ACTIVITIES

- Performing accredited sampling and analysis
- Assessment of measurement results according to the rules and regulations, professional advices, remedy solutions,
- Environmental status investigation
- Laboratory performance and on-site implementation of environmental remedy technologies
- Development of drinking water and sewage water technologies, laboratory experiments,
- Overview of erroneous products and technologies, investigation of causes and consequences,
- Co-operation with university and academic research locations, participation in theoretical tuition and providing practicing workplaces.

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Layout: Varga Gábor György - www.artpixel.hu

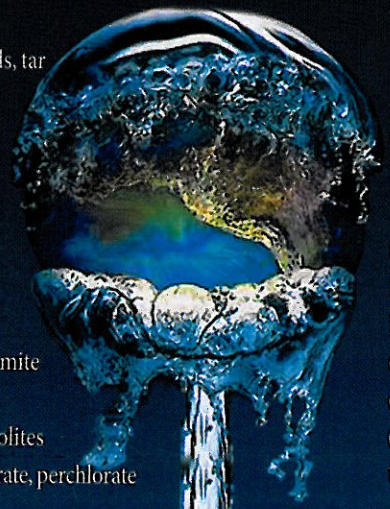
BÁLINT ANALITIKA LTD.

ISO/IEC 17025:2005 ACCREDITED LABORATORY

"As soon as you know what is the question you will understand the answer, too", by Douglas Adams

DRINKING WATER, WATER EXTRACTING FACILITIES

pH, conductivity, temperature, dissolved oxygen
Turbidity
Active chlorine
COD,
Ammonium, ammonia
Sodium equivalent (%)
Phosphorus, Chromium (VI)
Sulphide, sulphite, sulphate
Nitrate, nitrite, fluoride, phosphate
Hydrocarbonates, carbonates, alkalinity, hardness
Phenols (phenols index)
Cyanide, thiocyanate
Metals, toxic metals
Extractable compounds, tar
AOX
DOC, TOC
As(III), As(V)
Fe(II), Fe(III)
Selenite, selenate
Iodine, iodide, iodite
Hormones
Bromine, bromide, bromite
Pharmaceuticals
Pharmaceutical metabolites
Chloride, chlorite, chlorate, perchlorate
Toxicity tests
(Fish, Daphnia, algae, bud plants)
Bacteria examinations



(Fish, Daphnia, algae, bud plants)
Bacteria examinations
TPH C_5-C_{40}
BTEX
VOCl
Chlorinated aromatic compounds
PAH
Phenol GC-MS
Cholophenols, chloronaphtalines
PCB
Dioxins and furans
Polibrominated biphenyls
Polibrominated biphenyl ethers
Pesticides
Anilin, hydrazine, EDTA
Organic solvents
Tetrahydrofuran, tetrahydrothiophene
Nitroaromatic compounds
Chrloroanilines
Phthalates
Plasticisers
Organotin compounds
Organo mercury compounds
Octyl, nonyl phenols
UV oil index

UNDERGROUND WATERS

pH, conductivity, temperature, dissolved oxygen
Turbidity
Active chlorine
COD
Ammonium, ammonia
Sodium equivalent (%)
Phosphorus, Chromium (VI)
Sulphide, sulphite, sulphate
Nitrate, nitrite, fluoride, phosphate
Hydrocarbonates, carbonates, alkalinity, hardness
Phenols (phenols index)
Cyanide, thiocyanate
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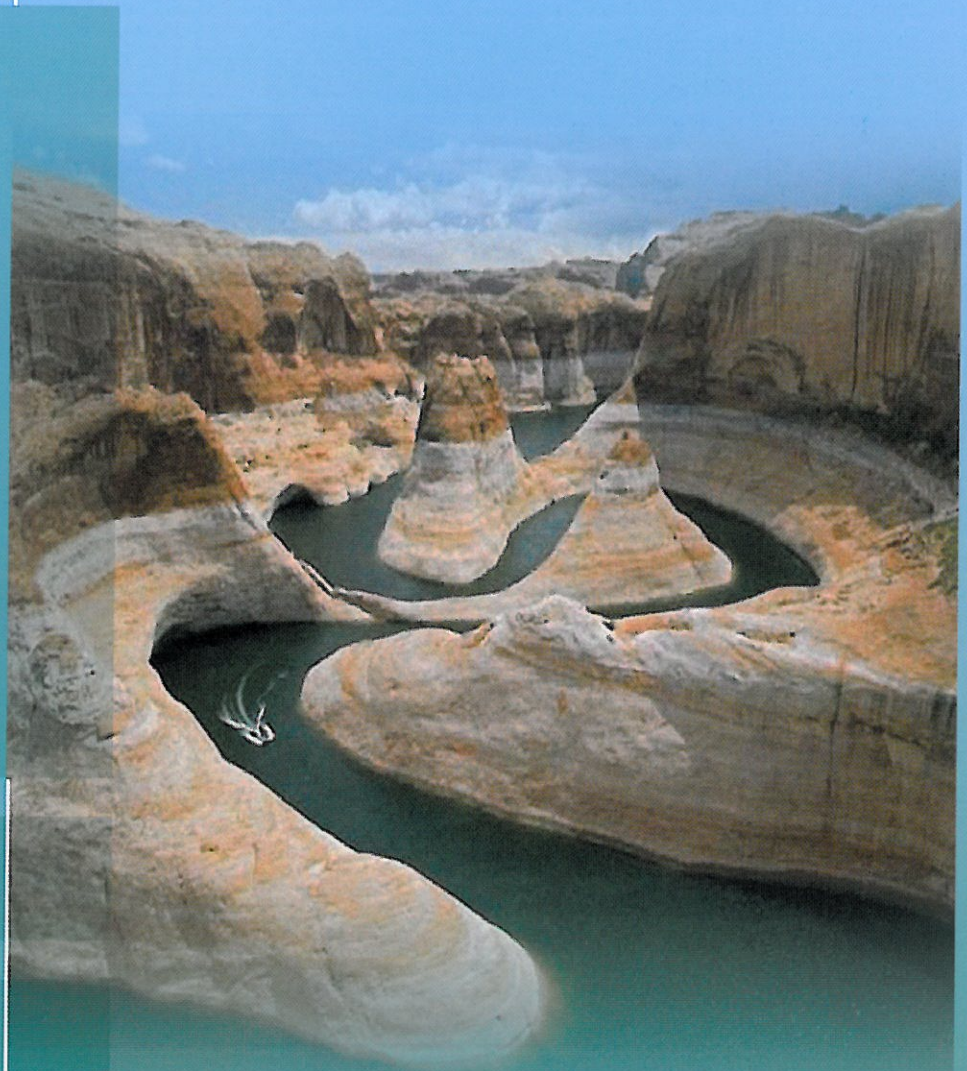
Nitro aromatic compounds
Chrloroanilines
Phthalates
Plasticisers
Organotin compounds
Organo mercury compounds
Octyl,nonyl phenols
UV oil index

SURFACE WATERS



pH, conductivity, temperature, COD, BOD_5, N total, 10-minute settling material, total salts, NH_4, total suspended material, sodium equivalent (%), phosphorus, chromium (VI), sulphide, sulphite, sulphate, nitrate, nitrite, fluoride, phosphate, hydrocarbonate, carbonate, alkalinity, hardness, phenols, cyanide, thiocyanate, turbidity, active chlorine, dissolved oxygen, metals, toxic metals, Extractable compounds, tar, AOX, DOC, TOC, TIC, As(III), AS(V), Fe(II), Fe(III), selenite, selenate, iodine, iodate, chloride, chlorite, perchlorate, bromine, bromide, bromate, TPH C_5-C_{40}, BTEX, VOCl, chlorinated aromatic compounds, PAH,

WASTE WATER AND WASTE WATER SLUDGE

chlorophenols, chloronaphtalines, PCB, PBB, PBE, PCDD/PCDE, pesticides, aniline, hydrazine, EDTA, non water soluble organic solvents, alcohols, phthalates, tetrahydrofuran, tetrahydrothiophene, nitro aromatics, chloroanilines, plasticiers, organotin compounds, organo mercury compounds, octyl,nonyl phenols, UV oil index, pharmaceuticals, pharmaceutical metabolites, hormones, toxicity tests (fish, Daphnia, algae, bud plants), saprobity index, bacteria tests.

SOIL

pH, conductivity, temperature,
Total nitrogen
COD
Ammonium, ammonia
Sodium equivalent (%)
Phosphorus, Chromium (VI)
Sulphide, sulphite, sulphate
Nitrate, nitrite, fluoride, phosphate
Hydrocarbonates, carbonates, basicity, hardness
Phenols (phenols index)
Cyanide, thiocyanate
Metals, toxic metals
Extractable compounds, tar
AOX
DOC, TOC, TC ,IC,
As(III), As(V)
Fe(II), Fe(III)
Selenite, selenate
Iodine, iodide, iodite
Chloride, chlorite, chlorate, perchlorate
Bromine, bromide, bromite
Pharmaceuticals
Pharmaceutical metabolites
Hormones
Asbestos
TPH C_5-C_{40}
BTEX
VOCl
Chlorinated aromatic compounds
PAH
Phenol GC-MS
Cholophenols, chloronaphtalines
PCB
Dioxins and furans
Polibrominated biphenyls
Polibrominated biphenyl ethers
Pesticides
Anilin, hydrazine, EDTA
Alcohols, tetrahydrofuran, tetrahydrothiophene
Nitro aromatic compounds
Chrloroanilines
Phthalates
Plasticisers
Organotin compounds
Organo mercury compounds
Octyl,nonyl phenols
Explosives' remnants

COMMUNAL AND HAZARDOUS WASTES

pH, conductivity
ANC/BNC
COD
Ammonium, ammonia
Sodium equivalent (%)
Phosphorus, Chromium (VI)
Sulphide, sulphite, sulphate
Nitrate, nitrite, fluoride, phosphate
Phenols (phenols index)
Cyanide, thiocyanate
Metals, toxic metals
Extractable compounds, tar
AOX
DOC, TOC
Iodine, iodide, iodite
Chloride, chlorite, chlorate, perchlorate
Bromine, bromide, bromite
Pharmaceuticals
Pharmaceutical metabolites
Hormones
Toxicity tests
(Fish, Daphnia, algae, bud plants)
Bacteria examinations
Asbestos
$TPHC_5$-C_{40}
BTEX
VOCl
Chlorinated aromatic compounds
PAH
Phenol GC-MS
Cholophenols, chloronaphtalines
PCB
Dioxins and furans
Polibrominated biphenyls
Polibrominated biphenyl ethers
Pesticides
Anilin, hydrazine, EDTA
Tetrahydrofuran, tetrahydrothiophene
Nitro aromatic compounds
Chrloroanilines
Phthalates
Plasticisers
Organotin compounds
Organo mercury compounds
Octyl,nonyl phenols

AIR

EMISSION

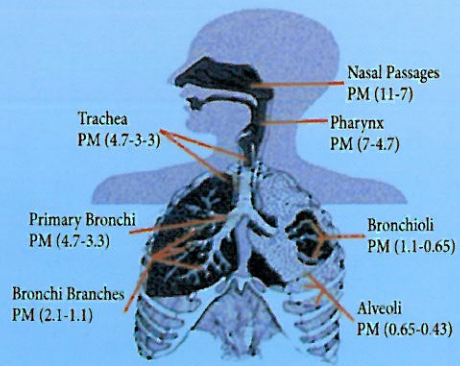
- Flue gas measurements,
  (CO, NO_X, SO_2, CO_2, O_2, TOC, CH_4, Methane/NMCH)
- Solid materials, PM10, PM2,5, PM1, metals,
- BTEX, hydrocarbons, esters, alcohols, aldehydes, glycols
- Ketons, isocyanates, phthalates, etc.
- Dioxins and furans, PAH, PCB,
- Hydrochloric acid, sulphuric acid, nitric acid,
- Ammonia,
- Chlorine, bromine, freons, fosgene, etc.

AIR POLLUTION (immission)

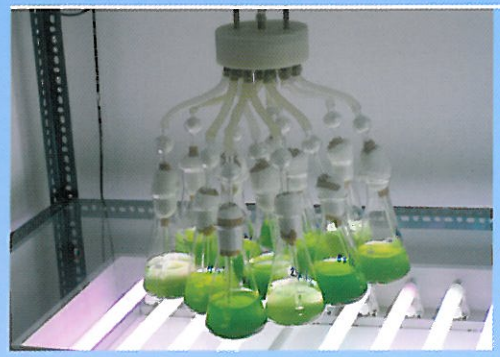
- CO, NO_X, SO_2, 0_3 Methane/NMCH
- Metal and micro contaminant content of dusta,
- Dioxins, furans, PAH, PCB,
- BTEX, hydrocarbons, esters, alcohols,
- Aldehydes, glycols, ketones, etxc.
- Cl_2, H_2S, HCl, HF, O_3, NH_3, NO_X, SO_2, etc.
- Depot gas examination of waste deposits:
- CO, CO_2, O_2, H_2S, Methane/NMCH.

PERSONAL EXPOSITION / WORKING ATMOSPHERE

- CO, NO_X, SO_2, O_3, Methane/NMCH,
  H_2S, CO, O_2, LEL
- Total and respirable dust and metals,
- BTEX, hydrocarbons, esters, alcohols, aldehydes, glycols, ketones, etc.
- Cl_2, H_2S, HCl, HF, O_3, NH_3, NO_X, SO_2, etc.
- Measurements of working climatic circumstances and lighting characteristics.



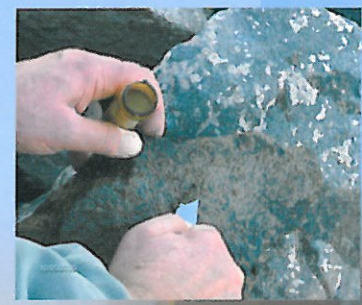
ECOTOXICOLOGY, HYDROBIOLOGY



Ecotoxicology examinations made of surface, underground waters, wastewaters, communal and hazardous wastes. Growing test of green algae from fresh water (Scenesdesmus subspicatus and Selenastrum capricornutum). Bud plant test with white mustard seed (Sinapis alba). The determination of immobilization with Daphnia magna Strauson (Cladocera, Crustacea). Determination of the lethal exposure of sweet water fish to the acute toxic effects of toxic materials using Brachidanio rerio and Poecilia reticulata.

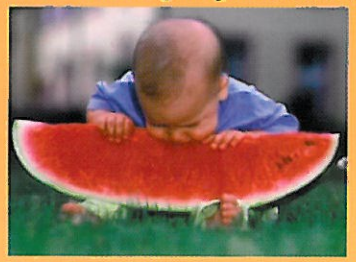
Hydro-biological examinations from standstill and flowing waters and wastewaters: determination of the saprobity of surface waters:

- Microscopic biological examinations,
  by the quantitative and qualitative examination of photo planktons and zoo-planktons (rotary, branching crab, webbed footed crab).
- Microscopic analysis of wastewaters.



FOODSTUFF

Foodstuff, food additives, food raw materials (fruits, vegetables, meat, dairy products, egg, bakery raw materials and products, cantered products, preserved – frozen and deep frozen foodstuff – alcoholic and non alcoholic beverages, spices and flavouring agents, tea, coffee, honey, dry pastry, cereals and oily seeds, feedstock. We examine all the materials getting in contact with the above.



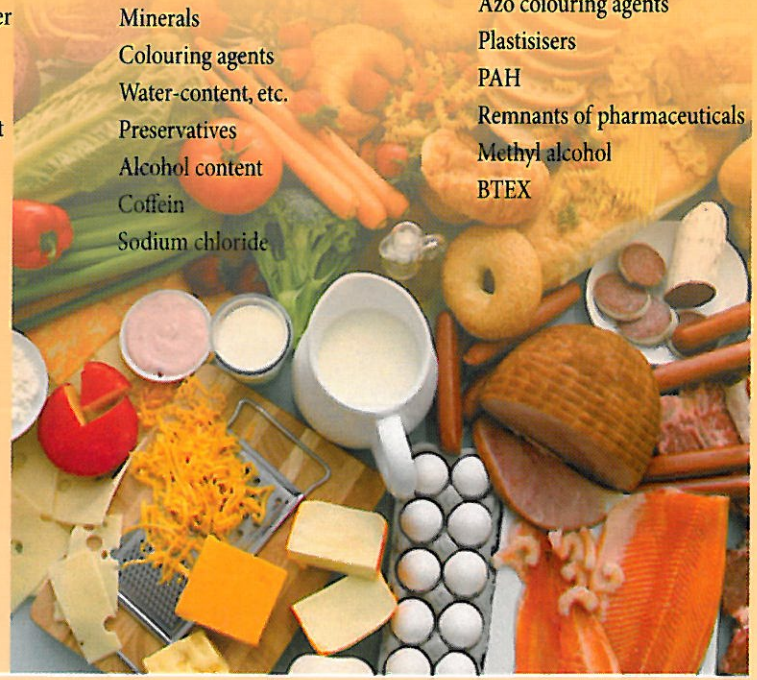
EXAMINATION OF CONTENT:

Fat content
Dry material
Ash content
Acid insoluble ash content
Salt content
Sugar and sweetener content
SO_2 content
Egg content
Volatile oil content,
Iodine number
Peroxide number
Ethyl alcohol number
Acid content
Sorbin acid content
Benzoic acid content
Urease activity
Polyphenol content
Antocianin
Flavonoids
Vitamins
Raw fibres
Dextrin
Formaldehyde
Iodine content
Free fatty acids
Esther number
Amilose content
Protein

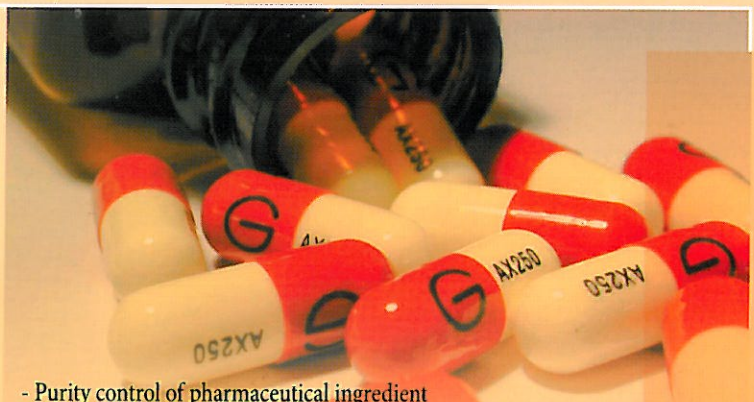
Saturated and unsaturated fatty acids
Saponation number
Non saponated part
Total nitrogen
Refractive index
Minerals
Colouring agents
Water-content, etc.
Preservatives
Alcohol content
Coffein
Sodium chloride

CONTAMINANTS:

Hydrogen cyanide
Toxic metals
Nitrite
Nitrate
Pesticides
Dioxin / furan
PCB
Cholophenols
Toxins
Patulin
Nitrozamines
Azo colouring agents
Plastisisers
PAH
Remnants of pharmaceuticals
Methyl alcohol
BTEX



PHARMACEUTICALS AND HERBS



- Purity control of pharmaceutical ingredient
- Determination of active ingredients of pharmaceuticals

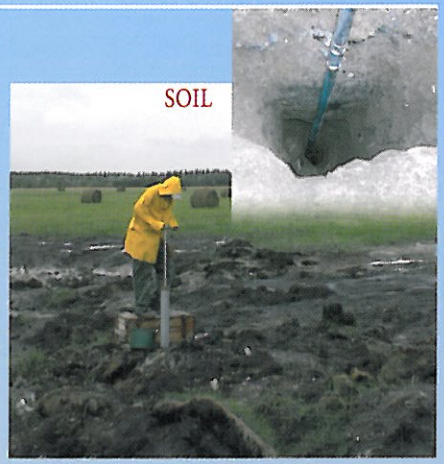
- Food additives
- Vitamins
- Herb extracts
- Antioxidants
- Flavonoids
- Examination of polyphenols.

Determinations according to the Hungarian, European and USA Pharmaceutical Books.

SAMPLE TAKING

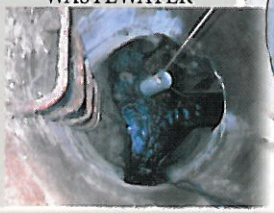
UNDERGROUND WATER

SOIL



SURFACE WATER

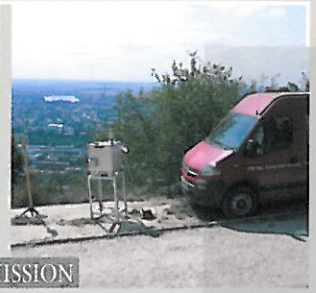
WASTEWATER



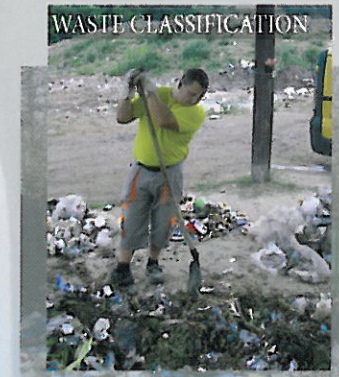
SAMPLE TAKING

EMISSION

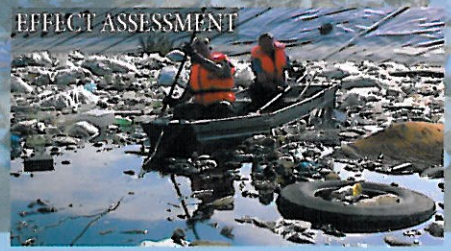
IMMISSION



WASTE CLASSIFICATION



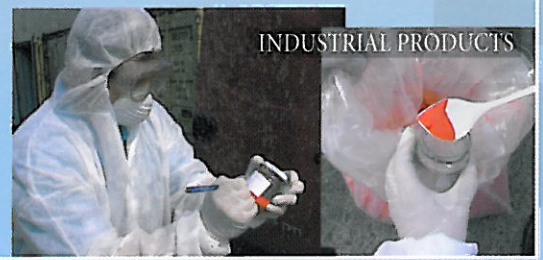
EFFECT ASSESSMENT



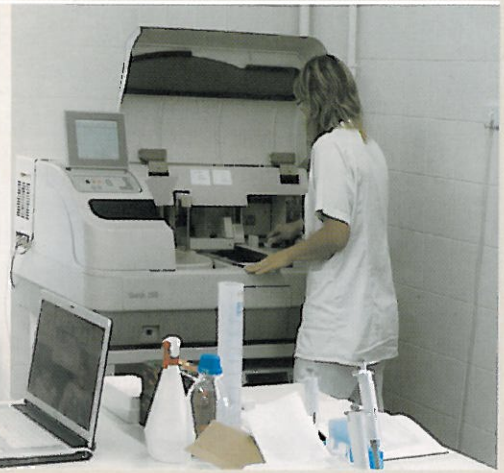
GAS FROM DEPOT

FOODSTUFF

INDUSTRIAL PRODUCTS



HUMAN



CLINICAL CHEMISTRY
- Clinical chemistry
- Blood lipids
- Liver
- Heart,
- Pancreas

HAEMATOLOGY
- Blood coagulation
- Anaemia
- Haematology

UREA EXAMINATIONS
- Kidney, ions, water household (I), serum components
- Kidney, ions, water household (II), urea components

BLOOD GROUP SEROLOGY
- Blood group serology

IMMUNOLOGY
- Hormones
- Protein status
- Rheumatic and anti-imune sicknesses
- Osteoporosis
- Tumor (Cancer) markers
- Pregnancy markers, other chronic deviances

ALLERGOLOGY TESTS
- Allergology tests

IN VITRO DIAGNOSTICS

DIABETES

ENSURING MICROBIOLOGICAL TESTS
- Atypusos pneumonia,
- Microbiology I
- Detection of infectants

INSTRUMENT PARK

ANALYTICAL INSTRUMENTS:
- GC – 20 units
- GC-MS – 14 units
- GC-MS/MS/MS – 1unit
- P/T – 2 units
- HPLC – 4 units
- HPLC-MS/MS/MS – 1 unit
- ICP-MS – 2 units
- IC – 3 units
- AOX – 1 unit
- TOC – 1 unit
- IR –1 unit
- UV-VIS – 4 units

EMISSION:
- CO, NO_X, O_2, CO_2, SO_2 – 2 units
- Dioxin sampler – 2 units
- Isokinetic dust sampler – 2 units
- Toxic metal sampler – 2 units
- Organic sampler –6 units
- Total CH measuring unit – 1 unit
- Methane – non-methane measuring unit - 1 unit

IMMISSION / WORKING ATMOSPHERE:
- CO – 3 units
- NO_X – 3 units
- O_2 – 1 unit
- O_3 – 3 unit
- CO_2 – 1 unit
- SO_2 – 1 unit
- H_2S – 1 unit
- CH/LEL – 1 unit
- Dioxin sampler – 1 unit
- Organic sampler – 20 unit
- Automatic organic sampler – 2 unit
- Dust sampler – 5 units

MOBILE LABORATORIES: – 2 units