

CETI

Centar za ekotoksikološka ispitivanja Podgorica d.o.o.
LLC Center for Ecotoxicological Research Podgorica



CETI 5100.101.01

SECTOR FOR LABORATORY DIAGNOSTIC AND RADIATION PROTECTION

TESTING REPORT

| | |
|----------------------|----------------------------|
| Type of test | Chemical analysis of waste |
| Report number | 97/11/1 |
| Date of report issue | 09.05.2019. |

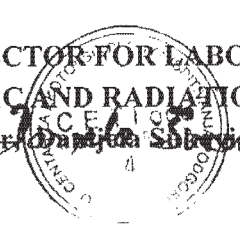
CUSTOMER INFORMATION

| | |
|-----------------|-------------|
| Customer name | VALGO |
| Date of request | 13.04.2019. |

SAMPLE INFORMATION

| | |
|----------------------------|--------------------------------------|
| Date of delivery of sample | 08.04.2019. |
| Sample type | Grit waste (Porto Montenegro, Tivat) |
| Sample code | Grit G2 |
| Required testing | Chemical analysis of grit waste |
| Sampled by | VALGO |
| Laboratory sample ID | 97/11 |

SECTOR FOR LABORATORY
DIAGNOSTIC AND RADIATION PROTECTION
Director: *[Signature]* spec. tox. chem.



Statement:

1. The results of tests related only to the tested sample.
2. Report on testing can be reproduced only as a whole.
3. It is not allowed to display the name "Center for Eco-Podgorica" LLC in the text of the declaration, not for advertising purposes, without the approval of the Centre.

UNIT FOR CHEMICAL ANALITICS
 UNIT FOR ANALITICS OF CHEMICAL ELEMENTS
 RESULTS OF CHEMICAL ANALYSIS

| Laboratory sample ID | 97/11 | | |
|-----------------------------|---------|------------|-------------------|
| Sample code | Grit G2 | | |
| Parameter | Units | Results | Method |
| Total content** | | | |
| As | mg/kg | <3 | BS EN 13656:2002* |
| Ba | mg/kg | 940±92 | BS EN 13656:2002* |
| Cd | mg/kg | 0.70±0.09 | BS EN 13656:2002* |
| Cr total | mg/kg | 13615±1416 | BS EN 13656:2002* |
| Cu | mg/kg | 1768±198 | BS EN 13656:2002* |
| Hg | mg/kg | 0.4 | AMA-112 |
| Mo | mg/kg | 1.0 | BS EN 13656:2002 |
| Ni | mg/kg | 827±90 | BS EN 13656:2002* |
| Pb | mg/kg | 330±35 | BS EN 13656:2002* |
| Sb | mg/kg | 167 | BS EN 13656:2002 |
| Se | mg/kg | <2 | BS EN 13656:2002 |
| Zn | mg/kg | 984±99 | BS EN 13656:2002* |
| Leaching | | | |
| Leaching test L/S=10 l/kg** | | | MEST EN 12457-2 |
| As | mg/kg | <0.25 | ENV 12506* |
| Ba | mg/kg | 0.50±0.05 | ENV 12506* |
| Cd | mg/kg | <0.01 | ENV 12506* |
| Cr total | mg/kg | 0.35±0.04 | EPA 200.7* |
| Cu | mg/kg | 0.26±0.02 | ENV 12506* |
| Hg | mg/kg | <0.01 | ENV 13370* |
| Mo | mg/kg | <0.1 | ENV 12506* |
| Ni | mg/kg | 0.52±0.04 | ENV 12506* |
| Pb | mg/kg | 0.24±0.02 | ENV 12506* |

REPORT OF TESTING No. 97/11/1

| | | | |
|-----------------------|-------|----------|------------|
| Sb | mg/kg | <0.2 | EPA 200.7* |
| Se | mg/kg | <0.1 | EPA 200.7* |
| Zn | mg/kg | 1.4±0.1 | ENV 12506* |
| Chloride | mg/kg | 12±1 | ENV 12506* |
| Fluoride | mg/kg | 5.7±0.5 | ENV 13370* |
| Sulphate | mg/kg | 176±18 | ENV 12506* |
| Phenol index | mg/kg | 0.05 | ENV 13370 |
| FS (soluble fraction) | mg/kg | 1810±164 | SMEW 2540C |

* - accredited method

** - dry weight

HEAD OF UNIT FOR ANALITICS
FOR OF CHEMICAL ELEMENTS

Janeza Šušteršič

UNIT FOR ANALITICS IN GAS CHROMATOGRAPHY
 AND PREPARATION OF ENVIRONMENTAL SAMPLES
 RESULTS OF CHEMICAL ANALYSIS

| Laboratory sample ID | 97/11 | | |
|--|---------|-----------|----------------------|
| Sample code | Grit G2 | | |
| Parameter | Units | Results | Method |
| Total content** | | | |
| Total Organic Carbon (TOC) | % | 0.95 | DIN EN 15936:2012-11 |
| Hydrocarbons (C10 to C40) | mg/kg | 43 | ISO 16703:2004 |
| Polycyclic aromatic hydrocarbons (PAH): | | | |
| Naphtalene | mg/kg | 0.12±0.03 | EPA 8270 C* |
| 2-Methylnaphtalene | mg/kg | 0.39±0.11 | EPA 8270 C* |
| 1-Methylnaphtalene | mg/kg | 0.33±0.09 | EPA 8270 C* |
| Acenaphtylene | mg/kg | 0.05±0.01 | EPA 8270 C* |
| Acenaphtene | mg/kg | 0.53±0.10 | EPA 8270 C* |
| Fluorene | mg/kg | 0.34±0.06 | EPA 8270 C* |
| Phenanthrene | mg/kg | 2.7±0.4 | EPA 8270 C* |
| Anthracene | mg/kg | 0.24±0.03 | EPA 8270 C* |
| Fluoranthene | mg/kg | 2.9±0.4 | EPA 8270 C* |
| Pyrene | mg/kg | 2.0±0.3 | EPA 8270 C* |
| Benzo(a)anthracene | mg/kg | 0.92±0.12 | EPA 8270 C* |
| Chrysene | mg/kg | 1.0±0.2 | EPA 8270 C* |
| Benzo(b)fluoranthene | mg/kg | 1.9±0.3 | EPA 8270 C* |
| Benzo(k)fluoranthene | mg/kg | 0.65±0.16 | EPA 8270 C* |
| Benzo(a)pyrene | mg/kg | 1.5±0.2 | EPA 8270 C* |
| Indeno(1,2,3-cd)pyrene | mg/kg | 1.2±0.2 | EPA 8270 C* |
| Dibenzo(a,h)anthracene | mg/kg | 0.28±0.07 | EPA 8270 C* |
| Benzo(g,h,i)perylene | mg/kg | 1.0±0.2 | EPA 8270 C* |
| ΣPAHs | mg/kg | 18±3 | EPA 8270 C* |

REPORT OF TESTING No. 97/11/1

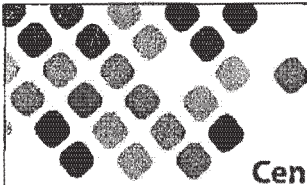
| | | | |
|---|-------|-------------|-------------------|
| Polychlorinated biphenyls (PCB): | | | |
| PCB 18 | mg/kg | 0.005±0.001 | EPA 8270 C* |
| PCB 28 | mg/kg | 0.005±0.001 | EPA 8270 C* |
| PCB 31 | mg/kg | 0.005±0.001 | EPA 8270 C* |
| PCB 52 | mg/kg | <0.002 | EPA 8270 C* |
| PCB 44 | mg/kg | <0.002 | EPA 8270 C* |
| PCB 101 | mg/kg | 0.005±0.001 | EPA 8270 C* |
| PCB 149 | mg/kg | 0.005±0.001 | EPA 8270 C* |
| PCB 118 | mg/kg | <0.002 | EPA 8270 C* |
| PCB 153 | mg/kg | <0.002 | EPA 8270 C* |
| PCB 138 | mg/kg | <0.002 | EPA 8270 C* |
| PCB 180 | mg/kg | <0.002 | EPA 8270 C* |
| PCB 194 | mg/kg | <0.002 | EPA 8270 C* |
| TBT | mg/kg | 31±4 | ISO 23161:2009* |
| Leaching | | | |
| Leaching test L/S=10 l/kg** | | | MEST EN 12457-2 |
| Total Organic Carbon (TOC) | mg/kg | 185 | MEST EN 1484:2013 |

* - accredited method

** - dry weight

HEAD OF UNIT FOR ANALITICS IN GAS
 CHROMATOGRAPHY AND PREPARATION
 FOR OF ENVIRONMENTAL SAMPLES

Harunović B.



CETIO

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CETI 5100.101.01

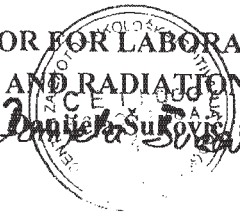
SECTOR FOR LABORATORY DIAGNOSTIC AND RADIATION PROTECTION

REPORT OF WASTE CATEGORIZATION

| | |
|-----------------------------------|---|
| Report number: 97/11/1 | <input type="checkbox"/> TRANSBOUNDARY MOVEMENT |
| Date of report issue: 09.05.2019. | <input type="checkbox"/> TRETMENT |
| | <input type="checkbox"/> DISPOSAL |

| INFORMATION ON THE REQUEST SUBMITTER | | | |
|---|--|--------|---------------------------------------|
| Name of request submitter: VALGO, MONTENEGRO | | | |
| Address: Trg Nikole Kovačevića br. 10/17, 81000 Podgorica | | | |
| Contact person: Saša Mrvaljević | Tel:+38267845290 | FaX: / | E-mail: sasamrvaljevic12@gmail.com |
| GENERAL DATA | | | |
| 1. | Waste: Grit | | |
| 2. | Waste producer: Porto Montenegro | | |
| 3. | The owner of waste: Porto Montenegro, Tivat | | |
| 4. | Method of waste generation: / | | |
| 5. | Stored amount of waste: / | | |
| 6. | Physical property of waste: | | |
| | <input type="checkbox"/> powder | | |
| | <input checked="" type="checkbox"/> solid matter | | |
| | <input type="checkbox"/> viscous matter | | |
| | <input type="checkbox"/> paste | | |
| | <input type="checkbox"/> sludge | | |
| | <input type="checkbox"/> liquid substance | | |
| | <input type="checkbox"/> gaseous | | |
| | <input type="checkbox"/> Other (specify) | | |
| SAMPLE INFORMATION | | | |
| 1. | Waste: Grit | | |
| 2. | Place of sampling: Porto Montenegro, Tivat | | |
| 3. | Sampling date: 08.04.2019. | | |
| 4. | Method of sampling: / | | |

| | |
|--------------------------------|--|
| 5. | Sampling performed by: Valgo |
| 6. | Laboratory sample ID: 97/11 |
| 7. | Other information about the sample: / |
| CLASSIFICATION OF WASTE | |
| 1. | Catalog number of waste according to the Waste Catalog: |
| 2. | The rationale for determining the catalog number of waste: In accordance with the waste classification given in "Rulebook on the classification of waste and waste catalog ("Off. Gazette of Montenegro", No. 59/13 and 83/16)", waste Grit has been classified as: Group: 12 Wastes from shaping and physical and mechanical surface treatment of metals and plastics Subgroup: 12 01 wastes from shaping and physical and mechanical surface treatment of metals and plastics Types: 12 01 17 Waste blasting material other than those mentioned in 12 01 16* |
| 3. | According to the "Rulebook on the classification of waste and waste catalog ("Off. Gazette of Montenegro", No. 59/13 and 83/16)"and according to the characteristics the waste is classified as non hazardous waste. |
| ATTACHMENTS: | |
| | / |


 SECTOR FOR LABORATORY
 DIAGNOSTIC AND RADIATION PROTECTION
 Director, *Danijel Sušković* sp. tox. chem.