figure 6: Collection of soil samples

2.3.2.2 Collected samples information

All soil samples were stored in a sealable glass jars immediately after collection. Each glass jar was provided with a unique identifier in order not to be confused. The glass jars were then placed in a portable cooling bag and stored in a dry and dark place until the samples were transported to the laboratory.

The following Table 3 shows the numbers of probes and soil samples taken from the defined depth levels.

Table 3: Number of probes and collected soil samples

No.	Probe	Date	Depth (m)	Sample ID				Total number of samples	Piezometr	Position
				0,0-0,2	0,2-0,8	0,8-2,0	GW			
1.	**S-1**	30.7.20	6,00	S1/TS	S1/1	S1/2	S1/GW	4	X	Business zone (transformers of viscosis)
2.	S-2	30.7.20	4,80	S2/TS	S2/1	S2/2*		3		Business zone (transformers of viscosis)
3.	S-3	30.7.20	4,80	S3/TS	S3/1	S3/2*	S3/GW*	4		Business zone (transformers of viscosis)
4.	**S-4**	31.7.20	6,00	S4/TS	S4/1	S4/2	S4/GW*	4	X	Business zone (transformers of viscosis)
5.	S-5	31.7.20	4,80	S5/TS	S/1	S5/2*		3		Business zone (transformers of viscosis)
6.	S-6	31.7.20	4,80	S6/TS	S6/1	S6/2		3		Business zone (in front of BC Metal)
7.	**S-7**	31.7.20	6,00	S7/TS	S7/1	S7/2	S7/GW	4	X	Business zone (in front of BC Metal)
8.	S-8	31.7.20	4,80	S8/TS	S8/1	S8/2		3		Business zone (in front of BC Metal)
9.	**S-9**	1.8.20	6,00	S9/TS	S9/1	S9/2	S9/GW	4	X	BC Metal
10.	S-10	1.8.20	3,60	S10/TS	S10/1	S10/2		3		BC Metal
11.	**S-11**	1.8.20	6,00	S11/TS	S11/1	S11/2	S11/GW	4	X	Nova Banka
12.	S-12	1.8.20	3,60		S12/1	S12/2	S12/GW*	3		Nova Banka
13.	S-13	3.8.20	3,60	S13/TS	S13/1			2		Business zone (electrolysis)
14.	**S-14**	3.8.20	6,00	S14/TS	S14/1	S14/2	S14/GW	4	X	Business zone (electrolysis)
15.	**S-15**	3.8.20	6,00	S15/TS	S15/1	S15/2	S15/GW	4	X	Lukic Invest (former power plant)
16.	S-16	3.8.20	4,80	S16/TS	S16/1	S16/2		3		Lukic Invest (former power plant)

No.	Probe	Date	Depth (m)	Sample ID				Total number of samples	Piezometr	Position
				0,0-0,2	0,2-0,8	0,8-2,0	GW			
17.	S-17	3.8.20	4,80	S17/TS	S17/1	S17/2		3		Lukic Invest (former power plant)
18.	S-18	3.8.20	4,80	S18/TS	S18/1	S18/2		3		Lukic Invest (former power plant)
19.	**S-19**	4.8.20	6,00	S19/TS	S19/1	S19/2	S19/GW	4	X	Lukic Invest (former power plant)
20.	S-20	4.8.20	4,80	S20/TS	S20/1			2		Lukic Invest (former power plant)
21.	S-21	4.8.20	4,80	S21/TS	S21/1	S21/2		3		Lukic Invest (former power plant)
22.	S-22	4.8.20	3,60	S22/TS	S22/1			2		SHP Celex
23.	**S-23**	7.8.20	6,00	S23/TS	S23/1	S23/2		3	X	SHP Celex
24.	S-24	7.8.20	4,80	S24/TS	S24/1	S24/2	S24/granulo	3		SHP Celex
25.	S-25	6.8.20	4,80	S25/TS	S25/1	S25/2		3		Business zone (firefighting station)
26.	S-26	6.8.20	3,60	S26/TS	S26/1	S26/2		3		TOP Metal
27.	S-27	6.8.20	4,80	S27/TS	S27/1	S27/2	S27/3	4		Business zone (beside Eco-trade)
28.	S-28	6.8.20	3,60	S28/TS	S28/1	S28/2		3		Business zone (production of CS2)
29.	**S-29**	7.8.20	6,00	S29/TS	S29/1	S29/2	S29/GW	4	X	Universum AD
30.	S-30	7.8.20	3,60	S30/TS	S30/1	S30/GW		3		Universum AD

∗ Collected soil samples stored in archive without chemical analyses

*2.3.3 **Topsoil samples***

2.3.3.1 Methodology of sampling work

The sampling of topsoil from inside of INCEL was carried out between 4. 8. and 7. 8. 2020. It is important to mention that between those dates there was heavy rain at the site and the sampling work had to be stopped. The sampling of topsoil outside INCEL was carried out on 31. 7. 2020.

Figure 7: Topsoil sampling

Prior to the activities, DEKONTA's team chose the location of the samples based on the previous information regarding the two sampling campaigns performed by the Inspectorate and the report prepared by TAUW. These locations were marked in a map and the sampling team collected the samples from the pre-selected spots making any necessary adjustments of the exact position upon visual inspection of the chosen area.

In order to collect the samples, DEKONTA's team followed the following methodology. The top layer of debris was removed in addition to organic matter like roots and leaves. A metal scoop was used to sample the soil and to transfer it directly to a 150-ml glass jar. The jar was immediately identified with the sample ID number and a sample protocol was filled with information like date, weather conditions, site description, required analyses, matrix type, sampling person and any important notes that could help to describe the sample, the procedure or the location. The collected sample was then stored in a cooling bag away from direct sunlight and the whole procedure was repeated for all topsoil samples.

2.3.3.2 Collected sample information

The samples were collected as follows:

Lukic Invest (former power plant), 4. 8. 2020

- Sample ID: TS-1 to TS-8 and L-3A
- Analyses: All samples were analyzed for PCBs. TS-4, in addition to PCBs, was analyzed for Heavy Metals, Dioxins, Dioxin like PCBs, TOC, TPH and PAH. L-3A was analyzed for Asbestos only.

Concrete platform next to SHP Celex, 4. 8. 2020

- Sample ID: TS-9 to TS-11
- Analyses: All samples were analyzed for PCBs.

East of Celex, 4. 8. 2020

- Sample ID: TS-12 to TS-16
- Analyses: All samples were analyzed for PCBs.

Business Zone in front of BC Metal, 6. 8. 2020

- Sample ID: TS-17 to TS-22
- Analyses: All samples were analyzed for PCBs. TS-20, in addition to PCBs, was analyzed for TPH and Heavy Metals

Inside of BC Metal, 6. 8. 2020

- Sample ID: TS-23 to TS-26
- Analyses: All samples were analyzed for PCBs. TS-24, in addition to PCBs, was analyzed for Dioxins, PCBs like Dioxins, TOC, TPH and Heavy Metals

Valentino, 6. 8. 2020

- Sample ID: TS-27 and TS-28
- Analyses: All samples were analyzed for PCBs.

INCEL Trade, 6. 8. 2020

- Sample ID: TS-29 and TS-30
- Analyses: All samples were analyzed for PCBs.

Business Zone (transformers of Viscosis), 7. 8. 2020

- Sample ID: TS-31 to TS-34
- Analyses: All samples were analyzed for PCBs. TS-32, in addition to PCBs, was analyzed for granulometry

Business Zone (Electrolysis), 7. 8. 2020

- Sample ID: TS-35 to TS-38
- Analyses: All samples were analyzed for PCBs. TS-38, in addition to PCBs, was analyzed for Asbestos

Nova Banka, 7. 8. 2020

- Sample ID: TS-39 to TS-42
- Analyses: All samples were analyzed for PCBs.

Univerzum, 7. 8. 2020

- Sample ID: TS-43 to TS-46
- Analyses: All samples were analyzed for PCBs.TS-44, in addition to PCBs, was analyzed for Heavy Metals and TPH

Top Metal, 7. 8. 2020

- Sample ID: TS-47 to TS-50
- Analyses: All samples were analyzed for PCBs. TS-47, in addition to PCBs, was analyzed for Dioxins and Dioxins like PCBs

Business Zone (firefighting station), 7. 8. 2020

- Sample ID: TS-51 and TS-52
- Analyses: All samples were analyzed for PCBs.

Business Zone (next to Eco-trade), 6. 8. 2020

- Sample ID: TS-53 and TS-54
- Analyses: All samples were analyzed for PCBs.

Eco-trade, 6. 8. 2020

- Sample ID: TS-55 and TS-56
- Analyses: All samples were analyzed for PCBs.

Business Zone (production of CS_2), 6. 8. 2020

- Sample ID: TS-57 to TS-60
- Analyses: All samples were analyzed for PCBs.

DE-MI Promet, 7. 8. 2020

- Sample ID: TS-61 and TS-62
- Analyses: All samples were analyzed for PCBs.

Outside INCEL, 31. 7. 2020

- Sample ID: TS-E, TS-SE, TS-WEST1, TS-WEST2
- Analyses: All samples were analyzed for PCBs.

2.3.4 ***Construction material samples***

2.3.4.1 Methodology of sampling work

Samples of construction materials (usually concrete, rarely plaster) possibly contaminated with PCBs were collected in the period 1.-5. 8. 2020 at areas identified as hotspots by previously conducted studies summarized in the TAUW's Phase 1 Report (1). Main focus was at the most contaminated sites, i.e. Lukic Invest (former power plant), area of Electrolyses or Nova Banka and their surroundings. In total 21 samples were collected and analyzed for PCBs. In addition to PCBs, laboratory analyses for presence of heavy metals and petroleum hydrocarbons (TPH) were carried out for selected 2 and 4 samples respectively.

Samples were collected manually by hammer and chisel from the surface into the depth of 0,5-3 cm and then homogenized to ensure an even distribution of a pollutant, if present. Samples were placed into a 150-ml glass jar and stored in a cooling bag covered from sunlight. For each sample a sampling record with

information such as site description, date, weather conditions, matrix type, required analyses, and any important notes that could help to describe the sample, the procedure or the location was prepared (please see Annex VI) and photographs of sampling locations and their surroundings were taken (see Annex IV).

2.3.4.2 Collected sample information

Collected samples are described in the Table 4 below. Location of collected samples is marked in a site plan attached in Annex I.

Table 4: Overview of construction materials samples

Position (hotspot)	No.	ID	Description
SHP Celex	1	CX-1	Concrete desk fragment from an open area between chimney and Celex factory. Sample taken from a lowered area where sediment accumulates.
	2	CX-2	Concrete desk fragment from an open area between chimney and Celex factory. Composite sample of four locations across the area.
Lukic Invest (former power plant)	3	L-1	Small building with two transformer rooms. Samples taken from an inclined floor of transformer basin.
	4	L-2	Small building with two transformer rooms. Samples taken from an inclined floor of transformer basin.
	5	L-3	Black sediment on concrete transformer basin. Transformers were being collected and dismantled here. Partially demolished room adjacent to a main building. Around piles of waste with fragments of asbestos roof.
	6	L-4	Mortar fragment from the floor 2m from location of transformer together with loose plaster fragments on the linoleum floor under metal structure transformers were fit on.
	7	L-5	Surface scratched from a wall with white lime paint behind location of transformers.
	8	L-6	Concrete floor of a warehouse in use (soil piles). Transformers removed from Lukic building across street were stored here before being dismantled at another location (L-3).
	9	L-7	Transformer room in a building in front of the main Lukic building. Plaster with black sediment from inclined floor. Concrete with pebbles.
Universum AD	10	UN-1	Concrete foundation below terrain level. Structure demolished, soil excavated from around there.
	11	UN-2	Concrete platform behind the storage containers with excavated soil.
Nova Banka	12	NB-1	Small room (former office) where fire took place. Composite sample of concrete floor and plaster of walls.
	13	NB-2	Open concrete area. Sample 0-0,2 m drilled by probe (S12/CM).
	14	NB-3	Blackened paint layer inside small room (former office) from under the window opening.
	15	NB-4	Surface scratched from an external wall of the small room (former office), building in front of the University building.
Top Metal	16	TM-CM	Composite sample (4 samples) from the concrete platform at Top Metal. Sampled manually. 0-0.1 cm of the surface.
Business zone (transformers of Viscosis)	17	BZ-T-1	Elevated platform in front of transformer rooms. Flat concrete, oily stains, petroleum smell.
	18	BZ-T-2	Floor from inside a transformer room (concrete).
Business zone (Electrolysis, center, close to I-9)	19	BZ-C-1	Inclined floor of a transformer basin. Front wall demolished.
	20	BZ-C-2	Concrete floor of a large hall. Composite sample of an oily stain at the entrance and two samples of floor and concrete column (30 cm height) in a corner area with black deposits.
	21	BZ-C-3	Surface scratched from a wall. Location same as BZ-C-2.

2.3.5 *Groundwater samples*

The sampling of groundwater from inside of INCEL was carried out between 8.-9. 8. 2020 while the samples of groundwater from outside were collected 8. 8. 2020.It is important to mention that between those dates there was heavy rain that could have influenced the groundwater level measurements.

Prior to the activities, DEKONTA's team chose the location of the samples based on the previous information regarding the two sampling campaigns performed by the Inspectorate and the report performed by TAUW (1). These locations were marked in a map and the sampling team collected the samples from the pre-selected spots making any necessary adjustments of the exact position upon visual inspection of the chosen area.

In order to collect the samples, DEKONTA's team followed the following methodology. For groundwater samples inside INCEL, the groundwater sampling was carried out from newly established probes (10 probes) which were temporary equipped with HDPE hoses of diameter of 25 mm (for scheme of the probe please see Appendix V) and from 4 previously established monitoring wells.

Before taking samples the ground water level (GWL) was measured. Measuring of GWL was performed by Solinst interface detector to check presence or absence of possible LNAPL/DNAPL (layer of organic non aqueous liquid lighter or heavier than water). Hose from peristaltic pump was put into the well to the depth of approximately 20 cm below the water table. The pumping volume was set to maintain GWL up to 10 cm below the state at T_{zero} (level of GW before pumping). Basic parameters were measured during the well purging. The sample of ground water was taken when the measured parameters stabilised or minimum of 3 volumes of borehole water were exchanged. Pumping volume variated around 3 litres/minute. Sampling protocols are attached as Annex VI of this report.

In the following Table 5 physio-chemical parameters obtained during sampling work are presented. Parameters were measured by WTW portable detector.

Table 5: Physio-chemical parameters

Well	Date of sampling	Physico-chemical parameters					Groundwater level (m b.g.l)	Amount of pumped water (l)
		pH	Diss. O_2 (mg/l)	Redox (mV)	Conductivity (µS/cm)	Temperature (°C)		
S-1	*08.08.2020*	8.55	0.61	-68	1 351	15.9	2.64	72
S-4	*08.08.2020*	7.2	1.82	-152	3 042	14.1	2.16	42
S-7	*08.08.2020*	7.2	0.11	-77	940	15.4	1.25	96
S-9	*08.08.2020*	7.56	0.2	-24	1 440	15	2.42	54
S-11	*08.08.2020*	7.32	4.17	90	761	15.1	4	75
S-14	*08.08.2020*	11.1	0.77	-340	2 220	15.7	1.9	66
S-15	*08.08.2020*	6.8	0.51	20	2 620	15.2	1.67	48
S-19	*08.08.2020*	7.33	3.69	-17	1 499	16.3	2.5	75
S-23	*08.08.2020*	7.54	0.99	48	749	20.1	3.18	42
S-29	*08.08.2020*	7.53	0.18	-80	1135	16.1	2.2	39
P-1	*09.08.2020*	7.35	2.18	-216	1372	15.7	2.8	45
P-2	*08.08.2020*	7.48	2.1	79	565	20.4	1.34	105

Well	Date of sampling	Physico-chemical parameters					Groundwater level (m b.g.l)	Amount of pumped water (l)
		pH	Diss. O_2 (mg/l)	Redox (mV)	Conductivity (µS/cm)	Temperature (°C)		
P-3	*09.08.2020*	7.1	1.3	-41	677	17.4	1.55	120
P-4	*08.08.2020*	7.1	0.33	60	718	18.8	2.25	42

In total 14 groundwater samples were collected.

Figure 8: New probe S-1 – measuring basic parameters with WTW instrument

For the groundwater samples outside INCEL, the samples were collected from private wells by tying a rope to the sampling bottle and submerging the bottle inside the well to collect the sample. The bottle was then cleaned and immediately identified with the sample ID number and a sample protocol was filled with information like date, weather conditions, site description, required analyses, matrix type, sampling person and any important notes that could help to describe the sample, the procedure or the location. The collected sample was then stored in a cooling bag away from direct sunlight. This procedure was repeated for all groundwater samples from outside INCEL.

2.3.6 *Sediments samples*

Figure 9: Sediment sampling upstream of sewage channel

The sampling of sediments was carried out 31. 7. 2020. Prior to the activities, DEKONTA's team chose the location of the samples based on the location of the sewage system outlet. In total, three sediment samples were collected, two on the River Vrbas (upstream and downstream of the channel inlet) and one on the sewer channel 2 m upstream the channel.

Samples of sediment were collected by a metal scoop into a 150 ml glass jar. The jar was immediately identified with the sample ID number and a sample protocol was filled with information such as date, weather conditions, site description, required analyses, matrix type, and sampling person. The collected samples were then stored in a cooling bag away from a direct sunlight.

2.4 Geodetic work

Geodetic works were performed on 7. 8. 2020. Between 6. 8. and 9. 8. 2020, aerial photogrammetry of the area of interest took place using UAV (Unmanned Aerial Vehicle) DJI Phantom 4 PRO.

2.4.1 *Methodology*

Geodetic measurement of the new S-probes and old wells coordinates were ensured by subcontracted surveyors, company GEOMARK Banja Luka, in the DKS and WGS84 system. Instrumentation: M109 - GPS Topcon Hiper for detailed measurements. Computational work was carried out in the Geus W 19.x. application. All the geodetic results were afterwards processed in the ArcGis software to obtain sampling point maps, compute surface areas and other operations.

Part of the INCEL site and its peripheral area was mapped using aerial photogrammetry. A portable light UAV (Unmanned Aerial Vehicle) DJI Phantom 4 PRO collected geodata using vertical photogrammetry images captured during a few-hours pre-programmed flight. This way obtained point cloud served for topographical output generation. Also an aerial high resolution image of the site was generated. These outputs will be used to generate the coordinates of the topsoil samples and others.

Figure 10: Geodetic survey of S-20 soil probe

Figure 11: Drone DJI Phantom 4 PRO in operation

2.4.2 ***Results***

A total of 46 points were geodetically surveyed. VP points are used for subsequent evaluation of aerial photogrammetry.

The table below shows coordinates of the geodetic survey points.

Table 6: Geodetic coordinates

Point marking	DKS SYSTEM			WGS84 SYSTEM	
	Y	X	H		
S-1	6439407,8	4958885,98	158,71	17,22938	44,77184763
S-2	6439336,32	4958925,38	158,04	17,22847226	44,77219606
S-3	6439264,54	4958942,57	158,01	17,22756338	44,77234469
S-4	6439237,62	4958951,83	158,26	17,22722223	44,77242564
S-5	6439198,43	4958968,14	157,89	17,22672522	44,77256914
S-6	6439156,56	4958872,64	158,51	17,22620768	44,77170611
S-7	6439184,89	4958858,24	158,23	17,22656734	44,77157897
S-8	6439224,34	4958833,11	158,75	17,22706876	44,77135626
S-9	6439142,73	4958792,49	158,16	17,22604264	44,77098369
S-10	6439171,18	4958772,39	158,47	17,2264045	44,77080528
S-11	6438966,33	4959063,01	157,58	17,22378163	44,77340285
S-12	6438982,84	4959042,07	157,55	17,22399273	44,7732159
S-13	6439264,17	4958969,23	157,22	17,22755552	44,7725845
S-14	6439281,85	4959042,81	158,24	17,22777013	44,77324803
S-15	6439235,08	4959148,36	157,53	17,2271666	44,77419399
S-16	6439186,9	4959087,31	157,61	17,2265652	44,77364044
S-17	6439156,35	4959088,61	157,71	17,22617912	44,7736495
S-18	6439101,14	4959108,72	157,56	17,22547925	44,7738258
S-19	6439091,19	4959126,72	157,65	17,22535139	44,77398689
S-20	6439137,03	4959176,94	157,93	17,22592448	44,77444273

Point marking	DKS SYSTEM			WGS84 SYSTEM	
	Y	X	H		
S-21	6439151,51	4959065,01	157,76	17,22612084	44,77343681
S-22	6439003,24	4959289,21	156,95	17,22422072	44,77544156
S-23	6439045,23	4959248,19	157,1	17,22475608	44,77507603
S-24	6439080,5	4959237,99	156,89	17,22520286	44,7749873
S-25	6439368,04	4959139,79	157,64	17,22884735	44,77412826
S-26	6439717,14	4959022,53	159,38	17,23327151	44,7731027
S-27	6439621,84	4958756,98	160,14	17,23209932	44,77070506
S-28	6439524,03	4958653,14	160,41	17,23087607	44,76976229
S-29	6438790,36	4959141,3	155,98	17,22154913	44,77409227
S-30	6438801,23	4959125,73	155,93	17,2216883	44,77395308
P1	6439177,45	4959082,54	158,33	17,22644637	44,77359678
P2	6439365,17	4959117,96	157,77	17,22881369	44,77393156
P3	6439109,57	4958895,72	158,10	17,22561131	44,77190983
P4	6439125,06	4958798,86	157,97	17,22581867	44,77103955
VP1	6439679,31	4958698,13	160,55	17,23283236	44,77018036
VP2	6439575,22	4958709,66	160,66	17,23151607	44,77027522
VP3	6438745,84	4959149,71	156,32	17,22098567	44,77416411
VP4	6438806,32	4959091,63	155,95	17,2217568	44,77364673
VP5	6438995,85	4959255,98	157,29	17,22413134	44,77514196

3 CONCLUSION

Fieldwork at INCEL was conducted in the period from 28. 7. to 11. 8. 2020. Within this fieldwork the following number of samples were collected: 67 samples of topsoil, 99 samples from soil probes, 3 samples of sediment, 21 samples of construction materials, and 3 samples of groundwater from drinking wells located outside INCEL.

In general terms, despite the Covid-19 pandemic, the field activities were successful. All samples and other information necessary for the next steps of the project were collected. All samples were sent to ALS laboratories in Czech Republic for analyses. Results of the analyses and data evaluation will be part of the Site Assessment Report (Deliverable 2).

4 REFERENCES

(1) Final Report: Phase 1 of the sustainable management of the INCEL industrial zone, December 3, 2019, completed by Tauw by (authors: Boudewijn Fokke and Boris Legovic, project led by Bert Scheffer)

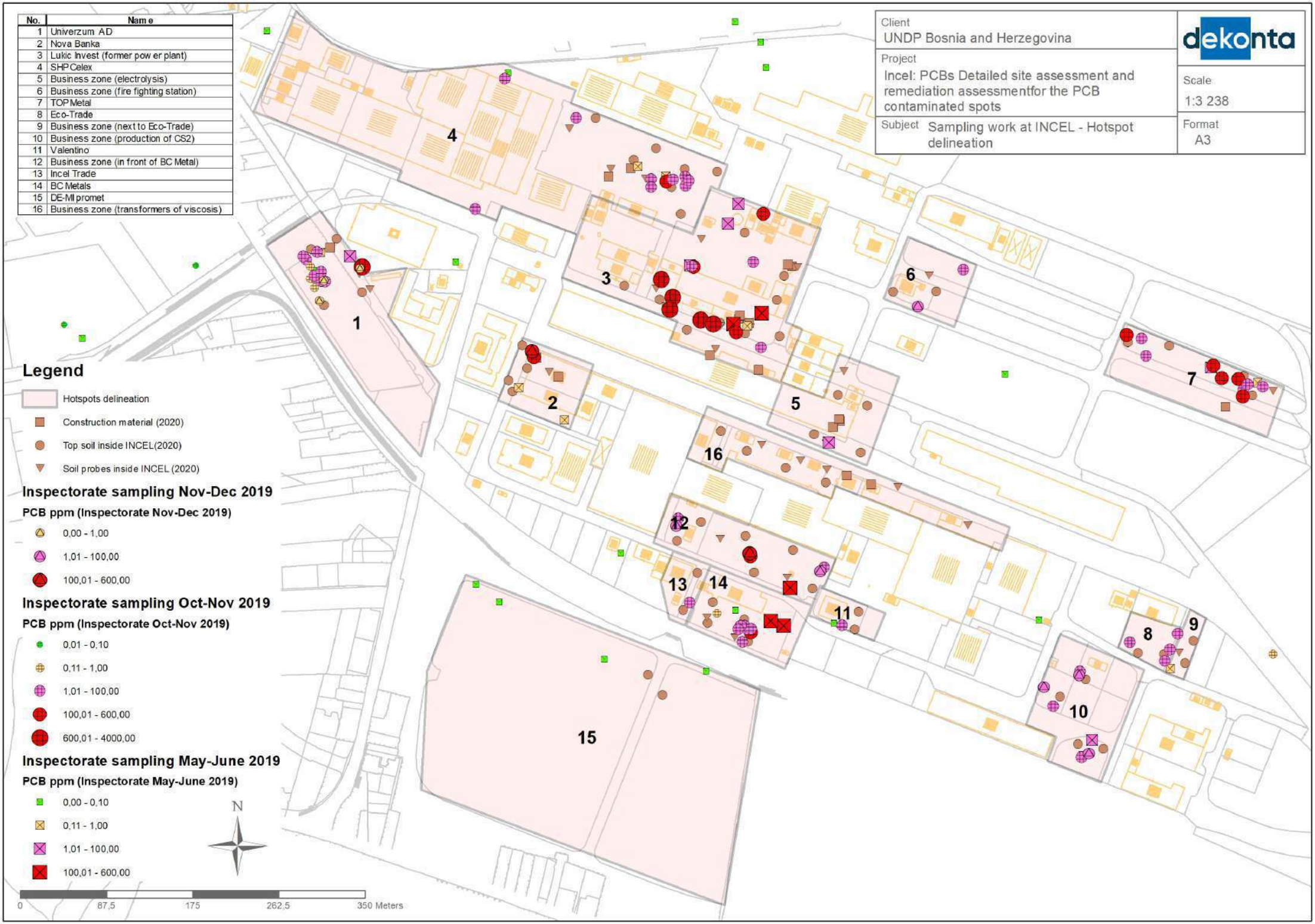
(2) Record on chemical analysis of soil - D. Trkulja S.P. Valentino, Public Research Institution Institute of Ecology of the Republika Srpska, December 2019 (Authors: P. Ilić, S. Račić-Milišić, N. Damjanović, S. Ilić)

(3) Record on chemical analysis of soil - Incel Trade doo, Public Research Institution Institute of Ecology of the Republika Srpska December 2019 (Authors: P. Ilić, S. Račić-Milišić, N. Damjanović, S. Ilić)

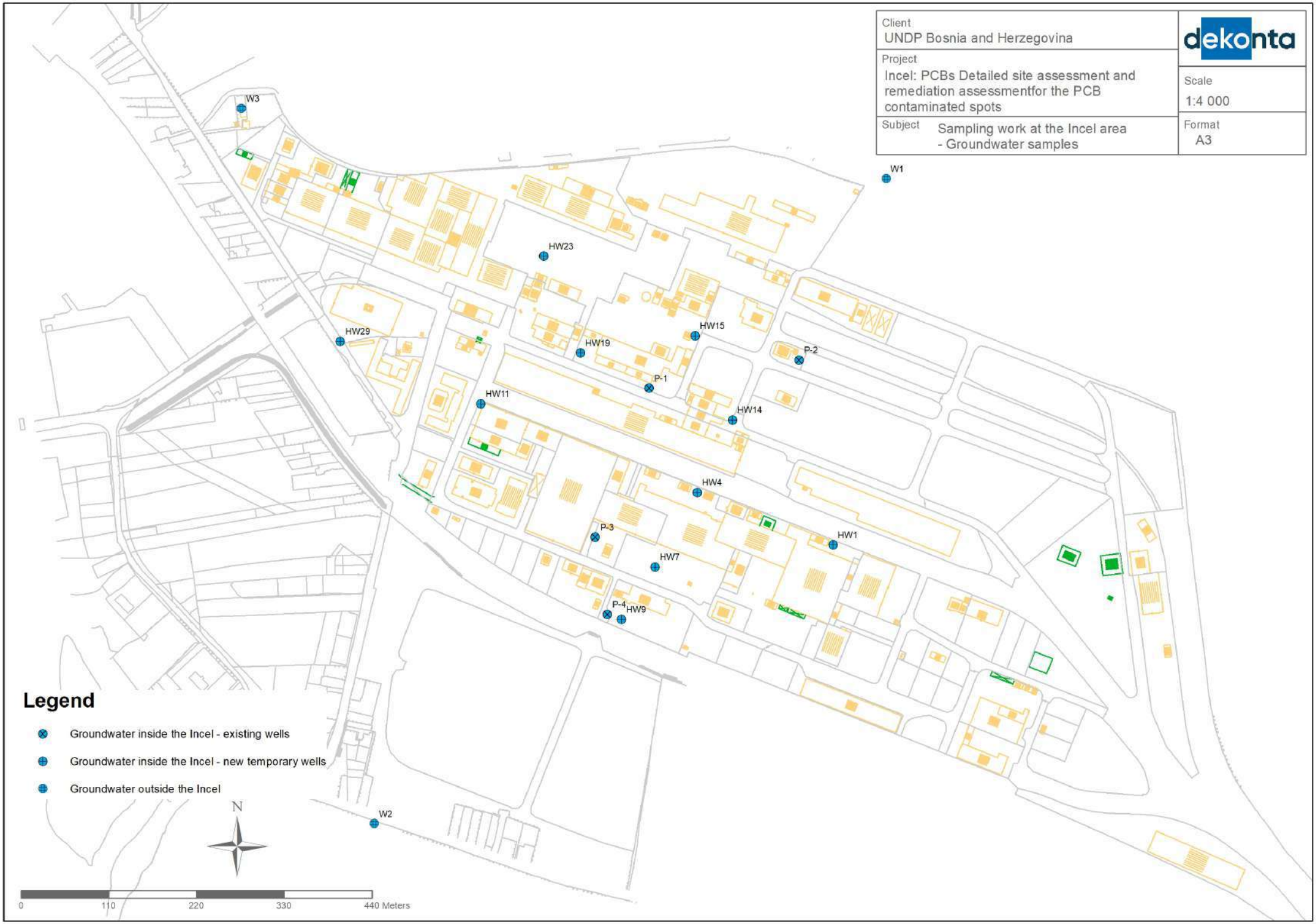
(4) Record on chemical analysis of soil - Poslovna zona ad, Public Research Institution Institute of Ecology of the Republika Srpska November 2019 (Authors: P. Ilić, S. Račić-Milišić, N. Damjanović, S. Ilić)

(5) Record on chemical analysis of soil - Ekvator, Hidro kop, Tempo gradnja, DE-MI promet, Public Research Institution Institute of Ecology of the Republika Srpska , December 2019 (Authors: P. Ilić, S. Račić-Milišić, N. Damjanović, S. Ilic)

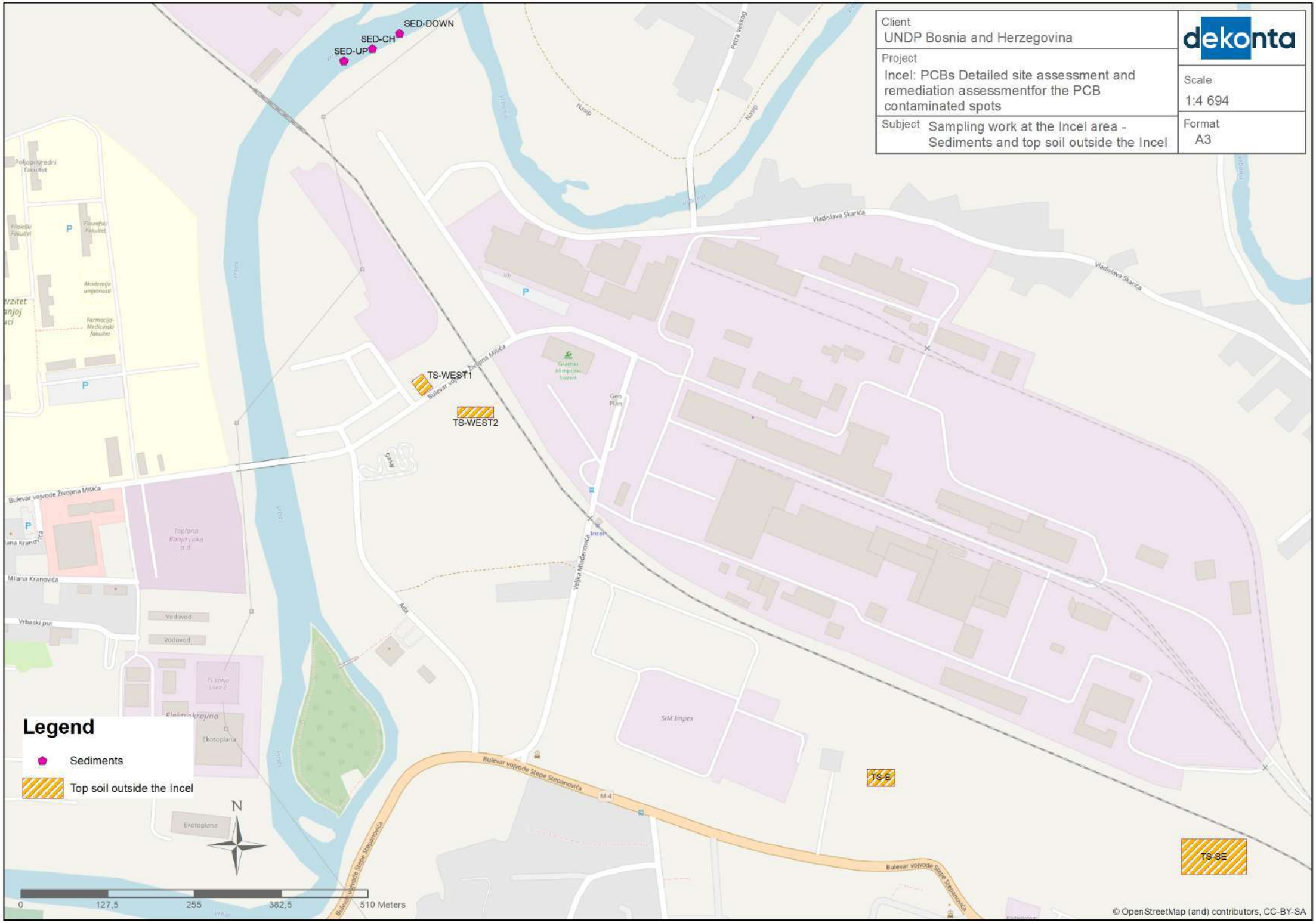
Annex I: GIS map with sampling locations


No. Name
1 Univerzum AD
2 Nova Banka
3 Lukic Invest (former power plant)
4 SHP Celex
5 Business zone (electrolysis)
6 Business zone (fire fighting station)
7 TOP Metal
8 Eco-Trade
9 Business zone (next to Eco-Trade)
10 Business zone (production of CS2)
11 Valentino
12 Business zone (in front of BC Metal)
13 Incel Trade
14 BC Metals
15 DE-Mi promet
16 Business zone (transformers of viscosis)
Client
UNDP Bosnia and Herzegovina
Project
Incel: PCBs Detailed site assessment and remediation assessmentfor the PCB contaminated spots
Subject
Sampling work at INCEL - Hotspot delineation
dekonta
Scale
1:3 238
Format
A3
Legend
Hotspots delineation
Construction material (2020)
Top soil inside INCEL(2020)
Soil probes inside INCEL (2020)
Inspectorate sampling Nov-Dec 2019
PCB ppm (Inspectorate Nov-Dec 2019)
0,00 - 1,00
1,01 - 100,00
100,01 - 600,00
Inspectorate sampling Oct-Nov 2019
PCB ppm (Inspectorate Oct-Nov 2019)
0,01 - 0,10
0,11 - 1,00
1,01 - 100,00
100,01 - 600,00
600,01 - 4000,00
Inspectorate sampling May-June 2019
PCB ppm (Inspectorate May-June 2019)
0,00 - 0,10
0,11 - 1,00
1,01 - 100,00
100,01 - 600,00
N
0
87,5
175
262,5
350 Meters

Client: UNDP Bosnia and Herzegovina	dekonta
Project: Incel: PCBs Detailed site assessment and remediation assessmentfor the PCB contaminated spots	Scale: 1:4 000
Subject: Sampling work at the Incel area - Groundwater samples	Format: A3




Client
UNDP Bosnia and Herzegovina
Project
Incel: PCBs Detailed site assessment and remediation assessmentfor the PCB contaminated spots
Subject
Sampling work at INCEL - Soil probes, top soil and construction material
dekonta
Scale
1:2 962
Format
A3
Legend
Soil probes inside INCEL
Top soil inside INCEL
Construction material
N
0
81,25
162,5
243,75
325 Meters



Client: UNDP Bosnia and Herzegovina	dekonta
Project: Incel: PCBs Detailed site assessment and remediation assessmentfor the PCB contaminated spots	Scale: 1:4 694
Subject: Sampling work at the Incel area - Sediments and top soil outside the Incel	Format: A3

Annex II: Table with all collected samples

Incel Industrial area - Final sampling plan

		Soil samples distribution (pre-selected hotspots by TAUW)												Soil samples distrib. (Inspectorate)				
Sampling matrix	**Outside INCEL area**	**SHP Celex (inl. close vicinity)**	**Lukic Invest (former power plant)**	**Univerzum AD**	**Nova Banka**	**BC Metals**	**TOP Metal**	**Business zone (transformers of viscosis TS1-TS5)**	**Business zone (in front of BC Metal)**	**Business zone (production of CS2, close to I-11)**	**Business zone (Electrolysis, close to I-9)**	**Business zone (fire-fighting station close to P-2)**	**Business zone (beside Eco-trade)**	**Eco-Trade**	**Valentino**	**Incel Trade**	**DE-MI promet**	**Total**
Topsoil 0-0,2 m b.g.l.		6 TS11-TS16	11 TS1-TS10 and L-3A	4 TS43-TS46	4 TS39-TS42	4 TS23-TS26	4 TS47-TS50	4 TS31-TS34	6 TS17-TS22	4 TS57-TS60	4 TS35-TS38	2 TS51-TS52	2 TS53-TS54	2 TS55-TS56	2 TS27-TS28	2 TS29-TS30	2 TS61-TS62	63
Soil probes		3 S22, S23, S24	7 S15 - S21	2 S29, S30	2 S11 - S12	2 S9 - S10	1 S26	5 S1 - S5	3 S6 - S8	1 S28	2 S13, S14	1 S25	1 S27					30
0-0,2 m b.g.l. (topsoil from well/probe)		3 S22/TS, S23/TS, S24/TS	7 S15/TS - S21/TS	2 S29/TS, S30/TS	1 S11/TS	2 S9/TS, S10/TS	1 S26/TS	5 S1/TS - S5/TS	3 S6/TS - S8/TS	1 S28/TS	2 S13/TS, S14/TS	1 S25/TS	1 S27/TS					29
0,2-0,8 m b.g.l.		3 S22/1, S23/1, S24/1	7 S15/1 - S21/1	2 S29/1, S30/1	2 S11/1, S12/1	2 S9/1, S10/1	1 S26/1	5 S1/1 - S5/1	3 S6/1 - S8/1	1 S28/1	2 S13/1, S14/1	1 S25/1	1 S27/1					30
0,8-2 m b.g.l.		2 S23/2, S24/2	6 S15/2-S19/2, S21/2	1 S29/2	2 S11/2, S12/2	2 S9/2, S10/2	1 S26/2	2 S1/2, S4/2	3 S6/2 - S8/2	1 S28/2	1 S14/2	1 S25/2	1 S27/2					23
Groundwater (collected from probes)			2 S15/GW, S19/GW	2 S29/GW, S30/GW	1 S11/GW	1 S9/GW		1 S1/GW	1 S7/GW		1 S14/GW		1 S27/3					10
Total soil/GW samples from soil probes		8	22	7	6	7	3	13	10	3	6	3	4					92
Well - Incel area (newly drilled wells)		1 S-23	2 S-15, S-19	1 S-29	1 S-11	1		2 S-1, S-4	1 S-7		1 S-14							10
Groundwater - Incel area (from existing wells/piezometers)			1 P1			1 P4			1 P3			1 P2						4
Groundwater - outside Incel area	3 W-1, W-2, W3																	3
Sediment from sewer channel	1 SED-CH																	1
River sediments (upstream and downstream)	2 SED-UP, SED-DOWN																	2
Construction materials		2 CX1, CX2	7 L1 - L7	2 UN1, UN2	4 NB1 - NB4		1 TM/CM	2 BZT1, BZT2			3 BZC1 - BZC3							21
Topsoil from the agriculture land	2 TS-E, TS-SE																	2
Topsoil from the area of former WWTP (residential area)	2 TS-WEST1, TS-WEST2																	2
Total																		**200**

Annex III: Introductory working meeting minutes (prepared by UNDP)

Datum: 28 jula. 2020.godine

Mjesto: Banja Luka

Zapisnik sa sastanka u Poslovnoj zoni "Incel" sa predstavnicima kompanije "Dekonta"

Prisutni:

Vladimir Plavšić,	Gradska uprava Banja Luka/Odjeljenje za inspekcijske poslove
Saša Vrućinić,	Gradska uprava Banja Luka/Odjeljenje za komunalne poslove
Ana Štikić,	Gradska uprava Banja Luka/Odjeljenje za prostorno uređenje
Dijana Pepić,	Poslovna zona (PZ) Incel Banja Luka
Svjetlana Radusin,	Ministarstvo za prostorno uređenje, građevinarstvo i ekologiju RS (MPUGE RS)
Svetlana Topić,	Ministarstvo za prostorno uređenje, građevinarstvo i ekologiju RS (MPUGE RS)
Darko Antonić,	Republička uprava za inspekcijske poslove
Dragan Mijović,	Inspektorat RS
Dragan Nikolić,	Inspektorat RS
Ondrej Urban,	Dekonta
Martin Polak,	Dekonta
Denis Fontana,	Dekonta
Jiri Kubriht,	Dekonta
Boris Legović,	Dekonta
Andrea Muharemović,	UNDP
Mirnesa Bajramović,	UNDP

Dana 28. 07. 2020. god. u 13:00 sati, povodom nastavka realizacije aktivnosti na rješavanju problema piralena, na održiv i ekološki prihvatljiv način u poslovnoj zoni (PZ) "Incel" u Banja Luci je održan prvi radni sastanak predstavnika Gradske uprave Banja Luka, Ministarstva za prostorno uređenje, građevinarstvo i ekologiju RS, predstavnika Republičke inspekcije, Poslovne zone Incel, UNDP-a i međunarodne kompanije Dekonta.

Na početku sastanka gđa. Muharemović, UNDP projektni menadžer je dala kratki osvrt prethodnih aktivnosti izvršenih u prvoj fazi, u okviru koje je UNDP angažovao holandsku firmu "Tauw" koja je uradila preliminarnu procijenu rizika u PZ Incel, a uz to izradila i digitalnu mapu sa GSM lokacijama te dala određene preporuke. Po završetku prve faze je objavljen novi tender te je za drugu fazu projektnih aktivnosti, izabrana kompanija "Dekonta" iz Češke Republke, u kooperaciji sa lokalnom kompanijom "Ceteor". U okviru ove faze izvršiti će se detaljno uzimanje uzoraka sa većeg broja lokacija, kao i njihov transport i analiza u Češkoj Republici.

Gđa Radusin iz MPUGE RS se je ovom prilikom pozvala sve prisutne predstavnike institucija na maksimalnu saradnju sa predstavnicima Dekonte.

Nakon početnih komentara, uslijedila je prezentacija gosp. Ondrej Urbana, rukovodioca Odjela za istraživanje i remedijaciju kompanije Dekonte, koji je naveo da se početka radova planira za četvrtak, 30. 07.2020.god., a prije toga je planiran obilazak terena I prikupljanje podataka.

U pogledu PZ Incel g. Urban je naveo da postoje 2 glavna cilja ovog projekta, od kojih prvi cilj uključuje *Procjenu lokacije* gdje će se detaljno izvršiti istraživanje glavnih 7 žarišnih tačaka "hotspot" koje su navedene u ranijem izvještaju koji je uradio "Tauw", uz dodatne četiri lokacije iz izvještaja Inspektorata. Cilj je utvrditi nivo PCB kontaminacije tla i podzemnih voda za ove hotspot tačke, a drugi cilj je odrediti prostornu distribuciju polutanata, tj. horizontalni i vertikalni pravac distribucije. Za početak će biti napravljena procjena sanacije uz procjenu svih relevantnih rizika. Specifični cilj ovog projekta je utvrditi porijeklo PCB, potom njihovu rasprostranjenost u vertikalnom i horizontalnom smislu. U ovom će procesu biti prikupljeno 200 uzoraka koji će svi biti testirani kako na PCB tako i na prisustvo nekih teških metala. Većina uzoraka će biti sa površinskog sloja zemljišta, potom će se uzeti jedan uzorak površinskih voda. Biće napravljena i Procjena rizika u sklopu Procjene lokacije, dakle prijedlog načina kako postupati sa lokacijom, tj. izvršiti će se analiza kombinacije rizika po ljude i okoliš.

U okviru drugog cilja koji obuhvata *Procjenu remedijacije (sanacije)* biće izrađena idejna rješenja za žarišne tačke ne samo na mjestima gdje koncentracija prelazi granične vrijednosti već tamo i gdje treba izvršiti procjenu rizika.

Pošto je Incel velika zona, postoje različiti receptori koji imaju drugačiji nivo osjetljivost, te se neće primjenjivati jedna granična vrijednost, već će se prema procjeni rizika receptora raditi preporuke za idejna rješenja za mjere sanacije tj. mjere skrojene po svrsi za svaku određenu lokaciju.

Dalje, g. Urban je naveo da su u sistem stavili sve okvirne informacije o zagađenosti tla (crvene zvijezde), koje označavaju hotspotove odnosno mjesta sa visokim koncentracijama PCB, ali da se ne zna njihova tačna i precizna lokacija (GPS pozicije) koje su potrebne za dalje radove u fazi dva. Dalje, g. Urban je pokazao plan uzorkovanja, koji će obuhvatiti 7 ranije identificiranih lokacija kao i dodatne 4 lokacije koje su navedene u izvještaju inspektorata.

Nakon završene prezentacije, G. Urban je zamolio prisutne predstavnike institucija za pomoć u pogledu slijedećeg:

1. **GPS pozicije tačnih lokacija uzorkovanja tla, koje su identificirane tokom rada inspekcije u periodu od oktobra-novembra 2019. god.**
2. **Prijedlog pogodnih hidrogeoloških objekata za uzimanje uzoraka vode izvan PZ Incel**
3. **Podatke o kvalitetu zraka**
4. **Dozvole za obavljanje radova (bušenje tla)**

U pogledu prve tačke tj. **GPS pozicija**, gđa Muharemović je dodala da je krajem godine došla informacija da postoje rezultati novih mjerenja, koji su distribuirani, ali da su potrebni podaci za precizne koordinate tačaka uzorkovanja koje Projekat ne posjeduje. U tom smislu zamoljeno je Odjeljenje za inspekcijske poslove Grada Banja Luku, po čijem inspekcijskom nalogu su rađene te analize da dostavi ove podatke Kompaniji Dekonta. Prisutni predstavnik, G. Plavšić iz GU Banja Luka- Odjeljenje za inspekcijske poslove je rekao da on lično ne posjeduje te podatke, jer je njegova kolegica-inspektor samostalno vodila postupak i ne vidi načina kako da dođe do njih, ali da Institut za ekologiju i zaštitu ima podatke. Nakon kraće diskusije u vezi ove tačke zaključeno je da se konsultanti pismeno obrate (putem e-maila) radnoj grupi u cilju dobivanja podataka. Gđa Muharemović je podsjetila na sporazum o saradnji sa Gradom Banja Luka u kome je navedeno da će predstavnici radne grupe pružiti svu potrebnu pomoć u okviru svojih nadležnosti na terenu, tj. da će radna grupa pomoći konsultantu da stupi u kontakt sa svim relevantnim učesnicima. G. **Muharemović je zaključila da se konsultanti trebaju obratiti pismeno**

Odjeljenju za inspekciju, a g. Legović je dodao da su podaci prikupljeni na osnovu naloga Inspekcije, odnosno da oni moraju biti negdje u posjedu inspekcije. Gđa. Radusin iz MPUGE RS je također navela da će pokušati dobiti nalaze od Instituta.

U pogledu **druge tačke tj. prijedloga pogodnih hidrogeoloških objekata za uzimanje uzoraka** , G. Urban je naveo da se u ovom period planira prikupiti 16 uzoraka podzemnih voda unutar PZ "Incel", plus uzimanje uzoraka sa tri dodatne lokacije izvan PZ Incela za koje je od prisutnih zatražen adekvatan prijedlog takvih pogodnih hidro-geološki objekata (privatni ili javni bunari). **Nakon kraće diskusije, zaključeno je da prisutni nemaju konkretne prijedloge za ove objekte,** već da konsultanti konsultuju hidrogeološke karte uz napomenu da je 2015. godine urađen Regulacioni Plan poslovne zone, u kome trebaju biti hidrogeološke karte.

U pogledu **treće tačke, tj. podataka o kvalitetu zraka**, **zaključeno** je da postojeće analize kvaliteta zraka koje se vrše na pet lokacija ne obuhvataju analizu na organske polutante niti teške metale, te da nije moguće obezbijediti takve podatke.

Kada je u pitanju posljednja, tj. četvrta tačka, konsultant je postavio pitanje da li je potrebno dobiti prethodne **dozvole ili saglasnosti za radove (bušenje I sl,) koji moraju biti izvršeni** u cilju prikupljanja uzoraka, obzirom da su neke hotspot lokacije u privatnom vlasništvu. Na ovo pitanje predstavnica Poslovne zone je odgovorila da su dozvoljavali u prethodnom periodu sve radove po nalogu inspektora ali da za privatne subjekte ne može ništa potvrditi sa sigurnošću. Predstavnici MPUGE RS, Republičke Inspkecije te UNDP su dali prijedlog da poslovna zona iskoristi svoj položaj i uticaj upravljača i **urgira kod svih subjekata sa ciljem rješavanja ovog problema. Zaključeno je da će poslovna zona poslati službeni dopis (srijeda 29. 07.2020) svim privrednim subjektima gdje će tražiti postupanje odnosno dozvolu pristupa i uzimanja uzoraka na lokacijima**. G. Urban je predložio da se u interesu vremena prve lokacije uzimanja uzoraka obuhvate javni dio poslovne zone, a potom da se proces proširi na druge.

Na kraju sastanka, G. Urban je pozvao prisutne ako su zainteresovani da budu prisutni poslovima uzorkovanja. Zaključeno je da kada bude poznato kad i kako će se vršiti uzorkovanje (dinamički plan), da će se takva informacija poslati predstavnicima radne grupe jer je u naredne tri sedmice ključna komunikacija između svih aktera.

Annex IV: Photo-documentation of construction materials sampling

Annex IV: Photo-documentation of construction materials sampling

Figure 1: SHP Celex (samples CX-1, CX-2)

Figure 2: Two transformer rooms at Lukic Invest (former power plant, samples L-1, L-2)

Figure 3: Lukic Invest (former power plant, sample L-1)

Figure 4: Lukic Invest (former power plant, samples L-3 from outside on the right, L-4 and L-5 from inside the building on the right side)

Figure 5: Lukic Invest (former power plant, sample L-3)

Figure 6: Lukic Invest (former power plant, sample L-4 from under the metal transformers structure, L-5 from the wall behind it)

Figure 7: Lukic Invest (former power plant, sample L-5)

Figure 8: Lukic Invest (former power plant, sample L-6)

Figure 9: Lukic Invest (former power plant, sample L-6)

Figure 10: Lukic Invest (former power plant, sample L-7)

Figure 11: Universum (samples UN-1 on the left (out of picture) and UN-2 on the right behind the conteiners

Figure 12: Universum (sample UN-1)

Figure 13: Universum (sample UN-2)

Figure 14: Nova Banka (sample NB-1)

Figure 15: Nova Banka (sample NB-2)

Figure 16: Nova Banka (sample NB-3)

Figure 17: Nova Banka (NB-4)

Figure 18: Business zone - transformers of Viscosis (sample BZ-T-1)

Figure 19: Business zone - transformers of Viscosis (sample BZ-T-2)

Figure 20: Business zone - transformers of Viscosis (sample BZ-T-2)

Figure 21: Business zone - Electrolysis, center (sampes BZ-C-1 from inside a transformer room on the left and BZ-C-2,3 from inside the main hall with entrance on the right)

Figure 22: Business zone - Electrolysis, center (sample BZ-C-1)

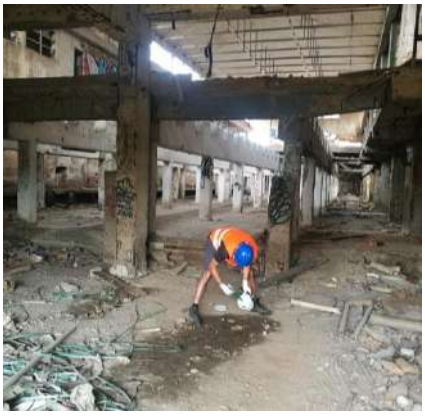


Figure 23: Business zone - Electrolysis, center (sample BZ-C-2)

Figure 24: Business zone - Electrolysis, center (sample BZ-C-2)

Figure 25: Business zone - Electrolysis, center (sample BZ-C-2)

Figure 26: Business zone - Electrolysis, center (sample BZ-C-3)

Annex V: Borelogs with indication of sampled horizon, the organoleptic observations, groundwater level, etc.

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BOREHOLE LOG S-1

Project: INCEL, Banja Luka, PCBs DETAILED SITE ASSESSMENT

Operator: M. Beard
Date: 30.07.2020

Purpose: PCB survey

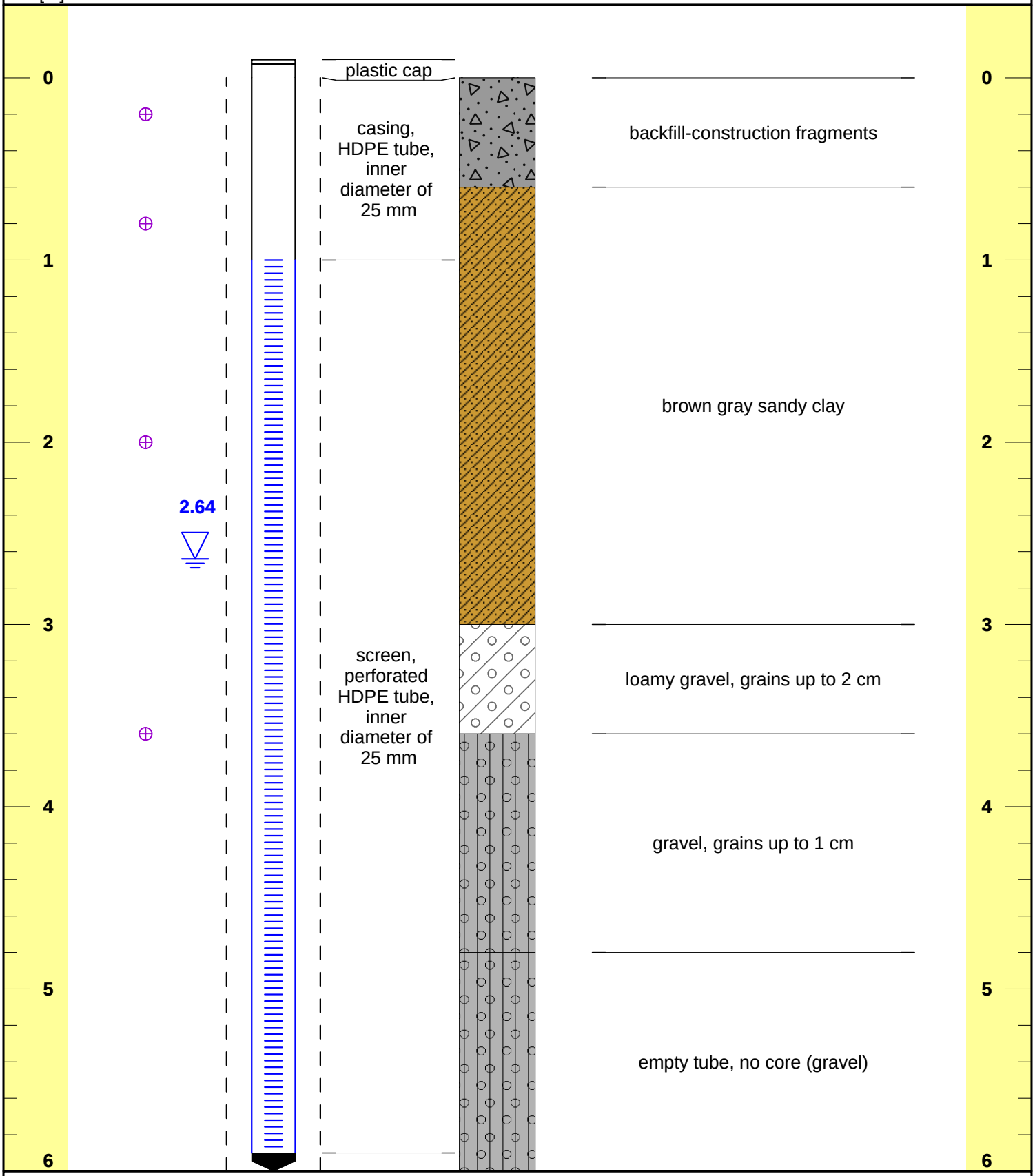
Drilling method: Direct Push 80 mm

Drilling rig: Geoprobe

X: 4958885.98
Y: 6439407.80
Z: 158.71

Probe depth: 6 m

GWL: 2.64 m



Legend: ⊕ Soil sample was collected from interval above and between the marks

Scale: 1 : 440

Recorded by: Kubricht	Evaluated by: Kubricht	Compiled by: Polak		**Appendix no.: V**

DEKONTA a.s., Volutová 2523
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BOREHOLE LOG

S-2

Project: INCEL, Banja Luka, PCBs DETAILED SITE ASSESSMENT

Operator: M. Beard
Date: 30.07.2020

Purpose: PCB survey

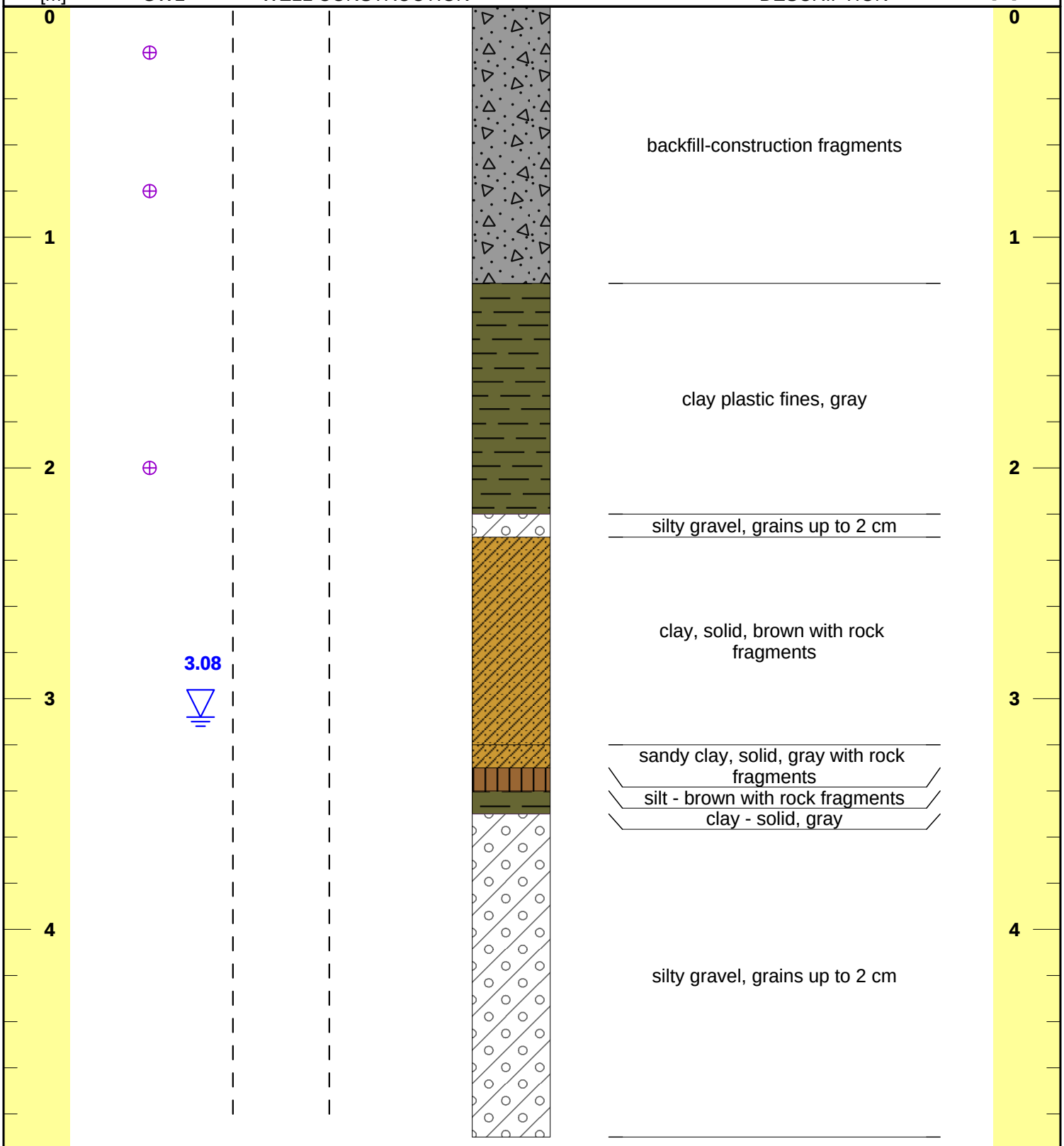
Drilling method: Direct Push 80 mm

Drilling rig: Geoprobe 7822 DT

X: 4958925.38
Y: 6439336.32
Z: 158.04

Probe depth: 4.8 m

GWL: 3.08 m



Legend: ⊕ Soil sample was collected from interval above and between the marks

Scale: 1 : 440

Recorded by: Kubricht	Evaluated by: Kubricht	Compiled by: Polak		**Appendix no.: V**

DEKONTA a.s., Volutová 2523
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BOREHOLE LOG S-3

Project: INCEL, Banja Luka, PCBs DETAILED SITE ASSESSMENT

Operator: M. Beard
Date: 30.07.2020

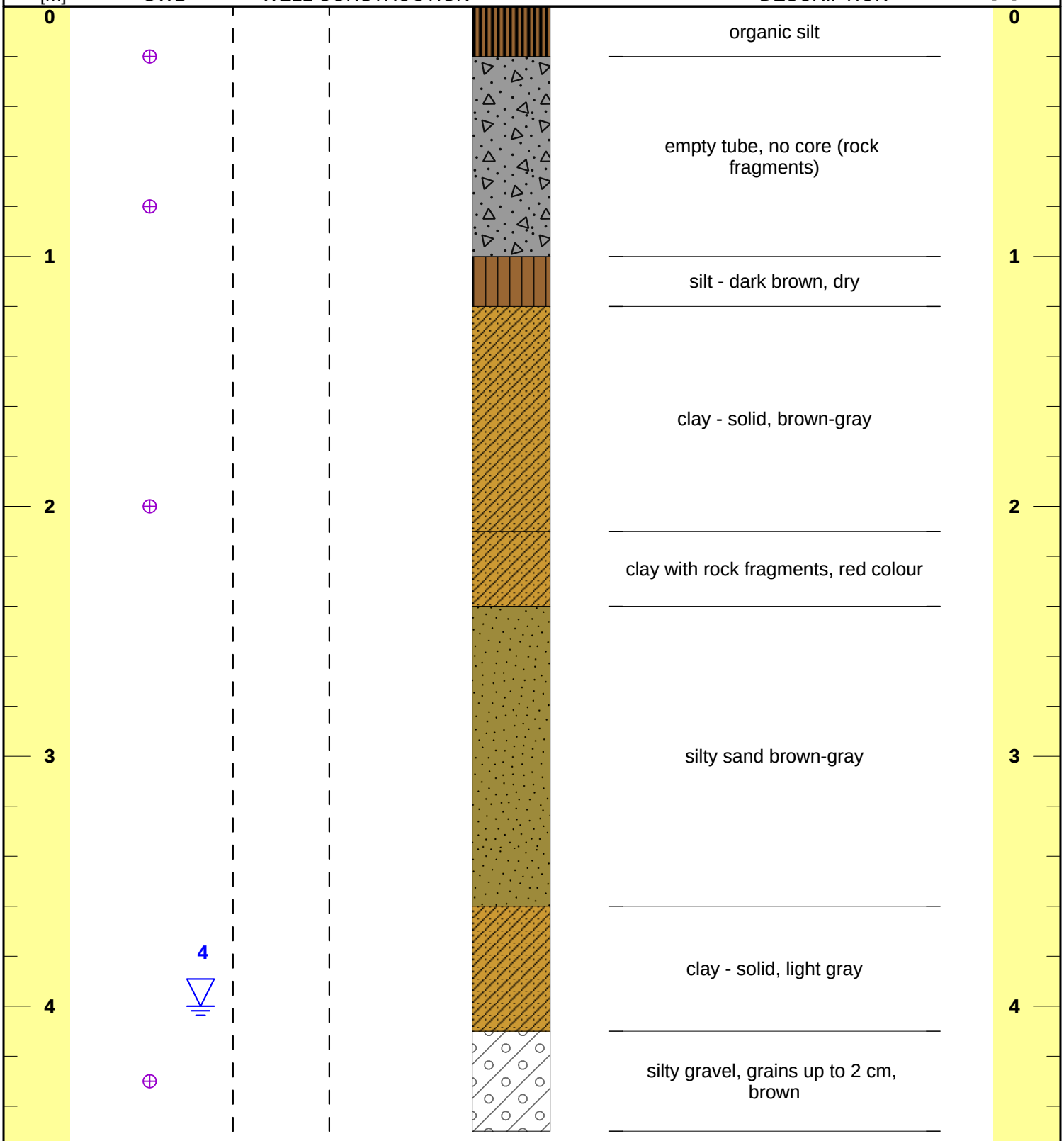
Purpose: PCB survey

Drilling method: Direct Push 80 mm

Drilling rig: Geoprobe 7822 DT

X: 4958942.57
Y: 6439264.54
Z: 158.01

Probe depth: 4.5 m GWL: 4 m



Legend: ⊕ Soil sample was collected from interval above and between the marks

Scale: 1 : 440

Recorded by: Kubricht	Evaluated by: Kubricht	Compiled by: Polak		**Appendix no.: V**

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BOREHOLE LOG

S-4

Project: INCEL, Banja Luka, PCBs DETAILED SITE ASSESSMENT

Operator: M. Beard
Date: 31.07.2020

Purpose: PCB survey

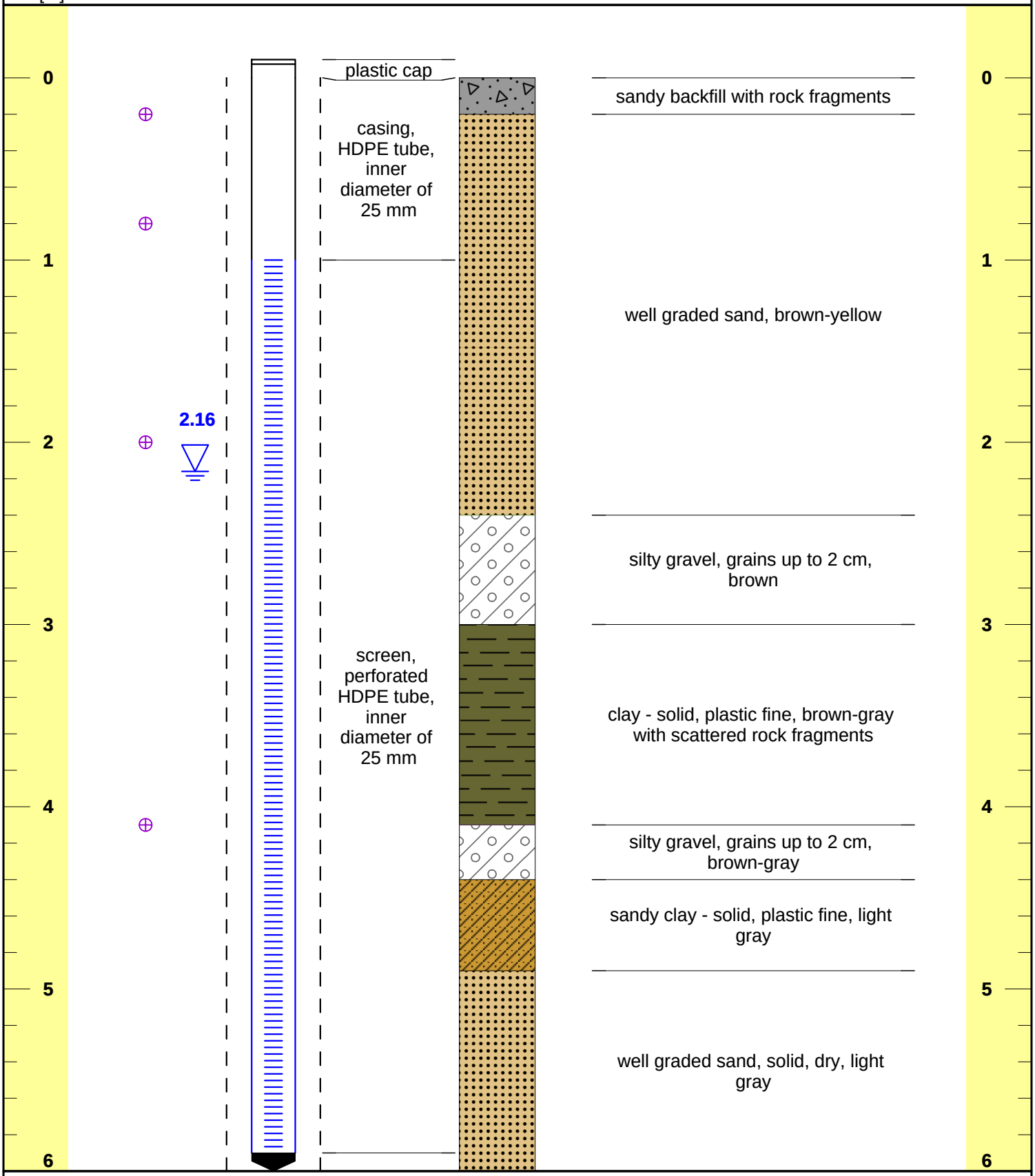
Drilling method: Direct Push 80 mm

Drilling rig: Geoprobe 7822 DT

X: 4958951.83
Y: 6439237.62
Z: 158.26

Probe depth: 6 m

GWL: 2.16 m



Legend: ⊕ Soil sample was collected from interval above and between the marks

Scale: 1 : 440

Recorded by: Kubricht	Evaluated by: Kubricht	Compiled by: Polak		**Appendix no.: V**

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BOREHOLE LOG S-5

Project: INCEL, Banja Luka, PCBs DETAILED SITE ASSESSMENT

Operator: M. Beard
Date: 31.07.2020

Purpose: PCB survey

Drilling method: Direct Push 80 mm

Drilling rig: Geoprobe 7822 DT

X: 4958968.14
Y: 6439198.43
Z: 157.89

Probe depth: 4.8 m

GWL: 3.5 m

DEPTH [m]	SOIL SAMPLES / GWL / WELL CONSTRUCTION	LITHOLOGY	GEOLOGICAL DESCRIPTION	DEPTH [m]
0	⊕		sandy backfill with rock fragments	0
1	⊕		well graded sand, solid, clayey, gray-orange	1
2	⊕		sandy silt, clayey, rock fragments, brown-gray	2
3	3.5 ▽		silty gravel, grains up to 2 cm, brown	3
4			well graded sand, solid, dry, gray	4

Legend: ⊕ Soil sample was collected from interval above and between the marks

Scale: 1 : 440

Recorded by: Kubricht	Evaluated by: Kubricht	Compiled by: Polak		**Appendix no.: V**

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BOREHOLE LOG S-6

Project: INCEL, Banja Luka, PCBs DETAILED SITE ASSESSMENT

Operator: M. Beard
Date: 31.07.2020

Purpose: PCB survey

Drilling method: Direct Push 80 mm

Drilling rig: Geoprobe 7822 DT

X: 4958872.64
Y: 6439156.56
Z: 158.51

Probe depth: 4.8 m GWL: 3.5 m

DEPTH [m]	SOIL SAMPLES / GWL / WELL CONSTRUCTION	LITHOLOGY	GEOLOGICAL DESCRIPTION	DEPTH [m]
0	⊕		organic silt, brown	0
			sandy backfill with rock fragments	
	⊕			
1			clay - solid, plastic fine, dark brown	1
2	⊕			2
			sand, claey, brown - brown-gray with rock fragments	
3				3
	3.5 ▽			
			sand, brown-yellow with rock fragments up to 5 cm	
4				4

Legend: ⊕ Soil sample was collected from interval above and between the marks

Scale: 1 : 440

Recorded by: Kubricht	Evaluated by: Kubricht	Compiled by: Polak		**Appendix no.: V**

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DEKONTA a.s., Volutová 2523
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BOREHOLE LOG

S-7

Project: INCEL, Banja Luka, PCBs DETAILED SITE ASSESSMENT

Operator: M. Beard
Date: 01.08.2020

Purpose: PCB survey

Drilling method: Direct Push 80 mm

Drilling rig: Geoprobe 7822 DT

X: 4958858.24
Y: 6439184.89
Z: 158.23

Probe depth: 6 m

GWL: 1.25 m

DEPTH [m]	SOIL SAMPLES / GWL	WELL CONSTRUCTION	LITHOLOGY	GEOLOGICAL DESCRIPTION	DEPTH [m]
0		plastic cap		organic silt, sandy, brown with rock fragments	0
		casing, HDPE tube, inner diameter of 25 mm		backfill of limestone gravel	
1	1.25				1
2				clay - solid, plastic fine, dark brown with rock fragments up to 2 cm	2
3				sandy silt, clayey, rock fragments, dark brown	3
		screen, perforated HDPE tube, inner diameter of 25 mm			
4				silty gravel, grains up to 2 cm, brown	4
5				well graded sand, solid, light gray	5
6					6

Legend: ⊕ Soil sample was collected from interval above and between the marks

Scale: 1 : 440

Recorded by: Kubricht	Evaluated by: Kubricht	Compiled by: Polak		**Appendix no.: V**

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BOREHOLE LOG

S-8

Project: INCEL, Banja Luka, PCBs DETAILED SITE ASSESSMENT

Operator: M. Beard
Date: 01.08.2020

Purpose: PCB survey

Drilling method: Direct Push 80 mm

Drilling rig: Geoprobe 7822 DT

X: 4958833.11
Y: 6439224.34
Z: 158.75

Probe depth: 4.8 m

GWL: 3.5 m

DEPTH [m]	SOIL SAMPLES / GWL / WELL CONSTRUCTION	LITHOLOGY	GEOLOGICAL DESCRIPTION	DEPTH [m]
0	⊕		organic silt, brown with rock fragments	0
			sandy backfill with rock fragments	
1	⊕			1
			sandy silt, clayey, solid, brown-yellow	
2	⊕			2
3	3.5 ▽		sandy silt, clayey, solid, green spots	3
			sandy silt, clayey, solid, black	
4			sandy gravel, grains up to 2 cm, brown	4

Legend: ⊕ Soil sample was collected from interval above and between the marks

Scale: 1 : 440

Recorded by: Kubricht | Evaluated by: Kubricht | Compiled by: Polak

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BOREHOLE LOG S-9

Project: INCEL, Banja Luka, PCBs DETAILED SITE ASSESSMENT

Operator: M. Beard
Date: 01.08.2020

Purpose: PCB survey

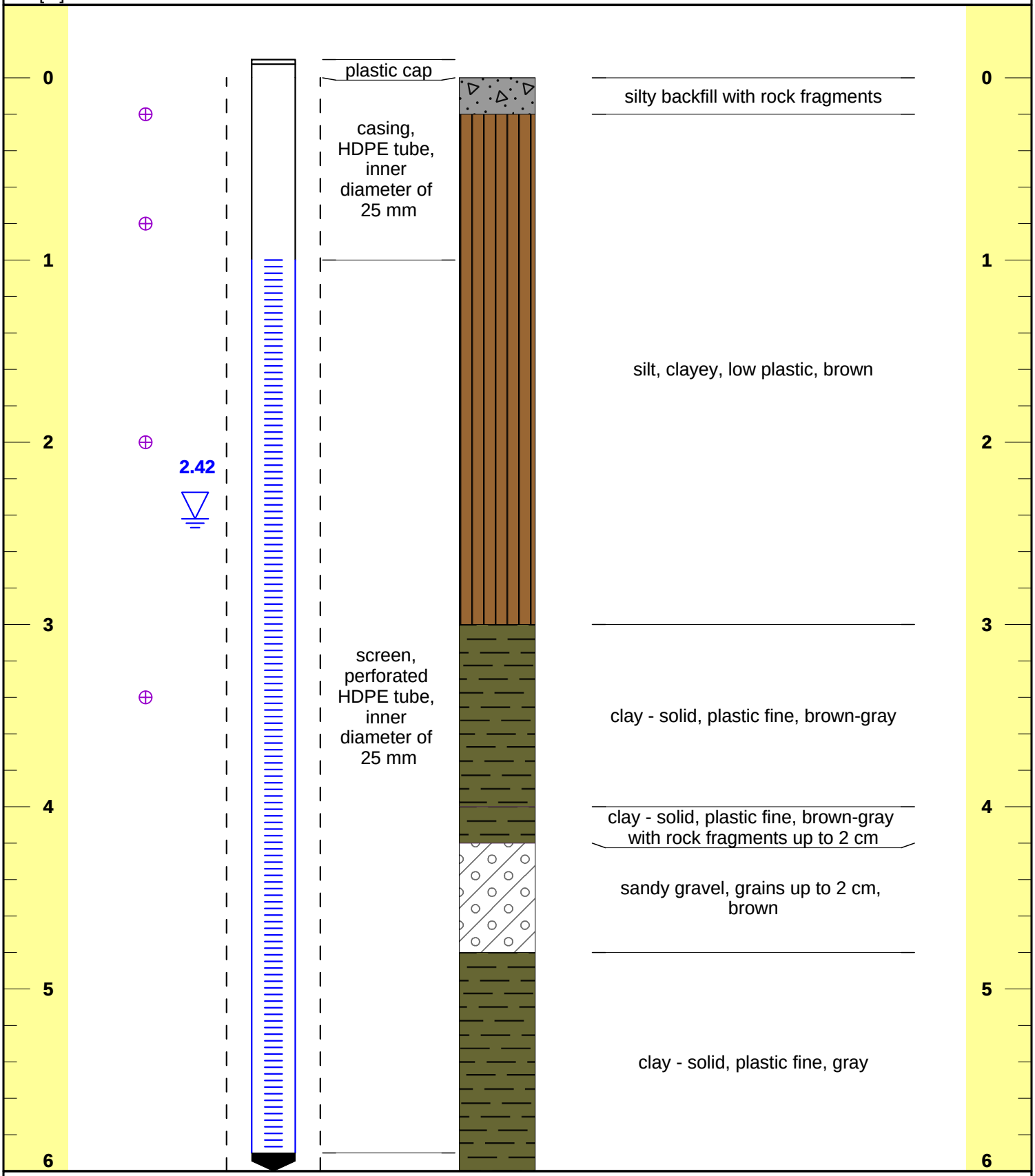
Drilling method: Direct Push 80 mm

Drilling rig: Geoprobe 7822 DT

X: 4958792.49
Y: 6439142.73
Z: 158.16

Probe depth: 6 m

GWL: 2.42 m



Legend: ⊕ Soil sample was collected from interval above and between the marks

Scale: 1 : 440

Recorded by: Kubricht	Evaluated by: Kubricht	Compiled by: Polak		**Appendix no.: V**

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BOREHOLE LOG

S-10

Project: INCEL, Banja Luka, PCBs DETAILED SITE ASSESSMENT

Operator: M. Beard
Date: 01.08.2020

Purpose: PCB survey

Drilling method: Direct Push 80 mm

Drilling rig: Geoprobe 7822 DT

X: 4958772.39
Y: 6439171.18
Z: 158.47

Probe depth: 3.6 m

GWL: 3.6 m

DEPTH [m]	SOIL SAMPLES / GWL / WELL CONSTRUCTION	LITHOLOGY	GEOLOGICAL DESCRIPTION	DEPTH [m]
0	⊕		organic silt, dark brown	0
1	⊕		silt, clayey with rock fragments, brown	1
2	⊕			2
3	3.6 ▽		clay - solid, plastic fine, gray	3

Legend: ⊕ Soil sample was collected from interval above and between the marks

Scale: 1 : 440

Recorded by: Kubricht	Evaluated by: Kubricht	Compiled by: Polak		**Appendix no.: V**

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BOREHOLE LOG S-11

Project: INCEL, Banja Luka, PCBs DETAILED SITE ASSESSMENT

Operator: M. Beard
Date: 01.08.2020

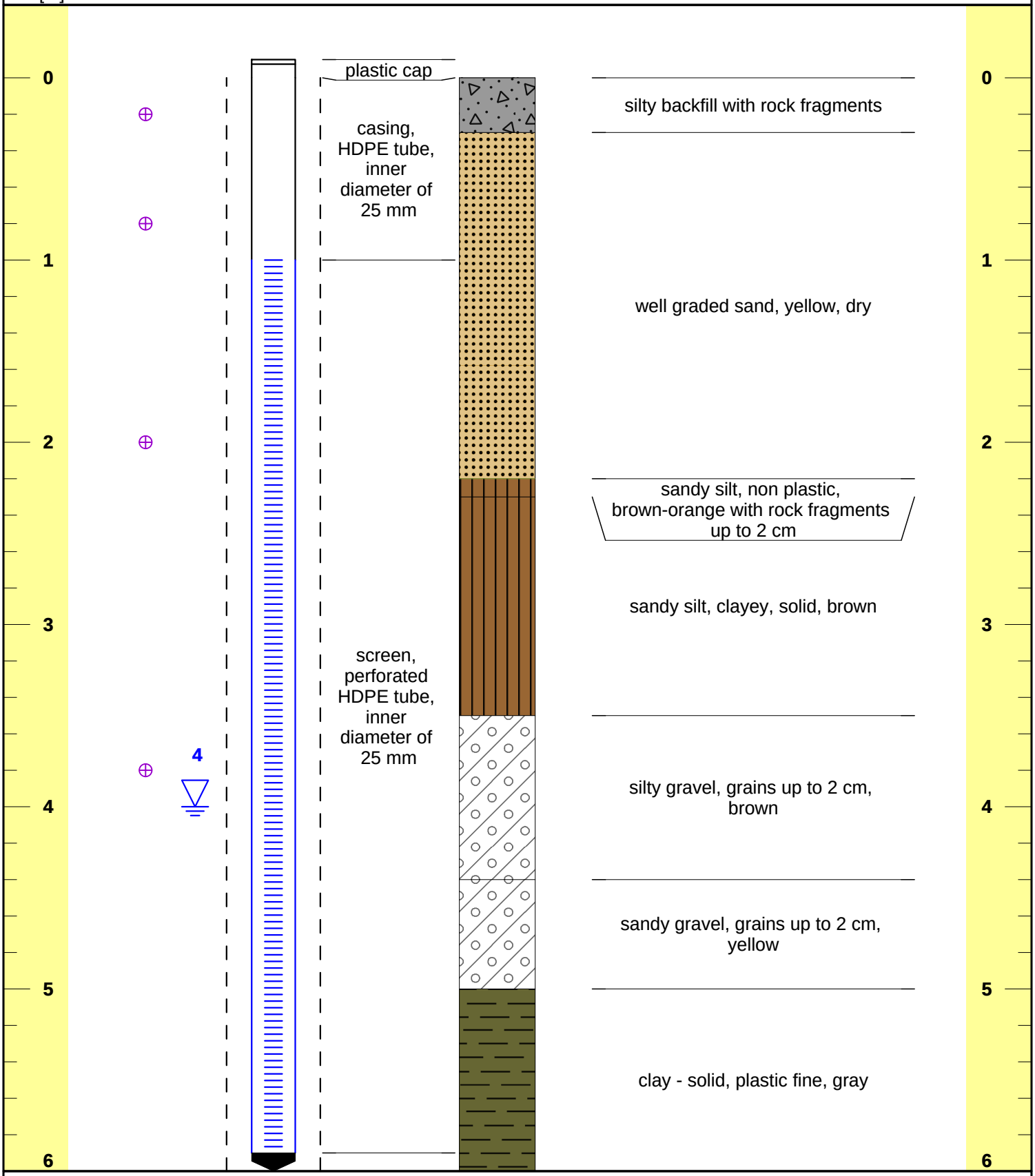
Purpose: PCB survey

Drilling method: Direct Push 80 mm

Drilling rig: Geoprobe 7822 DT

X: 4959063.01
Y: 6438966.33
Z: 157.58

Probe depth: 6 m GWL: 4 m



Legend: ⊕ Soil sample was collected from interval above and between the marks

Scale: 1 : 440

Recorded by: Kubricht	Evaluated by: Kubricht	Compiled by: Polak		**Appendix no.: V**

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BOREHOLE LOG S-12

Project: INCEL, Banja Luka, PCBs DETAILED SITE ASSESSMENT

Operator: M. Beard
Date: 02.08.2020

Purpose: PCB survey

Drilling method: Direct Push 80 mm

Drilling rig: Geoprobe 7822 DT

X: 4959042.07
Y: 6438982.84
Z: 157.55

Probe depth: 3.6 m

GWL: 3.1 m

DEPTH [m]	SOIL SAMPLES / GWL	WELL CONSTRUCTION	LITHOLOGY	GEOLOGICAL DESCRIPTION	DEPTH [m]
0	⊕		concrete	concrete	0
			backfill from limestone gravel	backfill from limestone gravel	
1	⊕		black-gray silt, clayey, solid	black-gray silt, clayey, solid	1
2	⊕		sandy clay - solid, plastic fine, dark brown	sandy clay - solid, plastic fine, dark brown	2
			silty gravel, solid, brown-gray	silty gravel, solid, brown-gray	
3	3.1 ▽		well graded sand, brown-yellow, dry	well graded sand, brown-yellow, dry	3
			silty gravel, brown-gray with rock fragments up to 2 cm	silty gravel, brown-gray with rock fragments up to 2 cm	

Legend: ⊕ Soil sample was collected from interval above and between the marks

Scale: 1 : 440

Recorded by: Kubricht	Evaluated by: Kubricht	Compiled by: Polak		**Appendix no.: V**

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BOREHOLE LOG S-13

Project: INCEL, Banja Luka, PCBs DETAILED SITE ASSESSMENT

Operator: M. Beard
Date: 02.08.2020

Purpose: PCB survey

Drilling method: Direct Push 80 mm

Drilling rig: Geoprobe 7822 DT

X: 4958969.23
Y: 6439264.17
Z: 157.22

Probe depth: 3.6 m GWL: 2 m

DEPTH [m]	SOIL SAMPLES / GWL / WELL CONSTRUCTION	LITHOLOGY	GEOLOGICAL DESCRIPTION	DEPTH [m]
0	⊕		organic silt, dark brown	0
1	⊕		silty backfill with rock fragments	1
2	2 ▽		clayey gravel, brown-yellow	2
3			sandy gravel, grains up to 2 cm, yellow-gray	3
			clay - solid, plastic fine, gray	

Legend: ⊕ Soil sample was collected from interval above and between the marks

Scale: 1 : 440

Recorded by: Kubricht | Evaluated by: Kubricht | Compiled by: Polak | **Appendix no.: V**

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BOREHOLE LOG

S-14

Project: INCEL, Banja Luka, PCBs DETAILED SITE ASSESSMENT

Operator: M. Beard
Date: 03.08.2020

Purpose: PCB survey

Drilling method: Direct Push 80 mm

Drilling rig: Geoprobe 7822 DT

X: 4959042.75
Y: 6439281.83
Z: 158.23

Probe depth: 6 m

GWL: 1.9 m

DEPTH [m]	SOIL SAMPLES / GWL	WELL CONSTRUCTION	LITHOLOGY	GEOLOGICAL DESCRIPTION	DEPTH [m]
0	⊕	plastic cap		organic silt, sandy, light brown	0
	⊕	casing, HDPE tube, inner diameter of 25 mm		silty backfill with limestone rock fragments	
1					1
	1.9 ▽			sandy backfill with construction fragments	
2	⊕				2
3		screen, perforated HDPE tube, inner diameter of 25 mm		sandy gravel, grains up to 2 cm, brown	3
	⊕				
4					4
5				clay - solid, plastic fine, gray	5
6					6

Legend: ⊕ Soil sample was collected from interval above and between the marks

Scale: 1 : 440

Recorded by: Kubricht	Evaluated by: Kubricht	Compiled by: Polak		**Appendix no.: V**

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BOREHOLE LOG S-15

Project: INCEL, Banja Luka, PCBs DETAILED SITE ASSESSMENT

Operator: M. Beard
Date: 03.08.2020

Purpose: PCB survey

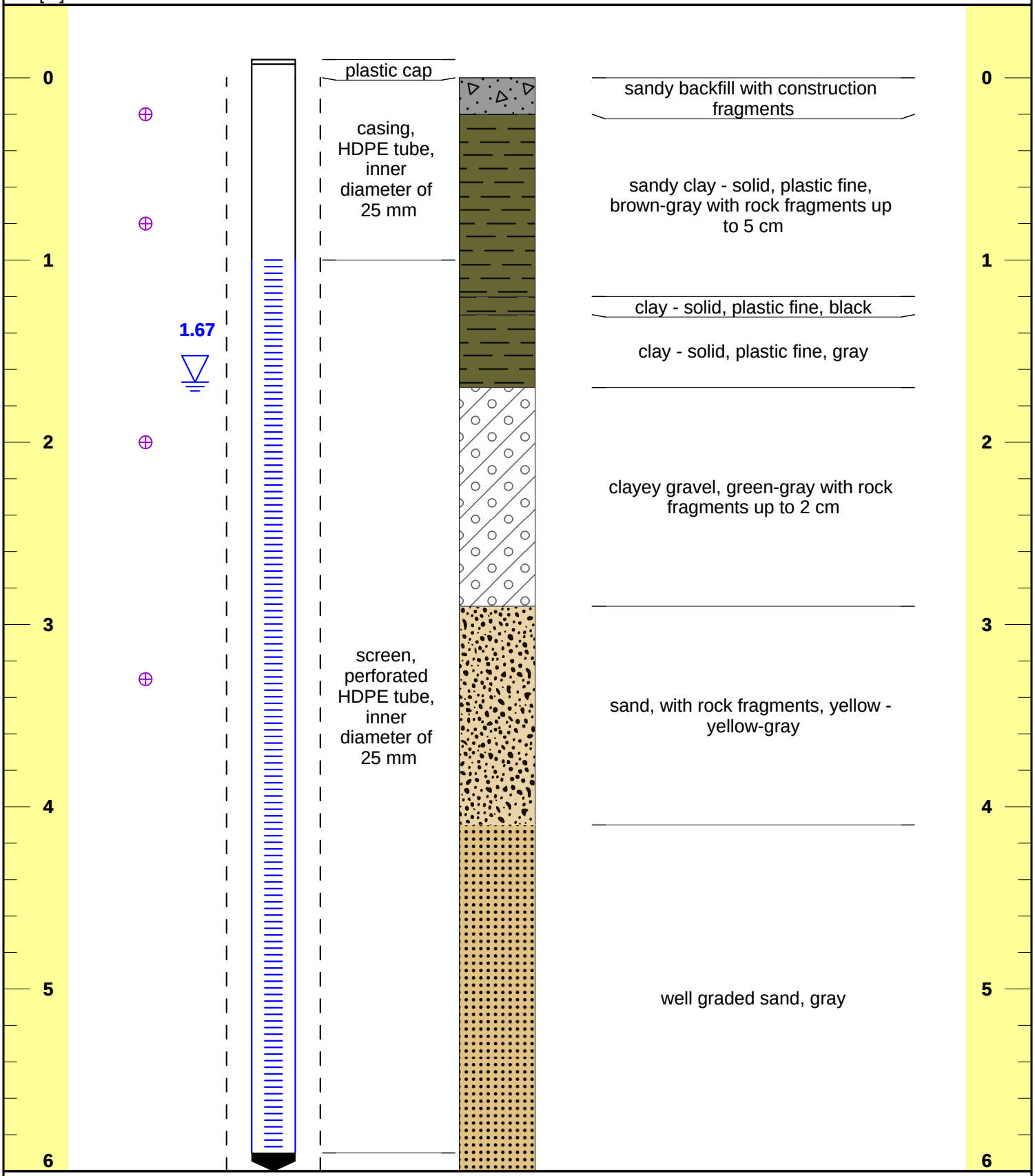
Drilling method: Direct Push 80 mm

Drilling rig: Geoprobe 7822 DT

X: 4959148.36
Y: 6439235.08
Z: 157.53

Probe depth: 6 m

GWL: 1.67 m



Legend: ⊕ Soil sample was collected from interval above and between the marks

Scale: 1 : 440

Recorded by: Kubricht	Evaluated by: Kubricht	Compiled by: Polak		**Appendix no.: V**

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DEKONTA a.s., Volutová 2523
158 00 PRAHA 5

BOREHOLE LOG

S-16

Project: INCEL, Banja Luka, PCBs DETAILED SITE ASSESSMENT

Operator: M. Beard
Date: 03.08.2020

Purpose: PCB survey

Drilling method: Direct Push 80 mm

Drilling rig: Geoprobe 7822 DT

X: 4959087.31
Y: 6439186.90
Z: 157.61

Probe depth: 4.8 m

GWL: 2.6 m

DEPTH [m]	SOIL SAMPLES / GWL / WELL CONSTRUCTION	LITHOLOGY	GEOLOGICAL DESCRIPTION	DEPTH [m]
0	⊕		sandy backfill with construction fragments	0
1	⊕		sandy brown silt, solid	1
2	⊕			2
	2.6 ▽			
3			sand, with rock fragments, dark gray	3
4			sand, with construction fragments, gray	4

Legend: ⊕ Soil sample was collected from interval above and between the marks

Scale: 1 : 440

Recorded by: Kubricht	Evaluated by: Kubricht	Compiled by: Polak		**Appendix no.: V**

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BOREHOLE LOG

S-17

Project: INCEL, Banja Luka, PCBs DETAILED SITE ASSESSMENT

Operator: M. Beard
Date: 04.08.2020

Purpose: PCB survey

Drilling method: Direct Push 80 mm

Drilling rig: Geoprobe 7822 DT

X: 4959088.61
Y: 6439156.35
Z: 157.71

Probe depth: 4.8 m

GWL: 4 m

DEPTH [m]	SOIL SAMPLES / GWL / WELL CONSTRUCTION	LITHOLOGY	GEOLOGICAL DESCRIPTION	DEPTH [m]
0			organic silt, sandy, solid light brown	0
1			sandy backfill with construction fragments	1
2				2
3			sand, clayey with rock fragments up to 5 cm, yellow-brown	3
4	4 ▽			4
			sand, gray with green spots	

Legend: ⊕ Soil sample was collected from interval above and between the marks

Scale: 1 : 440

Recorded by: Kubricht	Evaluated by: Kubricht	Compiled by: Polak		**Appendix no.: V**

DEKONTA a.s., Volutová 2523
158 00 PRAHA 5

BOREHOLE LOG S-18

Project: INCEL, Banja Luka, PCBs DETAILED SITE ASSESSMENT

Operator: M. Beard
Date: 04.08.2020

Purpose: PCB survey

Drilling method: Direct Push 80 mm

Drilling rig: Geoprobe 7822 DT

X: 4959108.72
Y: 6439101.14
Z: 157.56

Probe depth: 4.8 m GWL: 3.8 m

DEPTH [m]	SOIL SAMPLES / GWL / WELL CONSTRUCTION	LITHOLOGY	GEOLOGICAL DESCRIPTION	DEPTH [m]
0	⊕		organic silt, sandy, solid light brown-gray	0
			underground concrete construction	
1	⊕			1
2	⊕		sandy clay - solid, plastic fine, brown-yellow	2
3	3.8 ▽		sand, yellow	3
4			sandy gravel, yellow	4
			clay - solid, plastic fine, yellow-gray	

Legend: ⊕ Soil sample was collected from interval above and between the marks

Scale: 1 : 440

Recorded by: Kubricht | Evaluated by: Kubricht | Compiled by: Polak | **Appendix no.: V**

dekonta

DEKONTA a.s., Volutová 2523
158 00 PRAHA 5

BOREHOLE LOG

S-19

Project: INCEL, Banja Luka, PCBs DETAILED SITE ASSESSMENT

Operator: M. Beard
Date: 04.08.2020

Purpose: PCB survey

Drilling method: Direct Push 80 mm

Drilling rig: Geoprobe 7822 DT

X: 4959126.72
Y: 6439091.19
Z: 157.65

Probe depth: 6 m

GWL: 2.5 m

DEPTH [m]	SOIL SAMPLES / GWL	WELL CONSTRUCTION	LITHOLOGY	GEOLOGICAL DESCRIPTION	DEPTH [m]
0	⊕	plastic cap		sandy backfill with construction fragments	0
	⊕	casing, HDPE tube, inner diameter of 25 mm		clayey silt, brown	
1					1
				sandy backfill with construction fragments	
2	⊕ 2.5 ▽				2
				clayey silt, brown-gray	
3	⊕	screen, perforated HDPE tube, inner diameter of 25 mm			3
				sandy gravel, gray, grains up to 1 cm	
4					4
				clay - solid, plastic fine, brown-gray	
5					5
6					6

Legend: ⊕ Soil sample was collected from interval above and between the marks

Scale: 1 : 440

Recorded by: Kubricht	Evaluated by: Kubricht	Compiled by: Polak		**Appendix no.: V**

DEKONTA a.s., Volutová 2523
158 00 PRAHA 5

BOREHOLE LOG

S-20

Project: INCEL, Banja Luka, PCBs DETAILED SITE ASSESSMENT

Operator: M. Beard
Date: 04.08.2020

Purpose: PCB survey

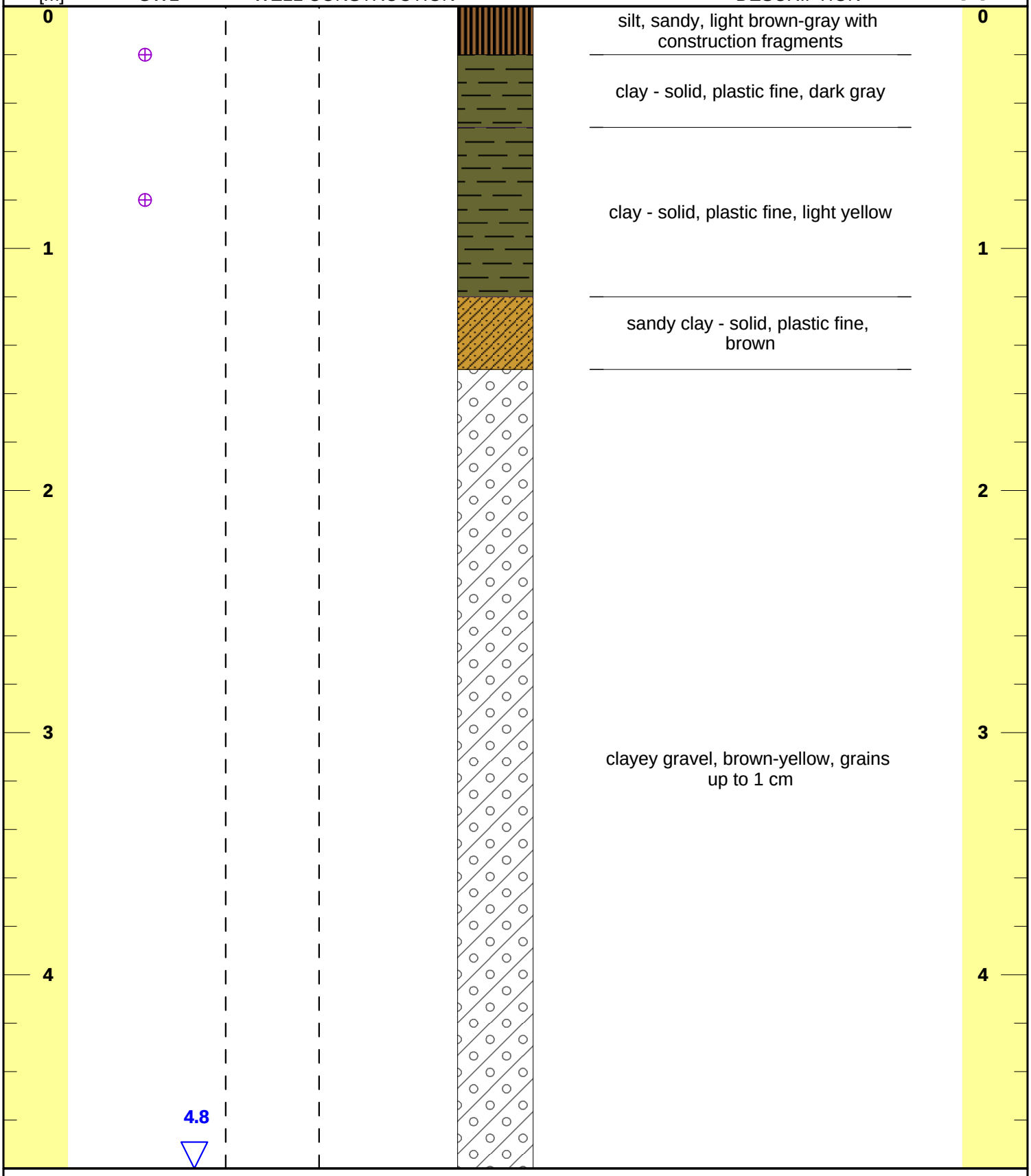
Drilling method: Direct Push 80 mm

Drilling rig: Geoprobe 7822 DT

X: 4959176.94
Y: 6439137.03
Z: 157.93

Probe depth: 4.8 m

GWL: 4.8 m



Legend: ⊕ Soil sample was collected from interval above and between the marks

Scale: 1 : 440

Recorded by: Kubricht	Evaluated by: Kubricht	Compiled by: Polak		**Appendix no.: V**

DEKONTA a.s., Volutová 2523
158 00 PRAHA 5

BOREHOLE LOG S-21

Project: INCEL, Banja Luka, PCBs DETAILED SITE ASSESSMENT

Operator: M. Beard
Date: 05.08.2020

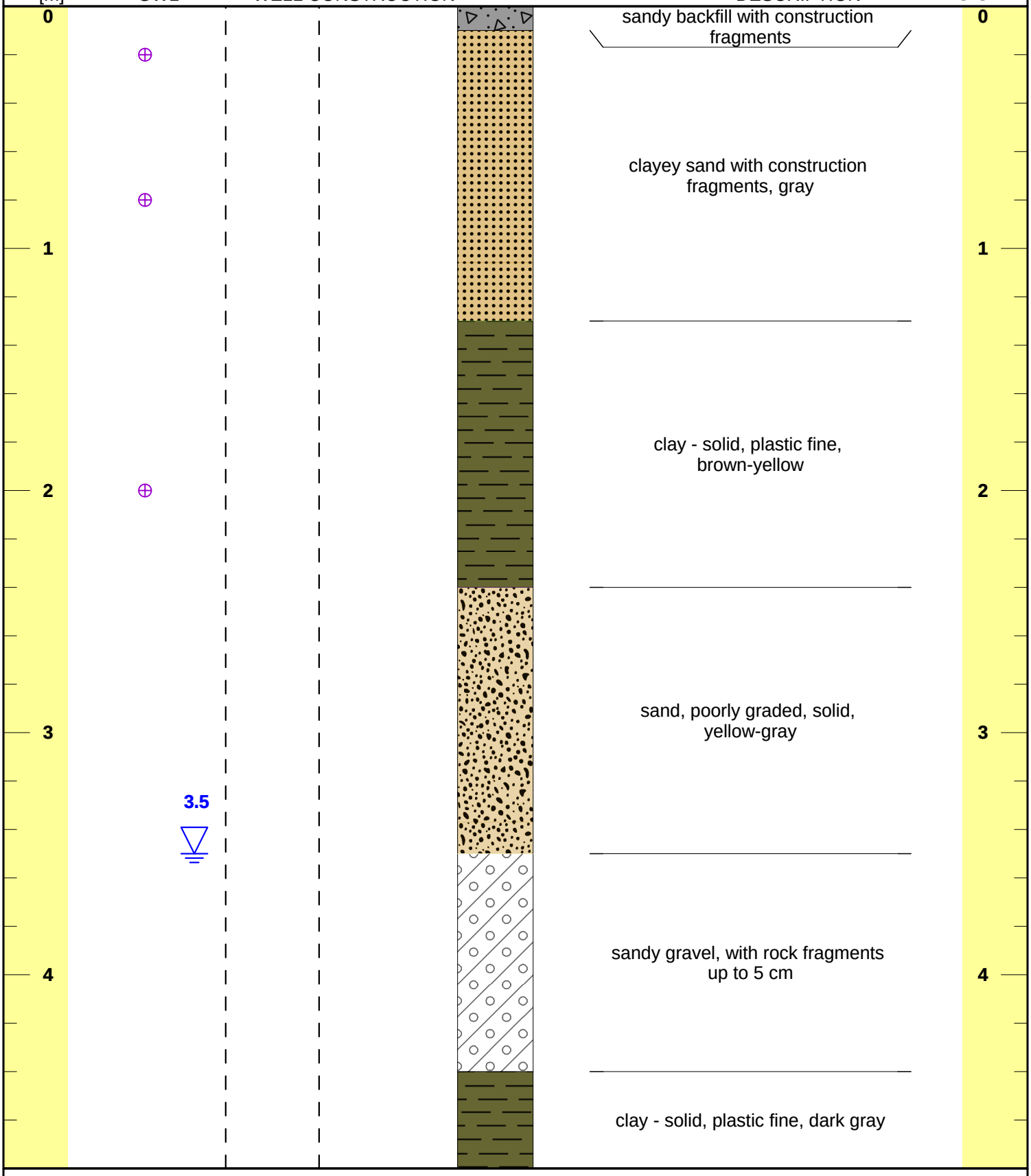
Purpose: PCB survey

Drilling method: Direct Push 80 mm

Drilling rig: Geoprobe 7822 DT

X: 4959065.01
Y: 6439151.51
Z: 157.76

Probe depth: 4.8 m GWL: 3.5 m



Legend: ⊕ Soil sample was collected from interval above and between the marks

Scale: 1 : 440

Recorded by: Kubricht	Evaluated by: Kubricht	Compiled by: Polak		**Appendix no.: V**

DEKONTA a.s., Volutová 2523
158 00 PRAHA 5

BOREHOLE LOG

S-22

Project: INCEL, Banja Luka, PCBs DETAILED SITE ASSESSMENT

Operator: M. Beard
Date: 05.08.2020

Purpose: PCB survey

Drilling method: Direct Push 80 mm

Drilling rig: Geoprobe 7822 DT

X: 4959289.21
Y: 6439003.24
Z: 156.95

Probe depth: 3.6 m

GWL: 3.6 m

DEPTH [m]	SOIL SAMPLES / GWL / WELL CONSTRUCTION	LITHOLOGY	GEOLOGICAL DESCRIPTION	DEPTH [m]
0	⊕		concrete	0
			backfill gravel with limestone rock fragments	
	⊕		sand, poorly graded with rock fragments, brown	
1				1
			sandy clay - solid, gray, deeper with rock fragments	
2				2
			clay - solid, plastic fine, dark gray with rock fragments	
3				3
	3.6 ▽			

Legend: ⊕ Soil sample was collected from interval above and between the marks

Scale: 1 : 440

Recorded by: Kubricht	Evaluated by: Kubricht	Compiled by: Polak		**Appendix no.: V**

dekonta

DEKONTA a.s., Volutová 2523
158 00 PRAHA 5

BOREHOLE LOG

S-23

Project: INCEL, Banja Luka, PCBs DETAILED SITE ASSESSMENT

Operator: M. Beard
Date: 08.08.2020

Purpose: PCB survey

Drilling method: Direct Push 80 mm

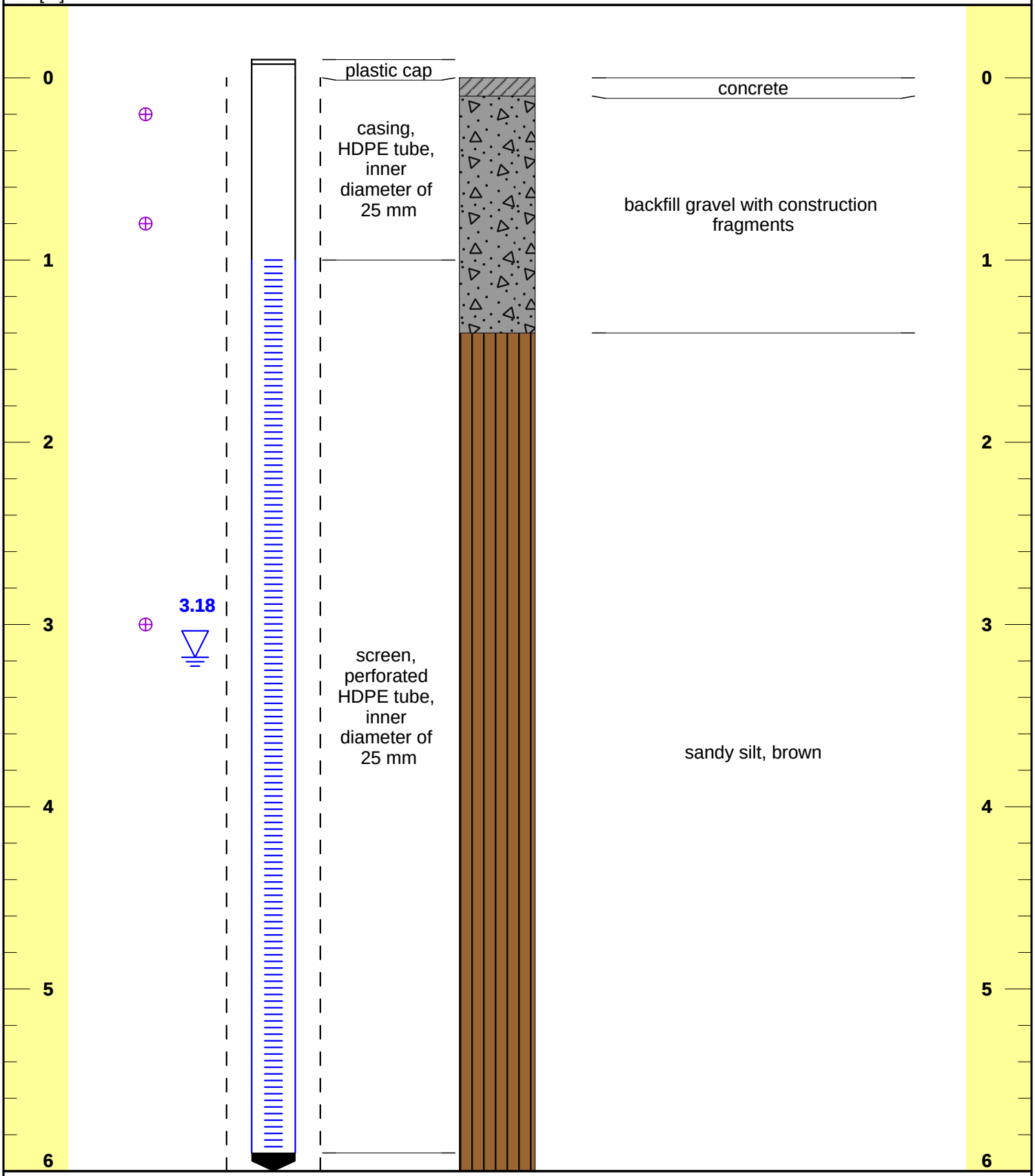
Drilling rig: Geoprobe 7822 DT

X: 4959248.19
Y: 6439045.23
Z: 157.10

Probe depth: 6 m

GWL: 3.18 m

DEPTH [m]	SOIL SAMPLES / GWL	WELL CONSTRUCTION	LITHOLOGY	GEOLOGICAL DESCRIPTION	DEPTH [m]



Legend: ⊕ Soil sample was collected from interval above and between the marks

Scale: 1 : 440

Recorded by: Kubricht	Evaluated by: Kubricht	Compiled by: Polak		**Appendix no.: V**

dekonta
DEKONTA a.s., Volutová 2523
158 00 PRAHA 5

BOREHOLE LOG

S-24

Project: INCEL, Banja Luka, PCBs DETAILED SITE ASSESSMENT

Operator: M. Beard
Date: 08.08.2020

Purpose: PCB survey

Drilling method: Direct Push 80 mm

Drilling rig: Geoprobe 7822 DT

X: 4959237.99
Y: 6439080.50
Z: 156.89

Probe depth: 4.8 m

GWL: 3.5 m

DEPTH [m]	SOIL SAMPLES / GWL / WELL CONSTRUCTION	LITHOLOGY	GEOLOGICAL DESCRIPTION	DEPTH [m]
0	⊕		silt, dark brown	0
1	⊕		sand, clayey, yellow-brown	1
2	⊕		clay - solid, plastic fine, brown-gray	2
3	3.5 ▽		sand, poorly graded with rock fragments, brown	3
4			clay - solid, plastic fine, gray with green spots	4

Legend: ⊕ Soil sample was collected from interval above and between the marks

Scale: 1 : 440

Recorded by: Kubricht	Evaluated by: Kubricht	Compiled by: Polak		**Appendix no.: V**

DEKONTA a.s., Volutová 2523
158 00 PRAHA 5

BOREHOLE LOG S-25

Project: INCEL, Banja Luka, PCBs DETAILED SITE ASSESSMENT

Operator: M. Beard
Date: 06.08.2020

Purpose: PCB survey

Drilling method: Direct Push 80 mm

Drilling rig: Geoprobe 7822 DT

X: 4959139.79
Y: 6439368.04
Z: 157.64

Probe depth: 4.8 m GWL: 3.2 m

DEPTH [m]	SOIL SAMPLES / GWL / WELL CONSTRUCTION	LITHOLOGY	GEOLOGICAL DESCRIPTION	DEPTH [m]
0	⊕		sandy clayey silt, solid, dark brown	0
1	⊕			1
2	⊕		sand, poorly graded with rock fragments, brown	2
3	3.2 ▽		sandy gravel, with rock fragments up to 2 cm, gray	3
4			sandy clay - solid, plastic fine, gray with green spots	4

Legend: ⊕ Soil sample was collected from interval above and between the marks

Scale: 1 : 440

Recorded by: Kubricht | Evaluated by: Kubricht | Compiled by: Polak | **Appendix no.: V**

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DEKONTA a.s., Volutová 2523
158 00 PRAHA 5

BOREHOLE LOG

S-26

Project: INCEL, Banja Luka, PCBs DETAILED SITE ASSESSMENT

Operator: M. Beard
Date: 06.08.2020

Purpose: PCB survey

Drilling method: Direct Push 80 mm

Drilling rig: Geoprobe 7822 DT

X: 4959022.53
Y: 6439717.14
Z: 159.38

Probe depth: 4.8 m

GWL: 3.4 m

DEPTH [m]	SOIL SAMPLES / GWL / WELL CONSTRUCTION	LITHOLOGY	GEOLOGICAL DESCRIPTION	DEPTH [m]
0			concrete	0
	⊕		backfill gravel with construction fragments	
	⊕		sandy clay - solid, plastic fine, brown-gray	
1				1
			sand, poorly graded with rock fragments, brown	
			backfill gravel with sharp rocks fragments	
			sandy clayey silt, solid, brown	
2	⊕			2
			sand, poorly graded with rock fragments, brown-yellow	
3				3
	3.4 ▽			
			sandy gravel, with rock fragments	
4				4

Legend: ⊕ Soil sample was collected from interval above and between the marks

Scale: 1 : 440

Recorded by: Kubricht	Evaluated by: Kubricht	Compiled by: Polak		**Appendix no.: V**

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DEKONTA a.s., Volutová 2523
158 00 PRAHA 5

BOREHOLE LOG

S-27

Project: INCEL, Banja Luka, PCBs DETAILED SITE ASSESSMENT

Operator: M. Beard
Date: 06.08.2020

Purpose: PCB survey

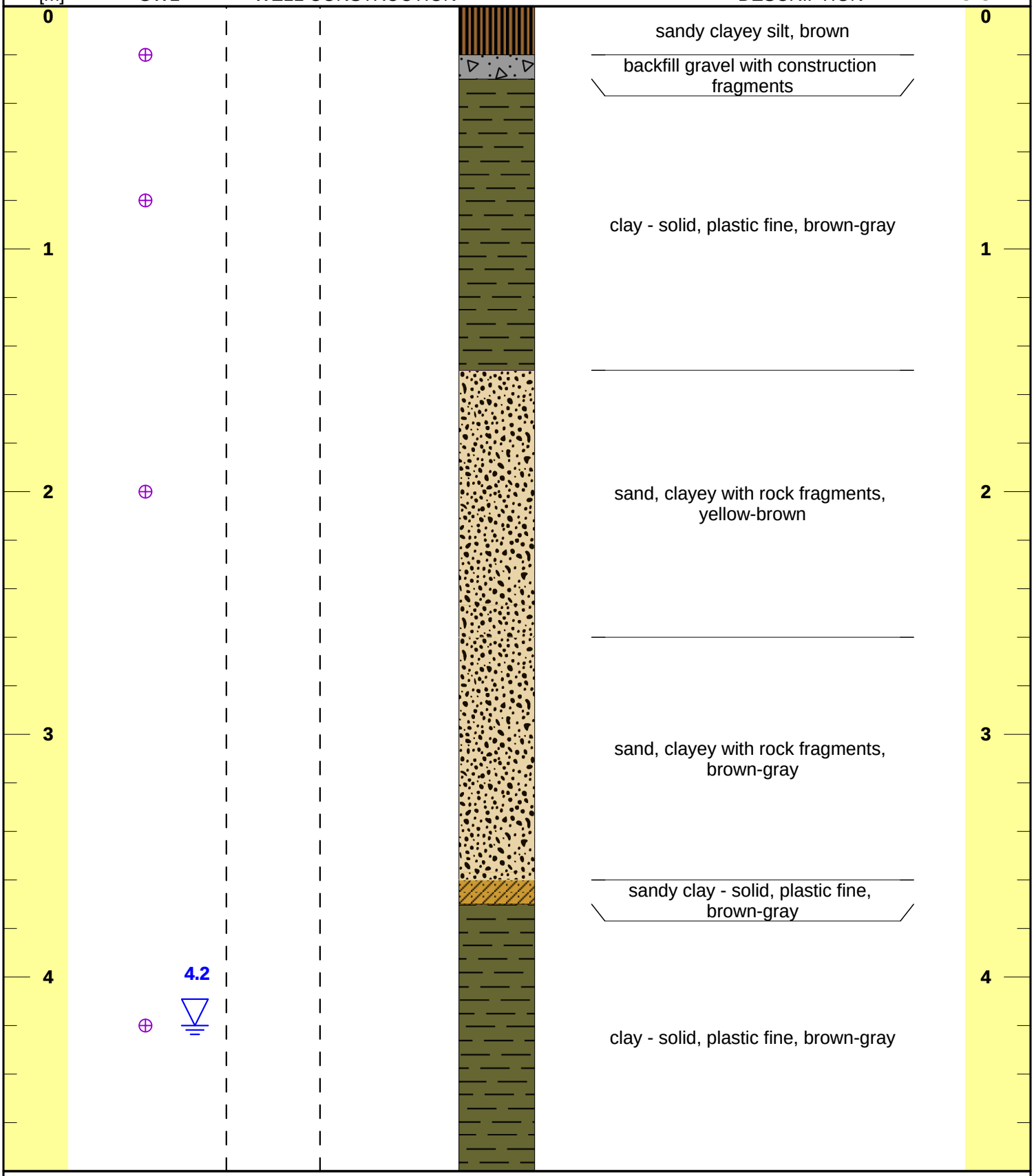
Drilling method: Direct Push 80 mm

Drilling rig: Geoprobe 7822 DT

X: 4958756.98
Y: 6439621.84
Z: 160.14

Probe depth: 4.8 m

GWL: 4.2 m



Legend: ⊕ Soil sample was collected from interval above and between the marks

Scale: 1 : 440

Recorded by: Kubricht	Evaluated by: Kubricht	Compiled by: Polak		**Appendix no.: V**

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DEKONTA a.s., Volutová 2523
158 00 PRAHA 5

BOREHOLE LOG

S-28

Project: INCEL, Banja Luka, PCBs DETAILED SITE ASSESSMENT

Operator: M. Beard
Date: 06.08.2020

Purpose: PCB survey

Drilling method: Direct Push 80 mm

Drilling rig: Geoprobe 7822 DT

X: 4958653.14
Y: 6439524.03
Z: 160.41

Probe depth: 4.8 m

GWL: 3.8 m

DEPTH [m]	SOIL SAMPLES / GWL / WELL CONSTRUCTION	LITHOLOGY	GEOLOGICAL DESCRIPTION	DEPTH [m]
0	⊕			0
	⊕		backfill gravel with construction fragments	
1				1
			sandy gravel, with rock fragments, yellow	
2	⊕			2
3	3.8 ▽		sand, clayey with rock fragments, yellow-gray	3
4				4

Legend: ⊕ Soil sample was collected from interval above and between the marks

Scale: 1 : 440

Recorded by: Kubricht	Evaluated by: Kubricht	Compiled by: Polak		**Appendix no.: V**

dekonta

DEKONTA a.s., Volutová 2523
158 00 PRAHA 5

BOREHOLE LOG

S-29

Project: INCEL, Banja Luka, PCBs DETAILED SITE ASSESSMENT

Operator: M. Beard
Date: 07.08.2020

Purpose: PCB survey

Drilling method: Direct Push 80 mm

Drilling rig: Geoprobe 7822 DT

X: 4959141.30
Y: 6438790.36
Z: 155.98

Probe depth: 6 m

GWL: 2.2 m

DEPTH [m]	SOIL SAMPLES / GWL	WELL CONSTRUCTION	LITHOLOGY	GEOLOGICAL DESCRIPTION	DEPTH [m]
0	⊕	plastic cap			0
		casing, HDPE tube, inner diameter of 25 mm		backfill sandy gravel with construction fragments, black with green spots	
1	⊕			sandy clayey silt, solid, brown	1
				sand, yellow-brown	
2	⊕ 2.2 ▽			clayey gravel, with rock fragments, brown	2
	⊕			sand with rock fragments, white-gray	
3		screen, perforated HDPE tube, inner diameter of 25 mm			3
4				sandy gravel, dark gray	4
5					5
6					6

Legend: ⊕ Soil sample was collected from interval above and between the marks

Scale: 1 : 440

Recorded by: Kubricht	Evaluated by: Kubricht	Compiled by: Polak		**Appendix no.: V**

DEKONTA a.s., Volutová 2523
158 00 PRAHA 5

BOREHOLE LOG S-30

Project: INCEL, Banja Luka, PCBs DETAILED SITE ASSESSMENT

Operator: M. Beard
Date: 07.08.2020

Purpose: PCB survey

Drilling method: Direct Push 80 mm

Drilling rig: Geoprobe 7822 DT

X: 4959125.73
Y: 6438801.23
Z: 155.93

Probe depth: 3.6 m GWL: 2.9 m

DEPTH [m]	SOIL SAMPLES / GWL / WELL CONSTRUCTION	LITHOLOGY	GEOLOGICAL DESCRIPTION	DEPTH [m]
0	⊕		backfill sandy gravel with construction fragments, black	0
1	⊕		clayey sand, yellow-brown	1
2	⊕		sand with rock fragments, yellow-gray	2
3	2.9 ▽			3

Legend: ⊕ Soil sample was collected from interval above and between the marks

Scale: 1 : 440

Recorded by: Kubricht	Evaluated by: Kubricht	Compiled by: Polak		**Appendix no.: V**

Annex VI: Sampling protocols

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SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	S-1	**Date and time of sampling:**	30.7.2020
		Sampled by:	Jiri Kubricht

Number of subsamples:	4 - S1/TS, S1/1, S1/2, S1/GW

Coordinates:	**N**	**E**
WGS1984	see att. 1	

Sampling bottle:	**Required analysis:**
200 mL glass jar	

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Soil.
S1/TS (0,0 - 0,2 m)
S1/1 (0,2 - 0,9 m)
S1/2 (0,9 - 2,0 m)
S1/GW (GW table)

Description of sampling place and its surroundings:

Business zone (transformers of Visoka)

Weather:

Notes:

Soil probe depth: 6 m BGL
Equipped with HDPE pipe.
Drilling rig Geoprobe 7822 DT.

Laboratory (name):	ALS Czech Republic
Day:	

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SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	S-2	**Date and time of sampling:**	30.7.2020
		Sampled by:	Jiri Kubricht

Number of subsamples:	3 - S2/TS, S2/1, S2/2

Coordinates:	**N**	**E**
WGS1984	see att. 1	

Sampling bottle:	**Required analysis:**
200 mL glass jar	

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Soil.
S2/TS (0,0-0,2m)
S2/1 (0,2-0,8m)
S2/2 (0,8-2,0m)

Description of sampling place and its surroundings:

Business zone (transformers of viscosis)

Weather:

Notes:

Soil probe depth: 4,8 m BGL
Drilling rig Geoprobe 7822DT

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	S-3	**Date and time of sampling:**	30.7.2020
		Sampled by:	Jiri Kubricht

Number of subsamples:	4 - S3/TS, S3/1, S3/2, S3/GW

Coordinates:	**N**	**E**
WGS1984	see att. 1	

Sampling bottle:	**Required analysis:**
200 mL glass jar	

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Soil.

S3/TS (0,10-0,2 m)
S3/1 (0,2-0,8 m)
S3/2 (0,8-2,0 m)
S3/GW (4,0-4,3 m)

Description of sampling place and its surroundings:

Business zone (transformers of viscosis)

Weather:

Notes:

Soil probe depth: 4,5 m BGL

Drilling rig Geoprobe 7822 DT.

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	S-4	**Date and time of sampling:**	31.7.2020
		Sampled by:	Jiri Kubricht
Number of subsamples:	4 - S4/TS, S4/1, S4/2, S4/GW		

Coordinates:	**N**	**E**
WGS1984	see att. 1	

Sampling bottle:	**Required analysis:**
200 mL glass jar	

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Soil.
S4/TS (0,10 - 0,2 m)
S4/1 (0,2 - 0,8 m)
S4/2 (0,8 - 2,0 m)
S4/GW (4,10 - 4,20 m - GW table)

Description of sampling place and its surroundings:

Business zone (transformers of Visosis)

Weather:

Notes:

Soil probe depth: 6 m BGS
Equipped with HDPE pipe.
Drilling rig Geoprobe 7822 DT.

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	S-5	**Date and time of sampling:**	31.7.2020
		Sampled by:	Jiri Kubricht

Number of subsamples:	3 – SS/TS, SS/1, SS/2

Coordinates:	**N**	**E**
WGS1984	see att. 1	

Sampling bottle:	**Required analysis:**
200 mL glass jar	

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Soil.

SS/TS (0,0-0,2m)
SS/1 (0,2-0,8m)
SS/2 (0,8-2,0m)

Description of sampling place and its surroundings:

Business zone (transformers of Viseon's)

Weather:

Notes:

Soil probe depth: 4,8 m BGS
Drilling rig Geoprobe 7822 DT
GW table reached at 3,50 m BGS.

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	S-6	**Date and time of sampling:**	31.7.2020
		Sampled by:	Jiri Kubricht

Number of subsamples:	3 - S6/TS, S6/1, S6/2

Coordinates:	**N**	**E**
WGS1984	see att. 1	

Sampling bottle:	**Required analysis:**
200 mL glass jar	

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Soil.
S6/TS (0,10 - 0,2m)
S6/1 (0,2 - 0,8m)
S6/2 (0,8 - 2,0 m)

Description of sampling place and its surroundings:

Business zone (in front of ~~BBC~~ Metal)

Weather:

Notes:

Soil probe depth: 4,8 m BGS
Drilling rig Geoprobe 7822 DT.

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	S-7	**Date and time of sampling:**	31.7.2020
		Sampled by:	Jiri Kubricht

Number of subsamples:	4 - S7/TS, S7/1, S7/2, S7/GW

Coordinates:	**N**	**E**
WGS1984	see att. 1	

Sampling bottle:	**Required analysis:**
200 mL glass jar	

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Soil
S7/TS (0,10 - 0,2m)
S7/1 (0,2 - 0,8m)
S7/2 (0,8 - 2,0m)
S7/GW (3,4 - 3,6m - GW table)

Description of sampling place and its surroundings:

Business zone (in front of BC Metal)

Weather:

Notes:

Soil probe depth: 6,0 m BGS.
Equiped with HDPE pipe.
Drilling rig Geoprobe 7822 DT.

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	S-8	**Date and time of sampling:**	31.7.2020
		Sampled by:	Jiri Kubricht

Number of subsamples:	3 - S8/TS, S8/1, S8/2

Coordinates:	**N**	**E**
WGS1984	see att. 1	

Sampling bottle:	**Required analysis:**
200 mL glass jar	

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Soil.

S8/TS (0,0 - 0,2 m)
S8/1 (0,2 - 0,8 m)
S8/2 (0,8 - 2,0 m)

Description of sampling place and its surroundings:

Business zone (in front of BG Metal)

Weather:

Notes:

Soil probe depth: 4,8 m BGS
Drilling rig Geoprobe 7822 DT.

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	S-9	**Date and time of sampling:**	1.8.2020
		Sampled by:	Jiri Kubricht

Number of subsamples:	4 - S9/TS, S9/1, S9/2, S9/GW

Coordinates:	**N**	**E**
WGS1984	see att. 1	

Sampling bottle:	**Required analysis:**
200 mL glass jar	

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Soil.
S9/TS (0,0 - 0,2 m)
S9/1 (0,2 - 0,8 m)
S9/2 (0,8 - 2,0 m)
S9/GW (3,3 - 3,5 m - GW table)

Description of sampling place and its surroundings:

BC Metals

Weather:

Notes:

Soil probe depth: 6,0 m BGS
Equiped with HDPE pipe.
Drilling his Geoprobe 7822 DT.
GW table reached at 3,4 m BGS.

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	S-10	**Date and time of sampling:**	1.8.2020
		Sampled by:	Jiri Kubricht
Number of subsamples:	3 - S10/TS, S10/1, S10/2		

Coordinates:	**N**	**E**
WGS1984	see att. 1	

Sampling bottle:	**Required analysis:**
200 mL glass jar	

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Soil.

S10/TS (0,10 - 0,12 m)
S10/1 (0,12 - 0,18 m)
S10/2 (0,18 - 4,0 m)

Description of sampling place and its surroundings:

BC Metals

Weather:

Notes:

Soil probe depth: 3,6 m BGS
Drilling rig Geoprobe 7822DT

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	S-11	**Date and time of sampling:**	1.8.2020
		Sampled by:	Jiri Kubricht

Number of subsamples:	4 - S11/TS, S11/1, S11/2, S11/GW

Coordinates:	**N**	**E**
WGS1984	see att. 1	

Sampling bottle:	**Required analysis:**
200 mL glass jar	

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Soil.

S11/TS (0,10-0,2m)
S11/1 (0,2-0,8m)
S11/2 (0,8-2,0m)
S11/GW (4,3-4,3m - GW table)

Description of sampling place and its surroundings:

Nova Banka

Weather:

Notes:

Soil probe depth: 6,0m BGS
Equiped with HDPE pipe.
Drilling his Geoprobe 7822DT.
GW table reached at ~~BGS~~ 4,4m BGS.

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	S-12	**Date and time of sampling:**	1.8.2020
		Sampled by:	Jiri Kubricht

Number of subsamples:	3 - S12/1, S12/2, S12/GW

Coordinates:	**N**	**E**
WGS1984	see att. 1	

Sampling bottle:	**Required analysis:**
200 mL glass jar	

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Soil probe below concrete platform.

S12/1 (0,2 - 0,8 m)
S12/2 (0,8 - 2,0 m)
S12/GW (3,0 - 3,2 m - GW table)

Description of sampling place and its surroundings:

Nova Banka

Weather:

Notes:

Soil probe depth: 3,6 m BGS.
Drilling rig Geoprobe 7822DT
GW table reached at 3,1 m BGS.

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	S-13	**Date and time of sampling:**	3.8.2020
		Sampled by:	Jiri Kubricht

Number of subsamples:	2 - S13/TS, S13/1

Coordinates:	**N**	**E**
WGS1984	see att. 1	

Sampling bottle:	**Required analysis:**
200 mL glass jar	

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Soil.
S13/TS (0,0-0,2 m)
S13/1 (0,2-0,8 m)

Description of sampling place and its surroundings:

Business zone (Electrolysis)

Weather:

Notes:

Soil probe depth: 3,6 m BGS.
Drilling rig Geoprobe 7822 DT.
GW table reached at 2 m BGS.

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	S-14	**Date and time of sampling:**	3.8.2020
		Sampled by:	Jiri Kubricht

Number of subsamples:	4 - S14/TS, S14/1, S14/2, S14/GW

Coordinates:	**N**	**E**
WGS1984	see att. 1	

Sampling bottle:	**Required analysis:**
200 mL glass jar	

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Soil.
S14/TS (0,0-0,2m)
S14/1 (0,2-0,8m)
S14/2 (0,8-2,0m)
S14/GW (3,4-3,6m - GW table)

Description of sampling place and its surroundings:

Electrolysis.

Weather:

Notes:

Soil probe depth: 6,0 m BGS
Equipped with HDPE pipe.
Drilling rig Geoprobe 7822 DT.
GW table reached at 3,5 m BGS.

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	S-15	**Date and time of sampling:**	3.8.2020
		Sampled by:	Jiri Kubricht
Number of subsamples:	4 - S15/TS, S15/1, S15/2, S15/GW		

Coordinates:	**N**	**E**
WGS1984	see att. 1	

Sampling bottle:	**Required analysis:**
200 mL glass jar	

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Soil.
S15/TS (0,10-0,2 m)
S15/1 (0,2-0,8 m)
S15/2 (0,8-2,0 m)
S15/GW (3,2-3,4 m - GW table)

Description of sampling place and its surroundings:

Lukic Invest

Weather:

Notes:

Soil probe depth: 6,0 m BGS
Equiped with HDPE pipe.
Drilling rig Geoprobe 78 22 DT.
GW table reached at 3,3 m BGS.

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	S-16	**Date and time of sampling:**	3.8.2020
		Sampled by:	Jiri Kubricht

Number of subsamples:	3 - S16/TS, S16/1, S16/2

Coordinates:	**N**	**E**
WGS1984	see att. 1	

Sampling bottle:	**Required analysis:**
200 mL glass jar	

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Soil.
S16/TS (0,10-0,2m)
S16/1 (0,2-0,8m)
S16/2 (0,8-2,0m)

Description of sampling place and its surroundings:

Lotic habitat.

Weather:

Notes:

Soil probe depth: 4,8 m BGS
Drilling rig Geoprobe 7822 DT.
GW reached at 2,6 m BGS.

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	S-17	**Date and time of sampling:**	3.8.2020
		Sampled by:	Jiri Kubricht

Number of subsamples:	3 - S17/TS, S17/1, S17/2

Coordinates:	**N**	**E**
WGS1984	see att. 1	

Sampling bottle:	**Required analysis:**
200 mL glass jar	

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Soil

S17/TS (0,0-0,2m)

S17/1 (0,2-0,8m)

S17/2 (0,8-2,0m)

Description of sampling place and its surroundings:

Lukic Invest.

Weather:

Notes:

Soil probe depth: 4,8 m BGS

Drilling rig Geoprobe 7822 DT.

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	S-18	**Date and time of sampling:**	3.8.2020
		Sampled by:	Jiri Kubricht
Number of subsamples:	3 - S18/TS, S18/1, S18/2		

Coordinates:	**N**	**E**
WGS1984	see att. 1	

Sampling bottle:	**Required analysis:**
200 mL glass jar	

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Soil.
S18/TS (0,0-0,2m)
S18/1 (0,2-0,8m)
S18/2 (0,8-2,0m)

Description of sampling place and its surroundings:

Lucic kvest.

Weather:

Notes:

Soil probe depth: 4,8 m BGS.
Drilling rig Geoprobe 7822 DT.
GW reached at 3,8 m BGS.

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	S-19	**Date and time of sampling:**	4.8.2020
		Sampled by:	Jiri Kubricht

Number of subsamples:	4 - S19/TS, S19/1, S19/2, S19/GW

Coordinates:	**N**	**E**
WGS1984	see att. 1	

Sampling bottle:	**Required analysis:**
200 mL glass jar	

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Soil.
S19/TS (0,0-0,2m)
S19/1 (0,2-0,8m)
S19/2 (0,8-2,0m)
S19/GW (3,0-3,2m - GW table)

Description of sampling place and its surroundings:

Lukic Invest.

Weather:

Notes:

Soil probe depth: 6,0 m BGS
Equipped with HDPE pipe.
Drilling rig Geoprobe 7822DT.
GW reached at 3,1 m BGS.

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	S-20	**Date and time of sampling:**	4.8.2020
		Sampled by:	Jiri Kubricht

Number of subsamples:	2 - S20/TS, S20/1

Coordinates:	**N**	**E**
WGS1984	see att. 1	

Sampling bottle:	**Required analysis:**
200 mL glass jar	

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Soil.
S20/TS (0,0 - 0,2m)
S20/1 (0,2 - 0,8m)

Description of sampling place and its surroundings:

Lukic Invest.

Weather:

Notes:

Soil probe depth: 4,8 m BGS
Drilling rig Geoprobe 7822 DT.

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	S-21	**Date and time of sampling:**	4.8.2020
		Sampled by:	Jiri Kubricht

Number of subsamples:	3 - S21/TS, S21/1, S21/2

Coordinates:	**N**	**E**
WGS1984	see att. 1	

Sampling bottle:	**Required analysis:**
200 mL glass jar	

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Soil.
S21/TS (0,0-0,2m)
S21/1 (0,2-0,8m)
S21/2 (0,8-2,0m)

Description of sampling place and its surroundings:

Lukic Invest - across the street close to S-17.

Weather:

Notes:

Soil probe depth: 4,8m BGS
Drilling rig Geoprobe 7822DT.

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	S-22	**Date and time of sampling:**	4.8.2020
		Sampled by:	Jiri Kubricht

Number of subsamples:	2 - S22/TS, S22/1

Coordinates:	**N**	**E**
WGS1984	see att. 1	

Sampling bottle:	**Required analysis:**
200 mL glass jar	

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Soil. - 0,0 - 0,2 concrete platform
S22/TS ([illegible])(0,2 - 0,4 m)
S22/1 (0,4 - 0,8 m)

Description of sampling place and its surroundings:

SHP Celex

Weather:

Notes:

Soil probe depth: 3,6 m bgs
Drilling rig Geoprobe 7822 DT.

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	S-23	**Date and time of sampling:**	7.8.2020
		Sampled by:	Jiri Kubricht

Number of subsamples:	3 - S23/TS, S23/1, S23/2

Coordinates:	**N**	**E**
WGS1984	see att. 1	

Sampling bottle:	**Required analysis:**
200 mL glass jar	

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Soil. - 0,0 - 0,1 m concrete platform.

S23/TS (0,1 - 0,3 m)
S23/1 (0,3 - 0,8 m)
S23/2 (2,4 - 3,0 m)

Description of sampling place and its surroundings:

SHP Celex

Weather:

Notes:

Soil probe depth: 6,0 m BGS
Equiped with HDPE pipe.
Drilling rig. Geoprobe 7822DT.
GW reached at 2,4 m BGS.

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	S-24	**Date and time of sampling:**	7.8.2020
		Sampled by:	Jiri Kubricht

Number of subsamples:	4 - S24/TS, S24/1, S24/2, S24/granulo

Coordinates:	**N**	**E**
WGS1984	see att. 1	

Sampling bottle:	**Required analysis:**
200 mL glass jar	

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Soil.

S24/TS (0,10-0,2m)
S24/1 (0,2 - 0,8m)
S24/2 (0,8 - 2,0m)
S24/granulo (full profile)

Description of sampling place and its surroundings:

SHP Celex

Weather:

Notes:

Soil probe depth: 4,8 m BGS
Drilling rig Geoprobe 7822 DT.

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	S-25	**Date and time of sampling:**	6.8.2020
		Sampled by:	Jiri Kubricht

Number of subsamples:	3 - S25/TS, S25/1, S25/2

Coordinates:	**N**	**E**
WGS1984	see att. 1	

Sampling bottle:	**Required analysis:**
200 mL glass jar	

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Soil
S25/TS (0,0 - 0,2 m)
S25/1 (0,2 - 0,9 m)
S25/2 (0,9 - 2,0 m)

Description of sampling place and its surroundings:

Business zone (fire fighting station)

Weather:

Notes:

Soil probe depth: 4,8 m BGS
Drilling rig Geoprobe 7822 DT

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	S-26	**Date and time of sampling:**	6.8.2020
		Sampled by:	Jiri Kubricht
Number of subsamples:	3 - S26/TS, S26/1, S26/2		

Coordinates:	**N**	**E**
WGS1984	see att. 1	

Sampling bottle:	**Required analysis:**
200 mL glass jar	

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Soil. - 0,0-0,1 concrete platform
S26/TS (0,1-0,3m)
S26/1 (0,3-0,8m)
S26/2 (0,8-2,0m)

Description of sampling place and its surroundings:

TOP Metal

Weather:

Notes:

Soil probe depth: 3,6 m BGS
Drilling rig Geoprobe 7822DT

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	S-27	**Date and time of sampling:**	6.8.2020
		Sampled by:	Jiri Kubricht

Number of subsamples:	4 - S27/TS, S27/1, S27/2, S27/3

Coordinates:	**N**	**E**
WGS1984	see att. 1	

Sampling bottle:	**Required analysis:**
200 mL glass jar	

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Soil.
S27/TS (0,0-0,2m)
S27/1 (0,2-0,8m)
S27/2 (0,8-2,0m)
S27/3 (4,0-4,2m)

Description of sampling place and its surroundings:

Business zone (beside Eco-Iride)

Weather:

Notes:

Soil probe depth: 4,8m BGS
Drilling rig Geoprobe 7822 DT.

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	S-28	**Date and time of sampling:**	6.8.2020
		Sampled by:	Jiri Kubricht

Number of subsamples:	3 - S28/TS, S28/1, S28/2

Coordinates:	**N**	**E**
WGS1984	see att. 1	

Sampling bottle:	**Required analysis:**
200 mL glass jar	

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Soil

S28/TS (0,10-0,2m)
S28/1 (0,2-0,8m)
S28/2 (0,8-2,0m)

Description of sampling place and its surroundings:

Business zone (production of CS2)

Weather:

Notes:

Soil probe depth: 3,6 m BGS
Drilling rig Geoprobe 7822 DT.

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	S-29	**Date and time of sampling:**	7.8.2020
		Sampled by:	Jiri Kubricht

Number of subsamples:	4 - S29/TS, S29/1, S29/2, S29/GW

Coordinates:	**N**	**E**
WGS1984	see att. 1	

Sampling bottle:	**Required analysis:**
200 mL glass jar	

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Soil
S29/TS (0,0-0,2m)
S29/1 (0,2-0,8m)
S29/2 (0,8-2,0m)
S29/GW (2,5-2,7m) - GW table)

Description of sampling place and its surroundings:

Universum AD

Weather:

Notes:

Soil probe depth: 6,0 m BGS
Equiped with HDPE pipe.
Drilling rig Geoprobe 7822 DT.
GW reached at 2,6 m BGS.

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	S-30	**Date and time of sampling:**	7.8.2020
		Sampled by:	Jiri Kubricht

Number of subsamples:	3 - S30/TS, S30/1, S30/GW

Coordinates:	**N**	**E**
WGS1984	see att. 1	

Sampling bottle:	**Required analysis:**
200 mL glass jar	

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Soil

S30/TS (0,0 - 0,2 m)

S30/1 (0,2 - 0,8 m)

S30/GW (black sand - 2,9 - 3,1 m)

Description of sampling place and its surroundings:

Universum AD.

Weather:

Notes:

Soil probe depth: 3,6 m BGS

Drilling rig Geoprobe 7822DT.

Laboratory (name):	ALS Czech Republic
Day:	

GROUNDWATER SAMPLE - dynamic state

dekonta

Object: S1	Depth: 5.71	Screen: 5m	Diameter: 25mm	Casing: HDPE
Sampling equipment: S 410		House diameter: 10mm		Depth of GW: 2.64
Name:		Notes: 28.20		

Time	GWL	pH	T	c (mS/cm)	O2	Poznámky/změny
	2.64	8.53	16.8	2820		68 (ORP)
		8.84	16.6	2770		23 PCB
9:24		8.55	15.8	2000		-106 tendry HM
	3.04	8.55	15.9	1351	0.61	-68 TPH

Object: S4	Depth: 5.80	Screen: 5m	Diameter: 25mm	Casing: HDPE
Sampling equipment: Solinst 410		House diameter: 10mm		Depth of GW: 2.16
Name: S4		Notes:		

Time	GWL	pH	T	c	O2	Poznámky/změny
9.41	2.16	7.53	15.1	2758		-169 (ORP) PCB
		7.29	14.2	3120		-156
9.50		7.20	14.1	3042	1.82	-152

Object: S11	Depth: 5.78	Screen: 5m	Diameter: 25m	Casing: HDPE
Sampling equipment: S 410		House diameter: 10mm		Depth of GW: 4.00
Name: S11		Notes:		

Time	GWL	pH	T	c	O2	Poznámky/změny
10:00	4.00	7.38	15.5	764		68 (ORP) PCB
		7.32	15.1	757		79 HM
	4.42	7.32	15.1	761	4.17	90 TPH

GROUNDWATER SAMPLE - dynamic state

dekonta

Object: P4	Depth: 3.50	Screen: –	Diameter: Ø 80	Casing: PVC
Sampling equipment: Solinst 410		House diameter: 10		Depth of GW: 2.70 / 95 sdl
Name: P4		Notes: 8.8.20		

Time	GWL	pH	T	c	O2	Poznámky/změny
14:40	2.70	7.09	21.5	743		58 (ORP) PCB
		7.1	19.5	720		60
	3.01	7.1	18.8	718	0.37	60

Object: S 14	Depth: 6 m	Screen: 5 m	Diameter: 25 mm	Casing: HDPE
Sampling equipment: S 410		House diameter: Ø 10 mm		Depth of GW: 1.90
Name: S 14		Notes:		

Time	GWL	pH	T	c	O2	Poznámky/změny
15:03	1.90	10.8	17.	2140		-327 (ORP) PCB
		11.0	15.9	2200		-336 HM
	2.05	11.01	15.7	2220	0,77	-340 TPH

Object: P2	Depth: 3.00	Screen: –	Diameter: Ø 80	Casing: PVC
Sampling equipment: Solinst 410		House diameter: 10 mm		Depth of GW: 1.78 sdl 44
Name: P2		Notes:		

Time	GWL	pH	T	c	O2	Poznámky/změny
15:30		7.60	20.6	584		+57 (ORP) PCB
		7.53	20.4	563		72
		7.48	20.4	565	2.10	79

GROUNDWATER SAMPLE - dynamic state

dekonta

Object:	Depth:	Screen:	Diameter:	Casing:
S 15	5.80	3 m	25 mm	HDPE

Sampling equipment:	House diameter:	Depth of GW:
Solinst S 410	10 mm	1.67

Name:	Notes:
S 15	8.8.2020

Time	GWL	pH	T	c (µS/cm)	O2	Poznámky/změny
12:14		6.92	16.2	2510		48 (ORP) PCB
		6.83	15.5	2600		29 HM
	1.70	6.80	15.2	2620	0.57	20 TPH

Object:	Depth:	Screen:	Diameter:	Casing:
ST 7	6.0	3 m	25 mm	HDPE

Sampling equipment:	House diameter:	Depth of GW:
S 410	10 mm	1.25

Name:	Notes:
ST 7	

Time	GWL	pH	T	c	O2	Poznámky/změny
12:33	1.25	7.28	16.0	852		-72 (ORP) PCB
		7.22	15.5	920		-76
	1.30	7.20	15.4	940	0.11	-77

Object:	Depth:	Screen:	Diameter:	Casing:
S9	6 m	3 m	25 mm	HDPE

Sampling equipment:	House diameter:	Depth of GW:
S 410	10 mm	2.42

Name:	Notes:
S9	

Time	GWL	pH	T	c	O2	Poznámky/změny
14:36		7.52	20.5	1406		0 (ORP) PCB
		7.59	16.5	1470		-21 HM
		7.56	15.1	1460	0,80	-24 TPH
	2.54		15.0			

GROUNDWATER SAMPLE - dynamic state

dekonta

Object: S 29	Depth: 6.0	Screen: 5m	Diameter: 25 mm	Casing: HDPE
Sampling equipment: Solinst S40		House diameter: 10 mm		Depth of GW: 2.20
Name: S 29		Notes:		8.820

Time	GWL	pH	T	c	O2	Poznámky/změny
10:57	2.20	7.53	16.6	1124		-3.6 (ORP) PCB
		7.52	16.2	1144		-58
		7.53	16.1	1135		-76
	2.34	7.50	16.1	1135	0.18	-80

Object: S 23	Depth: 6.0	Screen: 5m	Diameter: 25 mm	Casing: HDPE
Sampling equipment: S 410		House diameter: 10 mm		Depth of GW: 3.18
Name: S 23		Notes:		

Time	GWL	pH	T	c	O2	Poznámky/změny
11:16		8.06	20.5	696		40 (ORP) PCB
24		7.63	20.1	733		49 HM
	3.18	7.54	20.1	719	0.99	48 TPH

Object: S 19	Depth: 5.60	Screen: 5m	Diameter: 25 mm	Casing: HDPE
Sampling equipment: Solinst 410		House diameter: 10 mm		Depth of GW: 2.50
Name: S 19		Notes:		

Time	GWL	pH	T	c	O2	Poznámky/změny
11:33		7.45	16.6	1410		-67 (ORP) PCB
		7.39	15.5	1457		-145
	4.50	7.33	16.3	1499	3.69	-17

GEROUNDWATER SAMPLE - dynamic state

dekonta

Object: P1	Depth: 3.90	Screening:	Well diameter: 80 mm	Casing: PVC
Sampling equipment: Solinst 410		House diameter: 10 mm		Depth of GWL: 3.20
Sampling point: P1		Notes: 9.8.2020		Sond 40m

Time	GWL	pH	T	conductivity	O2	Poznámky/změny
10:30	3.20	7.50	16.9	1055		-222 (ORP) PCB
		7.32	15.6	1070		-218 HM
	3;45	7.35	15.7	1072	2.18	-216 TPH

Object: P3	Depth: 4,20	Screening:	Well diameter: 80 mm	Casing: PVC
Sampling equipment: Solinst 410		House diameter: 10 mm		Depth of GWL: 1.95 (40)
Sampling point: P3		Notes:		PCBs

Time	GWL	pH	T	conductivity	O2	Poznámky/změny
10:50	1.95	7.30	17.7	698		-72 bílý
		7.16	17.4	677		-42 odpad?
		7.10	17.4	678		-40 čpavek
	2.16	7.10	17.4	677	1.30	-41

Object:	Depth:	Screening:	Well diameter:	Casing:
Sampling equipment:		House diameter:		Depth of GWL:
Sampling point:		Notes:		

Time	GWL	pH	T	conductivity	O2	Poznámky/změny

dekonta

SAMPLING RECORD

Project:	**INCEL, Banja Luka, BiH: PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Samle ID:	EX-1	**Date and time of sampling:**	05.08.2020
		Sampled by:	Eva Čechová, Fernando Rebelo, Denis
Number of subsamples:			

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ml glass jars	PCB

Sample matrices type:	**Building structure**	Ground water (static state)	Surface water	Bottom sediment	Waste	Soil

Further sample destription:

Concrete desk fragment. < 3cm pebbles.

Description of sampling place and its surroundings:

Open area between chimney and CELEX factory. Sample taken from a lower area where rainwater accumulates.
44,275082N 17,224752E

Weather:

Rain, storms, sometimes sunny, 100% RH, N - 12-28 km/h

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**INCEL, Banja Luka, BiH: PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Samle ID:	CX-2	**Date and time of sampling:**	04.08.2020
		Sampled by:	Eva Čechová, Fernando Rebelo, Denis

Number of subsamples:		
Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ml glass jars	PCB

Sample matrices type:	**Building structure**	Ground water (static state)	Surface water	Bottom sediment	Waste	Soil

Further sample destription:

- same as CX-1

Description of sampling place and its surroundings:

- homogenized from 4 sampling spots in the centre of the area

44,775082N 17,224752E (10m)

Weather:

Rain, storms, sometimes sunny, 100% RH, N - 12-28 km/h

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**INCEL, Banja Luka, BiH: PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Samle ID:	L-1 L-2	**Date and time of sampling:**	8. 2020, 12:00 - 15:00
		Sampled by:	Eva Čechová, Fernando Rebelo

Number of subsamples:	

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ml glass jars	- PCB
	- needs to be homogenized

Sample matrices type:	**Building structure**	Ground water (static state)	Surface water	Bottom sediment	Waste	Soil

Further sample destription:

- dark-stained slagy area at the back of the transformer rooms
- 2 mm powdery layer, plaster ~~structure~~ under into 1 cm depth
-

Description of sampling place and its surroundings:

- Free standing small building with 2 transformer rooms.

~~44,7682~~ 44,774260 N 17,227370 E

44,774260 N 17,227321 (5m)

Weather:

Sunny, 28°C, 73% RH, NE wind, <12km/h

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**INCEL, Banja Luka, BiH: PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Samle ID:	L-3	**Date and time of sampling:**	4. 8. 2020, 8:30 - 15:00
		Sampled by:	Eva Čechová, Fernando Rebelo

Number of subsamples:	1 - L-3A

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ml glass jars	PCB
	TPH
	heavy metals
	asbestos (L-3A)

Sample matrices type:	**Building structure**	Ground water (static state)	Surface water	Bottom sediment	Waste	Soil

Further sample destription:

Black oily sediment on concrete.
Edge of the transformer basin.

Description of sampling place and its surroundings:

44, 773589N 17, 226651E (10m)
Demolished side of the main building, visible oily spills/stains.
Around piles of waste with fragments of asbestos roof

Weather:

Sunny, 28°C, 73% RH, NE wind, <12km/h

Notes:

Transformers were being dismantled here.
Additional sample of soil with asbestos fragm. taken, L-3A.

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**INCEL, Banja Luka, BiH: PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**		
Samle ID:	2-4	**Date and time of sampling:**	~~1~~4.8. 2020, ~~12:00~~ 8:30 - 15:00
		Sampled by:	Eva Čechová, Fernando Rebelo
Number of subsamples:			
Coordinates:	N	E	
Sampling bottle:	**Required analysis:**		
150 ml glass jars	PCB		

Sample matrices type: **Building structure** | ~~Ground water (static state)~~ | ~~Surface water~~ | ~~Bottom sediment~~ | ~~Waste~~ | ~~Soil~~

Further sample destription:

Dust + mortar

Description of sampling place and its surroundings:

Composite of dust from floor (linoleum) just under the metal structure transformers hung on, together with mortar fragment from the floor.
Open room with no front (cf. "exhibition" sign) - first floor.
44,773371N 17,226052E (30m)

Weather:

Sunny, ~~29~~ 40°C, ~~73~~ 40% RH, ~~NE~~ SW wind, <12km/h
half cloudy

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**INCEL, Banja Luka, BiH: PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Samle ID:	~~L-3~~ L-5	**Date and time of sampling:**	4. 8. 2020, 12:00 - 15:00
		Sampled by:	Eva Čechová, Fernando Rebelo

Number of subsamples:	

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ml glass jars	dust - PCB

Sample matrices type:	**Building structure**	Ground water (static state)	Surface water	Bottom sediment	Waste	Soil

Further sample destription:

- dust from 0,5 × 0,5 m behind transformers + white print

Description of sampling place and its surroundings:

- same as L-4

Weather:

Sunny, 28°C, 73% RH, NE wind, <12km/h

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**INCEL, Banja Luka, BiH: PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Samle ID:	2-6	**Date and time of sampling:**	4. 8. 2020, 12:00 - 15:00
		Sampled by:	Eva Čechová, Fernando Rebelo

Number of subsamples:	

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ml glass jars	PCB
	HM

Sample matrices type:	**Building structure**	Ground water (static state)	Surface water	Bottom sediment	Waste	Soil

Further sample destription:

concrete floor

Description of sampling place and its surroundings:

Large storage hall, concrete floor with 0,5-7 cm pebbles. Soil stored here. Rainbow paints.
44,773504N 17,226345E (30m)

Weather:

Sunny, 28°C, 73% RH, NE wind, <12km/h

Notes:

Transformers (1-4) removed from Zubić building across street were stored here before dismantling at 2-3 ~~for~~ at the side of the building. (Ermin)
Rainbow oily seeps at water puddle after rain.

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**INCEL, Banja Luka, BiH: PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Samle ID:	L-7	**Date and time of sampling:**	14. 8. 2020, 12:00 - 15:00
		Sampled by:	Eva Čechová, Fernando Rebelo

Number of subsamples:	

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ml glass jars	PCB

Sample matrices type:	**Building structure**	Ground water (static state)	Surface water	Bottom sediment	Waste	Soil

Further sample destription:

Mortar, black sediment, concrete with pebbles - scratched 0-0,5cm surface - black/brown sediment.

Description of sampling place and its surroundings:

Transformer room (2nd from left)

44,775342N 17,226832E (30m)

Upper edge.

Weather:

Sunny, 28°C, 73% RH, NE wind, <12km/h

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**INCEL, Banja Luka, BiH: PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Samle ID:	UN-[illegible] 1	**Date and time of sampling:**	05.08.2020
		Sampled by:	Eva Čechová, Fernando Rebelo, Denis

Number of subsamples:	

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ml glass jars	PCB

Sample matrices type:	**Building structure**	Ground water (static state)	Surface water	Bottom sediment	Waste	Soil

Further sample destription:

- Foundation, lowered concrete platform

Description of sampling place and its surroundings:

44,7741°2N 17,2210°8OE (110m)

Weather:

Rain, storms, sometimes sunny, 100% RH, N - 12-28 km/h

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

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SAMPLING RECORD

Project:	**INCEL, Banja Luka, BiH: PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Samle ID:	UN-E 2	**Date and time of sampling:**	04.08.2020
		Sampled by:	Eva Čechová, Fernando Rebelo, Denis

Number of subsamples:	

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ml glass jars	PCB
	HM

Sample matrices type:	**Building structure**	Ground water (static state)	Surface water	Bottom sediment	Waste	Soil

Further sample destription:

Description of sampling place and its surroundings:

Concrete area, behind the storage containers with excavated soil.
44,7416182N 17,2210802E (10 m)

Weather:

Rain, storms, sometimes sunny, 100% RH, N - 12-28 km/h

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**INCEL, Banja Luka, BiH: PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Samle ID:	B2-T-1	**Date and time of sampling:**	1. 8. 2020, 12:00 - 15:00
		Sampled by:	Eva Čechová, Fernando Rebelo

Number of subsamples:	

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ml glass jars	PCB

Sample matrices type:	**Building structure**	Ground water (static state)	Surface water	Bottom sediment	Waste	Soil

Further sample destription:

Concrete, oil-like stain, petroleum smell 0-2 m.
- homogenized 3 subs/2m²

Description of sampling place and its surroundings:

Elevated platform in front of the transformers rooms.
44° 46' 19" N 17° 13' 44" E
44,772263 17,229078 E (10 m)
44,772212 N 17,229688 E
altitude 205 m

Weather:

Sunny, 28°C, 73% RH, NE wind, <12km/h

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**INCEL, Banja Luka, BiH: PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Samle ID:	B2-T-2	**Date and time of sampling:**	1. 8. 2020, 12:00 - 15:00
		Sampled by:	Eva Čechová, Fernando Rebelo

Number of subsamples:	

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ml glass jars	PCB
	~~Hg~~

Sample matrices type:	**Building structure**	Ground water (static state)	Surface water	Bottom sediment	Waste	Soil

Further sample destription:

Description of sampling place and its surroundings:

- floor (concrete + plaster present) inside transformer room. Nearly SE, first room on the left ~~Lobby~~

44,722176 17,228220 (10m)

44° 46' 19" N 17° 13' 41" E

3,32 x 2,66 m

Weather:

Sunny, 28°C, 73% RH, NE wind, <12km/h

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

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SAMPLING RECORD

Project:	**INCEL, Banja Luka, BiH: PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Samle ID:	NB-1	**Date and time of sampling:**	1. 8. 2020, 12:00 - 15:00
		Sampled by:	Eva Čechová, Fernando Rebelo

Number of subsamples:	

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ml glass jars	PCB

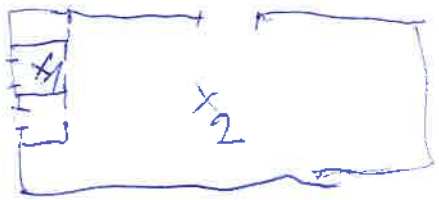
Sample matrices type:	**Building structure**	Ground water (static state)	Surface water	Bottom sediment	Waste	Soil

Further sample destription:

Composite sample, concrete floor, plaster walls with traces of paint.

Description of sampling place and its surroundings:

Inside a small ~~room~~ middle room, floor



Lat: 44,773078 Long: 17,223708
N: 44° 46' 23" E: 17° 13' 25"
44,773320 17,223812

Weather:

Sunny, 28°C, 73% RH, NE wind, <12km/h

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

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SAMPLING RECORD

Project:	**INCEL, Banja Luka, BiH: PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Samle ID:	NB-2 (S12/CH)	**Date and time of sampling:**	1. 8. 2020, 12:00 - 15:00
		Sampled by:	~~Eva Čechová, Fernando Rebelo~~ Martin Polák, Martin Fousek
Number of subsamples:			

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ml glass jars	PCB

Sample matrices type:	**Building structure**	~~Ground water (static state)~~	~~Surface water~~	~~Bottom sediment~~	~~Waste~~	~~Soil~~

Further sample destription:

- concrete panel 0-0,20 m, drilled by probe
53 m × 27,8 m

Description of sampling place and its surroundings:

Open space, perimeter walls
54,9 m × 27,8 m

Weather:

Sunny, 28°C, 73% RH, NE wind, <12km/h

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

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SAMPLING RECORD

Project:	**INCEL, Banja Luka, BiH: PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Samle ID:	NB-3	**Date and time of sampling:**	1. 8. 2020, 12:00 - 15:00
		Sampled by:	Eva Čechová, Fernando Rebelo

Number of subsamples:	

Coordinates:	**N**	**E**
	same as NB-1	

Sampling bottle:	**Required analysis:**
150 ml glass jars	PCB

Sample matrices type:	**Building structure**	Ground water (static state)	Surface water	Bottom sediment	Waste	Soil

Further sample destription:

- black paint from under the window

Description of sampling place and its surroundings:

- same as NB-1

Weather:

Sunny, 28°C, 73% RH, NE wind, <12km/h

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**INCEL, Banja Luka, BiH: PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Samle ID:	NB-3/4	**Date and time of sampling:**	04.08.2020
		Sampled by:	Eva Čechová, Fernando Rebelo

Number of subsamples:	

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ml glass jars	dust - PCB

Sample matrices type:	**Building structure**	Ground water (static state)	Surface water	Bottom sediment	Waste	Soil

Further sample destription:

Surface scratched under the left window

Description of sampling place and its surroundings:

Weather:

Rain, storms, sometimes sunny, 100% RH, N - 12-28 km/h

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**INCEL, Banja Luka, BiH: PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Samle ID:	B2-C-1	**Date and time of sampling:**	1. 8. 2020, ~~12:00~~ 9:30 - 15:00
		Sampled by:	Eva Čechová, Fernando Rebelo

Number of subsamples:	

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ml glass jars	PCB

Sample matrices type:	**Building structure**	Ground water (static state)	Surface water	Bottom sediment	Waste	Soil

Further sample destription:

- greasy 2-mm layer (loose sediment/dust) at the entrance
- 2 cm depth from the rear inclined part (plaster + concrete)

Description of sampling place and its surroundings:

- transformer room 3,24 × 2,43 m

44,772855 17,227807 (30m)
44° 46' 22" N 17° 13' 40" E
44,771999 N 17,228570 E

Weather:

Sunny, 28°C, 73% RH, NE wind, <12km/h
Partly cloudy

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**INCEL, Banja Luka, BiH: PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Samle ID:	BZ-C-2	**Date and time of sampling:**	3. 8. 2020, 12:00 - 15:00
		Sampled by:	Eva Čechová, Fernando Rebelo

Number of subsamples:		
Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ml glass jars	PCB
	TPH
	heavy metals

Sample matrices type: **Building structure** | ~~Ground water (static state)~~ | ~~Surface water~~ | ~~Bottom sediment~~ | ~~Waste~~ | ~~Soil~~

Further sample destription:

- oily stain at the entrance
- ± 2 dust samples at the fire place - 2cm of dust removed, concrete rubber taken into 1cm depth
- concrete corner of a column by the place of fire (5×5×5 cm, 12cm samples removed, only binder crushed)

Description of sampling place and its surroundings:

- right corner in front part of the hall, at the place of the fire

44, ~~7715224N~~ 7677931N 17,232632E

44°46'27" 17°13'2.9E

Weather:

Sunny, 28°C, 73% RH, NE wind, <12km/h

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

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SAMPLING RECORD

Project:	**INCEL, Banja Luka, BiH: PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Samle ID:	BZ-C-3	**Date and time of sampling:**	3. 8. 2020, 12:00 - 15:00
		Sampled by:	Eva Čechová, Fernando Rebelo

Number of subsamples:	

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ml glass jars	dust

Sample matrices type: **Building structure** | ~~Ground water (static state)~~ | ~~Surface water~~ | ~~Bottom sediment~~ | ~~Waste~~ | ~~Soil~~

Further sample destription:

- 3 5cm steps taken on the area 1×1 m², 1m from the surface
- grey-yellow-orange loose layer on the surface

Description of sampling place and its surroundings:

- same as BZ-C-2

Weather:

Sunny, 28°C, 73% RH, NE wind, <12km/h

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**
Probe ID:	W-1
Date and time of sampling:	08/08/20
Sampled by:	F. REBELO
Number of subsamples:	
Coordinates:	**N** / **E**
Sampling bottle:	**Required analysis:**
500ml, 1 GLASS, DARK COLOUR	PCBs

Sample matrices type: ~~Soil~~ | Ground water (static state) | ~~Surface water~~ | ~~Bottom sediment~~ | ~~Waste~~ | ~~Building structure~~

Further sample destription:

GW at 3,5 m Bellow ground.

Description of sampling place and its surroundings:

SAMPLE TAKEN FROM A PRIVATE WATER WELL LOCATED OUTSIDE INCEL AREA. HOUSE LOCATED NORTH OF INCEL. PROBABLY DOWNSTREAM OF GROUNDWATER DIRECTION. APP. 400 m FROM VRBAS RIVER. 1500 m FROM THE UNIVERSITY

Weather:

SUNNY

Notes:

- SAMPLE COLLECTED AFTER 3 DAYS OF HEAVY RAIN
- OWNERS MENTIONED THAT THEY NEVER USE THE WATER FROM THE WELL.

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	W-2	**Date and time of sampling:**	08/08/20
		Sampled by:	F. REBELO
Number of subsamples:			

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
500 ml, GLASS, DARK COLOUR	PCBs

Sample matrices type:	Soil	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

GW at 13,5 m Bellow Ground. BOTTOM OF THE WELL AT 3,5 m

Description of sampling place and its surroundings:

SAMPLE TAKEN FROM A PRIVATE [redacted] WATER WELL LOCATED OUTSIDE [redacted] INCEL AREA.

HOUSE LOCATED SOUTH WEST OF INCEL. PROBABLY UPSTREAM OF GROUND WATER DIRECTION. 200 m FROM VRBAS RIVER. 500m FROM THE UNIVERSITY.

Weather:

SUNNY

Notes:

- SAMPLE COLLECTED AFTER 3 DAYS OF HEAVY RAINS.
- OWNERS MENTIONED THAT THEY NEVER USE THE WATER FROM THE WELL.

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	W-3	**Date and time of sampling:**	08/08/20
		Sampled by:	F. REBELO
Number of subsamples:			

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
500 ML, GLASS, DARK COLOUR	PCBS

Sample matrices type:	Soil	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

GW AT 2,9 M BELLOW GROUND.

BOTTOM OF THE WELL AT 3,10 M BELLOW GROUND.

Description of sampling place and its surroundings:

SAMPLE TAKEN FROM A PRIVATE WATER WELL LOCATED OUTSIDE INCEL AREA. HOUSE LOCATED NORTH WEST OF INCEL. PROBABLY DOWNSTREAM OF GROUNDWATER DIRECTION (?).
APPROXIMATELY 40M from THE RIVER VABAS, CLOSE TO THE CONNECTION OF BOTH ARMS OF THE RIVER. 400 M FROM THE UNIVERSITY

Weather:

SUNNY

Notes:

- SAMPLE COLLECTED AFTER 3 DAYS OF HEAVY RAIN
- OWNERS MENTIONED THAT THEY NEVER USE THE WATER FROM THE WELL.

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS-1	**Date and time of sampling:**	04/08/2020
		Sampled by:	O. URBAN, M. POLAK

Number of subsamples:		
Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 mL, Glass, WIDE OPENING	PCBs

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

COLLECTED ON THE GRASS. SOIL AROUND LUKIC INVEST.

Weather:

SOFT RAIN

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS-2	**Date and time of sampling:**	04/08/2020
		Sampled by:	O. URBAN, M. POLAK

Number of subsamples:	

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE OPENING	PCBs

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

COLLECTED ON THE GRASS - SOIL AROUND LUKIC INVEST

Weather:

SOFT RAIN

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS-3	**Date and time of sampling:**	04/08/2020
		Sampled by:	D. URBAN, M. POLAK

Number of subsamples:		
Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 mL, GLASS, WIDE OPENING	PCBs

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

COLLECTED ON THE GRASS. SOIL AROUND ZUKIC INVEST.

Weather:

SOFT RAIN

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS-4	**Date and time of sampling:**	04/08/2020
		Sampled by:	O. URBAN, M. POLAK

Number of subsamples:		
Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 mL, GLASS, WIDE OPENING	PCBs, HEAVY METALS, DIOXIN, DIOXIN LIKE PCBs, TOC, TPH, PAH
3X	

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

COLLECTED ON THE GRASS. SOIL AROUND LUKIC INVEST.

Weather:

SOFT RAIN

Notes:

THIS SAMPLE IS CONTAINED IN 3 GLASS CONTAINERS

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS-5	**Date and time of sampling:**	04/08/2020
		Sampled by:	O. URBAN , M. POLAK

Number of subsamples:	

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE OPENING	PCBs

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

COLLECTED ON THE GRASS. SOIL AROUND ŽUKIC INVESI.

Weather:

SOFT RAIN

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS-6	**Date and time of sampling:**	04/08/2020
		Sampled by:	O. URBAN, M. POLAK

Number of subsamples:	

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE OPENING	PCBs

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

COLLECTED ON THE GRASS. SOIL AROUND LUKIC INVEST.

Weather:

SOFT RAIN

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots

Probe ID:	TS-7	**Date and time of sampling:**	04/08/2023
		Sampled by:	O. URBAN, M. POLAK
Number of subsamples:			

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ml, GLASS, WIDE OPENING	PCBs

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

SOIL WITHOUT GRASS [redacted]. SITE WITH MANY DEBRIS. AROUND LUKIC INVEST.

Weather:

SOFT RAIN

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS - 8	**Date and time of sampling:**	04/08/2020
		Sampled by:	O. URBAN, M. POLAK

Number of subsamples:		
Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 mL, GLASS, WIDE OPENING	PCBs + TPH + HEAVY METALS

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

SOIL WITHOUT GRASS. SITE WITH MANY DEBRIS. AROUND LURIC INVEST

Weather:

SOFT RAIN

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS - 9	**Date and time of sampling:**	04/08/2020
		Sampled by:	O. URBAN, M. POLAN

Number of subsamples:	

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE OPENING	PCBs

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

MIXTURE OF SOIL AND RUBBLE

Weather:

SOFT RAIN

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TJ - 10	**Date and time of sampling:**	04/08/2020
		Sampled by:	O. URBAN, M. POLAK

Number of subsamples:		
Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE ORENING	PCBs

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

SOIL COLLECTED FROM THE JOINTS BETWEEN THE CONCRETE.

Weather:

SOFT RAIN

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TJ - 11	**Date and time of sampling:**	04/08/2020
		Sampled by:	D. URBAN, M. POLAN

Number of subsamples:		
Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE OPENING	PCBS

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

COLLECTED FROM THE WHOLE IN THE CONCRETE PLATFORM NEXT TO CELEX

Weather:

SOFT RAIN

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS - 12	**Date and time of sampling:**	04/08/2020
		Sampled by:	O.URBAN, M. POLAVC

Number of subsamples:	

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 mL, GLASS, WIDE OPENING	PCBs

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

COLLECTD SOIL FROM THE EAST AREA OF CELEX

Weather:

SOFT RAIN

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS - 13	**Date and time of sampling:**	04/08/2023
		Sampled by:	D. URBAN, M. PORAN
Number of subsamples:			

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ml, GLASS, WIDE OPENING	PCBs

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

COLLECTED SOIL FROM THE EAST AREA OF CELEK

Weather:

SOFT RAIN

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS-14	**Date and time of sampling:**	04/08/2020
		Sampled by:	O. URBAN, M. POLAN

Number of subsamples:		
Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 mL, GLASS, WIDE OPENING	PCBs

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

COLLECT SOIL FROM THE EAST AREA OF CELOX

Weather:

SOFT RAIN

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS - 15	**Date and time of sampling:**	04/08/2020
		Sampled by:	O.URBAN, M. POLJA

Number of subsamples:	

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE OPENING	PCBs

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

COLLECTED SOIL FROM THE EAST AREA OF CELEX

Weather:

SOFT RAIN

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS - 16	**Date and time of sampling:**	04/08/2020
		Sampled by:	O. URBAN, M. POLAK

Number of subsamples:	

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ml, GLASS, WIDE OPENING	PCBs

Sample matrices type: **Soil** | ~~Ground water (static state)~~ | ~~Surface water~~ | ~~Bottom sediment~~ | ~~Waste~~ | ~~Building structure~~

Further sample destription:

Description of sampling place and its surroundings:

COLLECTED SOIL FROM THE EAST AREA OF CELEX

Weather:

SOFT RAIN

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots

Probe ID:	TS-17	**Date and time of sampling:**	06/08/2020
		Sampled by:	F. REBEKO, M. POLAK

Number of subsamples:		
Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE OPENING	PCBs

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

BUSINESS ZONE IN FRONT OF BC METAL.
SAMPLE COLLECTED NEXT TO THE WORKER'S BUILDING. GRASS PATCH.

Weather:

CLOUDY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS-18	**Date and time of sampling:**	06/08/2020
		Sampled by:	F. REBELO, M. POLAK

Number of subsamples:		
Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ml, GLASS, WIDE OPENING	PCBS

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

BUSINESS ZONE IN FRONT OF BC METAL.
SAMPLE COLLECTED NEXT TO THE WORKERS' BULDING. GRASS PATCH.

Weather:

CLOUDY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS-19	**Date and time of sampling:**	06/08/2020
		Sampled by:	F. REBELO, M. POLAK

Number of subsamples:		
Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 mL, GLASS, WIDE OPENING	PCBs

Sample matrices type:	**Soil**	~~Ground water (static state)~~	~~Surface water~~	~~Bottom sediment~~	~~Waste~~	~~Building structure~~

Further sample destription:

Description of sampling place and its surroundings:

BUSINESS ZONE IN FRONT OF BC METAL.
GRASS AREA.

Weather:

CLOUDY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS-20	**Date and time of sampling:**	06/08/20
		Sampled by:	F.REBELO, M. POLAK

Number of subsamples:		
Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ml, GLASS, WIDE OPENING	PCBs + TPH + HEAVY METALS

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

BUSINESS ZONE IN FRONT OF BC METAL.
GRASS AREA.

Weather:

CLOUDY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS-21	**Date and time of sampling:**	04/08/20
		Sampled by:	F.REBELO, M.POLAK

Number of subsamples:		
Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 mL, GLASS, WIDE OPENING	PCBs

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

BUSINESS ZONE IN FRONT OF BC METAL.

GRASS AREA

Weather:

CLOUDY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS-22	**Date and time of sampling:**	06/08/20
		Sampled by:	F. REBELO, M. POLAK

Number of subsamples:	

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150ml, GLASS, WIDE OPENING	PCBs

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

BUSINESS ZONE IN FRONT OF BC METAL.
GRASS AREA.

Weather:

CLOUDY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS-2[illegible]3	**Date and time of sampling:**	06/08/20
		Sampled by:	F.REBELO, M.POLAK

Number of subsamples:	

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150ML, GLASS, WIDE OPENING	PCBS

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

COLLECTED FROM BC METAL ZONE.
THE SAMPLING AREA HAD SEVERAL SMALL PILES OF SOIL WHERE THE GRASS GREW. IT SEEMS THAT THE SOIL WAS PLACED THERE OR WAS EXCAVATED.

Weather:

CLOUDY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	~~TS-24~~ TS-24	**Date and time of sampling:**	06/08/20
		Sampled by:	F. REBELO, M. POLAK

Number of subsamples:	

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE OPENING 4X	PCBS + ~~DIOXINS~~ DIOXINS + PCB LIKE DIOXINS + TOC + TPH + HEAVY METALS

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

COLLECTED FROM BC METAL ZONE.
THE SAMPLING AREA HAD SEVERAL SMALL PILES OF SOIL WHERE THE GRASS GREW. IT SEEMS THAT THE SOIL WAS PLACED THERE OR EXCAVATED.

Weather:

CLOUDY

Notes:

THIS SAMPLE IS CONTAINED IN 4 GLASS CONTAINER DUE TO THE LARGER QUANTITIES REQUIRED FOR TOC.

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS-25	**Date and time of sampling:**	06/08/20
		Sampled by:	F. REBELO, M. POLAK

Number of subsamples:	

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ml, GLASS, WIDE OPENING	PCBs + TPH + HEAVY METALS

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

COLLECTED FROM BC METAL ZONE.
THE SAMPLING AREA HAD SEVERAL SMALL PILES OF SOIL WHERE THE GRASS GREW.
IT SEEMS THAT THE SOIL WAS PLACED THERE OR WAS EXCAVATED.

Weather:

CLOUDY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS-26	**Date and time of sampling:**	06/08/20
		Sampled by:	F. REBELO, M. POLAK
Number of subsamples:			

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE OPENING	PCBs

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

COLLECTED FROM BC METAL ZONE.

THE SAMPLING AREA HAD SEVERAL SMALL PILES OF SOIL WHERE THE GRASS GREW.

IT SEEMS THAT THE SOIL WAS PLACED THERE OR WAS EXCAVATED.

Weather:

CLOUDY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS-27	**Date and time of sampling:**	06/08/20
		Sampled by:	F. REBELO, M. POLAK
Number of subsamples:			

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE OPENING	PCBs

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

SAMPLES COLLECTED FROM A PATCH OF GRASS ~~OVER~~ IN VALENTINO AREA.

Weather:

CLOUDY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS - 28	**Date and time of sampling:**	06/08/20
		Sampled by:	F. REBELO , M. POLAK

Number of subsamples:		
Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE OPENING	PCBs

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

SAMPLE COLLECTED FROM A PATCH OF GRASS IN JALENTINO AREA.

Weather:

CLOUDY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS-29	**Date and time of sampling:**	06/08/20
		Sampled by:	F. REBELO, M. POLAN
Number of subsamples:			

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE	PCBs
OPENING	

Sample matrices type: **Soil** ~~Ground water (static state)~~ ~~Surface water~~ ~~Bottom sediment~~ ~~Waste~~ ~~Building structure~~

Further sample destription:

Description of sampling place and its surroundings:

SAMPLE COLLECTED FROM A PATCH OF GRASS IN INCEL TRADE AREA

Weather:

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS - 30	**Date and time of sampling:**	06/08/20
		Sampled by:	F. REBELO, M. POLAK
Number of subsamples:			

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE OPENING	PCBs

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

SAMPLE COLLECTED FROM A PATCH OF GRASS IN INCEL TRADE AREA

Weather:

CLOUDY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS - 31	**Date and time of sampling:**	07/08/20
		Sampled by:	F. REBEW, M. POLAN

Number of subsamples:	

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE OPENING	PCBs

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

SAMPLE COLLECTED FROM TRANSFORMERS AREA. ROCKY SOIL WITH STONES AND DEBRIS.

Weather:

SUNNY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots

Probe ID:	TS - 32	**Date and time of sampling:**	07/08/20
		Sampled by:	F. REBELO, M. POLAK
Number of subsamples:			

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE OPENING	PCBs + GRANULOMETRY
2X	

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

THE SAMPLE FOR PCBs ANALYSES HAD THE LARGE ROCKS/STONES REMOVED.

THE SAMPLE FOR GRANULOMETRY HAS ALL ROCKS/STONES FOUND WHEN THE SAMPLE WAS TAKEN.

Description of sampling place and its surroundings:

SAMPLE COLLECTED FROM TRANSFORMERS AREA. ROCKY SOIL WITH STONES AND DEBRIS

Weather:

SUNNY

Notes:

- 1 SAMPLE FOR PCBs ANALYSES
- 1 SAMPLE FOR GRANULOMETRY

BOTH SAMPLES COLLECTED FROM THE EXACT SAME PLACE.

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS - 33	**Date and time of sampling:**	07/08/20
		Sampled by:	F. REBELO, M. POLAK
Number of subsamples:			

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE OPENING	PCBs

Sample matrices type: **Soil** | Ground water (static state) | Surface water | Bottom sediment | Waste | Building structure

Further sample destription:

Description of sampling place and its surroundings:

SAMPLE COLLECTED FROM TRANSFORMERS AREA. ROCKY SOIL WITH STONES AND DEBRIS

Weather:

SUNNY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS-34	**Date and time of sampling:**	07/08/20
		Sampled by:	F. REBELO, M. POLAK
Number of subsamples:			

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML GLASS, WIDE OPENING	PCBs

Sample matrices type: **Soil** | ~~Ground water (static state)~~ | ~~Surface water~~ | ~~Bottom sediment~~ | ~~Waste~~ | ~~Building structure~~

Further sample destription:

Description of sampling place and its surroundings:

SAMPLE COLLECTED FROM TRANSFORMERS AREA. ROCKY SOIL WITH STONES AND DEBRIS. A LOT OF CONSTRUCTION WASTE ROUND THE AREA.

Weather:

SUNNY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS-35	**Date and time of sampling:**	07/08/20
		Sampled by:	F. REBELO / M. POLAN

Number of subsamples:	

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 mL, GLASS, WIDE OPENING	PCBs

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

COLLECTED FROM THE ELECTROLISIS AREA (OPOSITE TO THE TRANSFORMER AREA). PATCH OF GRASS WITH A LAYER OF ANTHROPOGENIC MATERIAL (BRICKS, ASBESTOS, WIRES).

Weather:

SUNNY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS-36	**Date and time of sampling:**	07/08/20
		Sampled by:	F. REBELO, M. POLAK
Number of subsamples:			

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE OPENING	PCBs

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

COLLECTED FROM THE ELECTROLISIS AREA (OPOSITE TO THE TRANSFORMERS AREA). PATCH OF GRASS WITH A LAYER OF ANTHROPOGENIC MATERIAL (BRICKS, ASBESTOS, WIRES).

Weather:

SUNNY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS - 37	**Date and time of sampling:**	07/05/20
		Sampled by:	F. REBELO, M. POLAK

Number of subsamples:		
Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE OPENING	PCBs

Sample matrices type:	**Soil**	~~Ground water (static state)~~	~~Surface water~~	~~Bottom sediment~~	~~Waste~~	~~Building structure~~

Further sample destription:

Description of sampling place and its surroundings:

COLLECTED FROM THE ELECTROLISIS AREA (OPOSITE TO THE TRANSFORMERS)
PATCH OF GRASS WITH A LAYER OF ANTHROPOGENIC MATERIAL
(BRICKS, ASBESTOS, WIRES).

Weather:

SUNNY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS - 38	**Date and time of sampling:**	07/08/20
		Sampled by:	F. REBELO, M. POLAK
Number of subsamples:			

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE OPENING	PCBs + ASBESTOS
2x	

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

COLLECTED FROM THE ELECTROLISIS AREA (OPOSITE TO THE TRANSFORMER AREA). PATCH OF GRASS WITH A LAYER OF ANTHROPOGENIC MATERIAL (BRICKS, ASBESTOS, WIRES).

Weather:

SUNNY

Notes:

- 1 SAMPLE FOR PCBs ANALYSES
- 1 SAMPE FOR OPTICAL MICROSCOPY ASBESTOS (QUALITATIVE)

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS - 39	**Date and time of sampling:**	04/08/20
		Sampled by:	F. REBELO, M. POLAK
Number of subsamples:			

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 mL, GLASS, WIDE OPENING	PCBs

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

SAMPLE COLLECTED IN THE AREA SURROUNDING NOVA BANKA BUILDING. PATCH OF GRASS LOCATED OPPOSITE TO ABANDONED BUILDING.

Weather:

SUNNY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS-40	**Date and time of sampling:**	07/08/20
		Sampled by:	F. REBELO, M. POCH

Number of subsamples:		
Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 mL, GLASS, WIDE OPENING	PCBs

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

SAMPLE COLLECTED IN THE AREA SURROUNDING NOVA BANKA BUILDING PATCH OF GRASS LOCATED OPPOSITE TO ABANDONED BUILDING.

Weather:

SUNNY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS-41	**Date and time of sampling:**	07/08/20
		Sampled by:	F. REBELO, M. POLAK

Number of subsamples:	

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 mL, GLASS, WIDE OPENING	PCBS

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

SAMPLE COLLECTED IN THE AREA SURROUNDING NOVA BANKA BUILDING. PATCH OF GRASS LOCATED OPOSITE TO ABANDONED BUILDING.

Weather:

SUNNY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS - 42	**Date and time of sampling:**	07/08/20
		Sampled by:	F. REBELO, M. POLAK
Number of subsamples:			

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE OPENING	PCBs

Sample matrices type: **Soil** | ~~Ground water (static state)~~ | ~~Surface water~~ | ~~Bottom sediment~~ | ~~Waste~~ | ~~Building structure~~

Further sample destription:

Description of sampling place and its surroundings:

SAMPLE COLLECTED IN THE AREA SURROUNDING NOVA BANKA BUILDING. PATCH OF GRASS LOCATED ORDSITE TO ABANDONED BUILDING.

Weather:

SUNNY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS -43	**Date and time of sampling:**	07/08/2020
		Sampled by:	F. REBEW, M. POLAN

Number of subsamples:	

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ml, glass, WIDE OPENING	PCBs

Sample matrices type: **Soil** | ~~Ground water (static state)~~ | ~~Surface water~~ | ~~Bottom sediment~~ | ~~Waste~~ | ~~Building structure~~

Further sample destription:

ROCKY SOIL.

Description of sampling place and its surroundings:

SAMPLES COLLECTED INSIDE UNIVERZUM AREA. GRASS PATCH. MANY OLD AND RUSTY PIECES OF METAL AND METAL WIRES LAYING AROUND (OPEN SKY).

Weather:

SUNNY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

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SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS-44	**Date and time of sampling:**	07/08/2020
		Sampled by:	F. REBELO, M. POLAK

Number of subsamples:	

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE OPENING	PCBs + Heavy METALS + TPH

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

SAND SOIL WITH ROCKS

Description of sampling place and its surroundings:

SAMPLES COLLECTED INSIDE UNIVERZUM AREA. GRASS PATCH.

MANY OLD AND RUSTY PIECES OF METAL AND METAL WIRES LAYING AROUND (OPEN SKY).

Weather:

SUNNY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

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SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS-45	**Date and time of sampling:**	07/08/2020
		Sampled by:	F. REBELO, M. POLAK
Number of subsamples:			

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE OPENING	PCBS

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

SAMPLES COLLECTED INSIDE UNIVERZUM AREA. GRASS PATCH. MANY OLD AND RUSTY METAL PIECES AND METAL WIRES LAYING AROUND (OPEN SKY).

Weather:

SUNNY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS-46	**Date and time of sampling:**	03/08/2020
		Sampled by:	F. REBEGO, M. POLAK
Number of subsamples:			

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE OPENING	PCBs

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

SAMPLE COLLECTED INSIDE UNIVERZUM AREA. GRASS PATCH. MANY OLD AND RUSTY PIECES OF METAL AND METAL WIRES LAYING AROUND (OPEN SKY).

Weather:

SUNNY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS - 47	**Date and time of sampling:**	07/08/2020
		Sampled by:	F. REBEL, M. POLAK
Number of subsamples:			

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE OPENING (2X)	PCBS + DIOXINS + DIOXIN LIKE PCBS

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

2 samples collected in the same spot.

Description of sampling place and its surroundings:

COLLECTED IN TOP METAL AREA. VERY ROCKY SOIL.
SAMPLE COLLECTED FROM THE RAILWAY.
WHOLE AREA (EXCEPT OF RAIL WAY) COVERED WITH A LAYER OF CONCRETE.

Weather:

SUNNY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

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SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS - 48	**Date and time of sampling:**	07/08/2020
		Sampled by:	P. REBELO, M. POLAK

Number of subsamples:		
Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE OPENING	PCBs

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

PATCH OF GRASS ~~NEXT TO~~ OUTSIDE TOP METAL (SAMPLE MOVED APP. 100 M TOWARDS THE INSIDE OF THE WOOD STORING COMPANY AREA)

Weather:

SUNNY

Notes:

MOVED THE LOCATION TO OUTSIDE TOP METAL DUE TO THE CONCRETE LAYER COVERING THE WHOLE SITE

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS- 49	**Date and time of sampling:**	07/08/2020
		Sampled by:	F. REBELO, M. POLAK

Number of subsamples:		
Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE	PCBs
OPENING	

Sample matrices type:	**Soil**	~~Ground water (static state)~~	~~Surface water~~	~~Bottom sediment~~	~~Waste~~	~~Building structure~~

Further sample destription:

Description of sampling place and its surroundings:

COLLECTED IN TOP METAL AREA. VERY ROCKY SOIL.

SAMPLE COLLECTED FROM THE RAIL WAY.

WHOLE AREA (EXCEPT OF RAIL WAY) COVERED WITH CONCRETE.

Weather:

SUNNY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

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SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS-50	**Date and time of sampling:**	07/08/2020
		Sampled by:	F. REBELO, M. POLAK

Number of subsamples:	

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE OPENING	PCBS

Sample matrices type: **Soil** ~~Ground water (static state)~~ ~~Surface water~~ ~~Bottom sediment~~ ~~Waste~~ ~~Building structure~~

Further sample destription:

Description of sampling place and its surroundings:

PATCH OF GRASS NEXT TO THE FENCE OF TOP METAL

Weather:

SUNNY

Notes:

MOVED THE LOCATION OUTSIDE TOP METAL DUE TO THE CONCRETE LAYER COVERING THE WHOLE SITE.

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS-51	**Date and time of sampling:**	07/08/2020
		Sampled by:	F. REBELO, M. POLAN

Number of subsamples:		
Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE OPENING	PCBs

Sample matrices type:	**Soil**	~~Ground water (static state)~~	~~Surface water~~	~~Bottom sediment~~	~~Waste~~	~~Building structure~~

Further sample destription:

Description of sampling place and its surroundings:

COLLECTED FROM A GRASS AREA ~~SURROUNDING~~ SURROUNDING THE FIRE FIGHTERS STATION

Weather:

SUNNY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS-52	**Date and time of sampling:**	07/08/2020
		Sampled by:	F. REBELO, M. POLAK
Number of subsamples:			

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE OPENING	PCBs

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

COLLECTED FROM A GRASS AREA SURROUNDING THE FIRE FIGHTERS STATION

Weather:

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS-53	**Date and time of sampling:**	06/08/20
		Sampled by:	F. REBELO, M. POLAN
Number of subsamples:			

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE OPENING	PCBs

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

SAMPLE COLLECTED FROM A PATCH OF GRASS LOCATED IN THE BUSINESS ZONE BESIDE ECOTRADE AREA

Weather:

~~SUNNY~~ CLOUDY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS-54	**Date and time of sampling:**	06/08/20
		Sampled by:	F. REBELO, M. POLAK
Number of subsamples:			

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML GLASS, WIDE OPENING	PCBS

Sample matrices type: **Soil** | Ground water (static state) | Surface water | Bottom sediment | Waste | Building structure

Further sample destription:

Description of sampling place and its surroundings:

SAMPLE COLLECTED FROM A PATCH OF GRASS LOCATED IN THE BUSINESS ZONE BESIDE ECOTRADE AREA.

Weather:

~~SUNNY~~ CLOUDY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TJ-55	**Date and time of sampling:**	06/08/20
		Sampled by:	F. REBELO, M. POLAK

Number of subsamples:		
Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 mL, GLASS, WIDE OPENING	PCBs

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

SAMPLE COLLECTED FROM A PATCH OF GRASS LOCATED IN ECOTRADE AREA.

Weather:

SUNNY CLOUDY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS-56	**Date and time of sampling:**	06/08/20
		Sampled by:	F.REBELO , M.POLAK
Number of subsamples:			

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE OPENING	PCBS

Sample matrices type: **Soil** | Ground water (static state) | Surface water | Bottom sediment | Waste | Building structure

Further sample destription:

Description of sampling place and its surroundings:

SAMPLE COLLECTED FROM A PATCH OF GRASS LOCATED IN ECOTRADE AREA.

Weather:

~~SUNNY~~ CLOUDY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS-57	**Date and time of sampling:**	08/08/20
		Sampled by:	F. REBELO, M. POLAK
Number of subsamples:			

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE OPENING	PCBs

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

SAMPLE COLLECTED IN THE AREA OF PRODUCTION OF CS_2.

Weather:

~~SUNNY~~ CLOUDY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS-58	**Date and time of sampling:**	06/08/20
		Sampled by:	F. REBELO, M. POLAK
Number of subsamples:			

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE OPENING	PCBs

Sample matrices type: **Soil** ~~Ground water (static state)~~ ~~Surface water~~ ~~Bottom sediment~~ ~~Waste~~ ~~Building structure~~

Further sample destription:

Description of sampling place and its surroundings:

SAMPLE COLLECTED IN THE AREA OF PRODUCTION OF CS_2.

Weather:

~~SUNNY~~ CLOUDY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	BS-59	**Date and time of sampling:**	06/05/20
		Sampled by:	F. REBELO, M. POLAK
Number of subsamples:			

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE OPENING	PCBs

Sample matrices type: **Soil** | Ground water (static state) | Surface water | Bottom sediment | Waste | Building structure

Further sample destription:

Description of sampling place and its surroundings:

SAMPLE COLLECTED IN THE AREA OF PRODUCTION OF CS_2.

Weather:

~~SUNNY~~ CLOUDY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS-60	**Date and time of sampling:**	06/06/20
		Sampled by:	F. REBELO, M. POLIVKA
Number of subsamples:			

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE OPENING	PCBS

Sample matrices type: **Soil** ~~Ground water (static state)~~ ~~Surface water~~ ~~Bottom sediment~~ ~~Waste~~ ~~Building structure~~

Further sample destription:

Description of sampling place and its surroundings:

SAMPLE COLLECTED IN THE AREA OF PRODUCTION OF CS_2.

Weather:

~~SUNNY~~ CLOUDY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

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SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS - 61	**Date and time of sampling:**	04/08/20
		Sampled by:	F. REBELO, M. POLAK

Number of subsamples:		
Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE OPENING	PCBs

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

SAMPLE COLLECTED FROM THE AREA OF DE-MI PROMET.

Weather:

SUNNY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	

dekonta

SAMPLING RECORD

Project:	**Ince, Banja Luka, PCBs Detailed site assessment and remediation assessment for the PCB contaminated spots**

Probe ID:	TS-62	**Date and time of sampling:**	07/08/20
		Sampled by:	F. REBELO, M. POLAK

Number of subsamples:	

Coordinates:	**N**	**E**

Sampling bottle:	**Required analysis:**
150 ML, GLASS, WIDE OPENING	PCBS

Sample matrices type:	**Soil**	Ground water (static state)	Surface water	Bottom sediment	Waste	Building structure

Further sample destription:

Description of sampling place and its surroundings:

SAMPLE COLLECTED FROM THE AREA OF DE-MI PROMET.

Weather:

SUNNY

Notes:

Laboratory (name):	ALS Czech Republic
Day:	