

Appendix

1

Photo report

Zoning and Personal Protective Equipment



Figure A1.1 Outdoor zoning (left) indoor zoning (right)



Figure A1.2 PPE usage (left and right)



Figure A1.3 Cleaning of equipment (left and right)

Equipment



Figure A1.4 Cherry picker (left) fork lift (right)



Figure A1.5 Concrete coring (left) waste sampling equipment (right)



Figure A1.6 Driller for building block samples (left) 3D scanner (right)



Figure A1.7 Industrial vacuum cleaner (left) Industrial light and fire extinguisher (right)

Sampling of wastes



Figure A1.8 Sampling of wastes in warehouse 5 (left) Spray painting the sampling location (right)



Figure A1.9 Manual drilling through wastes (left) Transfer of samples to sampling bags (right)



Figure A1.10 Collection of sampling bags (left) Creation of composite samples (right)

Weighing of drums



Figure A1.11 Binding of dangerous drums (left and right)



Figure A1.12 Movement of drums on pallets (left) Movement of individual drums (right)



Figure A1.13 Placement of drums on pallets (left) Sticking of individual drums (right)

Sampling of floors



Figure A1.14 Sampling point W4-F1 (left) sampling point W4-F2 (right)



Figure A1.15 Sampling point W5-F3 (left) Sampling point W3-F4 (right)



Figure A1.16 Sampling point W3-F5 (left) Sampling point W3-F6 (right)



Figure A1.17 Sampling point W2-F7 (left) Sampling point W2-F8 (right)



Figure A1.18 Collection of material from sampling point W4-F2 (left) Material from sampling point W2-F7 (right)



Figure A1.19 Concrete core at W3-F6 (left) Concrete core from W3-F6 (right)

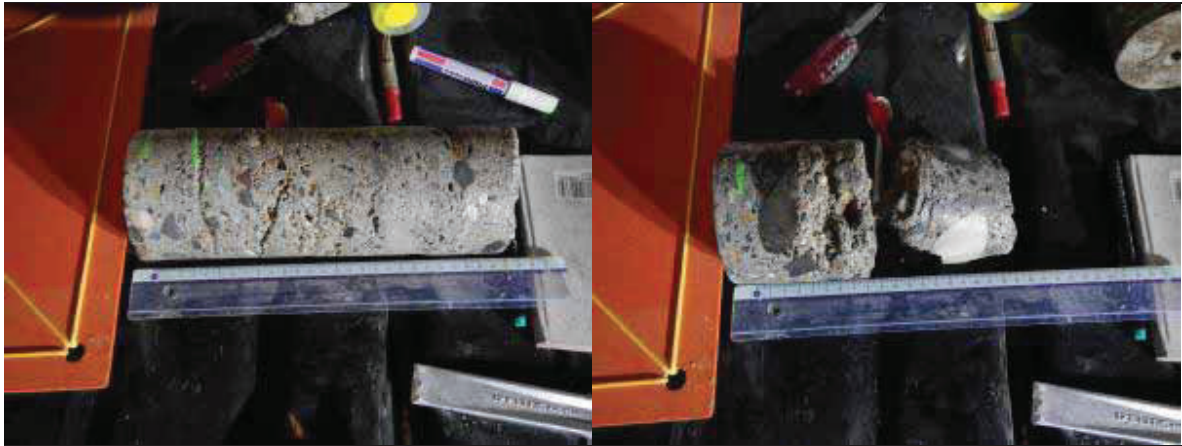


Figure A1.20 Concrete core from W5-F3 (left) Concrete core from W2-F7 (right)



Figure A1.21 Cut concrete cores (left) Refilling with cement (right)



Figure A1.22 Checking cracks in floor (left) Checking the depth of cracks (right)

Sampling of walls/building blocks



Figure A1.23 Cleaning of blocks with vacuum cleaner (left) Removal of blocks from the wall (right)



Figure A1.24 Crushing of wall blocks (left) Refilling of holes with new blocks (right)



Figure A1.25 Styro foam to close gaps in walls (left)

Specific weight



Figure A1.26 Location 1 for sampling of packaging wastes (left) Weighing of packaging wastes (right)



Figure A1.27 Determination of specific weight of POP pesticides (left) Specific weight POP pesticides, right most set is wet pesticides (right)

POP pesticides



Figure A1.28 Neatly stacked Technical HCH in NW corner of warehouse 4 (left) HCH wastes in warehouse 6 (right)



Figure A1.29 HCH wastes in warehouse 5 and 6 (left) HCH wastes in warehouse 4 (right)



Figure A1.30 Drums full with wastes in warehouse 2 (left) DDT in warehouse 1(right)



Figure A1.31 Soil mixed with POP pesticides between warehouse 3 and 4 (left) Pit in warehouse 1b (right)



Figure A1.32 Pit with POP pesticides in warehouse 2 (left)

POP Impacted materials



Figure A1.33 Empty packaging in warehouse 4 (left) PE drums (right)



Figure A1.34 Metal drums (left) drums filled with water (right)



Figure A1.35 Floors (left) First layer concrete blocks (right)



Figure A1.36 Contaminated lower walls(left) Pallet waste (right)



Figure A1.37 Scrap metal (left) PPE wastes (right)



Figure A1.38 Scrap metal from machinery and wells (left) Miscellaneous wastes (right)

Building features



Figure A1.39 Warehouse 1a (left) Warehouses 1b and 1c (right)



Figure A1.40 Electric pole through roof in warehouse 1b(left) Septic tank outside warehouse 1c (right)



Figure A1.41 Inside warehouse 1a (left and right)



Figure A1.42 Inside warehouse 1b (left) Inside warehouse 1c (right)



Figure A1.43 Backside warehouse 2 (left) Front of warehouse 2 (right)



Figure A1.44 Drums inside warehouse 2 (left) Well inside warehouse 2 (right)



Figure A1.45 Warehouse 3 backside (left) Warehouse 3 front (right)



Figure A1.46 Warehouse 3 equipment (left) Warehouse 3 back walls (right)



Figure A1.47 Warehouse 4 backside (left) Decontamination unit between warehouse 3 and 4 (right)



Figure A1.48 Equipment in warehouse 4 (left) Inside doors warehouse 4 (right)



Figure A1.49 Backside warehouse 5 (left) Back wall warehouse 5 (right)



Figure A1.50 Backside warehouse 6 (left) East wall warehouse 6 (right)



Figure A1.51 Warehouse 6 towards East and South walls (left) Roof of warehouse 6 (right)

Various



Figure A1.52 Labels for HCH in warehouse 6 (left) Outdoor fences (right)



Figure A1.53 Distribution unit outside warehouse 1b (left) Electricity units outside warehouse 4 (right)



Figure A1.54 Water distribution outside warehouse 2 (left) water collection areas outside warehouse 2 (right)



Figure A1.55 Groundwater extraction well at warehouse 6 (left) Blocked gutter between warehouse 4 and 5 (right)

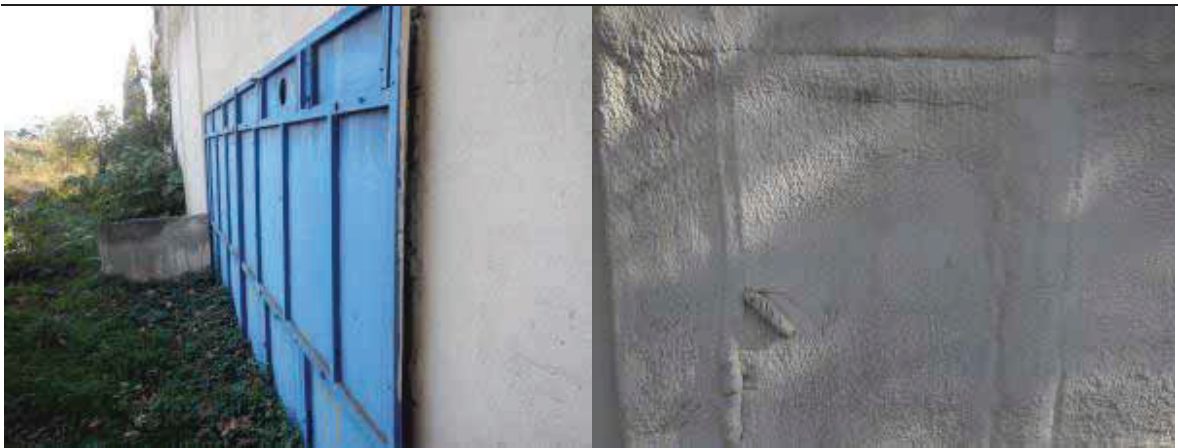


Figure A1.56 Old door at back of warehouse 5 (left) Door styrofoamed shut (right)



Figure A1.57 Railroad tracks to the North of the site (left) Mosque to the west of the site (right)

Appendix

2

Task Based Risk Assessment and attendance sheets

	Hazard	Consequence	Affected parties	Probability	Frequency	Severity	Risk Assessment (Description & Score)	Action	Precautions
1	Process design has not been arranged in such an appropriate way that elimination or minimization of spread of carcinogenic or mutagenic materials on working environment is of high priority.	Inhalation of carcinogenic materials by workers, digestion of carcinogenic materials and contact with carcinogenic materials	All workers & employees	Quite Possible	Continuous	Serious Injury	High Risk 284	<p>Actions taken:</p> <ul style="list-style-type: none"> - Staff working on the site will wear protective clothing and respirators - Site entrance has been transformed into a cleaning area with boot wash, area to remove large chunks of pesticides - Where driving will take place we have covered the floor with plastic sheets. These will be made wet as to limit dust 	Warning signs and instructions on use of PPE
2	Removal of carcinogenic or mutagenic materials at their local sources or via general ventilation or via other methods has not been provided without giving any damage on public health and environment.	Exposure to carcinogenic or mutagenic materials	All workers & employees	Quite Possible	Continuous	Serious Injury	High Risk 284	Staff entering the site will be equipped with A1B1E1K1 P3 half face masks. Filters for masks will be changed every two days.	Warning signs and instructions on use of PPE
3	Falling	Serious injuries, exposure to carcinogenic or mutagenic materials	All workers & employees	Quite Possible	Continuous	Serious Injury	High Risk 284		Staff working on site works in teams. Use of sufficient light to allow for clear pathways. No work next to high drops.
4	Hit by machinery	Serious injuries,	All workers & employees	Quite Possible	Continuous	Serious Injury	High Risk 284		Staff on site is instructed in tool workshop prior of start of use. Clear division on tasks when working with machinery

	Hazard	Consequence	Affected parties	Probability	Frequency	Severity	Risk Assessment (Description & Score)	Action	Precautions
5	Suitable warning signboards and safety signs where individuals are exposed to or at risk of exposing to any carcinogenic or mutagenic materials are not available. In these areas, warnings signs for restriction of smoking, eating and drinking are not available.		All workers and employees	Conceivable	Continuous	Serious Injury	Moderate Risk 25	Warning signs made and installed at every step of zoning in line with Regulation on Occupational Health and Safety Signs	
6	There is no any emergency response plan available. In prospective emergency response plan, actions against conditions which cause high level of exposure should also be added.		All workers and employees	Unusual but Possible	Infrequent	Serious Injury	Moderate Risk 20	An emergency response plan which includes all possible emergency conditions distance to hospital and contact details is prepared	
7	Two separate cloth wardrobes for daily clothes of workers and personal protective equipments and clothes are not available.		All workers and employees	Quite Possible	Continuous	Serious Injury	High Risk 284	Use of decontamination unit with separated clean and dirty areas and sluice inbetween	
9	Keeping personal protective equipments (PPEs) under suitable conditions and places and after using, and also if possible, before using them, checking, controlling, cleaning of PPEs are not provided.		All workers and employees	Quite Possible	Continuous	Serious Injury	High Risk 284	PPE are given to workers and instruction on use of PPE. PPE stored in separate place inside decontamination unit.	
10	Before entering site, necessary information and instructions have not been given to visitors and other individuals.		All workers and employees	Unusual but Possible	Continuous	Serious Injury	Substantial Risk 126	Visitors are individually instructed on site hazards and can only enter the site under supervision of site management	

	Hazard	Consequence	Affected parties	Probability	Frequency	Severity	Risk Assessment (Description & Score)	Action	Precautions
11	Material Safety Data Sheets (MSDS) (in Turkish) of carcinogenic or mutagenic materials that are used in the facility are not available, easy access and readability for worker in charge and/or representative have not been provided.		All workers and employees	Occasional	Quite Possible	Seriously Injury	Substantial Risk 85	All MSDS (in Turkish) of any available chemicals in the facility are be provided	
12	Updated list of workers in charge for works with high health and safety risks and updated records of exposure levels for workers in charge are not available.		All workers and employees	Quite Possible	Infrequent	Casualty Treatment	Moderate Risk 18		Health records of workers should be recorded and kept for at least forty (40) years. "Health Check-Up" ve "Working Environment Inspection" Data should be recorded.
13	Necessary arrangements for immediate actions and precautions for personal and occupational hygiene have not been made.		All workers and employees	Quite Possible	Continuous	Serious Injury	High Risk 284		Exposure measures of working environment and workers should be carried out if necessary in order to control dust exposure. In the units where ventilation and cleaning can't be carried out as sufficient as it is required, PPEs should be used as additional precautions.
15	Emergency response plans have not been prepared and emergency response equipments have not been arranged.		All workers and employees	Quite Possible	Rare	Serious Injury	Moderate Risk 26		Emergency cases in working environment should be identified seperately and for each emergency cases, specific emergency response plans should be prepared. Within workers 1) Search, rescue and evacuation 2) Fire fighting and 3) First aid teams should be established. Emergency practices should be performed. At the start of working with new machinery a Smart Work Analysis is performed
16	Emergency response and evacuation procedures are not ready for use.		All workers and employees	Quite Possible	Rare	Serious Injury	Moderate Risk 26		Emergency response procedures should be prepared and all workers should be informed about these procedures.

	Hazard	Consequence	Affected parties	Probability	Frequency	Severity	Risk Assessment (Description & Score)	Action	Precautions
17	There is not enough personnel having sufficient number of first-aid certificate.		All workers and employees	Quite Possible	Rare	Serious Injury	Moderate Risk 26		One staff member on site is in the possession of first aid certificate
18	Necessary emergency response information, potential hazards, precautions and things-to-do to related external institutions and organizations such as first-aid centers, emergency medical response centers, rescue and fire fighting departments have not been provided.		All workers and employees	Quite Possible	Rare	Serious Injury	Moderate Risk 26		Related external institutions and organizations in question should be informed.
19	Sufficient training to all workers and workers' representatives about hazards in the facility and potential risks due to these hazards have not been provided.		All workers and employees	Quite Possible	Infrequent	Serious Injury	Moderate Risk 45	All staff working at the site receive training on working with materials and use of PPE	
21	Enough illumination, ventilation and thermal comfort conditions for working environment have not been provided.		All workers and employees			Serious Injury		Use of industrial lamps to improve lighting conditions	
22	Necessary precautions for fire prevention and potential negative results of any fire have not been taken.		All workers and employees			Serious Injury		Three fire extinguishers have been provided	

	Hazard	Consequence	Affected parties	Probability	Frequency	Severity	Risk Assessment (Description & Score)	Action	Precautions
23	Residual current devices in electrical distribution panels are not available.		All workers and employees			Serious Injury			Use of electricity is left to technicians of Kloruma factory

Attendance sheet form

Project Name:

POP Merkim

Location:

Derince, Kocaeli

Date:

UN Project ID:

UNDP-TUR-RFP-PROJ(POPS)-2016/01

Tauw Project ID:

1239389

Site entrance sheet

Isim/Name:	is/company	kimlik/ID-number	Zaman/Time entry	geçen süre / Time departure	İmza/Signature	bölge gücü/Zone clearance
1 Gımdo	TANM	3/11	9:30	16:30	[Signature]	3
2 Onur	Most		9:30	16:30	[Signature]	3
3 Birkon	most		9:30	13:00-16:30	[Signature]	3-2
4 Bourdewin	Tauw	3/11	9:30	18:00	[Signature]	3
5 Onur	Most		9:30	18:00	[Signature]	3
6 Birkon	Most		9:30	18:00	[Signature]	3
7 Gımdo	TANM	4/11	9:30	18:00	[Signature]	3
8 Gımdo	TANM	4/11	8:00	18:00	[Signature]	3
9 Bourdewin	Tauw	3/11	9:00	18:00	[Signature]	3
10 Onur	Most		9:00	18:00	[Signature]	3
11 Birkon	Most		9:00	17:15	[Signature]	3
12 Gımdo	TANM	4/11	8:15	17:30	[Signature]	3
13 Onur	Most		8:15	17:30	[Signature]	3
14 Birkon	Most		8:15	17:30	[Signature]	3

Approved by:

Date:

Signature:

Attendance sheet form



Project Name: POP Merkim
Location: Derince, Kocaeli
Date:

UN Project ID: UNDP-TUR-RFP-PROJ/POP-2016/01
Tauw Project ID: 1239389

Site entrance sheet

İsim/Name:	is/company	Kimlik/ID-number	Zaman/Time entry	geçen süre / Time departure	İmza/Signature	bölge gücü/Zone clearance
1 Guido	Tauw	7-11-16	0:15	17:30	[Signature]	3
2 Onur	MOST	7-11-16	9:15	17:30	[Signature]	3
3 Birkar	MOST	7-11-16	9:15	17:50	[Signature]	3
4 Guido	Tauw	11-11-16	0:15	18:00	[Signature]	3
5 ramdeniz	Tauw	"	0:15	19:00	[Signature]	3
6 Onur	MOST	"	0:15	18:00	[Signature]	3
7 Birkar	MOST	"	0:15	18:05	[Signature]	3
8 Birkar	MOST	12.11.2016	19:15	18:00	[Signature]	3
9 Branchwip	Tauw	12.11.2016	19:15	18:00	[Signature]	3
10 Onur	MOST	"	0:15	18:00	[Signature]	3
11 ramdeniz	Tauw	"	0:15	18:00	[Signature]	3
12 Birkar	MOST	13.11.2016	09:30	18:00	[Signature]	3
13 Onur	MOST	"	0:30	18:00	[Signature]	3
14 ramdeniz	Tauw	13.11.2016	09:30			3
		13.11	09:30			3

Approved by:

Date:

Signature:

14/11/2016 Attendance Sheet form 1239989

		Camp	Time dep	Sign	Zone
B. Ucker	9.00	Team	18.00	<i>[Signature]</i>	3
Gud Cohen	9.00	Team	18.00	<i>[Signature]</i>	3
Birken	9.00	Most	18.00	<i>[Signature]</i>	3
Onur	9.00	Most	18.00	<i>[Signature]</i>	3

15/11/2016

Guido	8:30	Team	18:00	<i>[Signature]</i>	3
Birken	8:30	most	18.00	<i>[Signature]</i>	3
Onur	8:30	most	18:00	<i>[Signature]</i>	3
Myrander	8:30	Team			3
Beuel	8:30	Team	18.00	<i>[Signature]</i>	3

16/11/2016

Birken	8:30	most			
Guido	8:30	Most	17:30	<i>[Signature]</i>	3
Beel	14.15	Team			

Appendix

3

Overview composite samples wastes

Nr	Waste sub-population	Sample materials	Nr. samples points	Maximum sampling depth	Comments
1-1	Warehouse 1	Bags		5 1 m	
1-2	Warehouse 1	Bags		5 2 m	White powder bags (in case HCL field test does not indicate anything)
2-1	Warehouse 2	Drums			
2-2	Warehouse 2	Drums			Drums filled with yellow bags
2-3	Warehouse 2				Extra
2-4	Warehouse 2				Extra
3-1	Warehouse 3				Extra
4-1	Warehouse 4	Bags		5 1 m	
4-2	Warehouse 4	Bags		5 1 m	
4-3	Warehouse 4	Bags		5 2 m	
4-4	Warehouse 4	Bags		5 1 m	Yellow bags
4-5	Warehouse 4				Extra
4-6	Warehouse 4				Extra
5-1	Warehouse 5	Bags		5 1 m	
5-2	Warehouse 5	Bags		5 1m	
5-3	Warehouse 5	Bags		5 2 m	
5-4	Warehouse 5	Bags		5 2 m	
5-5	Warehouse 5	Bags		5 2 m	
5-6	Warehouse 5				Extra
5-7	Warehouse 5				Extra
6-1	Warehouse 6	Bags		5 1 m	
6-2	Warehouse 6	Bags		5 1m	
6-3	Warehouse 6	Bags		5 1 m	
6-4	Warehouse 6	Bags		5 1 m	
6-5	Warehouse 6	Bags		5 2 m	
6-6	Warehouse 6	Bags		5 2 m	
6-7	Warehouse 6	Bags		5 2 m	
6-8	Warehouse 6	Bags		5 2 m	
6-9	Warehouse 6	Bags		5 3-4 m	
6-10	Warehouse 6	Bags		5 3-4 m	
6-11	Warehouse 6	Bags		5 3-4 m	
6-12	Warehouse 6	Bags		5 3-4 m	
6-13	Warehouse 6				Extra
6-14	Warehouse 6				Extra
6-15	Warehouse 6				Extra

Sampling form Warehouse 1

Composite sample number	Average sample depth (m - surface) Weight (gr)		Tauw	1239389 - POP Turkey
	W1-1	77-81	Date	04/11/2016
			Sampler	GMC

Code	Sample Depth (m - surface)	X	Y	Remarks
W1S77D1V1	1	9.2 W	1.1 N	Yellow - DDT?
W1S78D1V1	0.3	3.8 E	2.3 N	Yellow - DDT?
W1S79D1V1	1.5	1.1 E	3.3 N	Yellow - DDT?
W1S80D1V1	0.3	2.1 E	6.2 N	Yellow - DDT?
W1S81D1V1	1.4	2.7 E	8.1 N	Yellow - DDT?

Sampling form Warehouse 4

Composite sample number	Numbers		Weight (gr)	Tauw 1239389 - POP Turkey
	W4-1 D1	1,2, 4, 5		Date 02/11/2016
	W4-2 D1	6-10		02/11/2016
	W4-3 D1	11-13, 15		02/11/2016
	W4-4 D1	16-20		02/11/2016
			Sampler GMC	

Individual samples	Code	Sample Depth (m - surface)	X	Y	Remarks
	W4S1D1V1	0.05	15.8 E	4.0 N	
W4S2D1V1	0.05	15.0 E	13 N		
W4S3D1V1	0.05	16.8 E	16.7 N	Yellow	
W4S4D1V1	0.05	17.0 E	10.0 N		
W4S5D1V1	0.05	20.0 E	4.0 N		
W4S6D1V1	0.05	1.0 W	6.0 N	Yellow	
W4S7D1V1	0.05	1.5 W	1.0 N	Yellow	
W4S8D1V1	1.1	3.6 W	1.0 N	Yellow	
W4S9D1V1	0.05	4.4 W	5.5 N	Yellow	
W4S10D1V1	1.1	2.4 W	7.7 N	Yellow	
W4S11D1V1	0.05	7.0 W	9.6 N		
W4S12D1V1	0.05	4.0 W	10.6 N		
W4S13D1V1	0.05	7.0 W	11.0 N		
W4S14D1V1	1.5	7.5 W	4.4 N	Yellow	
W4S15D1V1	0.05	7.4 W	0.4 N		
W4S16D1V1	1.5	1.3 E	13.0 N		
W4S17D1V1	0.05	1.2 E	16.0 N		
W4S18D1V1	0.05	4.0 E	18.0 N		
W4S19D1V1	0.05	7.7 E	18.3 N		
W4S20D1V1	1.5	6.7 E	14.4 N		

Sampling form Warehouse 5

Composite sample number	Numbers		Weight (gr)	Tauw	1239389 - POP Turkey
	W5-1 D1	21-25		Date	02/11/2016
	W5-2 D1	26-27, 29-30			02/11/2016
	W5-3 D1	31-35			02/11/2016
	W5-4 D1	36-40			02/11/2016
	W5-5	41-45			02/11/2016
			Sampler	GMC	

Code	Sample Depth (m - surface)	X	Y	Remarks
W5S21D1V1	0.05	9.3 E	1.0 N	
W5S22D1V1	1.5	6.0 E	4.0 N	
W5S23D1V1	0.05	1.0 E	2.7 N	
W5S24D1V1	0.05	3.4 E	2.3 N	
W5S25D1V1	0.05	1.0 E	6.0 N	
W5S26D1V1	0.05	1.7 E	10.7 N	
W5S27D1V1	2.2	2.7 E	20.8 N	
W5S28D1V1	0.05	4.8 E	3.7 S	Yellow not in CS
W5S29D1V1	1.5	6.3 E	5.8 S	
W5S30D1V1	2.2	10.0 E	4.0 S	
W5S31D1V1	0.05	15.0 E	1.4 N	
W5S32D1V1	1.2	9.6 W	2.0 N	
W5S33D1V1	0.05	14.2 E	4.8 N	
W5S34D1V1	0.05	18.0 E	5.8 N	
W5S35D1V1	0.05	8.0 W	5.5 N	
W5S36D1V1	0.05	8.8 W	9.7 S	
W5S37D1V1	0.05	10.6 W	6.7 S	
W5S38D1V1	0.05	15.0 W	8.2 S	
W5S39D1V1	0.05	14.2 W	3.4 S	
W5S40D1V1	0.05	12.8 W	1.2 S	
W5S41D1V1	0.05	3.0 W	5.4 S	
W5S42D1V1	0.05	4.0 W	3.6 S	
W5S43D1V1	0.05	0.6 W	5.0 S	
W5S44D1V1	1.5	2.7 W	1.5 S	
W5S45D1V1	0.05	4.8 W	0.3 S	

Sampling form Warehouse 6

Composite sample number	Numbers		sampler	Tauw	1239389 - POP Turkey
				Date	
	W6-1 D1	46-50	GMC		03/11/2016
	W6-2 D1	51, 53, 55	GMC		03/11/2016
	W6-3 D1	56-60	GMC		03/11/2016
	W6-4 D1	63-65	GMC		03/11/2016
	W6-5 D1	67-70	GMC		03/11/2016
	W6-6 D1	71, 73, 75	GMC		03/11/2016
	W6-8 D2	201-205	BFF		04/11/2016
	W6-9 D2	206-210	BFF		04/11/2016
	W6-10 D2	211-215	BFF		04/11/2016
	W6-11 D2	216-220	BFF		04/11/2016
	W6-12 D3	221, 223-225	BFF		04/11/2016
	W6-13 D3	226-230	BFF		04/11/2016
	W6-14 D3	231-235	BFF		04/11/2016
	W6-15 D3	236-238, 240	BFF		04/11/2016
	W6-16 D4	241-244	BFF		05/11/2016
	WT-1 D1	3, 14, 55, 66, 72	GMC		04/11/2016
	WT-2 D1	27, 52, 74	GMC		04/11/2016
	WT-3 D3	222, 239	BFF		04/11/2016

Individual samples	Code	Sample Depth (m - surface)	X	Y	Remarks	
	W6S46D1V1		0.05	0.6 W	2.0 S	
	W6S47D1V1		0.05	4.6 W	2.7 S	
	W6S48D1V1		0.05	8.4 W	4.4 S	
	W6S49D1V1		0.05	13.0 W	2.3 S	
	W6S50D1V1		0.05	14.0 W	5.2 S	
	W6S51D1V1		0.05	17.2 W	5.8 S	
	W6S52D1V1		0.05	17.3 W	2.0 S	Yellow
	W6S53D1V1		0.05	9.9 E	7.2 S	
	W6S54D1V1		0.05	7.5 E	2.7 S	Pasta
	W6S55D1V1		0.05	6.4 E	6.6 S	
	W6S56D1V1		0.3	1.1 E	4.0 S	
	W6S57D1V1		0.3	3.1 E	4.5 S	
	W6S58D1V1		0.3	1.0 E	1.3 S	
	W6S59D1V1		0.3	5.0 E	0.9 S	
	W6S60D1V1		0.3	3.3 E	1.8 S	
	W6S61D1V1		0.3	3.1 E	9.4 S	
	W6S62D1V1		0.3	2.5 E	20.4 S	
	W6S63D1V1		0.3	2.8 E	1.8 N	Yellow
	W6S64D1V1		0.3	7.1 E	2.5 N	Yellow
	W6S65D1V1		0.3	7.4 E	6.4 N	Yellow
	W6S66D1V1		0.3	10.8 E	4.0 N	Yellow
	W6S67D1V1		0.3	10.9 E	9.0 N	
	W6S68D1V1		0.3	15.8 W	6.3 N	
	W6S69D1V1		0.3	12.4 W	8.9 N	

W6S70D1V1	0.3	12.6 W	4.3 N	
W6S71D1V1	0.3	7.8 W	10.9 N	
W6S72D1V1	0.3	8.9 W	7.3 N	Yellow
W6S73D1V1	0.3	8.2 W	3.2 N	
W6S74D1V1	0.3	5.6 W	8.9 N	Light yellow
W6S75D1V1	0.3	1.5 W	7.7 S	
W6S201D2V1	1.0 - 2.0	3.5 W	2.5 N	
W6S202D2V1	1.0 - 2.0	12.6 W	4.2 N	
W6S203D2V1	1.0 - 2.0	7.8 W	6.3 N	
W6S204D2V1	1.0 - 2.0	4.3 W	9.5 N	
W6S205D2V1	1.0 - 2.0	12.0 W	11.0 N	
W6S206D2V1	1.0 - 2.0	3.1 E	4.4 N	
W6S207D2V1	1.0 - 2.0	2.8 E	8.7 N	
W6S208D2V1	1.0 - 2.0	8.7 E	6.2 N	
W6S209D2V1	1.0 - 2.0	13.8 E	7.7 N	
W6S210D2V1	1.0 - 2.0	14.0 E	2.3 N	
W6S211D2V1	1.0 - 2.0	4.6 W	2.8 S	
W6S212D2V1	1.0 - 2.0	11.1 W	6.3 S	
W6S213D2V1	1.0 - 2.0	7.6 W	8.5 S	
W6S214D2V1	1.0 - 2.0	2.8 W	9.3 S	
W6S215D2V1	1.0 - 2.0	12.1 W	10.8 S	
W6S216D2V1	1.0 - 2.0	12.4 E	8.5 S	
W6S217D2V1	1.0 - 2.0	3.0 E	9.1 S	
W6S218D2V1	1.0 - 2.0	2.3 E	4.9 S	
W6S219D2V1	1.0 - 2.0	13.1 E	7.3 S	
W6S220D2V1	1.0 - 2.0	6.8 E	7.9 S	
W6S221D3V1	2.0 - 3.0	8.0 E	6.4 S	
W6S222D3V1	2.0 - 3.0	2.4 E	6.6 S	Yellow pasta
W6S223D3V1	2.0 - 3.0	7.0 E	7.3 S	
W6S224D3V1	2.0 - 3.0	2.3 E	9.7 S	
W6S225D3V1	2.0 - 3.0	13.6 E	10.1 S	
W6S226D3V1	2.0 - 3.0	13.6 E	9.5 N	
W6S227D3V1	2.0 - 3.0	8.3 E	5.3 N	
W6S228D3V1	2.0 - 3.0	3.0 E	4.4 N	
W6S229D3V1	2.0 - 3.0	2.1 E	9.0 N	
W6S230D3V1	2.0 - 3.0	9.5 E	7.0 N	
W6S231D3V1	2.0 - 3.0	12.3 W	3.9 N	
W6S232D3V1	2.0 - 3.0	5.3 W	4.6 N	
W6S233D3V1	2.0 - 3.0	9.4 W	8.6 N	
W6S234D3V1	2.0 - 3.0	13.4 W	7.1 N	
W6S235D3V1	2.0 - 3.0	4.2 W	8.4 N	
W6S236D3V1	2.0 - 3.0	2.7 W	6.4 S	

W6S237D3V1	2.0 - 3.0	2.7 W	3.5 S	
W6S238D3V1	2.0 - 3.0	7.5 W	8.1 S	
W6S239D3V1	2.0 - 3.0	11.4 W	9.1 S	Yellow powder
W6S240D3V1	2.0 - 3.0	13.3 W	5.8 S	
W6S241D3V1	3.0 - 4.0	7.3 W	10.0 N	
W6S242D3V1	3.0 - 4.0	13.1 W	9.2 N	
W6S243D3V1	3.0 - 4.0	13.5 E	9.9 N	
W6S244D3V1	3.0 - 4.0	4.7 E	7.7 S	

Appendix

4

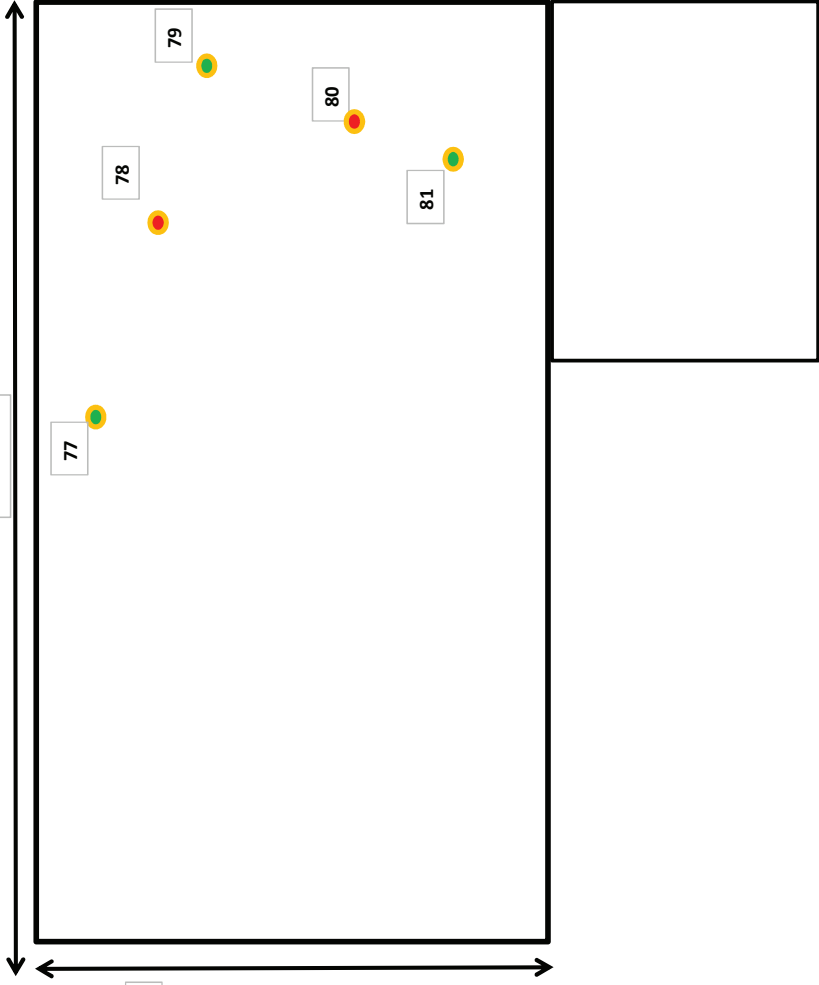
Map sampling locations wastes

Warehouse 1

10 m

16.5 m

0-1 m
1-2 m
2-3 m
> 3 m
DDT

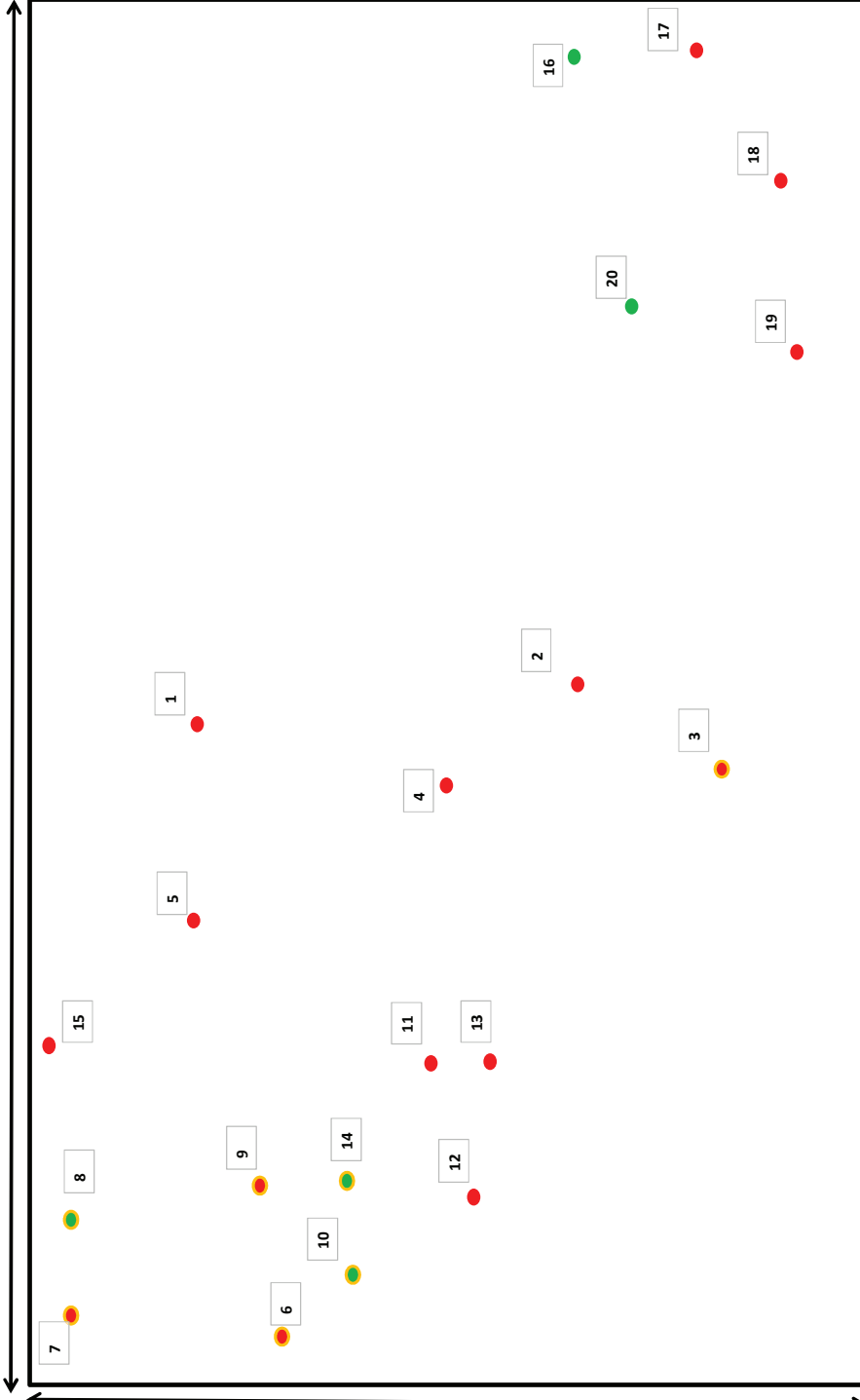


Warehouse 4

30 m

20 m

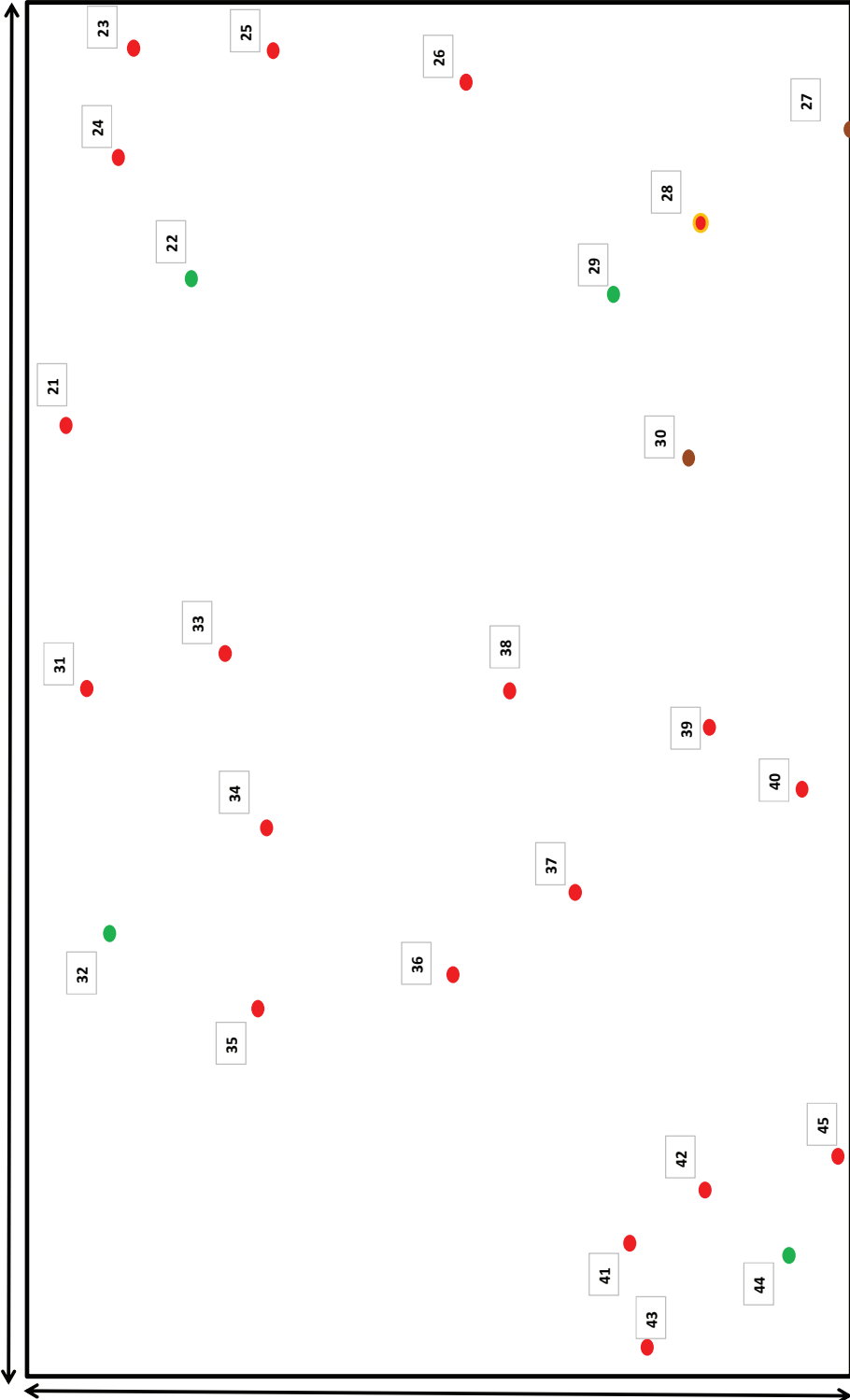
0-1 m	●
1-2 m	●
2-3 m	●
> 3 m	●
Yellow	○



Warehouse 5

30 m

20 m

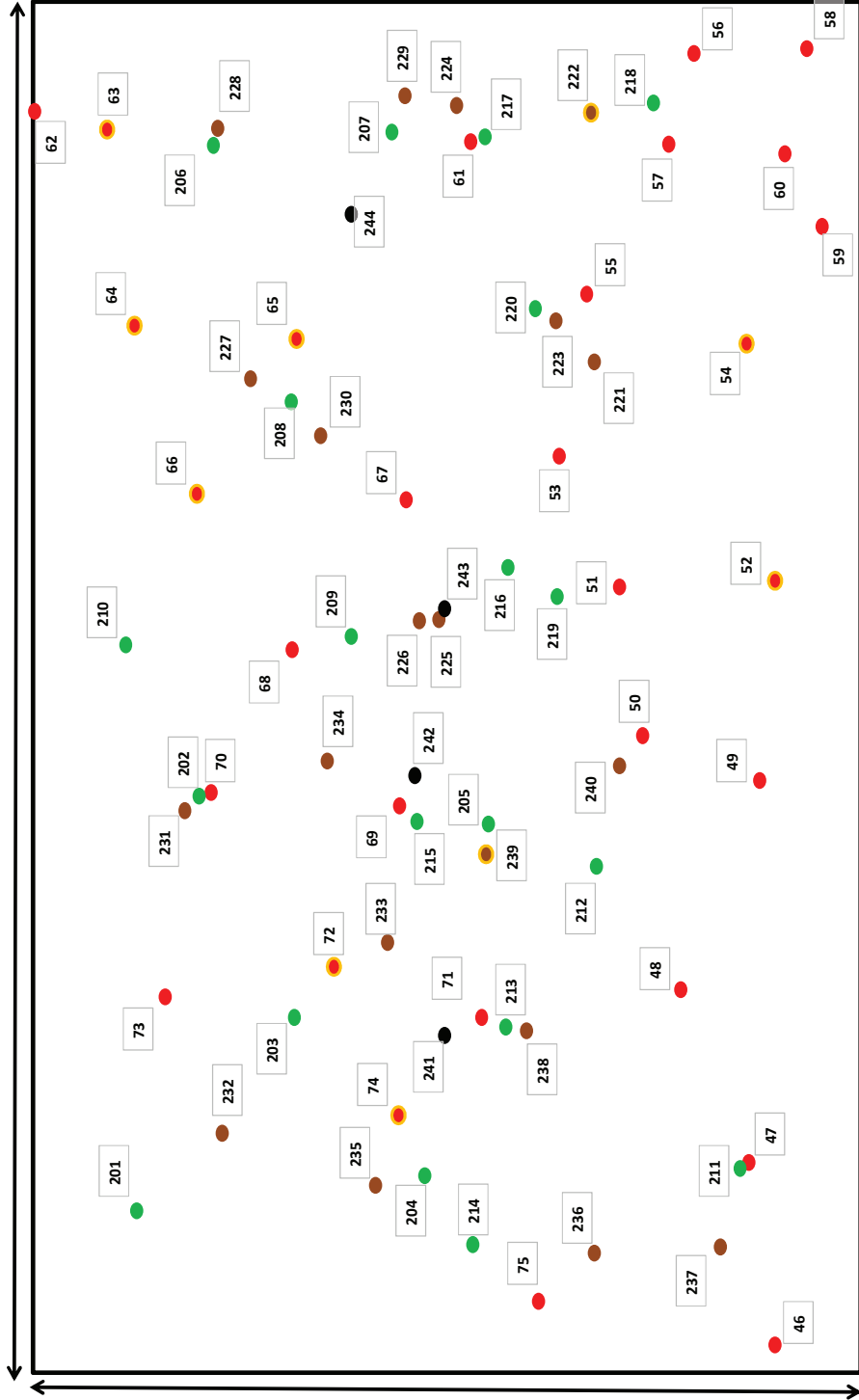


0-1 m	Red dot
1-2 m	Green dot
2-3 m	Brown dot
> 3 m	Black dot
Yellow	Yellow dot

Warehouse 6

30 m

20 m



Appendix

5

Drum inventory

Drum Label	Contents				Drum Material			Drum Size (l)		Drum Weight (ton)	Comments
	Empty	POP-pesticides	water	Other	Steel	PE	Other	200 liters	Other		
3	x			x	x			x			Empty drum with limited amount of contaminated packaging
4	x			x	x			x		0,08	Empty drum with limited amount of contaminated packaging
5	x			x	x			x			Empty drum with limited amount of contaminated packaging
6	x			x	x			x			Empty drum with limited amount of contaminated packaging
7	x				x			x		0,09	
8	x				x			x			
9	x				x			x			
10	x				x			x			
11	x				x			x		0,076	
12	x				x			x			
13	x				x			x			
14	x				x			x			
15				x	x			x		0,15	Filled with drum lids
16	x				x			x			
17			x		x			x			1/3 filled with water
18	x				x			x			
19	x				x			x		0,06	
20	x				x			x			
21	x				x			x			
22	x				x			x			
23	x				x			x			
24	x				x			x		0,05	
25	x				x			x			
26	x				x			x			
27	x				x			x		0,12	
28	x				x			x			
29			x		x			x			100% full with water
30	x				x			x			
31	x				x			x		0,1	
32	x				x			x			
33	x				x			x			
34	x				x			x			
35	x				x			x		0,08	
36	x				x			x			
37	x				x			x			
38	x				x			x			
39	x				x			x		0,6	
40			x		x			x			100% full with water
41			x		x			x			70% full with water
42			x		x			x			100% full with water
43	x				x			x		0,28	
44	x				x			x			
45				x	x			x			Full with lids
46			x		x			x			100% full with water
47	x				x			x		0,43	
48			x		x			x			15% full with water
49			x		x			x			100% full with water
50			x		x			x			100% full with water
51			x		x			x		0,6	100% full with water
52	x				x			x			100% full with water
53			x		x			x			1/3 filled with water
54			x		x			x			
55				x	x			x		0,42	
56	x				x			x			
57			x		x			x			
58			x		x			x			
59			x		x			x		0,6	
60			x		x			x			
61			x		x			x			
62			x		x			x			
63			x		x			x		0,19	
64			x		x			x		0,21	
65			x		x			x		0,2	
66			x		x			x		0,2	
67			x		x			x		0,1	
68			x		x			x		0,2	
69		x			x			x		0,41	100% filled with bags full of POP-pesticides
70		x			x			x		0,14	100% filled with bags full of POP-pesticides
71		x			x			x		0,14	100% filled with bags full of POP-pesticides
72		x			x			x		0,43	100% filled with bags full of POP-pesticides
73		x			x			x		0,13	100% filled with bags full of POP-pesticides
74		x			x			x		0,16	100% filled with bags full of POP-pesticides
75		x			x			x		0,14	100% filled with bags full of POP-pesticides
76		x			x			x		0,16	100% filled with bags full of POP-pesticides
77		x			x			x		0,17	100% filled with bags full of POP-pesticides
78		x			x			x		0,17	
79		x			x			x		0,03	
80			x		x			x		0,33	
81	x				x			x		0,02	
82	x				x			x			Filled with drum lids
83		x			x			x			100% filled with bags full of POP-pesticides

Drum Label	Contents				Drum Material			Drum Size (l)		Drum Weight (ton)	Comments
	Empty	POP-pesticides	water	Other	Steel	PE	Other	200 liters	Other		
84		x			x			x		0,6	100% filled with bags full of POP-pesticides
85		x			x			x			100% filled with bags full of POP-pesticides
86		x			x			x			100% filled with bags full of POP-pesticides
90		x			x			x			30% filled with bags full of POP-pesticides
91		x			x			x		0,26	100% filled with bags full of POP-pesticides
92		x			x			x			Full with rotten and contaminated pallet wood
93		x			x			x			50% full with floor sweep
94		x			x			x		0,19	100% filled with bags full of POP-pesticides
95		x			x			x		0,16	100% filled with bags full of POP-pesticides
96		x			x			x		0,16	100% filled with bags full of POP-pesticides
97		x			x			x		0,2	100% filled with bags full of POP-pesticides
98		x			x			x		0,18	100% filled with bags full of POP-pesticides
99		x			x			x		0,17	100% filled with bags full of POP-pesticides
100		x			x			x		0,19	100% filled with bags full of POP-pesticides
101		x			x			x		0,13	100% filled with bags full of POP-pesticides
110		x			x			x		0,22	100% filled with bags full of POP-pesticides
111		x			x			x		0,15	100% filled with bags full of POP-pesticides
102		x			x			x			100% filled with bags full of POP-pesticides
103		x			x			x		0,58	100% filled with bags full of POP-pesticides
104		x			x			x			100% filled with bags full of POP-pesticides
105		x			x			x			100% filled with bags full of POP-pesticides
106		x			x			x			100% filled with bags full of POP-pesticides
107		x			x			x		0,54	100% filled with bags full of POP-pesticides
108		x			x			x			100% filled with bags full of POP-pesticides
109		x			x			x			100% filled with bags full of POP-pesticides
112		x			x			x			100% filled with bags full of POP-pesticides and other waste
113	x				x			x		0,14	
114	x				x			x			
115					x			x			100% filled with bags full of POP-pesticides and other waste
116		x			x			x		0,13	
117		x			x			x		0,17	
118		x			x			x		0,38	
119											Data got lost
120											Data got lost
121		x			x			x		0,44	
122		x			x			x		0,13	
123		x			x			x		0,15	
124		x			x			x		0,09	
125		x			x			x		0,14	
126		x			x			x		0,16	
127		x			x			x		0,16	
128		x			x			x			
129		x			x			x		0,56	
130		x			x			x			
131		x			x			x			
132		x			x			x			
133		x			x			x		0,63	
134		x			x			x			
135		x			x			x			
136		x			x			x			
137		x			x			x		0,55	
138		x			x			x			
139		x			x			x			
140		x			x			x		0,16	
141		x			x			x		0,15	
142		x			x			x		0,15	
143		x			x			x		0,14	
144		x			x			x			
145		x			x			x		0,63	
146		x			x			x			
147		x			x			x			
148		x			x			x		0,15	
149		x			x			x		0,17	
150		x			x			x		0,17	
151		x			x			x		0,17	
152		x			x			x			
153		x			x			x		0,58	
154		x			x			x			
155		x			x			x			
156		x			x			x			
157		x			x			x		0,57	
158		x			x			x			
159		x			x			x			
160		x			x			x		0,16	
161		x			x			x		0,13	
162		x			x			x		0,16	
163		x			x			x		0,15	
164		x			x			x		0,17	
165		x			x			x			
166		x			x			x		0,55	
167		x			x			x			
168		x			x			x			
169		x			x			x		0,59	
170		x			x			x			

Drum Label	Contents				Drum Material			Drum Size (l)		Drum Weight (ton)	Comments
	Empty	POP-pesticides	water	Other	Steel	PE	Other	200 liters	Other		
171		x			x			x			
172		x			x			x			
173		x			x			x		0,58	
174		x			x			x			
175		x			x			x			
176		x			x			x			
177		x			x			x			
178		x			x			x		0,56	
179		x			x			x			
180		x			x			x			
181		x			x			x			
182		x			x			x		0,62	
183		x			x			x			
184		x			x			x			
185		x			x			x			
186		x			x			x		0,55	
187		x			x			x			
188		x			x			x			
189		x			x			x		0,14	
190		x			x			x		0,10	
191		x			x			x			
192		x			x			x		0,58	
193		x			x			x			
194		x			x			x			
195		x			x			x			
196		x			x			x		0,58	
197		x			x			x			
198		x			x			x			
199		x			x			x		0,14	
200		x			x			x		0,14	
201		x			x			x		0,07	
202		x			x			x		0,03	
203		x			x			x		0,15	
204		x			x			x		0,14	
205		x			x			x		0,16	
206		x			x			x		0,14	
207		x			x			x			
208		x			x			x		0,60	
209		x			x			x			
210		x			x			x			
211		x			x			x			
212		x			x			x		0,19	
213		x			x			x			
214		x			x			x			
215		x			x			x			
216		x			x			x		0,55	
217		x			x			x			
218		x			x			x			
219		x			x			x		0,15	
220		x			x			x		0,21	
221		x			x			x		0,21	
222		x			x			x		0,17	
223		x			x			x			
224		x			x			x		0,56	
225		x			x			x			
226		x			x			x			
227		x			x			x		0,16	
228		x			x			x		0,13	
229		x			x			x		0,17	
230		x			x			x		0,15	
231		x			x			x			
232		x			x			x		0,56	
233		x			x			x			
234		x			x			x			
235		x				x		x			SAWA pre-packed drums (65 litres - PE)
236		x				x		x			SAWA pre-packed drums (65 litres - PE)
237		x				x		x			SAWA pre-packed drums (65 litres - PE)
238		x				x		x			SAWA pre-packed drums (65 litres - PE)
239		x				x		x			SAWA pre-packed drums (65 litres - PE)
240		x				x		x			SAWA pre-packed drums (65 litres - PE)
241		x				x		x			SAWA pre-packed drums (65 litres - PE)
242		x				x		x			SAWA pre-packed drums (65 litres - PE)
243		x				x		x		0,77	SAWA pre-packed drums (65 litres - PE)
244		x				x		x			SAWA pre-packed drums (65 litres - PE)
245		x				x		x			SAWA pre-packed drums (65 litres - PE)
246		x				x		x			SAWA pre-packed drums (65 litres - PE)
247		x				x		x			SAWA pre-packed drums (65 litres - PE)
248		x				x		x			SAWA pre-packed drums (65 litres - PE)
249		x				x		x			SAWA pre-packed drums (65 litres - PE)
250		x				x		x			SAWA pre-packed drums (65 litres - PE)
251		x				x		x			SAWA pre-packed drums (65 litres - PE)
252		x				x		x			SAWA pre-packed drums (65 litres - PE)
253		x				x		x			SAWA pre-packed drums (65 litres - PE)
254		x				x		x			SAWA pre-packed drums (65 litres - PE)

Drum Label	Contents				Drum Material			Drum Size (l)		Drum Weight (ton)	Comments
	Empty	POP-pesticides	water	Other	Steel	PE	Other	200 liters	Other		
255		x				x			x		SAWA pre-packed drums (65 litres - PE)
256		x				x			x		SAWA pre-packed drums (65 litres - PE)
257		x				x			x		SAWA pre-packed drums (65 litres - PE)
258		x				x			x		SAWA pre-packed drums (65 litres - PE)
259		x				x			x	0,74	SAWA pre-packed drums (65 litres - PE)
260		x				x			x		SAWA pre-packed drums (65 litres - PE)
261		x				x			x		SAWA pre-packed drums (65 litres - PE)
262		x				x			x		SAWA pre-packed drums (65 litres - PE)
263		x				x			x		SAWA pre-packed drums (65 litres - PE)
264		x				x			x		SAWA pre-packed drums (65 litres - PE)
265		x				x			x		SAWA pre-packed drums (65 litres - PE)
266		x				x			x		SAWA pre-packed drums (65 litres - PE)
267		x				x			x		SAWA pre-packed drums (65 litres - PE)
268		x				x			x		SAWA pre-packed drums (65 litres - PE)
269		x				x			x		SAWA pre-packed drums (65 litres - PE)
270		x				x			x		SAWA pre-packed drums (65 litres - PE)
271		x				x			x		SAWA pre-packed drums (65 litres - PE)
272		x				x			x		SAWA pre-packed drums (65 litres - PE)
273		x				x			x		SAWA pre-packed drums (65 litres - PE)
274		x				x			x		SAWA pre-packed drums (65 litres - PE)
275		x				x			x		SAWA pre-packed drums (65 litres - PE)
276		x				x			x		SAWA pre-packed drums (65 litres - PE)
277		x				x			x		SAWA pre-packed drums (65 litres - PE)
278		x				x			x		SAWA pre-packed drums (65 litres - PE)
279		x				x			x		SAWA pre-packed drums (65 litres - PE)
280		x				x			x		SAWA pre-packed drums (65 litres - PE)
281		x				x			x		SAWA pre-packed drums (65 litres - PE)
282		x				x			x	1,48	SAWA pre-packed drums (65 litres - PE)
283		x				x			x		SAWA pre-packed drums (65 litres - PE)
284		x				x			x		SAWA pre-packed drums (65 litres - PE)
285		x				x			x		SAWA pre-packed drums (65 litres - PE)
286		x				x			x		SAWA pre-packed drums (65 litres - PE)
287		x				x			x		SAWA pre-packed drums (65 litres - PE)
288		x				x			x		SAWA pre-packed drums (65 litres - PE)
289		x				x			x		SAWA pre-packed drums (65 litres - PE)
290		x				x			x		SAWA pre-packed drums (65 litres - PE)
291		x				x			x		SAWA pre-packed drums (65 litres - PE)
292		x				x			x		SAWA pre-packed drums (65 litres - PE)
293		x				x			x		SAWA pre-packed drums (65 litres - PE)
294		x				x			x		SAWA pre-packed drums (65 litres - PE)
295		x				x			x		SAWA pre-packed drums (65 litres - PE)
296		x				x			x		SAWA pre-packed drums (65 litres - PE)
297		x				x			x		SAWA pre-packed drums (65 litres - PE)
298		x				x			x		SAWA pre-packed drums (65 litres - PE)
299		x				x		x		0,20	Separately stored (dropped)
300		x				x		x			
301		x				x		x		0,72	POP-pesticides in bags - wet
302		x	x			x		x			
303		x	x			x		x			
304		x				x		x			
305		x				x		x		0,64	
306		x				x		x			
307		x				x		x			
308		x				x		x		0,07	
309		x				x		x		0,05	Poor state of drum
310		x				x		x		0,10	
311		x				x		x		0,06	
312		x				x		x			
313		x				x		x		0,57	
314		x				x		x			
315		x				x		x			
316											Number missing
317		x				x		x			
318		x				x		x		0,58	
319		x				x		x			
320		x				x		x			
321		x				x		x			
322		x				x		x		0,54	
323		x				x		x			
324		x				x		x			
325		x				x		x			
326		x				x		x		0,59	
327		x				x		x			
328		x				x		x			
329				x		x		x			Empty packaging
330				x		x		x		0,21	
331				x		x		x			
332				x		x		x			
333		x				x		x			
334		x				x		x		0,58	
335		x				x		x			
336		x				x		x			
337		x				x		x			
338		x				x		x		0,59	

Drum Label	Contents				Drum Material			Drum Size (l)		Drum Weight (ton)	Comments
	Empty	POP-pesticides	water	Other	Steel	PE	Other	200 liters	Other		
339		x			x			x			
340		x			x			x			
341		x			x			x			
342		x			x			x		0,57	
343		x			x			x			
344		x			x			x			
345		x			x			x			
346		x			x			x		0,55	
347		x			x			x			
348		x			x			x			
349		x			x			x		0,17	
350		x			x			x		0,15	
351		x			x			x		0,16	
352		x			x			x		0,14	
353		x			x			x			
354		x			x			x		0,54	
355		x			x			x			
356		x			x			x			
357		x			x			x			
358		x			x			x		0,56	
359		x			x			x			
360		x			x			x			
361		x			x			x			
362		x			x			x		0,53	
363		x			x			x			
364		x			x			x			
365		x			x			x		0,14	
366		x			x			x		0,16	
367		x			x			x		0,16	
368		x			x			x		0,17	
369		x			x			x		0,12	
370		x			x			x		0,14	
371		x			x			x		0,12	
372		x			x			x		0,11	
373		x			x			x		0,17	
374		x			x			x		0,15	
375		x			x			x		0,17	
376		x			x			x		0,17	
377		x			x			x		0,13	
378		x			x			x		0,18	
379		x			x			x		0,19	
380		x			x			x		0,15	
381		x			x			x			
382		x			x			x		0,54	
383		x			x			x			
384		x			x			x			
385		x			x			x		0,15	
386		x			x			x		0,16	
387		x			x			x		0,14	
388		x			x			x		0,15	
389		x			x			x			
390		x			x			x		0,48	
391		x			x			x			
392		x			x			x			
393		x			x			x			
394		x			x			x		0,35	
395		x			x			x			
396		x			x			x			
397		x			x			x			
398		x			x			x		0,53	
399		x			x			x			
400		x			x			x			
401		x			x			x			
402		x			x			x		0,45	
403		x			x			x			
404		x			x			x			
405		x			x			x			
406		x			x			x		0,28	Single bag
407		x			x			x			
408				x	x			x			Empty packaging
409		x			x			x			
410		x			x			x		0,58	
411		x			x			x			
412		x			x			x			
413		x			x			x			
414		x			x			x		0,55	
415		x			x			x			
416		x			x			x			
417		x			x			x			
418		x			x			x		0,55	
419		x			x			x			
420		x			x			x			
421		x			x			x			
422		x			x			x		0,56	

Drum Label	Contents				Drum Material			Drum Size (l)		Drum Weight (ton)	Comments
	Empty	POP-pesticides	water	Other	Steel	PE	Other	200 liters	Other		
423		x			x			x			
424		x			x			x			
425		x			x			x			
426		x			x			x		0,45	
427		x			x			x			
428		x			x			x			
429		x			x			x			
430		x			x			x		0,58	
431		x			x			x			
432		x			x			x			
433		x			x			x			
434		x			x			x		0,63	
435		x			x			x			
436		x			x			x			
437		x			x			x			
438		x			x			x		0,60	
439		x			x			x			
440		x			x			x			
441		x			x			x			
442		x			x			x		0,68	
443		x			x			x			
444		x			x			x			
445		x			x			x			
446		x			x			x		0,57	
447		x			x			x			
448		x			x			x			
449		x			x			x			
450		x			x			x		0,63	
451		x			x			x			
452		x			x			x			
453		x			x			x			
454		x			x			x		0,54	
455		x			x			x			
456		x			x			x			
457		x			x			x			
458		x			x			x		0,61	
459		x			x			x			
460		x			x			x			
461		x			x			x			
462		x			x			x		0,63	
463		x			x			x			
464		x			x			x			
465		x			x			x			
466		x			x			x		0,65	
467		x			x			x			
468		x			x			x			
469		x			x			x			
470		x			x			x		0,67	
471		x			x			x			
472		x			x			x			
473		x			x			x			
474		x			x			x		0,72	
475		x			x			x			
476		x			x			x			
477		x			x			x			
478		x			x			x		0,62	
479		x			x			x			
480		x			x			x			
481		x			x			x			
482		x			x			x		0,54	
483		x			x			x			
484		x			x			x			
485		x			x			x			
486		x			x			x		0,61	
487		x			x			x			
488		x			x			x			
489		x			x			x			
490		x			x			x		0,60	
491		x			x			x			
492		x			x			x			
493		x			x			x			
494		x			x			x		0,79	
495		x			x			x			
496		x			x			x			
497		x			x			x		0,19	
498		x			x			x		0,18	
499		x			x			x		0,18	
500		x			x			x		0,24	
501		x			x			x		0,21	
502		x			x			x		0,17	
503		x			x			x		0,19	
504		x			x			x		0,17	
505		x			x			x		0,19	
506		x			x			x		0,19	

Drum Label	Contents				Drum Material			Drum Size (l)		Drum Weight (ton)	Comments
	Empty	POP-pesticides	water	Other	Steel	PE	Other	200 liters	Other		
507		x			x			x		0,21	
508		x			x			x		0,12	
509		x			x			x		0,17	
510		x			x			x		0,17	
511		x			x			x		0,18	
512		x			x			x		0,17	
513		x			x			x		0,15	
514		x			x			x		0,17	
515		x			x			x		0,17	
516		x			x			x		0,15	
517		x			x			x		0,17	
518		x			x			x		0,17	
519		x			x			x		0,17	
520		x		x	x			x		0,13	POP-pesticides wastes mixed with asbestos
521		x			x			x			
522		x			x			x		0,30	
523		x			x			x			
524		x			x			x			
525		x			x			x			
526		x			x			x		0,32	
527		x			x			x			
528		x			x			x			
529		x			x			x			
530		x			x			x		0,61	
531		x			x			x			
532		x			x			x			
533		x			x			x			
534		x			x			x		0,74	
535		x			x			x			
536		x			x			x			
537		x			x			x			
538		x			x			x		0,74	
539		x			x			x			
540		x	x		x			x			
541		x			x			x			
542		x			x			x		0,71	
543		x			x			x			
544		x			x			x			
545		x			x			x			
546		x			x			x		0,52	
547		x			x			x			
548		x			x			x			
549		x			x			x			
550		x			x			x		0,71	
551		x			x			x			
552		x			x			x			
553		x			x			x			
554		x			x			x		0,57	
555		x			x			x			
556		x			x			x			
557		x			x			x			
558		x			x			x		0,72	
559		x			x			x			
560		x			x			x			
561		x			x			x			
562		x			x			x		0,70	
563		x			x			x			
564		x	x		x			x			
565		x			x			x			
566		x			x			x		0,51	
567		x			x			x			
568		x			x			x			
569		x			x			x			
570		x			x			x		0,63	
571		x	x		x			x			
572		x			x			x			
573		x			x			x			
574		x			x			x		0,65	
575		x			x			x			
576		x			x			x			
577		x			x			x			
578		x			x			x		0,58	
579		x			x			x			
580		x			x			x			
581		x			x			x			
582		x			x			x		0,53	
583		x			x			x			
584		x			x			x			
585		x			x			x			
586		x		x	x			x		0,33	Construction waste and waste wood from pallets
587		x			x			x			
588		x			x			x			
589		x			x			x			
590		x			x			x		0,40	

Drum Label	Contents				Drum Material			Drum Size (l)		Drum Weight (ton)	Comments
	Empty	POP-pesticides	water	Other	Steel	PE	Other	200 liters	Other		
591		x			x			x			
592		x			x			x			
593		x			x			x			
594		x			x			x		0,59	
595		x			x			x			
596		x			x			x			
597		x			x			x			
598		x			x			x		0,47	
599		x			x			x			
600		x			x			x			
601		x			x			x			
602		x			x			x		0,69	Very high weight (0.99) - forklift scale potentially incorrect reduced with 40% based on next measurements
603		x			x			x			
604		x			x			x			
605		x			x			x			
606		x			x			x		0,62	
607		x			x			x			
608		x			x			x			
609		x			x			x			
610		x			x			x		0,58	Very high weight (0.81) - forklift scale potentially incorrect reduced with 40% based on next measurements
611		x			x			x			
612		x			x			x			
613		x			x			x			
614		x			x			x		0,70	Very high weight (0.99) - forklift scale potentially incorrect reduced with 40% based on next measurements
615		x			x			x			
616		x			x			x			
617		x			x			x			
618		x			x			x		0,76	Original weight was 0.87 - after resetting forklift weight dropped
619		x			x			x			
620		x			x			x			
621		x			x			x			
622		x			x			x		0,50	
623		x			x			x			
624		x			x			x			
625		x			x			x			
626		x			x			x		0,55	
627		x			x			x			
628		x			x			x			
629		x			x			x			
630		x			x			x		0,55	
631		x			x			x			
632		x			x			x			
633		x			x			x			
634		x			x			x		0,65	
635		x			x			x			
636		x			x			x			
637		x			x			x			
638		x			x			x		0,68	
639		x			x			x			
640		x			x			x			
641		x			x			x			
642		x			x			x		0,62	
643		x			x			x			
644		x			x			x			
645		x			x			x			
646		x			x			x		0,53	
647		x			x			x			
648		x			x			x			
649		x			x			x			
650		x			x			x		0,69	
651		x			x			x			
652		x			x			x			
653		x			x			x			
654		x			x			x		0,66	
655		x			x			x			
656		x			x			x			
657		x			x			x			
658		x			x			x		0,57	
659	x				x			x			
660		x			x			x			
661		x			x			x			
662		x			x			x		0,59	
663		x			x			x			
664		x			x			x			
665		x			x			x			
666		x			x			x		0,61	
667		x			x			x			
668		x			x			x			
669		x			x			x			
670		x			x			x		0,64	

Drum Label	Contents				Drum Material			Drum Size (l)		Drum Weight (ton)	Comments
	Empty	POP-pesticides	water	Other	Steel	PE	Other	200 liters	Other		
671		x			x			x			
672		x			x			x			
673		x			x			x			
674		x			x			x		0,55	
675		x			x			x			
676		x			x			x			
677		x			x			x			
678		x			x			x		0,53	
679		x			x			x			
680		x			x			x			
681		x			x			x			
682		x			x			x		0,62	
683		x			x			x			
684		x			x			x			
685		x			x			x			
686		x			x			x		0,58	
687		x			x			x			
688		x			x			x			
689		x			x			x			
690		x			x			x		0,59	
691		x			x			x			
692		x			x			x			
693		x			x			x			
694		x			x			x		0,56	
695		x			x			x			
696		x			x			x			
697		x			x			x			
698		x			x			x		0,55	
699		x			x			x			
700		x			x			x			
701		x			x			x			
702		x			x			x		0,66	
703		x	x		x			x			
704		x			x			x			
705		x		x	x			x			POP-pesticides and waste wood from pallets
706		x	x		x			x		0,47	
707		x		x	x			x			POP-pesticides and waste wood from pallets
708		x			x			x			
709			x		x			x			90% full
710			x		x			x		0,53	90% full
711			x		x			x			10% full
712				x	x			x			POP-pesticides and waste wood from pallets
713		x			x			x			
714		x		x	x			x		0,65	POP-pesticides and waste wood from pallets
715		x			x			x			
716		x			x			x			
717		x			x			x			
718		x			x			x		0,55	
719		x			x			x			
720		x			x			x			
721		x			x			x			
722		x			x			x		0,58	
723		x			x			x			
724		x			x			x			
725		x			x			x			
726		x			x			x		0,58	
727		x			x			x			
728		x			x			x			
729		x			x			x			
730		x			x			x		0,58	
731		x			x			x			
732		x			x			x			
733		x			x			x			
734		x			x			x		0,70	
735		x			x			x			
736		x			x			x			
737		x			x			x			
738		x			x			x		0,55	
739		x			x			x			
740		x			x			x			
741		x			x			x			
742		x			x			x		0,59	
743		x			x			x			
744		x			x			x			
745		x			x			x			
746		x			x			x		0,70	
747		x			x			x			
748		x			x			x			
749		x			x			x			
750		x			x			x		0,63	
751		x			x			x			
752		x			x			x			
753		x			x			x			
754		x			x			x		0,58	

Drum Label	Contents				Drum Material			Drum Size (l)		Drum Weight (ton)	Comments
	Empty	POP-pesticides	water	Other	Steel	PE	Other	200 liters	Other		
755		x			x			x			
756		x			x			x			
757		x			x			x			
758		x			x			x		0,58	
759		x			x			x			
760		x			x			x			
761		x			x			x			
762		x			x			x		0,65	
763		x			x			x			
764		x			x			x			
765		x			x			x			
766		x			x			x		0,51	
767		x			x			x			
768		x			x			x			
769		x			x			x			
770		x			x			x		0,62	
771		x			x			x			
772		x			x			x			
773		x			x			x			
774		x			x			x		0,55	
775		x			x			x			
776		x			x			x			
777		x		x	x			x			POP-pesticides and waste wood from pallets
778		x			x			x		0,65	
779		x			x			x			
780		x			x			x			
781		x			x			x			
782		x			x			x		0,70	
783		x			x			x			
784		x			x			x			
785		x			x			x			
786		x			x			x		0,62	
787		x			x			x			
788		x			x			x			
789		x			x			x			
790		x			x			x		0,60	
791		x			x			x			
792		x			x			x			
793		x			x			x			
794		x			x			x		0,54	
795		x			x			x			
796		x			x			x			
797		x			x			x			
798		x			x			x		0,55	
799		x			x			x			
800		x			x			x			
801		x			x			x			
802		x			x			x		0,50	
803		x			x			x			
804		x			x			x			
805		x			x			x			
806		x			x			x		0,40	
807		x			x			x			
808		x			x			x			
809		x			x			x			
810		x			x			x		0,55	
811		x			x			x			
812		x			x			x			
813		x			x			x			
814		x			x			x		0,56	
815		x			x			x			
816		x			x			x			
817		x			x			x			
818		x			x			x		0,57	
819		x			x			x			
820		x			x			x			
821		x			x			x			
822		x			x			x		0,51	
823		x			x			x			
824		x			x			x			
825		x			x			x			
826		x			x			x		0,55	
827		x			x			x			
828				x	x			x			Waste packaging materials
829		x			x			x			
830		x			x			x		0,41	
831		x			x			x			
832		x			x			x			
833		x			x			x		0,53	
834		x			x			x			
835		x			x			x			
836		x			x			x			
837		x			x			x		0,55	
838		x			x			x			

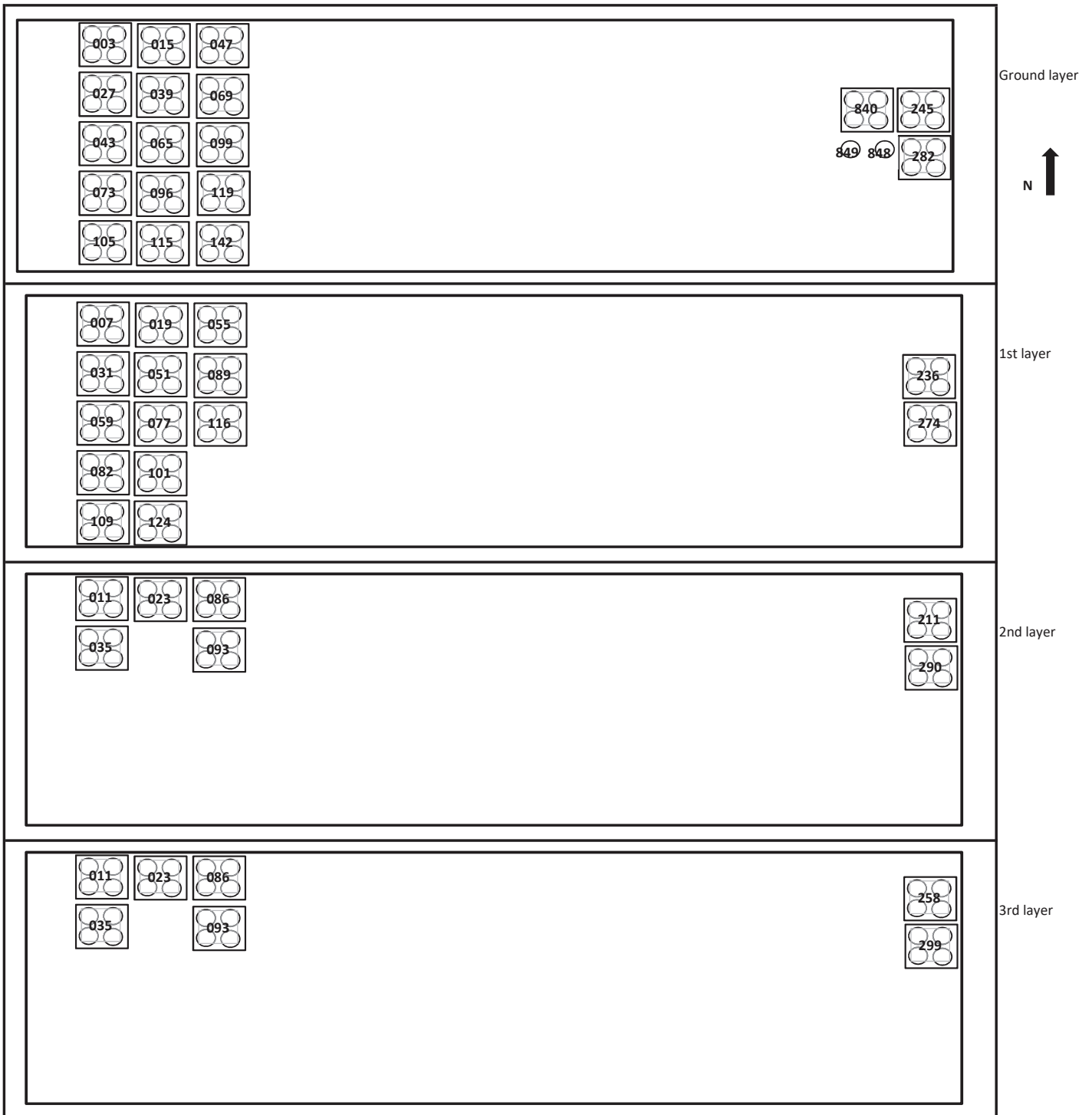
Drum Label	Contents				Drum Material			Drum Size (l)		Drum Weight (ton)	Comments
	Empty	POP-pesticides	water	Other	Steel	PE	Other	200 liters	Other		
839		x			x			x			
840		x				x			x		SAWA pre-packed drums (65 litres - PE)
841		x				x			x		SAWA pre-packed drums (65 litres - PE)
842		x				x			x		SAWA pre-packed drums (65 litres - PE)
843		x				x			x	0,37	SAWA pre-packed drums (65 litres - PE)
844		x				x			x		SAWA pre-packed drums (65 litres - PE)
845		x				x			x		SAWA pre-packed drums (65 litres - PE)
846		x				x			x		SAWA pre-packed drums (65 litres - PE)
847		x				x			x		SAWA pre-packed drums (65 litres - PE)
848		x				x			x	0,05	SAWA pre-packed drums (65 litres - PE)
849		x				x			x	0,05	SAWA pre-packed drums (65 litres - PE)
850		x			x			x			
851		x			x			x		0,47	
852		x			x			x			
853		x			x			x			
854		x			x			x			
855		x			x			x		0,55	
856		x			x			x			
857		x			x			x			
858		x			x			x			
859		x			x			x		0,63	
860		x			x			x			
861		x			x			x			
862		x			x			x			
863		x			x			x		0,51	
864		x			x			x			
865		x			x			x			
866		x			x			x			
867		x			x			x		0,60	
868		x			x			x			
869		x			x			x			
870		x			x			x			
871		x			x			x		0,32	
872		x			x			x			
873				x	x			x			Waste materials + POP-pesticides residue
874				x	x			x		0,19	Waste materials + POP-pesticides residue
875				x	x			x			Waste materials + POP-pesticides residue
876			x			x			x	0,15	150 litres of water
									Total	113,91	

Appendix

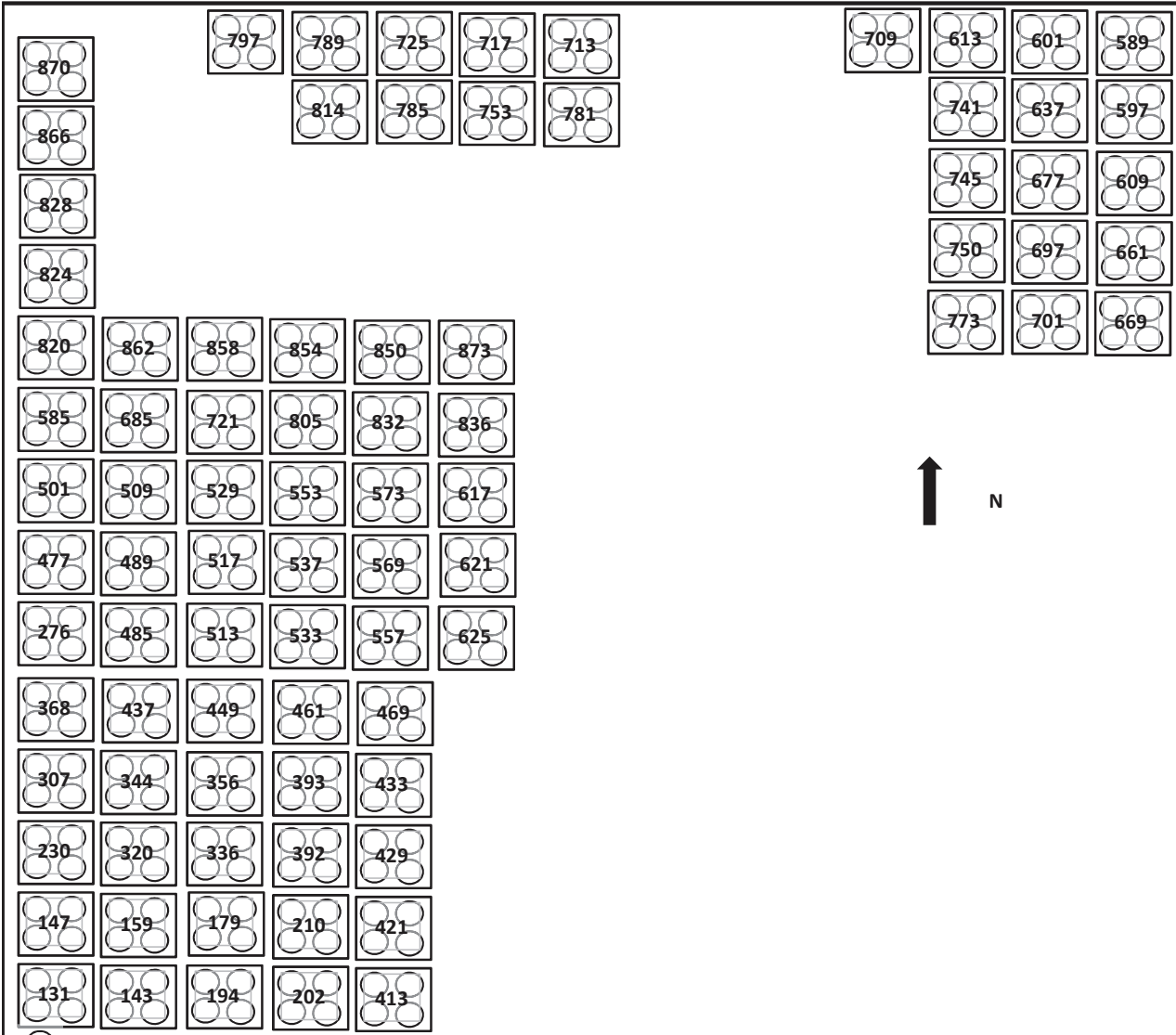
6

Map of drum inventory

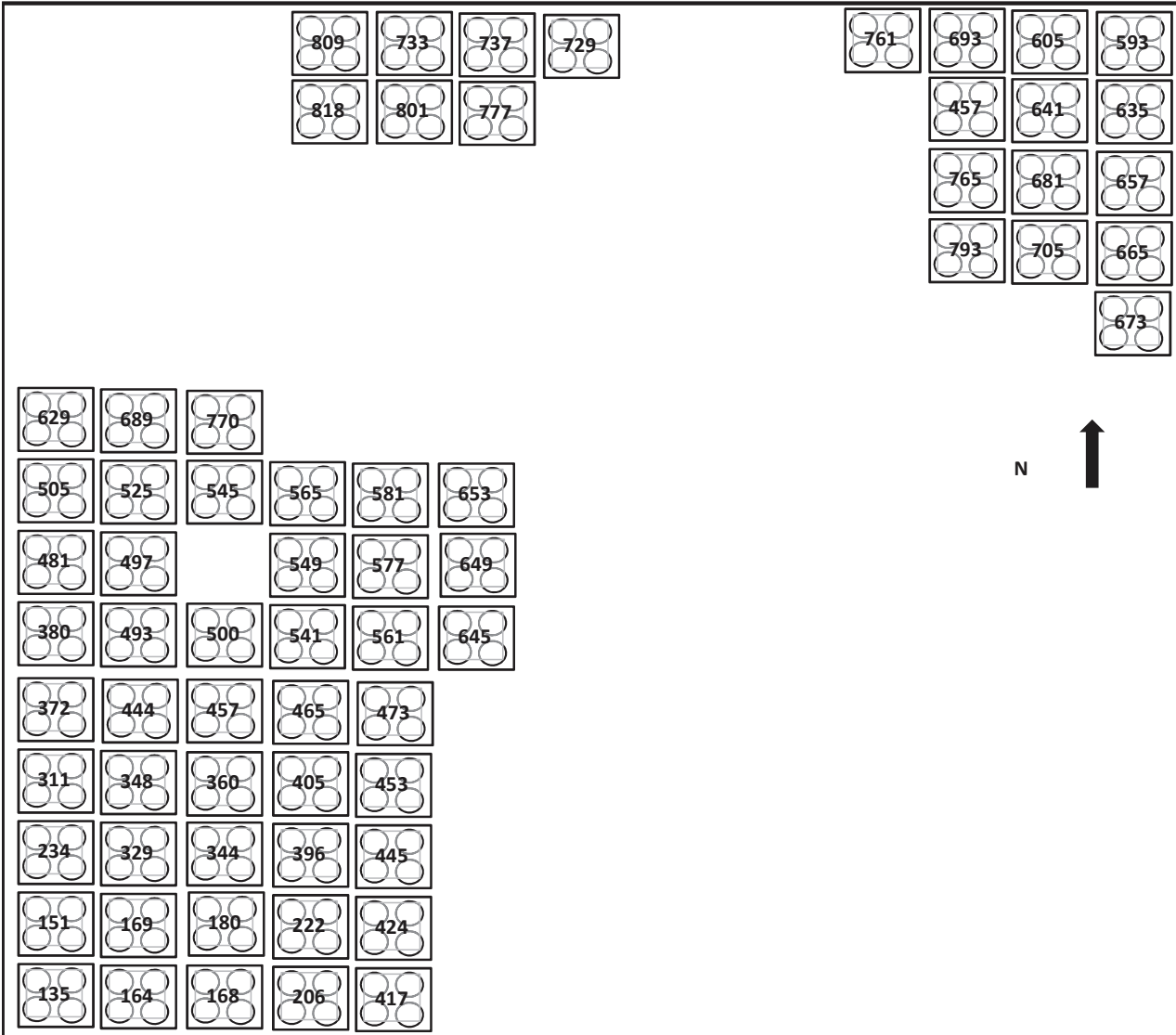
Drums on North West wall of Warehouse 3



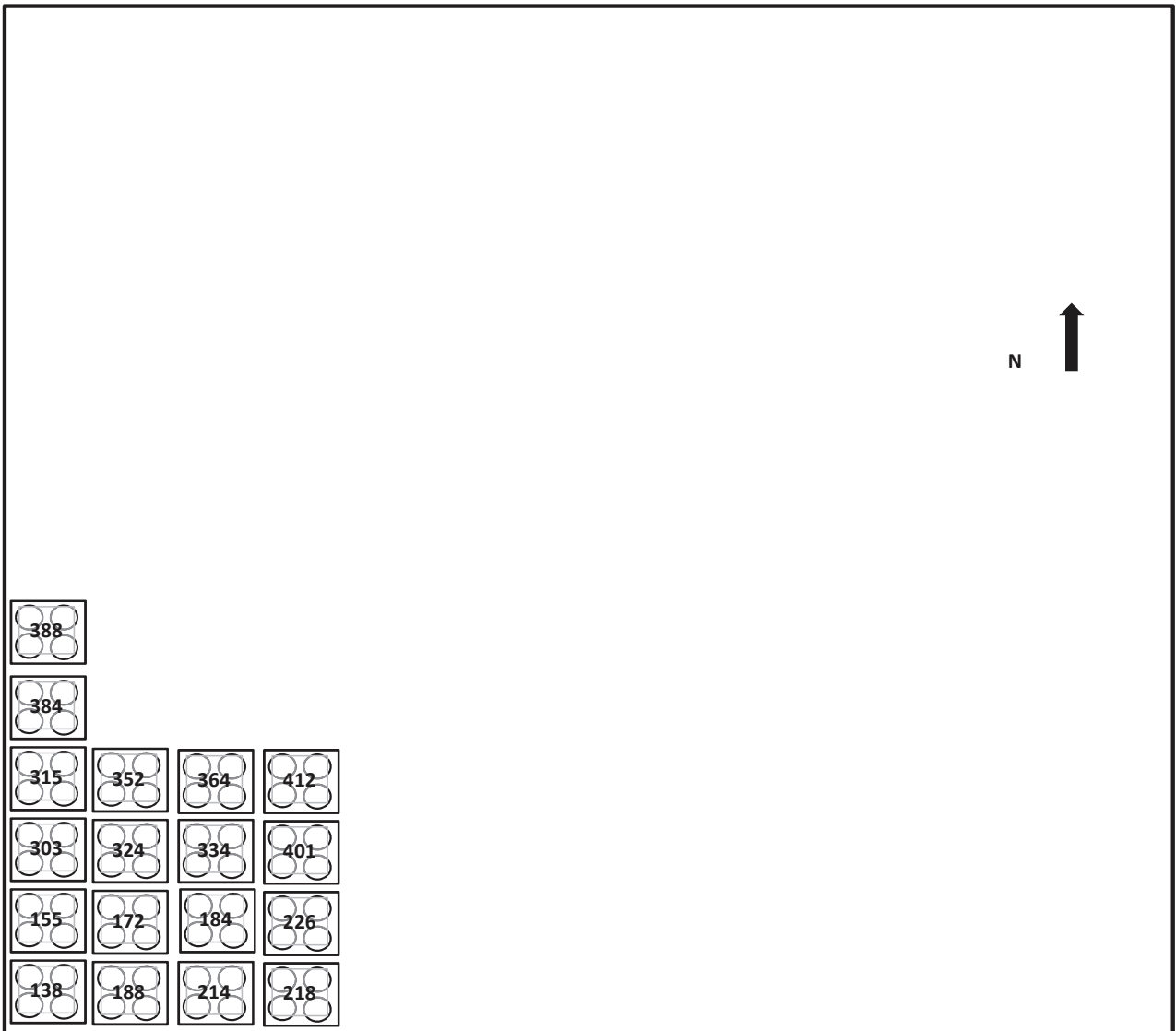
Warehouse 2 - ground layer



Warehouse 2 - 1st layer



Warehouse 2 - second layer

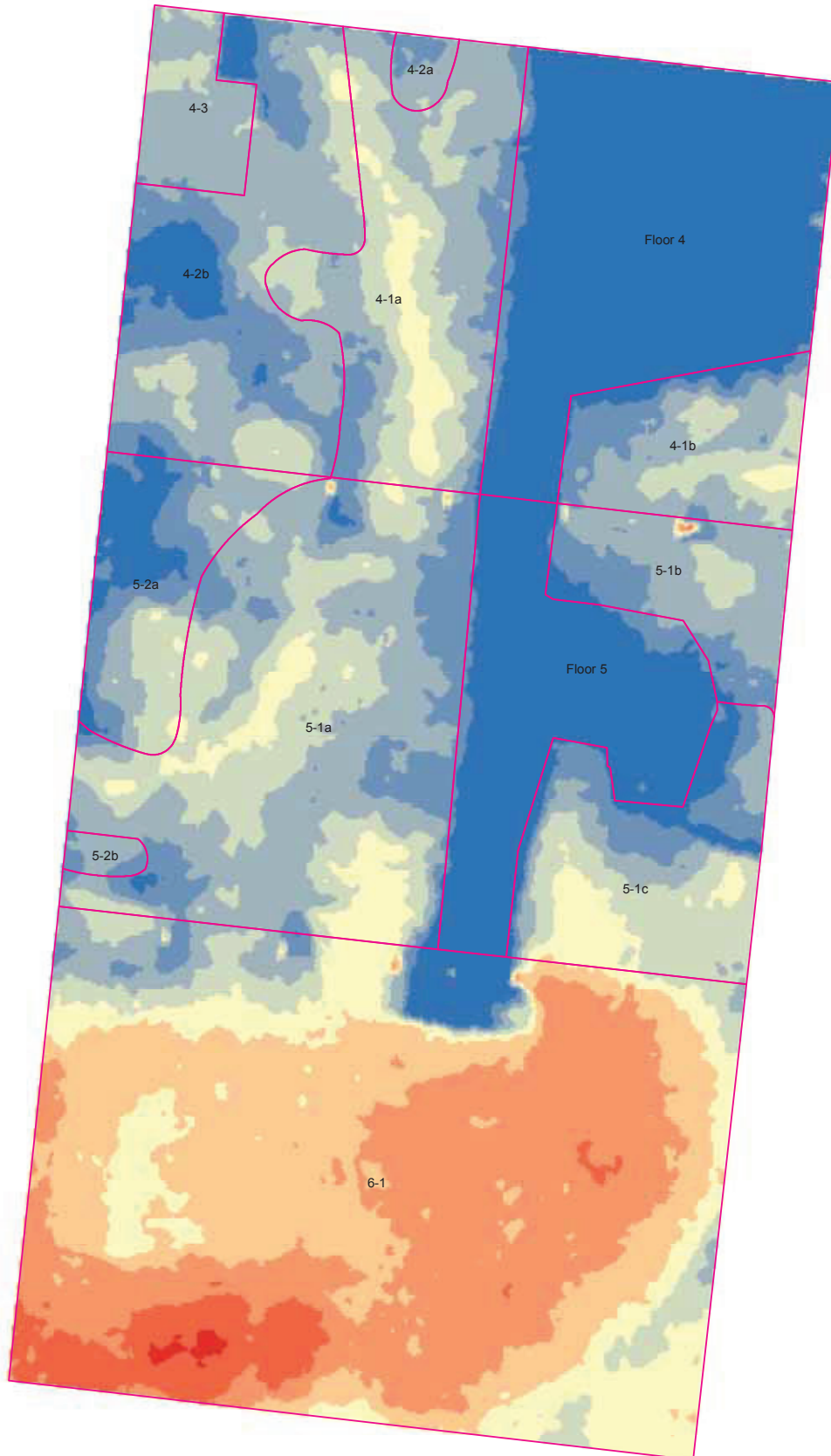


Appendix

7

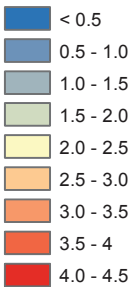
Calculations waste quantities

Description	Contents	ZONE_CODE	COUNT	opp	MIN	MAX	RANGE	MEAN	STD	SUM	m3	
Warehouse1	DDT		1	24052	60.13	0.103735	2.632544	2.528809	1.513839	0.496481	36410.84	91.02711
Floor 4	Floor		3	19690	196.9	0.097905	1.184697	1.086792	0.212591	0.113175	4185.908	41.85908
4-1a	POP wastes		10	13126	131.26	0.316045	2.4148	2.098755	1.469714	0.397552	19291.46	192.9146
4-1b	POP wastes		8	6213	62.13	0.129155	2.298467	2.169311	1.209524	0.447876	7514.773	75.14773
4-2a	Packaging		6	761	7.61	0.720464	1.579717	0.859253	1.103635	0.166646	839.8663	8.398663
4-2b	Packaging		2	14055	140.55	0.115361	2.137212	2.02185	1.052775	0.441579	14796.76	147.9676
4-3	Technical HCH		5	3105	31.05	0.764775	1.723882	0.959106	1.363904	0.130815	4234.922	42.34922
Floor 5	Floor		9	11423	114.23	-0.0426	1.140996	1.183594	0.159592	0.1845	1823.018	18.23018
5-1a	POP wastes		11	24880	248.8	0.027227	2.902226	2.875	1.405329	0.424831	34964.58	349.6458
5-1b	POP wastes		7	5420	54.2	0.089116	3.58167	3.492554	1.123404	0.361742	6088.851	60.88851
5-1c	POP wastes		13	9441	94.41	0.024785	2.715337	2.690552	1.337637	0.639067	12628.63	126.2863
5-2a	Packaging		4	6313	63.13	0.00208	2.132207	2.130127	0.970187	0.551236	6124.792	61.24792
5-2b	Packaging		12	580	5.8	0.523442	1.360356	0.836914	1.022414	0.174249	592.9999	5.929999
6-1	POP wastes		1	60620	606.2	-0.04858	4.142217	4.190796	2.705332	0.703302	163997.2	1639.972

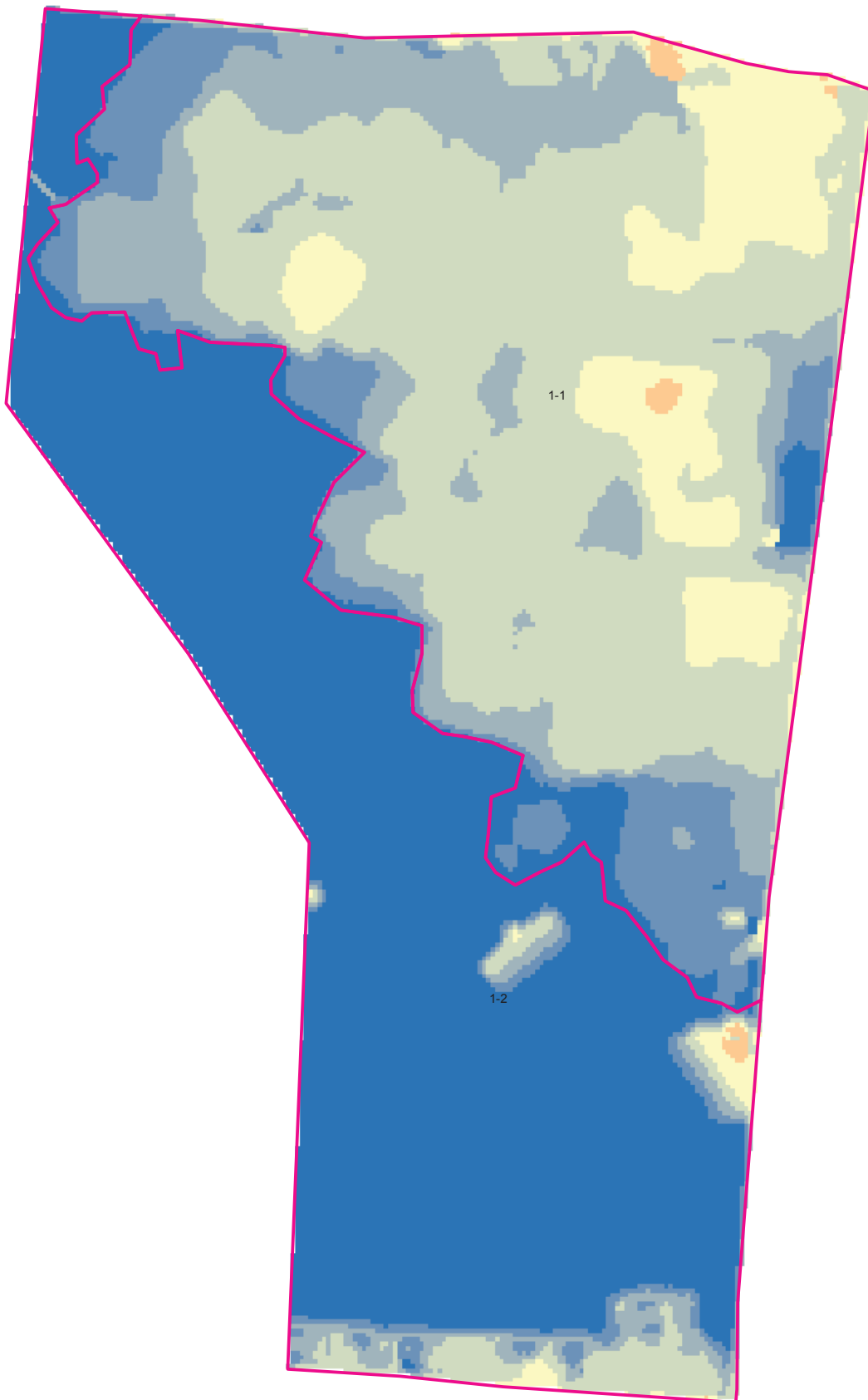



Concepnal Site Model parts

height in meters









Opdrachtgever UNDP Turkey	Schaal 1:200	Status DEFINITIEF
Project Removal of the POPs stockpile Assessment, removal and restoration	Formaat A3	Projectnummer 1239389
Onderdeel Warehouse 4/5/6	Datum 05-12-16 04:42 Get. SCC Gec. #	Tekeningnummer 1
		Postbus 133 7400 AC Deventer Telefoon (0570) 69 99 11 Fax (0570) 69 96 66




 Conceptional Site Model parts

Height in meters

-  < 0.5
-  0.5 - 1.0
-  1.0 - 1.5
-  1.5 - 2.0
-  2.0 - 2.5
-  2.5 - 3.0

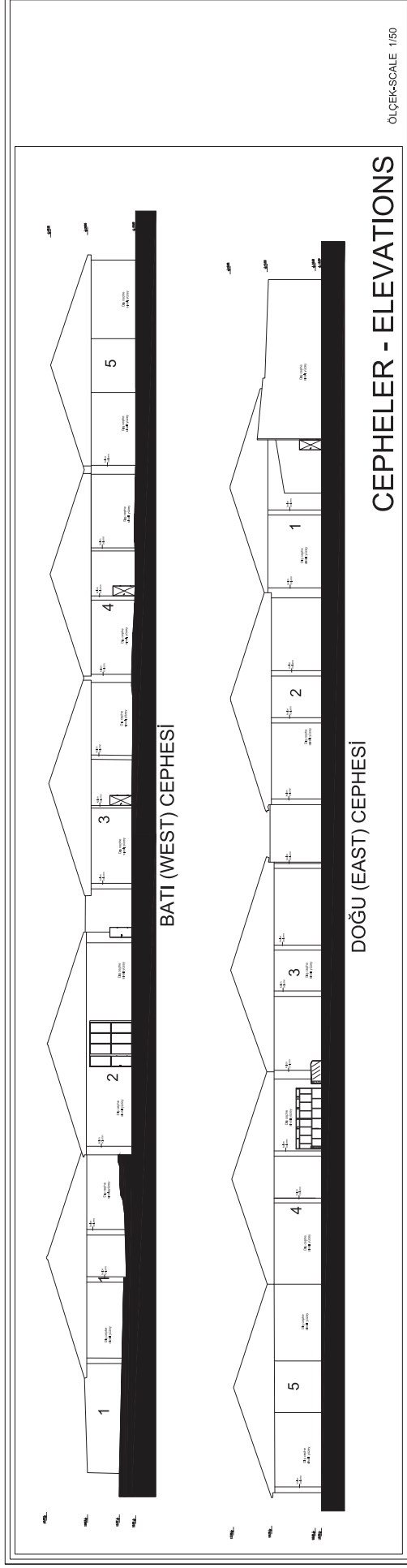


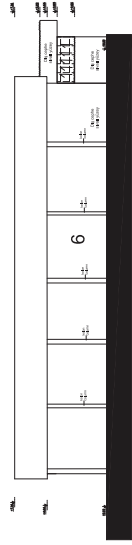
Opdrachtgever UNDP Turkey	Schaal 1:50	Status DEFINITIEF
Project Removal of the POPs stockpile Assessment, removal and restoration	Formaat A3	Projectnummer 1239389
Onderdeel Warehouse 1	Datum 05-12-16 04:40 Get. SCC Gec. #	Tekeningnummer 2
		<small>Postbus 133 7420 AC Deventer Telefoon (0570) 69 99 11 Fax (0570) 69 98 66</small>

Appendix

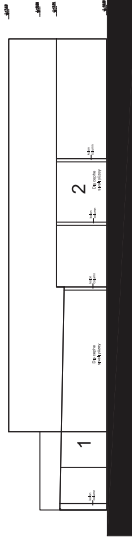
8

Measurements warehouses





GÜNEY(SOUTH) CEPHESİ



KUZEY(NORTH) CEPHESİ

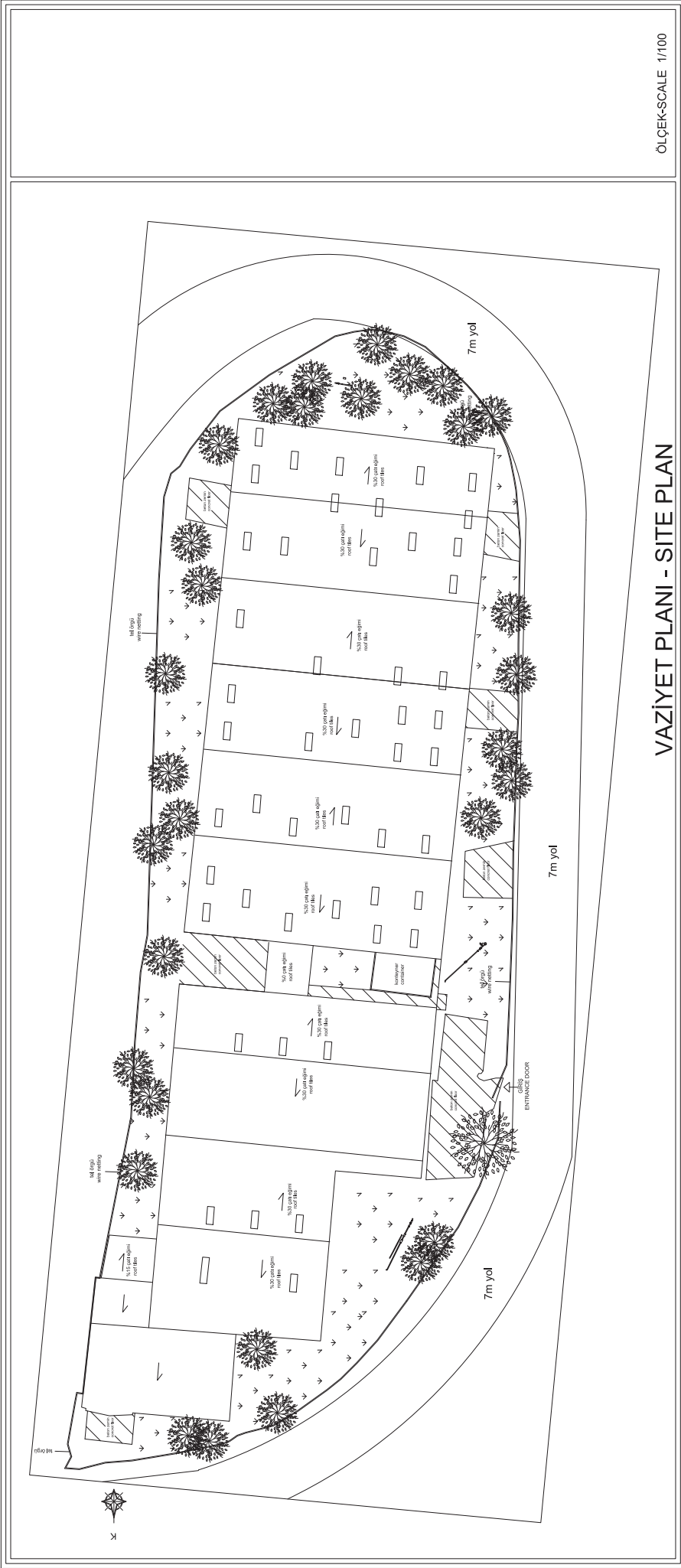
CEPHELER - ELEVATIONS

ÖLÇEK-SCALE 1/50

Appendix

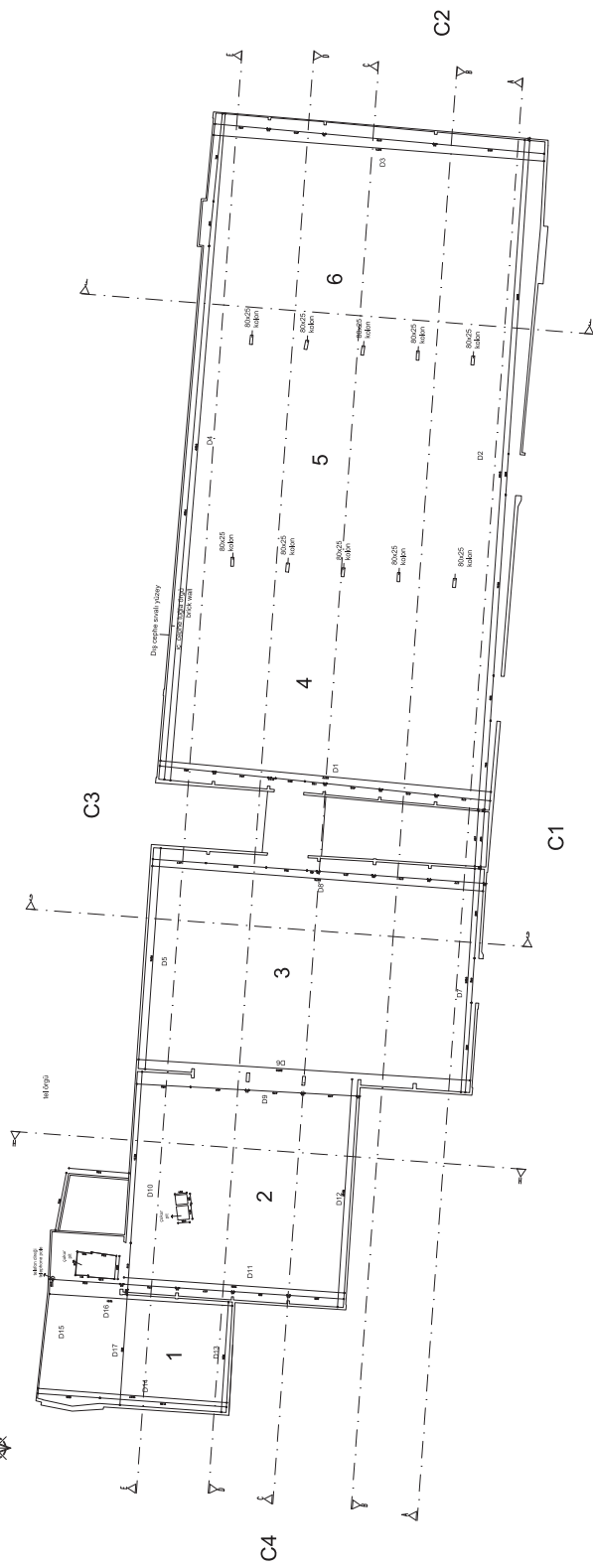
9

Autocad drawings buildings



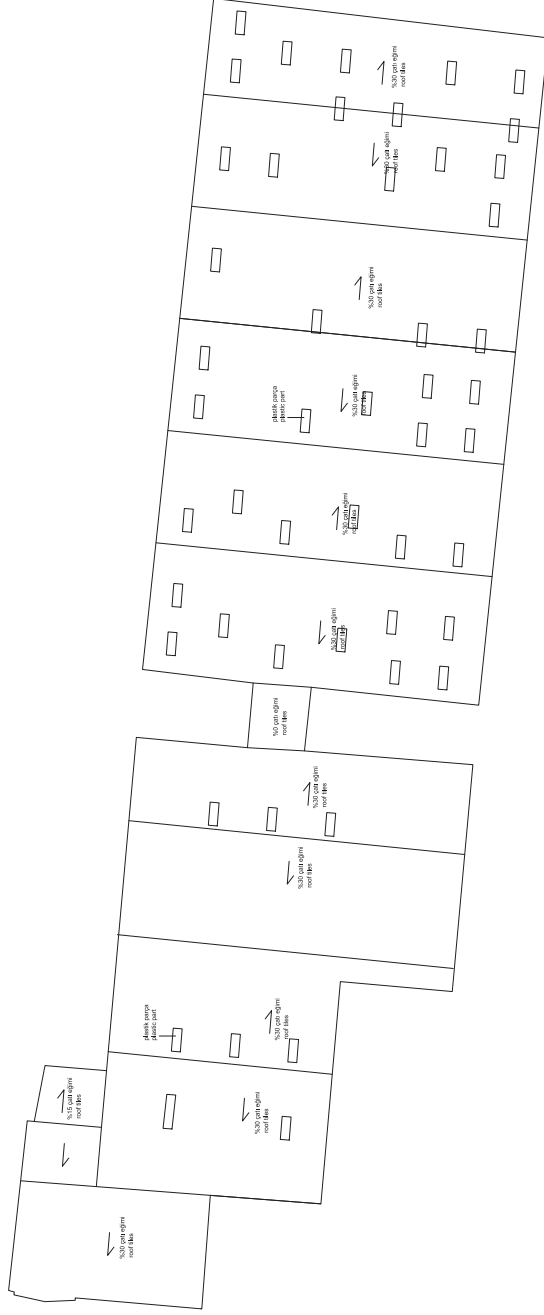
ÖLÇEK-SCALE 1/100

VAZİYET PLANI - SITE PLAN



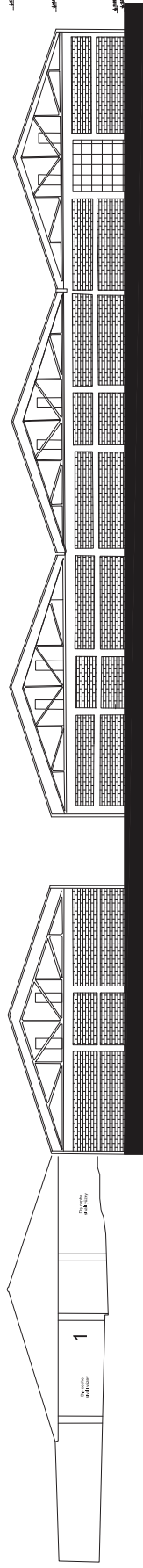
PLAN

ÖLÇEK-SCALE 1/100

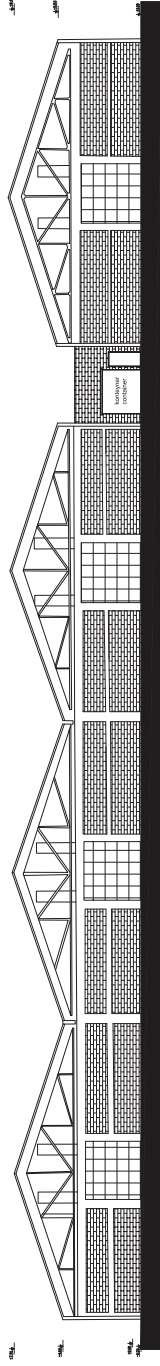


ÇATI PLANI - ROOF PLAN

ÖLÇEK-SCALE 1/100

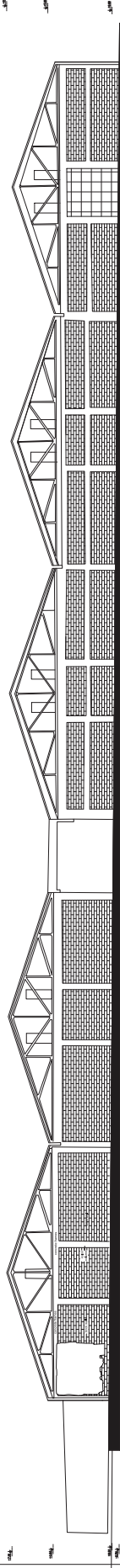


A-A KESİTİ



B-B KESİTİ

KESİTLER - SECTIONS

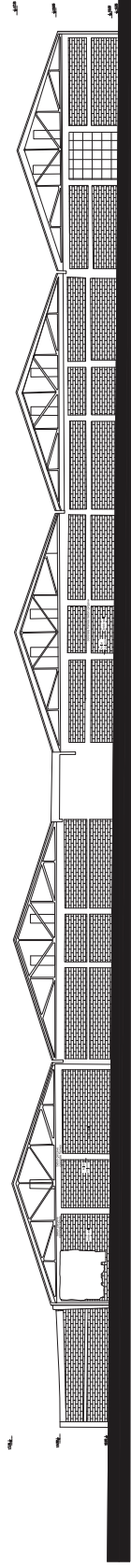


C-C KESİTİ

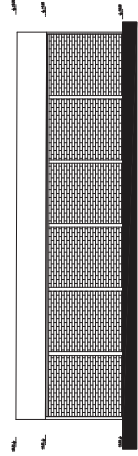


D-D KESİTİ

KESİTLER - SECTIONS



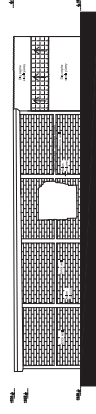
E-E KESİTİ



F-F KESİTİ



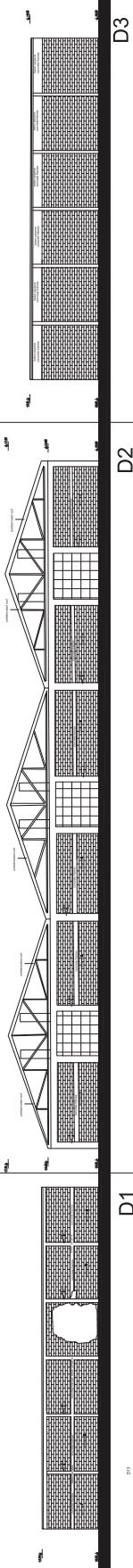
G-G KESİTİ



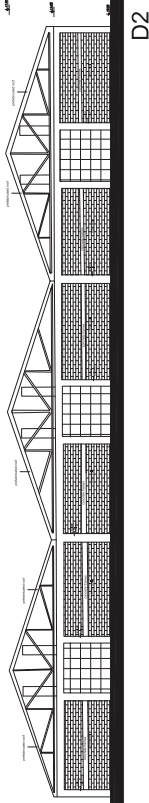
H-H KESİTİ

KESİTLER -SECTIONS

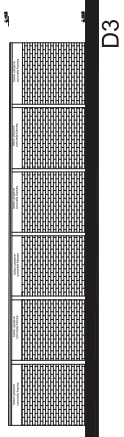
ÖLÇEK-SCALE 1/50



D1



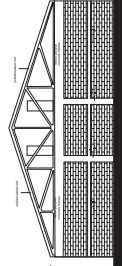
D2



D3



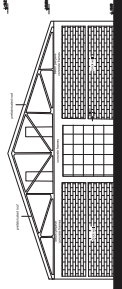
D4



D5

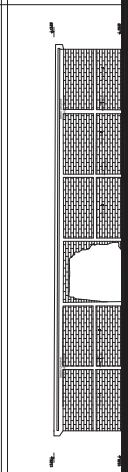

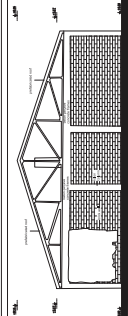
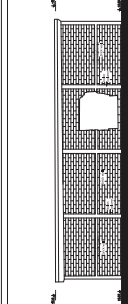
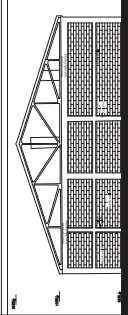


D6



D7

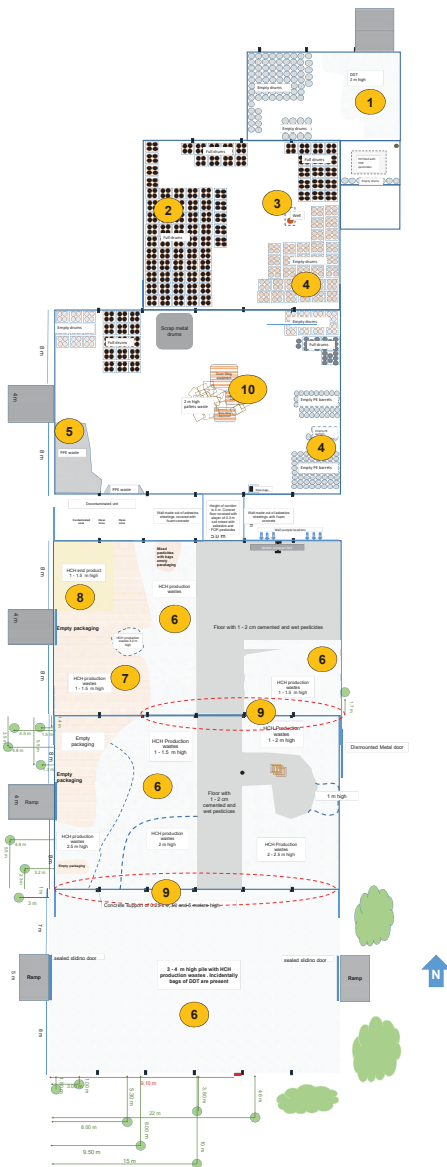
İNİDE WALL VIEWS İÇ DUVAR GÖRÜNÜŞLERİ

				
D13	D14	D15	D16	D17
INSIDE WALL VIEWS İÇ DUVAR GÖRÜNÜŞLERİ				
<small>ÖLÇEK=SCALE 1/50</small>				

Appendix

10

Conceptual Site Model



- 1 DDT bags
- 2 Full drums
- 3 Site well
- 4 Empty drums
- 5 PPE wastes
- 6 Dry HCH production wastes
- 7 Empty packaging
- 8 HCH end product
- 9 Wet HCH productions wastes
- 10 Drum filling equipment

Appendix

11

Extract of maps of the area



Figure A11.1 Derince Land Use Plan with the scale 1/5000, Kocaeli-G23-b-23-d (2011)



Figure A11.2 Derince Land Use Plan with the scale 1/5000, Kocaeli-G23-b-23-d (2011)



Figure A11.3 Neighbour Facilities in Industrial Zone near Merkim Site (Google Earth 2016, Version 7.1.7.2606)

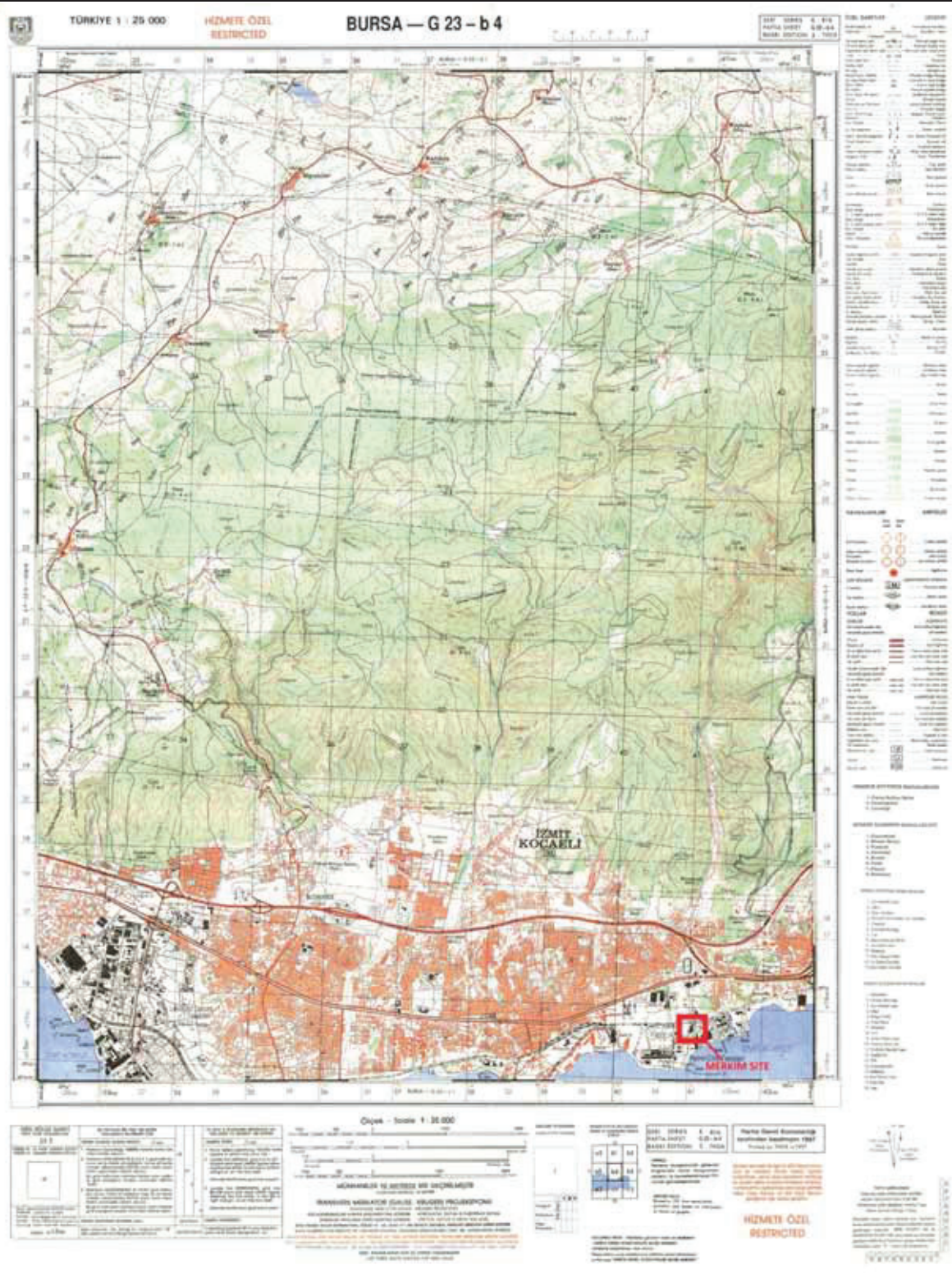
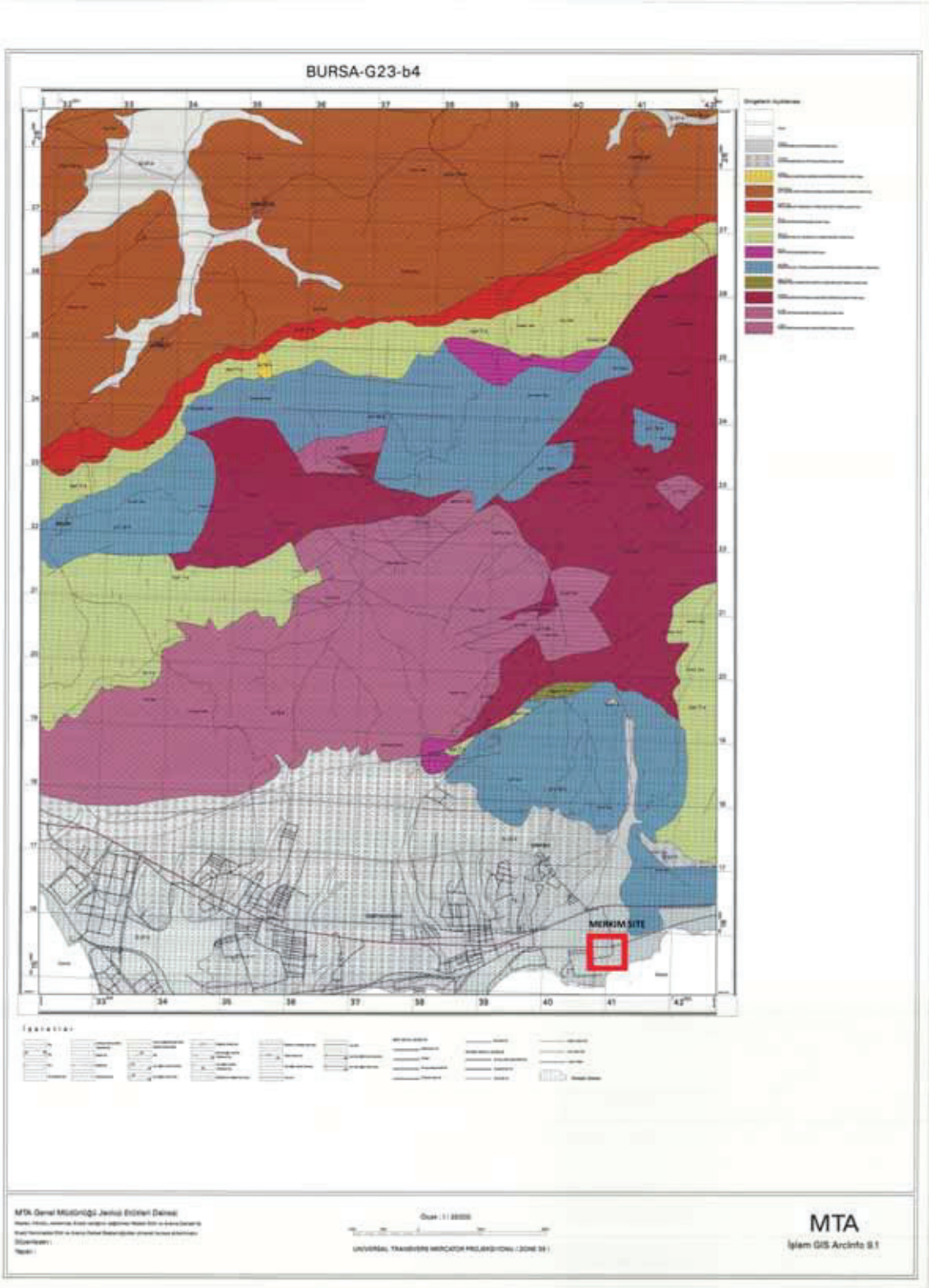


Figure A11.4 Layout No:G-23-b4 with the scale 1/25000



**Figure A11.5 Reference: General Directorate of Mineral Research and Exploration (MTA) Geological Survey Department
Scale:1/25000 Layout No:G-23-b4**

Appendix

12

Analytical certificates AL-West wastes

AL-West B.V.

Dortmundstraat 16B, 7418 BH Deventer, the Netherlands
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e-Mail: info@al-west.nl, www.al-west.nl



Tauw Nederland B.V.
Guido van de Coterlet
POSTBUS 133
7400 AC DEVENTER

Date 30.11.2016
Customer no. 35003840
Order nr. 620504 / 2

REPORT

Order 620504 / 2 Water

Client 35003840 Tauw Nederland B.V.
Reference 1239389
Sample acceptance 10.11.16
Sample taker Client

Dear sir, madam,

Please find enclosed the results of the laboratory tests you requested. Unless stated otherwise at applied methods, the analyses are accredited according to EN-ISO/IEC 17025 and were carried out using the methods listed in the most recent version of the annex of the accreditation certificate number L005 issued by the Dutch Accreditation Council (RvA).

Should you require details regarding the uncertainty of measurement of a method, we will be happy to supply these on request.

Allow us to draw your attention to the fact that the report enclosed may only be reproduced in its entirety.

Should you require any further information, please do not hesitate to contact the after-sales department.

We trust that the enclosed information will meet with your requirements.

This test report, version 2, replaces all previous test reports. .

Yours sincerely,

AL-West B.V. Dhr. Peter Wijers, Tel. 31/570788111
Customer Service

AL-West B.V.

Dortmundstraat 16B, 7418 BH Deventer, the Netherlands
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Order 620504 / 2 Water

Sample no.	Sample name	Date of sampling	Sampling Location
771876	W4-1 D1	10.11.2016	
771880	W4-2 D1	10.11.2016	
771881	W4-3 D1	10.11.2016	
771882	W4-4 D1	10.11.2016	
771883	W5-1 D1	10.11.2016	

Unit

771876
W4-1 D1

771880
W4-2 D1

771881
W4-3 D1

771882
W4-4 D1

771883
W5-1 D1

Standard GC-MS analysis

GC-MS research 1-5 non volatile compounds	see remark	see remark	see remark	see remark	see remark
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Order 620504 / 2 Water

Sample no.	Sample name	Date of sampling	Sampling Location
771884	W5-2 D1	10.11.2016	
771885	W5-3 D1	10.11.2016	
771886	W5-4 D1	10.11.2016	
771887	W5-5 D1	10.11.2016	
771888	W6-1 D1	10.11.2016	

Unit

771884
W5-2 D1

771885
W5-3 D1

771886
W5-4 D1

771887
W5-5 D1

771888
W6-1 D1

Standard GC-MS analysis

GC-MS research 1-5 non volatile compounds	see remark	see remark	see remark	see remark	see remark
---	------------	------------	------------	------------	------------

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Order 620504 / 2 Water

Sample no.	Sample name	Date of sampling	Sampling Location
771889	W6-2 D1	10.11.2016	
771895	W6-3 D1	10.11.2016	
771896	W6-4 D1	10.11.2016	
771897	W6-5 D1	10.11.2016	
771898	W6-6 D1	10.11.2016	

Unit	771889	771895	771896	771897	771898
	W6-2 D1	W6-3 D1	W6-4 D1	W6-5 D1	W6-6 D1

Standard GC-MS analysis

GC-MS research 1-5 non volatile compounds	see remark	see remark	see remark	see remark	see remark
---	------------	------------	------------	------------	------------

AL-West B.V.

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Order 620504 / 2 Water

Sample no.	Sample name	Date of sampling	Sampling Location
771899	W1-1 D1	10.11.2016	
771900	W6-8 D2	10.11.2016	
771901	W6-9 D2	10.11.2016	
771902	W6-10 D2	10.11.2016	
771903	W6-11 D2	10.11.2016	

Unit	771899	771900	771901	771902	771903
	W1-1 D1	W6-8 D2	W6-9 D2	W6-10 D2	W6-11 D2

Standard GC-MS analysis

GC-MS research 1-5 non volatile compounds	see remark	see remark	see remark	see remark	see remark
---	------------	------------	------------	------------	------------

AL-West B.V.

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e-Mail: info@al-west.nl, www.al-west.nl

Order 620504 / 2 Water

Sample no.	Sample name	Date of sampling	Sampling Location
771904	WT-1 D1	10.11.2016	
771918	WT-2 D1	10.11.2016	
771922	W6-12 D3	10.11.2016	
771930	W6-13 D3	10.11.2016	
771931	W6-14 D3	10.11.2016	

Unit

771904
WT-1 D1

771918
WT-2 D1

771922
W6-12 D3

771930
W6-13 D3

771931
W6-14 D3

Standard GC-MS analysis

GC-MS research 1-5 non volatile compounds	see remark	see remark	see remark	see remark	see remark
---	------------	------------	------------	------------	------------

AL-West B.V.

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Postbus 693, 7400 AR Deventer
Tel. +31(0)570 788110, Fax +31(0)570 788108
e-Mail: info@al-west.nl, www.al-west.nl

Order 620504 / 2 Water

Sample no.	Sample name	Date of sampling	Sampling Location
771932	W6-15 D3	10.11.2016	
771933	W6-16 D4	10.11.2016	

Unit

771932
W6-15 D3

771933
W6-16 D4

Standard GC-MS analysis

GC-MS research 1-5 non volatile compounds	see remark	see remark
---	-------------------	-------------------

Remarks

771876 GC/MS analyse niet-vluchtige verbinding:
Alfa-HCH ug/l 2300
Beta-HCH ug/l 35
Gamma-HCH ug/l 380
Delta-HCH ug/l 125

771880 GC/MS analyse niet-vluchtige verbinding:
Alfa-HCH ug/l 130
Beta-HCH ug/l 55
Gamma-HCH ug/l 200
Delta-HCH ug/l 800
Onbekende aromatische verbinding (*) ug/l 30

(*) Uitgerekend op een interne standaard Antraceen-D10, het gehalte is derhalve indicatief.

771881 GC/MS analyse niet-vluchtige verbinding:
Alfa-HCH ug/l 2600
Beta-HCH ug/l 400
Gamma-HCH ug/l 75
Delta-HCH ug/l 25

771882 GC/MS analyse niet-vluchtige verbinding:
Alfa-HCH ug/l 2750
Beta-HCH ug/l 370
Gamma-HCH ug/l 125
Delta-HCH ug/l 135

771883 GC/MS analyse niet-vluchtige verbinding:
Alfa-HCH ug/l 2300
Beta-HCH ug/l 400
Gamma-HCH ug/l 160
Delta-HCH ug/l 60

771884 GC/MS analyse niet-vluchtige verbinding:
Alfa-HCH ug/l 2400
Beta-HCH ug/l 350
Gamma-HCH ug/l 110
Delta-HCH ug/l 35

771885 GC/MS analyse niet-vluchtige verbinding:
Alfa-HCH ug/l 2250
Beta-HCH ug/l 350
Gamma-HCH ug/l 85
Delta-HCH ug/l 70

771886 GC/MS analyse niet-vluchtige verbinding:
Alfa-HCH ug/l 3000
Beta-HCH ug/l 420
Gamma-HCH ug/l 130
Delta-HCH ug/l 60

771887 GC/MS analyse niet-vluchtige verbinding:

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Order 620504 / 2 Water

	Alfa-HCH ug/l 2400
	Beta-HCH ug/l 400
	Gamma-HCH ug/l 110
	Delta-HCH ug/l 40
771888	GC/MS analyse niet-vluchtige verbinding:
	Alfa-HCH ug/l 2100
	Beta-HCH ug/l 350
	Gamma-HCH ug/l 85
	Delta-HCH ug/l 55
771889	GC/MS analyse niet-vluchtige verbinding:
	Alfa-HCH ug/l 2750
	Beta-HCH ug/l 470
	Gamma-HCH ug/l 370
	Delta-HCH ug/l 120
771895	GC/MS analyse niet-vluchtige verbinding:
	Alfa-HCH ug/l 2700
	Beta-HCH ug/l 450
	Gamma-HCH ug/l 200
	Delta-HCH ug/l 100
771896	GC/MS analyse niet-vluchtige verbinding:
	44DDD ug/l 35
	24DDT ug/l 65
	44DDT ug/l 215
771897	GC/MS analyse niet-vluchtige verbinding:
	Alfa-HCH ug/l 2100
	Beta-HCH ug/l 260
	Gamma-HCH ug/l 70
	Delta-HCH ug/l 15
771898	GC/MS analyse niet-vluchtige verbinding:
	Alfa-HCH ug/l 2000
	Beta-HCH ug/l 420
	Gamma-HCH ug/l 65
	Delta-HCH ug/l 40
771899	GC/MS analyse niet-vluchtige verbinding:
	44DDD ug/l 35
	24DDT ug/l 45
	44DDT ug/l 120
771900	GC/MS analyse niet-vluchtige verbinding:
	Alfa-HCH ug/l 1400
	Beta-HCH ug/l 270
	Gamma-HCH ug/l 250
	Delta-HCH ug/l 130
771901	GC/MS analyse niet-vluchtige verbinding:
	Alfa-HCH ug/l 1200
	Beta-HCH ug/l 175
	Gamma-HCH ug/l 50
	Delta-HCH ug/l 35
771902	GC/MS analyse niet-vluchtige verbinding:
	Alfa-HCH ug/l 1300
	Beta-HCH ug/l 320
	Gamma-HCH ug/l 110
	Delta-HCH ug/l 20
771903	GC/MS analyse niet-vluchtige verbinding:
	Alfa-HCH ug/l 1100
	Beta-HCH ug/l 150
	Gamma-HCH ug/l 70
	Delta-HCH ug/l 50
771904	GC/MS analyse niet-vluchtige verbinding:
	Alfa-HCH ug/l 680
	Beta-HCH ug/l 110
	Gamma-HCH ug/l 440
	Delta-HCH ug/l 440
771918	GC/MS analyse niet-vluchtige verbinding:

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e-Mail: info@al-west.nl, www.al-west.nl

Order 620504 / 2 Water

	Alfa-HCH ug/l	1500
	Beta-HCH ug/l	240
	Gamma-HCH ug/l	350
	Delta-HCH ug/l	500
771922	GC/MS analyse niet-vluchtige verbinding:	
	Alfa-HCH ug/l	1300
	Beta-HCH ug/l	175
	Gamma-HCH ug/l	70
	Delta-HCH ug/l	18
771930	GC/MS analyse niet-vluchtige verbinding:	
	Alfa-HCH ug/l	1150
	Beta-HCH ug/l	170
	Gamma-HCH ug/l	45
	Delta-HCH ug/l	16
771931	GC/MS analyse niet-vluchtige verbinding:	
	Alfa-HCH ug/l	1050
	Beta-HCH ug/l	160
	Gamma-HCH ug/l	80
	Delta-HCH ug/l	60
771932	GC/MS analyse niet-vluchtige verbinding:	
	Alfa-HCH ug/l	1400
	Beta-HCH ug/l	230
	Gamma-HCH ug/l	90
	Delta-HCH ug/l	50
771933	GC/MS analyse niet-vluchtige verbinding:	
	Alfa-HCH ug/l	1500
	Beta-HCH ug/l	260
	Gamma-HCH ug/l	75
	Delta-HCH ug/l	35

Start of testing: 10.11.2016

End of testing: 15.11.2016

The analytical results are only valid for the delivered sample material. A plausibility check is hardly possible for samples of unknown origin. Duplication of this document or of parts of it requires the authorization from laboratory.



AL-West B.V. Dhr. Peter Wijers, Tel. 31/570788111
Customer Service

This electronically transmitted report was checked and released. It is in accordance with the requirements of DIN EN ISO/IEC 17025:2005 for simplified reports and is valid with the digital signature.

Applied methods

in-house method: n) GC-MS research 1-5 non volatile compounds

n) *Not accredited*

Appendix

13

Analytical certificates AL-West asbestos

AL-West B.V.

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Tauw Nederland B.V.
Guido van de Coterlet
POSTBUS 133
7400 AC DEVENTER

Date 30.11.2016
Customer no. 35003840
Order nr. 620512 / 2

REPORT

Order 620512 / 2 Material

Client 35003840 Tauw Nederland B.V.
Reference 1239389
Sample acceptance 10.11.16
Sample taker Client

Dear sir, madam,

Please find enclosed the results of the laboratory tests you requested. Unless stated otherwise at applied methods, the analyses are accredited according to EN-ISO/IEC 17025 and were carried out using the methods listed in the most recent version of the annex of the accreditation certificate number L005 issued by the Dutch Accreditation Council (RvA).

Should you require details regarding the uncertainty of measurement of a method, we will be happy to supply these on request.

Allow us to draw your attention to the fact that the report enclosed may only be reproduced in its entirety.

Should you require any further information, please do not hesitate to contact the after-sales department.

We trust that the enclosed information will meet with your requirements.

This test report, version 2, replaces all previous test reports. .

Yours sincerely,



AL-West B.V. Dhr. Peter Wijers, Tel. +31/570788111
Customer Service

AL-West B.V.

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Order 620512 / 2 Material

Sample no.	Date of sampling	Sample name
771999	10.11.2016	Roof Saul/ FLE

Unit **771999**
Roof Saul/ FLE

Asbestos

Asbestos (Bulk) - Actinolithe	% (m/m)	<0,1
Asbestos (Bulk) - Anthophyllithe	% (m/m)	<0,1
Asbestos (Bulk) - Amosithe	% (m/m)	<0,1
Asbestos (Bulk) - Chrysotile	% (m/m)	10-15
Asbestos (Bulk) - Crocydolithe	% (m/m)	<0,1
Asbestos (Bulk) - Tremolithe	% (m/m)	<0,1
Asbestos (Bulk) - Bounded	% (m/m)	yes

Start of testing: 10.11.2016

End of testing: 15.11.2016

The analytical results are only valid for the delivered sample material. A plausibility check is hardly possible for samples of unknown origin. Duplication of this document or of parts of it requires the authorization from laboratory.



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Applied methods

Solids

NEN 5896:

Asbestos (Bulk) - Actinolithe Asbestos (Bulk) - Anthophyllithe Asbestos (Bulk) - Amosithe Asbestos (Bulk) - Chrysotile
Asbestos (Bulk) - Crocydolithe Asbestos (Bulk) - Tremolithe Asbestos (Bulk) - Bounded

Appendix

14

Analytical certificates MOST laboratories floors



Laboratory Services Inc.



MOSTLAB Laboratuvar Hizmetleri A.Ş.

**ARMADA EĞİTİM VE BELGELENDİRME
DANIŞMANLIK MÜH. ENERJİ VE
DENİZCİLİK SAN. VE TİC. LTD. ŞTİ.**

ATIK DENEY RAPORU

ML-AT-16-021

(W3-F6 Concrete (0 cm-2 cm)-(3 cm-8 cm))

KASIM 2016

Mustafa Kemal Mah. 2139. Sk. No:2/16 Çankaya/ANKARA

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ML-AT-16
021

11-16

DENEY RAPORU / Testing Report



Rapor No / Rapor Tarihi	: ML-AT-16-021 / 28.11.2016
Müşterinin Adı / Adresi	: ARMADA EĞİTİM VE BELGELENDİRME DANIŞMANLIK MÜHENDİSLİK ENERJİ VE DENİZCİLİK SAN. TİC. LTD. ŞTİ. Mustafa Kemal Mah. 2139. Sk. No:2/16 Çankaya/ANKARA
İstek / Barkod Numarası	: ML160257.34 -150151201-150151202
Numuneyi Alan	: Firma tarafından gönderilmiştir
Numunenin Türü	: Atık
Numunenin Alındığı Nokta	: W3-F6 (Concrete)-(0 cm-2 cm)-(3 cm-8 cm)
Numunenin Alma Yöntemi	: -
Mühür Durumu / Mühür No	: -
Numunenin Alındığı Tarih	: 11.11.2016
Numunenin Miktarı ve Kabul Durumu	: 1 Adet Cam Kap
Numunenin Kabul Tarihi	: 15.11.2016
Analiz Başlama ve Bitiş Tarihi	: 15.11.2016 / 24.11.2016
Rapor Sayfa Sayısı	: 3 Sayfa
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	Tarih Date 28.11.2016	Laboratuvar Müdürü Head of the testing laboratory Tarık DURMUŞ 
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Tablo 1. 150151201 Barkod Nolu – W3-F6 Concrete (0 cm-2 cm) Noktasının Analiz Sonuçları


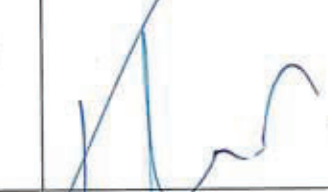


Analizi Yapılan Parametreler	Birim	Analiz Sonucu	Analiz Standardı
Alpha BHC (Alpha HCH)	mg/kg	113,12	EPA 3550 C EPA 8270 D
Beta BHC (Beta HCH)	mg/kg	32,49	EPA 3550 C EPA 8270 D
Gama BHC (Lindane)	mg/kg	104,46	EPA 3550 C EPA 8270 D
Delta BHC (Delta HCH)	mg/kg	80,53	EPA 3550 C EPA 8270 D
4,4'-DDE	mg/kg	1,78	EPA 3550 C EPA 8270 D
4,4'DDD	mg/kg	3,38	EPA 3550 C EPA 8270 D
4,4'DDT	mg/kg	64,31	EPA 3550 C EPA 8270 D

Tablo 2. 150151202 Barkod Nolu - W3-F6 Concrete (3 cm-8 cm) Noktasının Analiz Sonuçları

Analizi Yapılan Parametreler	Birim	Analiz Sonucu	Analiz Standardı
Alpha BHC (Alpha HCH)	mg/kg	93,34	EPA 3550 C EPA 8270 D
Beta BHC (Beta HCH)	mg/kg	18,87	EPA 3550 C EPA 8270 D
Gama BHC (Lindane)	mg/kg	1,55	EPA 3550 C EPA 8270 D
Delta BHC (Delta HCH)	mg/kg	1,06	EPA 3550 C EPA 8270 D
4,4'-DDE	mg/kg	<0,1(LOQ*)	EPA 3550 C EPA 8270 D
4,4'DDD	mg/kg	<0,1(LOQ*)	EPA 3550 C EPA 8270 D
4,4'DDT	mg/kg	0,16	EPA 3550 C EPA 8270 D

*:LOQ, Ölçülebilir En Alt Limit

Bu rapor iki nüsha halinde düzenlenmiştir. Laboratuvarın yazılı izni olmadan kopyalanıp çoğaltılamaz. Analiz sonuçları, analizi yapan ve raporda tanımlanan numuneye aittir. İmzasız ve mühürsüz raporlar geçersizdir. Bu Rapor Çevre Mevzuatınca Resmi İşlemlerde Kullanılamaz.
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Mühür / Tarih Seal / Date	Raporu Hazırlayan Reporter Bora KÖKOVA	Laboratuvar Sorumlusu Laboratory Officer Ömer ÖZCAN	Onay Approval Tarkan DURMUŞ
			

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DENİZCİLİK SAN. VE TİC. LTD. ŞTİ.**

ATIK DENEY RAPORU

ML-AT-16-022

(W5-F3 Concrete (0 cm-1 cm)-(2 cm-5 cm))

KASIM 2016

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DENEY RAPORU / Testing Report

Rapor No / Rapor Tarihi	: ML-AT-16-022 / 28.11.2016
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Numuneyi Alan	: Firma tarafından gönderilmiştir
Numunenin Türü	: Atık
Numunenin Alındığı Nokta	: W5-F3 (Concrete) - (0 cm -1 cm)-(2 cm -5 cm)
Numunenin Alma Yöntemi	: -
Mühür Durumu / Mühür No	: -
Numunenin Alındığı Tarih	: 11.11.2016
Numunenin Miktarı ve Kabul Durumu	: 1 Adet Cam Kap
Numunenin Kabul Tarihi	: 15.11.2016
Analiz Başlama ve Bitiş Tarihi	: 15.11.2016 / 24.11.2016
Rapor Sayfa Sayısı	: 3 Sayfa
Raporun Nüsha Sayısı	: 1 Nüsha
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	Tarih Date 28.11.2016	Laboratuvar Müdürü Head of the testing Laboratory Tark DURMUŞ 
---	------------------------------------	--

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Tablo 1. 150151301 Barkod Nolu - W5-F3 (Concrete) (0 cm-1 cm) Noktasının Analiz Sonuçları

Analizi Yapılan Parametreler	Birim	Analiz Sonucu	Analiz Standardı
Alpha BHC (Alpha HCH)	mg/kg	75,99	EPA 3550 C EPA 8270 D
Beta BHC (Beta HCH)	mg/kg	13,33	EPA 3550 C EPA 8270 D
Gama BHC (Lindane)	mg/kg	6,35	EPA 3550 C EPA 8270 D
Delta BHC (Delta HCH)	mg/kg	3,01	EPA 3550 C EPA 8270 D
4,4'-DDE	mg/kg	0,35	EPA 3550 C EPA 8270 D
4,4'DDD	mg/kg	7,27	EPA 3550 C EPA 8270 D
4,4'DDT	mg/kg	6,47	EPA 3550 C EPA 8270 D

Tablo 2. 150151302 Barkod Nolu - W5-F3 (Concrete) (2 cm-5 cm) Noktasının Analiz Sonuçları

Analizi Yapılan Parametreler	Birim	Analiz Sonucu	Analiz Standardı
Alpha BHC (Alpha HCH)	mg/kg	160,44	EPA 3550 C EPA 8270 D
Beta BHC (Beta HCH)	mg/kg	20,24	EPA 3550 C EPA 8270 D
Gama BHC (Lindane)	mg/kg	3,97	EPA 3550 C EPA 8270 D
Delta BHC (Delta HCH)	mg/kg	0,95	EPA 3550 C EPA 8270 D
4,4'-DDE	mg/kg	<0,1(LOQ*)	EPA 3550 C EPA 8270 D
4,4'DDD	mg/kg	<0,1(LOQ*)	EPA 3550 C EPA 8270 D
4,4'DDT	mg/kg	0,11	EPA 3550 C EPA 8270 D

*:LOQ, Ölçülebilir En Alt Limit

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HİZMETLERİ A.Ş.
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11-16

Mühür / Tarih Seal / Date 	Raporu Hazırlayan Reporter Bora KÖKOVA 	Laboratuvar Sorumlusu Laboratory Officer Ömer ÖZCAN 	Onay Approval Tank DURMUŞ
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ATIK DENEY RAPORU

ML-AT-16-024

(W2-F7 Concrete (0 cm-2 cm)-(2 cm-5 cm))

KASIM 2016

Mustafa Kemal Mah. 2139. Sk. No:2/16 Çankaya/ANKARA

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DENEY RAPORU / Testing Report



Rapor No / Rapor Tarihi	: ML-AT-16-024 / 28.11.2016
Müşterinin Adı / Adresi	: ARMADA EĞİTİM VE BELGELENDİRME DANIŞMANLIK MÜHENDİSLİK ENERJİ VE DENİZCİLİK SAN. TİC. LTD. ŞTİ. Mustafa Kemal Mah. 2139. Sk. No:2/16 Çankaya/ANKARA
İstek / Barkod Numarası	: ML160257.34 -150151501-150151502
Numuneyi Alan	: Firma tarafından gönderilmiştir
Numunenin Türü	: Atık
Numunenin Alındığı Nokta	: W2-F7 Concrete (0 cm-2 cm)-(2 cm- 5 cm)
Numunenin Alma Yöntemi	: -
Mühür Durumu / Mühür No	: -
Numunenin Alındığı Tarih	: 11.11.2016
Numunenin Miktarı ve Kabul Durumu	: 1 Adet Cam Kap
Numunenin Kabul Tarihi	: 15.11.2016
Analiz Başlama ve Bitiş Tarihi	: 15.11.2016 / 24.11.2016
Rapor Sayfa Sayısı	: 3 Sayfa
Raporun Nüsha Sayısı	: 1 Nüsha
Açıklamalar	: Bu Rapor Çevre Mevzuatınca Resmi İşlemlerde Kullanılamaz.

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	Tarih Date 28.11.2016	Laboratuvar Müdürü Head of the testing laboratory Tarık DURMUŞ 
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Tablo 1. 150151501 Barkod Nolu - W2-F7 (Concrete) (0 cm-2 cm) Noktasının Analiz Sonuçları


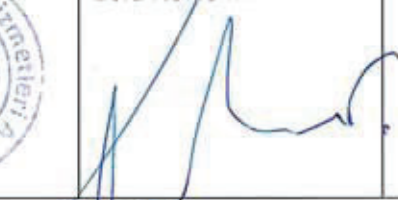


Analizi Yapılan Parametreler	Birim	Analiz Sonucu	Analiz Standardı
Alpha BHC (Alpha HCH)	mg/kg	9358,10	EPA 3550 C EPA 8270 D
Beta BHC (Beta HCH)	mg/kg	1555,28	EPA 3550 C EPA 8270 D
Gama BHC (Lindane)	mg/kg	4264,26	EPA 3550 C EPA 8270 D
Delta BHC (Delta HCH)	mg/kg	3155,01	EPA 3550 C EPA 8270 D
4,4'-DDE	mg/kg	0,44	EPA 3550 C EPA 8270 D
4,4'DDD	mg/kg	0,58	EPA 3550 C EPA 8270 D
4,4'DDT	mg/kg	28,84	EPA 3550 C EPA 8270 D

Tablo 2. 150151502 Barkod Nolu - W2-F7 (Concrete) (2 cm-5 cm) Noktasının Analiz Sonuçları

Analizi Yapılan Parametreler	Birim	Analiz Sonucu	Analiz Standardı
Alpha BHC (Alpha HCH)	mg/kg	49,05	EPA 3550 C EPA 8270 D
Beta BHC (Beta HCH)	mg/kg	7,57	EPA 3550 C EPA 8270 D
Gama BHC (Lindane)	mg/kg	2,93	EPA 3550 C EPA 8270 D
Delta BHC (Delta HCH)	mg/kg	4,29	EPA 3550 C EPA 8270 D
4,4'-DDE	mg/kg	<0,1(LOQ*)	EPA 3550 C EPA 8270 D
4,4'DDD	mg/kg	<0,1(LOQ*)	EPA 3550 C EPA 8270 D
4,4'DDT	mg/kg	<0,1(LOQ*)	EPA 3550 C EPA 8270 D

*:LOQ, Ölçülebilir En Alt Limit

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Appendix

15

Analytical certificates MOST laboratories building blocks



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**ARMADA EĞİTİM VE BELGELENDİRME
DANIŞMANLIK MÜH. ENERJİ VE
DENİZCİLİK SAN. VE TİC. LTD. ŞTİ.**

ATIK DENEY RAPORU

**ML-AT-16-015
(W4-NW1 Clean Whole)**

KASIM 2016

Mustafa Kemal Mah. 2139. Sk. No:2/16 Çankaya/ANKARA

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AB-0971-T

ML-AT-16
015

11-16

DENEY RAPORU / Testing Report

Rapor No / Rapor Tarihi	: ML-AT-16-015 / 28.11.2016
Müşterinin Adı / Adresi	: ARMADA EĞİTİM VE BELGELENDİRME DANIŞMANLIK MÜHENDİSLİK ENERJİ VE DENİZCİLİK SAN. TİC. LTD. ŞTİ. Mustafa Kemal Mah. 2139. Sk. No:2/16 Çankaya/ANKARA
İstek / Barkod Numarası	: ML160257.34 -150151101
Numuneyi Alan	: Firma tarafından gönderilmiştir
Numunenin Türü	: Atık
Numunenin Alındığı Nokta	: W4-NW1 Clean Whole
Numunenin Alma Yöntemi	: -
Mühür Durumu / Mühür No	: -
Numunenin Alındığı Tarih	: 11.11.2016
Numunenin Miktarı ve Kabul Durumu	: 1 Adet Cam Kap
Numunenin Kabul Tarihi	: 15.11.2016
Analiz Başlama ve Bitiş Tarihi	: 15.11.2016 / 24.11.2016
Rapor Sayfa Sayısı	: 2 Sayfa
Raporun Nüsha Sayısı	: 1 Nüsha
Açıklamalar	: Bu Rapor Çevre Mevzuatınca Resmi İşlemlerde Kullanılamaz.

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The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.





Mühür Seal 	Tarih Date 28.11.2016	Laboratuvar Müdürü Head of the testing laboratory Tarkan DÜRMÜŞ
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Tablo 1. 150151101 Barkod Nolu - W4-NW1 Clean Whole Noktasının Analiz Sonuçları

Analizi Yapılan Parametreler	Birim	Analiz Sonucu	Analiz Standardı
Alpha BHC (Alpha HCH)	mg/kg	54,73	EPA 3550 C EPA 8270 D
Beta BHC (Beta HCH)	mg/kg	12,51	EPA 3550 C EPA 8270 D
Gama BHC (Lindane)	mg/kg	6,04	EPA 3550 C EPA 8270 D
Delta BHC (Delta HCH)	mg/kg	3,67	EPA 3550 C EPA 8270 D
4,4'-DDE	mg/kg	<0,1(LOQ*)	EPA 3550 C EPA 8270 D
4,4'DDD	mg/kg	<0,1(LOQ*)	EPA 3550 C EPA 8270 D
4,4'DDT	mg/kg	0,66	EPA 3550 C EPA 8270 D

*:LOQ, Ölçülebilir En Alt Limit

Mühür / Tarih Seal / Date	Raporu Hazırlayan Reporter Bora KÖKOVA	Laboratuvar Sorumlusu Laboratory Officer Ömer ÖZCAN	Onay Approval Tarkan DURMUŞ
			

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DANIŞMANLIK MÜH. ENERJİ VE
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ATIK DENEY RAPORU

**ML-AT-16-016
(W4-NW2 Hoovered Clean)**

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016

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DENEY RAPORU / Testing Report

Rapor No / Rapor Tarihi	: ML-AT-16-016 / 28.11.2016
Müşterinin Adı / Adresi	: ARMADA EĞİTİM VE BELGELENDİRME DANIŞMANLIK MÜHENDİSLİK ENERJİ VE DENİZCİLİK SAN. TİC. LTD. ŞTİ. Mustafa Kemal Mah. 2139. Sk. No:2/16 Çankaya/ANKARA
İstek / Barkod Numarası	: ML160257.34 -150151102
Numuneyi Alan	: Firma tarafından gönderilmiştir
Numunenin Türü	: Atık
Numunenin Alındığı Nokta	: W4-NW2 Hoovered Clean
Numunenin Alma Yöntemi	: -
Mühür Durumu / Mühür No	: -
Numunenin Alındığı Tarih	: 11.11.2016
Numunenin Miktarı ve Kabul Durumu	: 1 Adet Cam Kap
Numunenin Kabul Tarihi	: 15.11.2016
Analiz Başlama ve Bitiş Tarihi	: 15.11.2016 / 24.11.2016
Rapor Sayfa Sayısı	: 2 Sayfa
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Açıklamalar	: Bu Rapor Çevre Mevzuatınca Resmi İşlemlerde Kullanılamaz.

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Date
28.11.2016


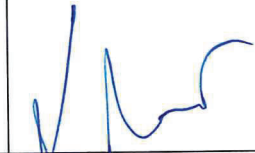


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Head of the testing laboratory
Tarık DURMUŞ

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Tablo 1. 150151102 Barkod Nolu - W4-NW2 Hoovered Clean Noktasının Analiz Sonuçları

Analizi Yapılan Parametreler	Birim	Analiz Sonucu	Analiz Standardı
Alpha BHC (Alpha HCH)	mg/kg	52,07	EPA 3550 C EPA 8270 D
Beta BHC (Beta HCH)	mg/kg	33,94	EPA 3550 C EPA 8270 D
Gama BHC (Lindane)	mg/kg	52,28	EPA 3550 C EPA 8270 D
Delta BHC (Delta HCH)	mg/kg	27,30	EPA 3550 C EPA 8270 D
4,4'-DDE	mg/kg	0,26	EPA 3550 C EPA 8270 D
4,4'DDD	mg/kg	<0,1(LOQ*)	EPA 3550 C EPA 8270 D
4,4'DDT	mg/kg	0,46	EPA 3550 C EPA 8270 D

*:LOQ, Ölçülebilir En Alt Limit

Mühür / Tarih Seal / Date	Raporu Hazırlayan Reporter Bora KÖKOVA	Laboratuvar Sorumlusu Laboratory Officer Ömer ÖZCAN	Onay Approval Tarık DÜRMÜŞ
			

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ATIK DENEY RAPORU

**ML-AT-16-017
(W4-NW3 Clean Outside)**

KASIM 2016

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Rapor No / Rapor Tarihi	: ML-AT-16-017 / 28.11.2016
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İstek / Barkod Numarası	: ML160257.34 -150151103
Numuneyi Alan	: Firma tarafından gönderilmiştir
Numunenin Türü	: Atık
Numunenin Alındığı Nokta	: W4-NW3 Clean Outside
Numunenin Alma Yöntemi	: -
Mühür Durumu / Mühür No	: -
Numunenin Alındığı Tarih	: 11.11.2016
Numunenin Miktarı ve Kabul Durumu	: 1 Adet Cam Kap
Numunenin Kabul Tarihi	: 15.11.2016
Analiz Başlama ve Bitiş Tarihi	: 15.11.2016 / 24.11.2016
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Mühür



Tarih

Date
28.11.2016

Laboratuvar Müdürü

Head of the testing laboratory
Tarık DURMUŞ





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Tablo 1. 150151103 Barkod Nolu - W4-NW3 Clean Outside Noktasının Analiz Sonuçları

Analizi Yapılan Parametreler	Birim	Analiz Sonucu	Analiz Standardı
Alpha BHC (Alpha HCH)	mg/kg	47,22	EPA 3550 C EPA 8270 D
Beta BHC (Beta HCH)	mg/kg	33,08	EPA 3550 C EPA 8270 D
Gama BHC (Lindane)	mg/kg	7,77	EPA 3550 C EPA 8270 D
Delta BHC (Delta HCH)	mg/kg	1,78	EPA 3550 C EPA 8270 D
4,4'-DDE	mg/kg	0,13	EPA 3550 C EPA 8270 D
4,4'DDD	mg/kg	<0,1(LOQ*)	EPA 3550 C EPA 8270 D
4,4'DDT	mg/kg	0,36	EPA 3550 C EPA 8270 D

*:LOQ, Ölçülebilir En Alt Limit

Mühür / Tarih Seal / Date	Raporu Hazırlayan Reporter Bora KÖKOVA	Laboratuvar Sorumlusu Laboratory Officer Ömer ÖZCAN	Onay Approval Tark DURMUŞ
			

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ATIK DENEY RAPORU

**ML-AT-16-018
(W4-NW4 Dirty Whole Black)**

KASIM 2016

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Rapor No / Rapor Tarihi	: ML-AT-16-018 /28.11.2016
Müşterinin Adı / Adresi	: ARMADA EĞİTİM VE BELGELENDİRME DANIŞMANLIK MÜHENDİSLİK ENERJİ VE DENİZCİLİK SAN. TİC. LTD. ŞTİ. Mustafa Kemal Mah. 2139. Sk. No:2/16 Çankaya/ANKARA
İstek / Barkod Numarası	: ML160257.34 -150151104
Numuneyi Alan	: Firma tarafından gönderilmiştir
Numunenin Türü	: Atık
Numunenin Alındığı Nokta	: W4-NW4 Dirty Whole Black
Numunenin Alma Yöntemi	: -
Mühür Durumu / Mühür No	: -
Numunenin Alındığı Tarih	: 11.11.2016
Numunenin Miktarı ve Kabul Durumu	: 1 Adet Cam Kap
Numunenin Kabul Tarihi	: 15.11.2016
Analiz Başlama ve Bitiş Tarihi	: 15.11.2016 / 24.11.2016
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The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.




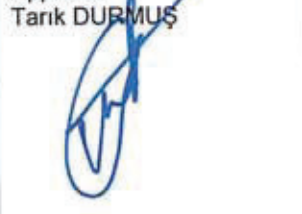
 <p>Mühür Seal Mostlab Laboratuvar Hizmetleri A.Ş.</p>	<p>Tarih Date 28.11.2016</p>	<p>Laboratuvar Müdürü Head of the testing laboratory Tark DURMUŞ</p> 
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Tablo 1. 150151104 Barkod Nolu – W4-NW4 Dirty Whole Black Noktasının Analiz Sonuçları

Analizi Yapılan Parametreler	Birim	Analiz Sonucu	Analiz Standardı
Alpha BHC (Alpha HCH)	mg/kg	394,02	EPA 3550 C EPA 8270 D
Beta BHC (Beta HCH)	mg/kg	68,1	EPA 3550 C EPA 8270 D
Gama BHC (Lindane)	mg/kg	54,63	EPA 3550 C EPA 8270 D
Delta BHC (Delta HCH)	mg/kg	22,67	EPA 3550 C EPA 8270 D
4,4'-DDE	mg/kg	<0,1(LOQ*)	EPA 3550 C EPA 8270 D
4,4'DDD	mg/kg	<0,1(LOQ*)	EPA 3550 C EPA 8270 D
4,4'DDT	mg/kg	<0,1(LOQ*)	EPA 3550 C EPA 8270 D

*:LOQ, Ölçülebilir En Alt Limit

Mühür / Tarih Seal / Date	Raporu Hazırlayan Reporter Bora KÖKOVA	Laboratuvar Sorumlusu Laboratory Officer Ömer ÖZCAN	Onay Approval TariK DURMUŞ
			

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DANIŞMANLIK MÜH. ENERJİ VE
DENİZCİLİK SAN. VE TİC. LTD. ŞTİ.**

ATIK DENEY RAPORU

**ML-AT-16-019
(W4-NW5 Dirty Hoover)**

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İstek / Barkod Numarası	: ML160257.34 -150151105
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Numunenin Türü	: Atık
Numunenin Alındığı Nokta	: W4-NW5 Dirty Hoover
Numunenin Alma Yöntemi	: -
Mühür Durumu / Mühür No	: -
Numunenin Alındığı Tarih	: 11.11.2016
Numunenin Miktarı ve Kabul Durumu	: 1 Adet Cam Kap
Numunenin Kabul Tarihi	: 15.11.2016
Analiz Başlama ve Bitiş Tarihi	: 15.11.2016 / 24.11.2016
Rapor Sayfa Sayısı	: 2 Sayfa
Raporun Nüsha Sayısı	: 1 Nüsha
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Date
28.11.2016

Laboratuvar Müdürü
Head of the testing laboratory
Tarık DURMUŞ


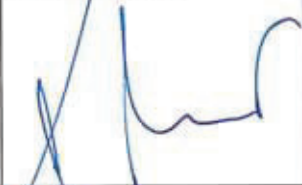


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Tablo 1. 150151105 Barkod Nolu – W4-NW5 Dirty Hoover Noktasının Analiz Sonuçları

Analizi Yapılan Parametreler	Birim	Analiz Sonucu	Analiz Standardı
Alpha BHC (Alpha HCH)	mg/kg	198,69	EPA 3550 C EPA 8270 D
Beta BHC (Beta HCH)	mg/kg	41,79	EPA 3550 C EPA 8270 D
Gama BHC (Lindane)	mg/kg	43,96	EPA 3550 C EPA 8270 D
Delta BHC (Delta HCH)	mg/kg	19,01	EPA 3550 C EPA 8270 D
4,4'-DDE	mg/kg	<0,1(LOQ*)	EPA 3550 C EPA 8270 D
4,4'DDD	mg/kg	<0,1(LOQ*)	EPA 3550 C EPA 8270 D
4,4'DDT	mg/kg	0,16	EPA 3550 C EPA 8270 D

*:LOQ, Ölçülebilir En Alt Limit

Mühür / Tarih Seal / Date	Raporu Hazırlayan Reporter Bora KÖKOVA	Laboratuvar Sorumlusu Laboratory Officer Ömer ÖZCAN	Onay Approval Tarik DÖRMEŞ
			

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ATIK DENEY RAPORU

**ML-AT-16-020
(W4-NW6 Dirty Outside)**

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Rapor No / Rapor Tarihi	: ML-AT-16-020 / 28.11.2016
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Numuneyi Alan	: Firma tarafından gönderilmiştir
Numunenin Türü	: Atık
Numunenin Alındığı Nokta	: W4-NW6 Dirty Outside
Numunenin Alma Yöntemi	: -
Mühür Durumu / Mühür No	: -
Numunenin Alındığı Tarih	: 11.11.2016
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Numunenin Kabul Tarihi	: 15.11.2016
Analiz Başlama ve Bitiş Tarihi	: 15.11.2016 / 24.11.2016
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Tarih
Date
28.11.2016

Laboratuvar Müdürü
Head of the testing laboratory
Tark DÜRMÜŞ





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Tablo 1. 150151106 Barkod Nolu – W4-NW6 Dirty Outside Noktasının Analiz Sonuçları

Analizi Yapılan Parametreler	Birim	Analiz Sonucu	Analiz Standardı
Alpha BHC (Alpha HCH)	mg/kg	43,79	EPA 3550 C EPA 8270 D
Beta BHC (Beta HCH)	mg/kg	76,26	EPA 3550 C EPA 8270 D
Gama BHC (Lindane)	mg/kg	19,07	EPA 3550 C EPA 8270 D
Delta BHC (Delta HCH)	mg/kg	2,16	EPA 3550 C EPA 8270 D
4,4'-DDE	mg/kg	0,62	EPA 3550 C EPA 8270 D
4,4'DDD	mg/kg	0,1(LOQ*)	EPA 3550 C EPA 8270 D
4,4'DDT	mg/kg	0,40	EPA 3550 C EPA 8270 D

*:LOQ, Ölçülebilir En Alt Limit

Mühür / Tarih Seal / Date	Raporu Hazırlayan Reporter Bora KÖKOVA	Laboratuvar Sorumlusu Laboratory Officer Ömer ÖZCAN	Onay Approval Tark DURMUS
			

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Appendix

16

Analytical certificates MOST laboratories subsurface



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ML-AT-16-023

W5-F3 GMC 12-11 (0,6-0,9)-(1-1,2)

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İstek / Barkod Numarası	: ML160257.34 -150151401-150151402
Numuneyi Alan	: Firma tarafından gönderilmiştir
Numunenin Türü	: Atık
Numunenin Alındığı Nokta	: W5-F3 (GMC 12-11) - (0,6-0,9)-(1-1,2)
Numunenin Alma Yöntemi	: -
Mühür Durumu / Mühür No	: -
Numunenin Alındığı Tarih	: 11.11.2016
Numunenin Miktarı ve Kabul Durumu	: 1 Adet Cam Kap
Numunenin Kabul Tarihi	: 15.11.2016
Analiz Başlama ve Bitiş Tarihi	: 15.11.2016 / 24.11.2016
Rapor Sayfa Sayısı	: 3 Sayfa
Raporun Nüsha Sayısı	: 1 Nüsha
Açıklamalar	: Bu Rapor Çevre Mevzuatınca Resmi İşlemlerde Kullanılamaz.

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Head of the testing laboratory
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Tablo 1. 150151401 Barkod Nolu - W5-F3 (GMC 12-11) (0,6-0,9) Noktasının Analiz Sonuçları





Analizi Yapılan Parametreler	Birim	Analiz Sonucu	Analiz Standardı
TPH*	<i>mg/kg</i>	6926,61	TS EN 14039
Alpha BHC (Alpha HCH)	<i>mg/kg</i>	471,74	EPA 3550 C EPA 8270 D
Beta BHC (Beta HCH)	<i>mg/kg</i>	82,21	EPA 3550 C EPA 8270 D
Gama BHC (Lindane)	<i>mg/kg</i>	31,46	EPA 3550 C EPA 8270 D
Delta BHC (Delta HCH)	<i>mg/kg</i>	26,26	EPA 3550 C EPA 8270 D
4,4'-DDE	<i>mg/kg</i>	4,89	EPA 3550 C EPA 8270 D
4,4'DDD	<i>mg/kg</i>	73,30	EPA 3550 C EPA 8270 D
4,4'DDT	<i>mg/kg</i>	265,10	EPA 3550 C EPA 8270 D

*:Akreditasyon ve/veya yeterlilik kapsam dışındadır

Tablo 2. 150151402 Barkod Nolu - W5-F3 (GMC 12-11) (1-1,2) Noktasının Analiz Sonuçları

Analizi Yapılan Parametreler	Birim	Analiz Sonucu	Analiz Standardı
Alpha BHC (Alpha HCH)	<i>mg/kg</i>	143,16	EPA 3550 C EPA 8270 D
Beta BHC (Beta HCH)	<i>mg/kg</i>	18,97	EPA 3550 C EPA 8270 D
Gama BHC (Lindane)	<i>mg/kg</i>	1,71	EPA 3550 C EPA 8270 D
Delta BHC (Delta HCH)	<i>mg/kg</i>	2,92	EPA 3550 C EPA 8270 D
4,4'-DDE	<i>mg/kg</i>	10,51	EPA 3550 C EPA 8270 D
4,4'DDD	<i>mg/kg</i>	138,15	EPA 3550 C EPA 8270 D
4,4'DDT	<i>mg/kg</i>	1989,07	EPA 3550 C EPA 8270 D

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ML-AT-16-025

W2-F7 GMC 12-11 (0,4-0,6)

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Numuneyi Alan	: Firma tarafından gönderilmiştir
Numunenin Türü	: Atık
Numunenin Alındığı Nokta	: W2-F7 (GMC 12-11) - (0,4-0,6)
Numunenin Alma Yöntemi	: -
Mühür Durumu / Mühür No	: -
Numunenin Alındığı Tarih	: 11.11.2016
Numunenin Miktarı ve Kabul Durumu	: 1 Adet Cam Kap
Numunenin Kabul Tarihi	: 15.11.2016
Analiz Başlama ve Bitiş Tarihi	: 15.11.2016 / 24.11.2016
Rapor Sayfa Sayısı	: 2 Sayfa
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Tarih
Date
28.11.2016

Laboratuvar Müdürü
Head of the testing laboratory
Tark DURMUŞ

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Tablo 1. 150151503 Barkod Nolu – W2-F7 (GMC 12-11) - (0,4-0,6) Noktasının Analiz Sonuçları

Analizi Yapılan Parametreler	Birim	Analiz Sonucu	Analiz Standardı
Alpha BHC (Alpha HCH)	mg/kg	69,25	EPA 3550 C EPA 8270 D
Beta BHC (Beta HCH)	mg/kg	13,26	EPA 3550 C EPA 8270 D
Gama BHC (Lindane)	mg/kg	7,59	EPA 3550 C EPA 8270 D
Delta BHC (Delta HCH)	mg/kg	3,11	EPA 3550 C EPA 8270 D
4,4'-DDE	mg/kg	5,78	EPA 3550 C EPA 8270 D
4,4'DDD	mg/kg	25,57	EPA 3550 C EPA 8270 D
4,4'DDT	mg/kg	634,05	EPA 3550 C EPA 8270 D

Mühür / Tarih Seal / Date	Raporu Hazırlayan Reporter Bora KÖKOVA	Laboratuvar Sorumlusu Laboratory Officer Ömer ÖZCAN	Onay Approval Tark DURMUS
			

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**ML-AT-16-025
W2-F7 GMC 12-11 (0,6-0,9)**

KASIM 2016
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Rapor No / Rapor Tarihi	: ML-AT-16-025 / 28.11.2016
Müşterinin Adı / Adresi	: ARMADA EĞİTİM VE BELGELENDİRME DANIŞMANLIK MÜHENDİSLİK ENERJİ VE DENİZCİLİK SAN. TİC. LTD. ŞTİ. Mustafa Kemal Mah. 2139. Sk. No:2/16 Çankaya/ANKARA
İstek / Barkod Numarası	: ML160257.34 -150151503
Numuneyi Alan	: Firma tarafından gönderilmiştir
Numunenin Türü	: Atık
Numunenin Alındığı Nokta	: W2-F7 (GMC 12-11) - (0,6-0,9)
Numunenin Alma Yöntemi	: -
Mühür Durumu / Mühür No	: -
Numunenin Alındığı Tarih	: 11.11.2016
Numunenin Miktarı ve Kabul Durumu	: 1 Adet Cam Kap
Numunenin Kabul Tarihi	: 15.11.2016
Analiz Başlama ve Bitiş Tarihi	: 15.11.2016 / 24.11.2016
Rapor Sayfa Sayısı	: 2 Sayfa
Raporun Nüsha Sayısı	: 1 Nüsha
Açıklamalar	: Bu Rapor Çevre Mevzuatınca Resmi İşlemlerde Kullanılamaz.





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The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

 <p>Mühür Seal</p>	<p>Tarih Date 28.11.2016</p>	<p>Laboratuvar Müdürü Head of the testing laboratory Tanık DURMUŞ</p> 
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Bu rapor, laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürsüz raporlar geçersizdir. Deney sonuçları, yalnızca ölçüm sırasındaki proses koşullarıyla ilgilidir.
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Tablo 1. 150151503 Barkod Nolu – W2-F7 (GMC 12-11) - (0,6-0,9) Noktasının Analiz Sonuçları

Analizi Yapılan Parametreler	Birim	Analiz Sonucu	Analiz Standardı
Alpha BHC (Alpha HCH)	mg/kg	69,25	EPA 3550 C EPA 8270 D
Beta BHC (Beta HCH)	mg/kg	13,26	EPA 3550 C EPA 8270 D
Gama BHC (Lindane)	mg/kg	7,59	EPA 3550 C EPA 8270 D
Delta BHC (Delta HCH)	mg/kg	3,11	EPA 3550 C EPA 8270 D
4,4'-DDE	mg/kg	5,78	EPA 3550 C EPA 8270 D
4,4'DDD	mg/kg	25,57	EPA 3550 C EPA 8270 D
4,4'DDT	mg/kg	634,05	EPA 3550 C EPA 8270 D

Mühür / Tarih Seal / Date	Raporu Hazırlayan Reporter Bora KÖKOVA	Laboratuvar Sorumlusu Laboratory Officer Ömer ÖZCAN	Onay Approval Tank DÜRMÜŞ
			

Bu rapor iki nüsha halinde düzenlenmiştir. Laboratuvarın yazılı izni olmadan kopyalanıp çoğaltılamaz. Analiz sonuçları, analizi yapan ve raporda tanımlanan numuneye aittir. İmzasız ve mühürsüz raporlar geçersizdir. Bu Rapor Çevre Mevzuatınca Resmi İşlemlerde Kullanılamaz
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MOSTLAB Laboratuvar Hizmetleri A.Ş.

**ARMADA EĞİTİM VE BELGELENDİRME
DANIŞMANLIK MÜH. ENERJİ VE
DENİZCİLİK SAN. VE TİC. LTD. ŞTİ.**

ATIK DENEY RAPORU

ML-AT-16-026

W5-F3 GMC 12-11 (0,6-0,9)

KASIM 2016

Mustafa Kemal Mah. 2139. Sk. No:2/16 Çankaya/ANKARA

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AB-0971-T

MOSTLAB Laboratuvar Hizmetleri A.Ş.



**İstanbul Deri Organize Sanayi Bölgesi Kazlıçeşme
Caddesi 6/ 1,1-1,2 Tuzla/İstanbul
e-mail:info@mostlab.com web: www.mostlab.com**

AB-0971-T

ML-AT-16
026

11-16

DENEY RAPORU / Testing Report

Rapor No / Rapor Tarihi	: ML-AT-16-026 / 29.11.2016
Müşterinin Adı / Adresi	: ARMADA EĞİTİM VE BELGELENDİRME DANIŞMANLIK MÜHENDİSLİK ENERJİ VE DENİZCİLİK SAN. TİC. LTD. ŞTİ. Mustafa Kemal Mah. 2139. Sk. No:2/16 Çankaya/ANKARA
İstek / Barkod Numarası	: ML160257.34 -150151401
Numuneyi Alan	: Firma tarafından gönderilmiştir
Numunenin Türü	: Atık
Numunenin Alındığı Nokta	: W5-F3 (GMC 12-11) - (0,6-0,9)
Numunenin Alma Yöntemi	: -
Mühür Durumu / Mühür No	: -
Numunenin Alındığı Tarih	: 11.11.2016
Numunenin Miktarı ve Kabul Durumu	: 1 Adet Cam Kap
Numunenin Kabul Tarihi	: 15.11.2016
Analiz Başlama ve Bitiş Tarihi	: 21.11.2016 / 29.11.2016
Rapor Sayfa Sayısı	: 2 Sayfa
Raporun Nüsha Sayısı	: 1 Nüsha
Açıklamalar	: Bu Rapor Çevre Mevzuatınca Resmi İşlemlerde Kullanılamaz.

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Turkish Accreditation Agency (TÜRKAK) is signatory to the multilateral agreements of European co-operation for the Accreditation (EA) and of the International Laboratory Accreditation (ILAC) for the Mutual recognition of test reports.
Deney ve /veya ölçüm sonuçları, genişletilmiş ölçüm belirsizlikleri (olması halinde) ve deney metodları bu sertifikanın tamamlayıcı kısmı olan takip eden sayfalarda verilmiştir.
The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.



Tarih
Date
29.11.2016



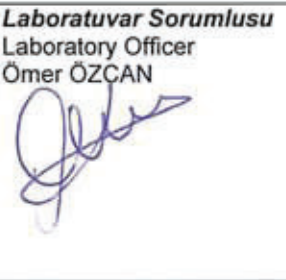

Laboratuvar Müdürü
Head of the testing laboratory
Tark DURMUŞ

Bu rapor, laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürsüz raporlar geçersizdir. Deney sonuçları, yalnızca ölçüm sırasındaki proses koşullarıyla ilgilidir.
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Tablo 1. 150151401 Barkod Nolu - W5-F3 (GMC 12-11) (0,6-0,9) Noktasının Analiz Sonuçları

Analizi Yapılan Parametreler	Birim	Analiz Sonucu	Analiz Standardı
Krom (Cr)	<i>mg/kg</i>	134,46	TS EN ISO 17294-2 EPA 3051A
Kobalt (Co)*	<i>mg/kg</i>	10,32	TS EN ISO 17294-2 EPA 3051A
Nikel (Ni)	<i>mg/kg</i>	66,37	TS EN ISO 17294-2 EPA 3051A
Bakır (Cu)	<i>mg/kg</i>	47,39	TS EN ISO 17294-2 EPA 3051A
Çinko (Zn)	<i>mg/kg</i>	252,71	TS EN ISO 17294-2 EPA 3051A
Arsenik (As)	<i>mg/kg</i>	10,35	TS EN ISO 17294-2 EPA 3051A
Kadmiyum (Cd)	<i>mg/kg</i>	0,31	TS EN ISO 17294-2 EPA 3051A
Kurşun (Pb)	<i>mg/kg</i>	144,98	TS EN ISO 17294-2 EPA 3051A
Cıva (Hg)	<i>mg/kg</i>	201,53	EPA 6020A EPA 3051A

(*) ile işaretli parametre akreditasyon kapsam dışıdır.

Mühür / Tarih Seal / Date 	Raporu Hazırlayan Reporter Bora KÖKOVA 	Laboratuvar Sorumlusu Laboratory Officer Ömer ÖZCAN 	Onay Approval Tanık DURMUŞ 
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Bu rapor iki nüsha halinde düzenlenmiştir. Laboratuvarın yazılı izni olmadan kopyalanıp çoğaltılamaz. Analiz sonuçları, analizi yapan ve raporda tanımlanan numuneye aittir. İmzasız ve mühürsüz raporlar geçersizdir. **Bu Rapor Çevre Mevzuatınca Resmi İşlemlerde Kullanılamaz**
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DANIŞMANLIK MÜH. ENERJİ VE
DENİZCİLİK SAN. VE TİC. LTD. ŞTİ.**

ATIK DENEY RAPORU

ML-AT-16-027

W5-F3 GMC 12-11 (0,6-0,9)

KASIM 2016

Mustafa Kemal Mah. 2139. Sk. No:2/16 Çankaya/ANKARA

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027

11-16

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Caddesi 6/ 1,1-1,2 Tuzla/İstanbul
e-mail:info@mostlab.com web: www.mostlab.com

DENEY RAPORU / Testing Report

Rapor No / Rapor Tarihi	: ML-AT-16-027 / 30.11.2016
Müşterinin Adı / Adresi	: ARMADA EĞİTİM VE BELGELENDİRME DANIŞMANLIK MÜHENDİSLİK ENERJİ VE DENİZCİLİK SAN. TİC. LTD. ŞTİ. Mustafa Kemal Mah. 2139. Sk. No:2/16 Çankaya/ANKARA
İstek / Barkod Numarası	: ML160257.34 -150151401
Numuneyi Alan	: Firma tarafından gönderilmiştir
Numunenin Türü	: Atık
Numunenin Alındığı Nokta	: W5-F3 (GMC 12-11) - (0,6-0,9)
Numunenin Alma Yöntemi	: -
Mühür Durumu / Mühür No	: -
Numunenin Alındığı Tarih	: 11.11.2016
Numunenin Miktarı ve Kabul Durumu	: 1 Adet Cam Kap
Numunenin Kabul Tarihi	: 15.11.2016
Analiz Başlama ve Bitiş Tarihi	: 15.11.2016 / 24.11.2016
Rapor Sayfa Sayısı	: 3 Sayfa
Raporun Nüsha Sayısı	: 1 Nüsha
Açıklamalar	: Bu Rapor Çevre Mevzuatınca Resmi İşlemlerde Kullanılamaz.

Deney ve /veya ölçüm sonuçları, genişletilmiş ölçüm belirsizlikleri (olması halinde) ve deney metodları bu sertifikanın tamamlayıcı kısmı olan takip eden sayfalarda verilmiştir.

The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

Mühür
Seal

Tarih
Date

30.11.2016



Laboratuvar Müdürü

Head of the testing laboratory
Tark DURMUŞ





Bu rapor, laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürsüz raporlar geçersizdir. Deney sonuçları, yalnızca ölçüm sırasındaki proses koşullarıyla ilgilidir.

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Tablo 1. 150151401 Barkod Nolu - W5-F3 (GMC 12-11) (0,6-0,9) Noktasının Analiz Sonuçları

Analizi Yapılan Parametreler	Birim	Analiz Sonucu	Analiz Standardı
Benzo(a)anthracene	mg/kg	1,65	EPA 3550 C EPA 8270 D
Chrysene	mg/kg	1,71	EPA 3550 C EPA 8270 D
Benzo(b)fluoranthene	mg/kg	1,76	EPA 3550 C EPA 8270 D
Benzo(k)fluoranthene	mg/kg	0,70	EPA 3550 C EPA 8270 D
Indeno(1,2,3-cd)pyrene	mg/kg	1,33	EPA 3550 C EPA 8270 D
Dibenzo(a,h)anthracene	mg/kg	0,38	EPA 3550 C EPA 8270 D
Benzo(g,h,i)perylene	mg/kg	0,95	EPA 3550 C EPA 8270 D
Anthracene	mg/kg	0,41	EPA 3550 C EPA 8270 D
Pyrene	mg/kg	2,07	EPA 3550 C EPA 8270 D
Phenanthrene	mg/kg	2,59	EPA 3550 C EPA 8270 D
Fluorene	mg/kg	0,32	EPA 3550 C EPA 8270 D
Acenaphthylene	mg/kg	<0,1(LOQ*)	EPA 3550 C EPA 8270 D
Naphthalene	mg/kg	0,21	EPA 3550 C EPA 8270 D
Benzo(a)pyrene	mg/kg	0,52	EPA 3550 C EPA 8270 D
Fluoranthene	mg/kg	2,68	EPA 3550 C EPA 8270 D
Acenaphthene	mg/kg	0,18	EPA 3550 C EPA 8270 D

(LOQ*): Ölçülebilir, en alt limit

Mühür / Tarih Seal / Date 	Raporu Hazırlayan Reporter Bora KÖKOVA 	Laboratuvar Sorumlusu Laboratory Officer Ömer ÖZCAN 	Onay Approval Tarik DURMUŞ 
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Bu rapor iki nüsha halinde düzenlenmiştir. Laboratuvarın yazılı izni olmadan kopyalanıp çoğaltılamaz. Analiz sonuçları, analizi yapan ve raporda tanımlanan numuneye aittir. İmzasız ve mühürsüz raporlar geçersizdir. Bu Rapor Çevre Mevzuatınca Resmi İşlemlerde Kullanılmaz
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Appendix

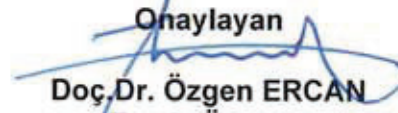
17

Analytical certificates MAM Tübitak wastes

TEST/ANALİZ/ÖLÇÜM RAPORU
(Endüstriyel Teknik Destek Hizmeti)

Rapor no : 45924173-125-05- 2177 / 7630
Rapor tarihi : 13 / 12 / 2016
Talep eden : ARMADA Eğitim ve Belgelendirme Dan. Müh. Enerji San. Tic. Ltd. Şti.
Adres : Mustafa Kemal Paşa Mah. Barış Sitesi 2108 Sok. No:1 Çankaya Ankara
Konusu : Klorlu pestisit analizi

Bu raporda yer alan sonuçlar, sadece incelenen numunelere aittir.

Onaylayan

Doç. Dr. Özgen ERCAN
Çevre ve Temiz Üretim Enstitüsü
Endüstriyel Hizmet Sorumlusu

Bu rapor ve sonuçları talepte bulunan kuruluş ve müşterilerince ticaret ve reklam amaçları ile kullanılamaz. Rapor tamamen veya kısmen çoğaltılamaz/yayınlanamaz.

Raporda (*) işaretli analizler akredite edilmiştir. İmzasız analiz raporları geçersizdir.

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Bu rapor 2 sayfa olup, 2 asıl (1 asıl müşteriye, 1 asıl Enstitü arşivine) olarak hazırlanmıştır.

Sayfa 1/2



Rapor no	: 45924173-125-05- 2177 17630	
Talep eden	: ARMADA Eğitim ve Belgelendirme Dan. Müh. Enerji San. Tic. Ltd. Şti.	
Talep edenin adresi	: Mustafa Kemal Paşa Mah. Barış Sitesi 2108 Sok. No:1 Çankaya Ankara	
Örnek	: Pestisit yığın örnekleri	Son kullanım tarihi :
Örnek sayısı	:9	Enstitü örnek kayıt no :168/1297-1,2,3,4,5,6,7,8,9
Örneğin getiriliş şekli	:Paketlenmiş	Kabul tarihi ve saati :23/11/2016
Kabul anındaki durumu	:Uygun	Analiz tarihi :23/11-13/12/2016
Şahit numune bilgileri : () Müşteriye iade () Şahit numune mevcut (x) Şahit numune alınmamıştır		

RAPOR

ARMADA Eğitim ve Belgelendirme Dan. Müh. Enerji San. Tic. Ltd. Şti.'ye ait dokuz (9) adet MERKİM arazisinde farklı noktalardan alınmış örneklerde ARMADA tarafından yapılan HCH ve DDT izomerleri analiz isteği ve sonrasında yapılacak değerlendirme ile uygun atık kodu önerilmesi isteği 23/11/2016 tarihinde yapılmış ve başvuru 6390 MAM evrak no ile kayıt altına alınmıştır. Bu kapsamda her bir numune hekzan ile çözülmüş ve GC-MS ile analiz edilmiştir. Analiz sonuçları mg/kg (ppm) olarak Tablo 1'de gösterilmiştir.

Tablo 1. HCH ve DDT ve izomerleri/türevleri analiz sonucu

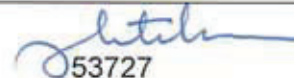
	1297-1	1297-2	1297-3	1297-4	1297-5	1297-6	1297-7	1297-8	1297-9
	W4-2D1	W4-4D1	W5-4D1	W6-2D1	W6-4D1	W1-D1	W6-10D2	WT-1D1	W6-14D3
alpha-HCH	29,904.9	123,544.2	10,157.2	188,218.9	1,574.7	633.4	56,210.0	16,155.8	123,924.3
beta-HCH	9,858.5	9,119.5	836.5	26,035.7	131.2	108.5	2,855.3	2,157.0	7,454.6
gamma-HCH	35,465.6	4,967.4	592.1	55,311.4	99.3	466.9	6,614.6	22,150.0	18,756.3
delta-HCH	40,863.7	2,086.2	110.4	35,231.8	98.0	768.1	8,518.2	33,306.2	18,888.0
4,4'-DDE	<5	<5	<5	<5	142.6	21.3	<5	<5	<5
4,4'-DDD	<5	<5	<5	<5	340.0	57.8	<5	11.2	<5
4,4'-DDT	48.2	<5	<5	17.3	62,724.8	7,773.7	5.9	596.0	16.0
Toplam (ppm)	116,140.9	139,717.3	11,696.2	304,815.1	65,110.7	9,829.7	74,204.0	74,376.2	169,039.3
%	11.6	14.0	1.2	30.5	6.5	1.0	7.4	7.4	16.9

DDT ve HCH molekülleri IARC'de kanserojen etki bakımından Grup 2B'de yer almaktadır. Yani Kategori 2'nin altında yer almaktadır. AYY'de numune içerisinde Kategori 1 ya da 2'de kanserojen etkisinin olduğu bilinen bir maddedeki toplam konsantrasyonun \geq %0,1 olması durumunda, numune tehlikeli olarak sınıflandırılır. Numuneler (168/1297-1,168/1297-2, 168/1297-3,168/1297-4, 168/1297-5, 168/1297-6, 168/1297-7,168/1297-8 ve 168/1297-9) içerisinde mevcut olan Kategori 2 kanserojen bileşik konsantrasyonu %0,1'lik sınır değerinin üzerindedir. Bu nedenle, numunelerin tamamı (168/1297-1,168/1297-2, 168/1297-3,168/1297-4, 168/1297-5, 168/1297-6, 168/1297-7,168/1297-8 ve 168/1297-9) AYY'ye göre "tehlikeli atık" olduğu sonucuna varılmıştır. **Bu numuneler için, AYY'de uygun olabilecek kodlar "02 01 08" (Tehlikeli maddeler içeren zirai kimyasal atıklar), "07 04 07" (Halojenli dip tortusu ve reaksiyon kalıntıları), "07 04 13" (Tehlikeli madde içeren katı atıklar), "16 03 05" (Tehlikeli maddeler içeren organik atıklar), "20 01 19" (Pestisitler) şeklinde ifade edilebilir. Ayrıca atık kodu hakkında ve atık işleme yönetimine ilişkin verilen bilgiler tavsiye niteliğinde olup, nihai karar mercii T.C. Çevre ve Şehircilik Bakanlığı'dır.**

Açıklamalar:

Sorumlu İmzalar:


 53688


 53727

Bu rapor ve sonuçları talepte bulunan kuruluş ve müşterilerince ticaret ve reklam amaçları ile kullanılamaz. Rapor tamamen veya kısmen çoğaltılamaz/yayınlanamaz.

Raporda (*) işaretli analizler akredite edilmiştir.

İmzasız analiz raporları geçersizdir.

Bu rapor 2 sayfa olup, 2 asıl (1 asıl müşteriye, 1 asıl Enstitü arşivine) olarak hazırlanmıştır.

Sayfa 2/2



Laboratory Services Inc.



MOSTLAB Laboratuvar Hizmetleri A.Ş.

**ARMADA EĞİTİM VE BELGELENDİRME
DANIŞMANLIK MÜH. ENERJİ VE
DENİZCİLİK SAN. VE TİC. LTD. ŞTİ.**

ATIK DENEY RAPORU

**ML-AT-16-028
(3 NUMARALI NUMUNE)**

ARALIK 2016

Mustafa Kemal Mah. 2139. Sk. No:2/16 Çankaya/ANKARA

TÜRKAK
TÜRK AKREDİTASYON KURUMU
TURKISH ACCREDITATION AGENCY



MOSTLAB Laboratuvar Hizmetleri A.Ş.



**İstanbul Deri Organize Sanayi Bölgesi Kazlıçeşme
Caddesi 6/ 1,1-1,2 Tuzla/İstanbul
e-mail:info@mostlab.com web: www.mostlab.com**

AB-0971-T

ML-AT-16
028

12-16

DENEY RAPORU / Testing Report

Rapor No / Rapor Tarihi	: ML-AT-16-028 / 21.12.2016
Müşterinin Adı / Adresi	: ARMADA EĞİTİM VE BELGELENDİRME DANIŞMANLIK MÜHENDİSLİK ENERJİ VE DENİZCİLİK SAN. TİC. LTD. ŞTİ. Mustafa Kemal Mah. 2139. Sk. No:2/16 Çankaya/ANKARA
İstek / Barkod Numarası	: ML160296.34 -150163803
Numuneyi Alan	: Firma tarafından gönderilmiştir
Numunenin Türü	: Atık
Numunenin Alındığı Nokta	: 3 Numaralı Numune
Numunenin Alma Yöntemi	: -
Mühür Durumu / Mühür No	: -
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Numunenin Kabul Tarihi	: 12.12.2016
Analiz Başlama ve Bitiş Tarihi	: 12.12.2016 / 21.12.2016
Rapor Sayfa Sayısı	: 2 Sayfa
Raporun Nüsha Sayısı	: 1 Nüsha
Açıklamalar	: Bu Rapor Çevre Mevzuatınca Resmi İşlemlerde Kullanılamaz.

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The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

Mühür
Seal

Tarih
Date
21.12.2016

Laboratuvar Müdürü
Head of the testing laboratory
Tarık DÜRMÜŞ





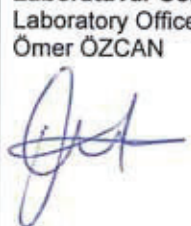

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Tablo 1. 150163803 Barkod Nolu – 3 Numaralı Numune Analiz Sonuçları

Analizi Yapılan Parametreler	Birim	Analiz Sonucu	Analiz Standardı
Alpha BHC (Alpha HCH)	mg/kg	>200000	EPA 3550 C EPA 8270 D
Beta BHC (Beta HCH)	mg/kg	98908,27	EPA 3550 C EPA 8270 D
Gama BHC (Lindane)	mg/kg	16943,50	EPA 3550 C EPA 8270 D
Delta BHC (Delta HCH)	mg/kg	4063,48	EPA 3550 C EPA 8270 D
4,4'-DDE	mg/kg	0,391	EPA 3550 C EPA 8270 D
4,4'DDD	mg/kg	5,588	EPA 3550 C EPA 8270 D
4,4'DDT	mg/kg	20,941	EPA 3550 C EPA 8270 D

*:LOQ, Ölçülebilir En Alt Limit

Mühür / Tarih Seal / Date	Raporu Hazırlayan Reporter M.Can ÖZDEMİR	Laboratuvar Sorumlusu Laboratory Officer Ömer ÖZCAN	Onay Approval Tarık DURMUŞ
			

Bu rapor iki nüsha halinde düzenlenmiştir. Laboratuvarın yazılı izni olmadan kopyalanıp çoğaltılamaz. Analiz sonuçları, analizi yapan ve raporda tanımlanan numuneye aittir. İmzasız ve mühürsüz raporlar geçersizdir. Bu Rapor Çevre Mevzuatınca Resmi İşlemlerde Kullanılamaz
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Laboratory Services Inc.



MOSTLAB Laboratuvar Hizmetleri A.Ş.

**ARMADA EĞİTİM VE BELGELENDİRME
DANIŞMANLIK MÜH. ENERJİ VE
DENİZCİLİK SAN. VE TİC. LTD. ŞTİ.**

ATIK DENEY RAPORU

**ML-AT-16-029
(6 NUMARALI NUMUNE)**

ARALIK 2016

Mustafa Kemal Mah. 2139. Sk. No:2/16 Çankaya/ANKARA

TÜRKAK
TÜRK AKREDİTASYON KURUMU
TURKISH ACCREDITATION AGENCY



MOSTLAB Laboratuvar Hizmetleri A.Ş.



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e-mail:info@mostlab.com web: www.mostlab.com**

AB-0971-T

ML-AT-16
029

12-16

DENEY RAPORU / Testing Report



Rapor No / Rapor Tarihi	: ML-AT-16-029 / 21.12.2016
Müşterinin Adı / Adresi	: ARMADA EĞİTİM VE BELGELENDİRME DANIŞMANLIK MÜHENDİSLİK ENERJİ VE DENİZCİLİK SAN. TİC. LTD. ŞTİ. Mustafa Kemal Mah. 2139. Sk. No:2/16 Çankaya/ANKARA
İstek / Barkod Numarası	: ML160296.34 -150163806
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Numunenin Türü	: Atık
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Numunenin Alındığı Tarih	: -
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The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

Mühür Seal 	Tarih Date 21.12.2016	Laboratuvar Müdürü Head of the testing laboratory Tarkan DÜRMÜŞ 
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Bu rapor, laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürsüz raporlar geçersizdir. Deney sonuçları, yalnızca ölçüm sırasındaki proses koşullarıyla ilgilidir.

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Tablo 1. 150163806 Barkod Nolu – 6 Numaralı Numune Analiz Sonuçları

Analizi Yapılan Parametreler	Birim	Analiz Sonucu	Analiz Standardı
Alpha BHC (Alpha HCH)	mg/kg	64,85	EPA 3550 C EPA 8270 D
Beta BHC (Beta HCH)	mg/kg	6,38	EPA 3550 C EPA 8270 D
Gama BHC (Lindane)	mg/kg	18,16	EPA 3550 C EPA 8270 D
Delta BHC (Delta HCH)	mg/kg	9,53	EPA 3550 C EPA 8270 D
4,4'-DDE	mg/kg	846,77	EPA 3550 C EPA 8270 D
4,4'DDD	mg/kg	4058,17	EPA 3550 C EPA 8270 D
4,4'DDT	mg/kg	61191,56	EPA 3550 C EPA 8270 D

*:LOQ, Ölçülebilir En Alt Limit

Mühür / Tarih Seal / Date	Raporu Hazırlayan Reporter M.Can ÖZDEMİR	Laboratuvar Sorumlusu Laboratory Officer Ömer ÖZCAN	Onay Approval Tarkan DURMUŞ
			

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Appendix

18

Logbook Merkim site inventory

Note

Handled by Boudewijn Fokke

Date 24 November 2016

Reference N003-1239389BFF-beb-V01-NL

Logbook Merkim Site Inventory

Project number Tauw	1239389
Project name	POPs stockpile Merkim site, Kocaeli, Turkey
	Detailed site survey/assessment, operational planning, environment/safeguards assessment, training and supporting technical supervision related to the removal of POPs
	Phase 1 and Task 2
Task name	Undertaking detailed site survey/mapping, quantity estimation and supplementary analytical assessment

Date: Tuesday 1-11-2016

Persons present on-site: Guido van de Coterlet, Necdet Altay, Birkan Erdem and Onur Cicek

Description of activities: In clean (1), de-contamination (2) and contaminated zone (3)

- Toolbox meeting including Task based Risk Analyses
- Installation zoning
- Site preparation
- Completing installation of zoning
- Mobilization cherry picker on-site



Figure 1 Left the installation of zoning and right the entrance to the de-contamination zone

Date: Wednesday 2-11-2016

Persons present on-site: Guido van de Coterlet, Necdet Altay, Birkan Erdem and Onur Cicek

Description of activities: In contaminated zone (3)

- Start Work Analyses
- Site preparation
- Sampling POP-pesticides in Warehouse 1, 4 and 5

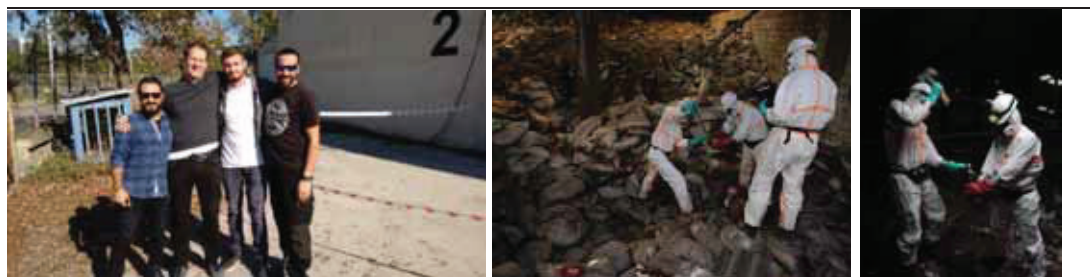


Figure 2 Left the team from left to right, the outside watch Necdet Altay, the team leader Guido van de Coterlet, the forklift driver Onur Cicek and the team leader assistance Birkan Erdem, middle and right sampling POP-pesticides Warehouse 5

Date: Thursday 3-11-2016

Persons present on-site: Guido van de Coterlet, Necdet Altay, Birkan Erdem, Onur Cicek and Boudewijn Fokke

Description of activities: In contaminated zone (3)

- Start Work Analyses
- Sampling POP-pesticides in Warehouse 1, 4 and 5
- Sampling POP-pesticides in Warehouse 6
- Composite sample preparation



Figure 3 Left all sample locations are marked with spray paint, middle samples of the POP-pesticides from Warehouse 6 and right on-site composite sample preparation

Date: Friday 4-11-2016

Persons present on-site: Guido van de Coterlet, Necdet Altay, Birkan Erdem, Onur Cicek and Boudewijn Fokke

Description of activities: In contaminated zone (3)

- Start Work Analyses
- Sampling POP-pesticides in Warehouse 6
- Site visit Serife Ercel
- Floor dust sampling
- Mobilization forklift



Figure 4 Left sampling the POP-pesticides in Warehouse 6, middle Warehouse 5 and 5 and right 1 m³ used to sample the POP-pesticides on the floor in Warehouse 3

Date: Saturday 5-11-2016

Persons present on-site: Guido van de Coterlet, Necdet Altay, Birkan Erdem, Onur Cicek and Boudewijn Fokke

Description of activities: In contaminated zone (3)

- Start Work Analyses
- Sampling POP-pesticides in Warehouse 6

- Floor dust sampling
- Clearing groundwater well present in Warehouse 2
- Prepare composite samples for preliminary characterization at The MOST lab for transport to AL-West in the Netherlands
- Reconnaissance survey of drums by using cherry picker

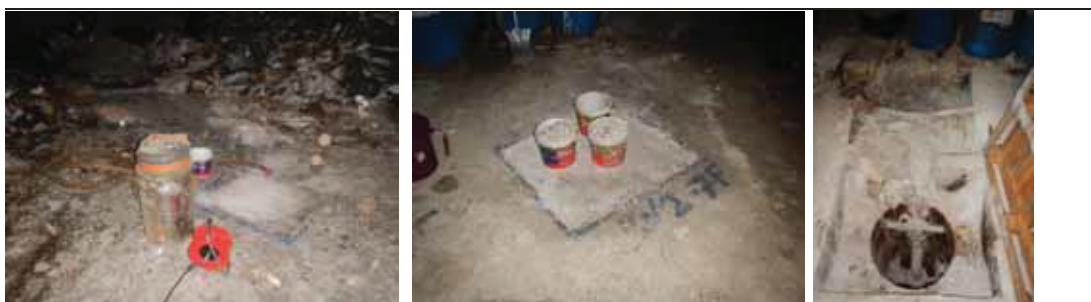


Figure 5 Cleaned 1 m³ of the floor and floor sweep sampled in Warehouse 4 and left the groundwater well in Warehouse 2

Date: Monday 7-11-2016

Persons present on-site: Guido van de Coterlet, Necdet Altay, Birkan Erdem and Onur Cicek

Description of activities: In contaminated zone (3) and de-contamination zone (cleaning of cherry picker)

- Start Work Analyses
- Preparation drum inventory by binding drums on pallets at the top layer to prevent drums falling off using cherry picker
- Completion clearing of groundwater well in Warehouse 2
- Clearing pit in Warehouse 1
- To work safe the different methods of drum inventory tested and the most efficient manner was determined
- Demobilization cherry picker



Figure 6 Left and middle binding drums on pallets on top row before moving them for the inventory and right pit filled with POP pesticides and rubble in Warehouse 1

Date: Friday 11-11-2016

Persons present on-site: Guido van de Coterlet, Necdet Altay, Birkan Erdem, Onur Cicek, Boudewijn Fokke, Staff Izaydas and two people of the subcontractor concrete coring

Description of activities: In contaminated zone (3)

- Start Work Analyses
- Concrete coring to sample the concrete floor in the various Warehouses
- Completion clearing of groundwater well in Warehouse 2
- Clearing pit in Warehouse 1
- Site visit Serife Ercel
- Site visit representative Izaydas to take samples for test burn
- Drum inventory
- Building block sampling



Figure 7 Left concrete coring, middle the concrete core and right the sliced concrete core

Date: Saturday 12-11-2016

Persons present on-site: Guido van de Coterlet, Necdet Altay, Birkan Erdem, Onur Cicek and Boudewijn Fokke

Description of activities: In contaminated zone (3)

- Start Work Analyses
- Drum inventory
- Building block sampling
- Sampled blocks processed for chemical analyses
- Concrete cores sliced and processed for chemical analyses
- Concrete floor inspection



Figure 8 Left different types of 'plastic' drums in the various warehouses, middle and right the empty and full steel drums

Date: Sunday 13-11-2016

Persons present on-site: Guido van de Coterlet, Necdet Altay, Birkan Erdem, Onur Cicek and Boudewijn Fokke

Description of activities: In contaminated zone (3)

- Start Work Analyses
- Drum inventory
- Specific weight measurements of the packaging in Warehouse 4 and 5
- Installation of boreholes and soil sampling at two locations under the concrete warehouse floor



Figure 9 right removing building block from wall for sampling, middle the repaired clean sample locations and right the repaired contaminated sample locations

Date: Monday 14-11-2016

Persons present on-site: Guido van de Coterlet, Necdet Altay, Birkan Erdem, Onur Cicek, Boudewijn Fokke and subcontractor 3-D scanning crew (two people)

Description of activities: In clean (1), de-contamination (2) and contaminated zone (3)

- Start Work Analyses
- Drum inventory
- Toolbox and instructions use PPE 3-D scanning crew
- 3-D scanning
- Preparation of POP pesticides samples for final characterization at TUBTAK

Date: Tuesday 15-11-2016

Persons present on-site: Guido van de Coterlet, Necdet Altay, Birkan Erdem, Onur Cicek and Boudewijn Fokke

Description of activities: In clean (1) and contaminated zone (3)

- Start Work Analyses
- Drum inventory
- Specific weight measurements different waste types
- Outside terrain inventory and surveying
- Evaluation HSE performance



Figure 10 The specific weight measurements of the different kind of POP-pesticides (left dry HCH isomers, dry powder possible DDT and right wet, paste, POP pesticides), middle the blocked and damaged gutter to drain rainwater and right the North-East part of the Warehouse

Date: Wednesday 16-11-2016

Persons present on-site: Guido van de Coterlet, Necdet Altay, Birkan Erdem, Onur Cicek and Boudewijn Fokke

Description of activities: In clean (1), de-contaminated (2) and contaminated zone (3)

- Start Work Analyses
- Drum inventory
- Preparation of POP pesticides samples for final characterization at TUBTAK
- Processing field data
- Cleaning forklift
- Sorting waste such as wasted pallet and pallet wood, empty packaging and scrap metal



Figure 11 Left the last day of the drum inventory in Warehouse 2, middle the collected large PE drums in Warehouse 3 and right part of the empty collected drums in Warehouse 1

Date: Thursday 17-11-2016

Persons present on-site: Guido van de Coterlet, Necdet Altay and Boudewijn Fokke

Description of activities: In clean (1) and contaminated zone (3)

- Outside terrain inventory and surveying
- Checking field records
- Demobilization forklift
- Demarcating inventoried materials
- Cleaning hand tools and equipment
- Processing field data



Figure 12 Left the demarcated drums, middle the collected drum covers and scrap metal drums and right the PE drums filled by SAVA and ready for transport
