Subject Index

Α

Acid digestion, 259 Ambient air measurement, 15 American Chemical Society, 282 American Petroleum Institute standards, 403 American Public Health Association standards, 403 ASTM standards, 403

в

Beilstein reaction, 271 Bioassay analysis genotoxicity evaluations, 130 in situ toxicology, 163 principles, 78 toxicity organisms, 107, 130, 140

С

Carbon pyrolysis, 3, 298 Center for Disease Control, 15 Chlorinated solvents, 298 Chlorine measurement, 271 Chromatographic analyses, 78, 271 Clean Water Act, 434 Comprehensive Environmental Response Compensation and Liability Act, 434 Computer data collection, 421, 441 Cyanide gas formation, 307

D

Deionized water, 3 Dilution plume, 381 Dry digestion techniques, 312

Ε

Environmental contaminants acids, 259 biological effects, 163 carcinogens, 163, 298 cyanides, 307 dioxin, 15 formaldehyde, 323 mercury, 247

mutagens, 163, 176 pesticides, 78, 130, 140 radioactive waste, 351 Environmental monitoring, 176, 369, 381, 421 Environmental Protection Agency (EPA) Procedures gas chromatography, 333 ground water evaluation, 3 extraction method, 176 land disposal restrictions rule, 199 mass spectrometry, 333, solid waste evaluation, \cdot 217, 259, 282 toxicity characteristic leaching procedure, 107, 199, 217

F

Freundlich-type isotherms, 228

G

Gas chromatography, 323, 333, 421, Genotoxicity, 89 Glow discharge ionization, 64 Ground water contamination, 3, 50

Ч

Halogenated ethanes, 3 Hazardous waste (liquid) chlorinated compounds, 89, 271, 365 disposal, 351 ground water, 3, 50, 247 herbicides, 140 industrial effluents, 130, 381 leaching media, 107 petroleum products, 228 See also Petroleum products solvents, 89 toxicological assessment, 107, 421 wastewater, 176, 247

457

458 WASTE TESTING AND QUALITY ASSURANCE

Hazardous waste (solid) analytical equipment, 351 cyanides, 307 disposal, 130, 199, 351 incinerator ash, 312 metallic, 89, 217, 259, 282 particulates, 312 radioactive mixed, 351 sample contamination, 259 sludges, 247, 259 soil sampling, 140, 176, 228 storage, 43 Hazardous waste sites, 140, 421 Human health effects, 130, 307

I

Ion chromatography, 271 Ion electrode determinator, 271 Immunoassay analysis, 78

L

Laboratory quality control, 421, 434, 441 Leaching procedures, 199, 217 228 Leaching media, 107 Liquid chromatography, 323, 441

М

Mass spectrometry atomic absoption method, 247, 282 capillary columns, 333 computerized data bases, 421. 441 glow discharge technique, 64 packed columns, 333 soil sampling, 64 x-ray fluorescence, 271 Mercury concentrations, 247 Metal digestion, 282 Methylene chloride extraction, 323 Microcoulometric titration, 3, 271. 298 Microwave digestion, 259, 312

Non-volatile organic compounds, 31 0 Organic halogen analysis, 3 298, 365 P Particle beam analysis technioue, 369 Petroleum products chlorine contamination, 271, 365 in soils, 228 microwave digestion of,

259 regulations, 403 Phage-induction assay, 89 Plasma emission spectroscopy, 282, 312 Potable water monitoring, 176 Pyrolysis titration, 298

R

Radioactive waste, 351 Regional auditing system, 421 Resource Conservation and Recovery Act extraction procedures, 199 ground water contamination, 3 laboratory evaluations, 434 radioactive waste disposal, 351 solid waste evaluations, 259

S

Safe Drinking Water Act, 333, 434 Semi-volatile organic compound analysis, 351 Spectroscopy, 282, 312, 381 Superfund sites, 15, 421

т

Thermal decomposition, 259 Thermospray analysis technique, 369

Ν

Natural matrix samples, 434

Trihalomethanes, 3

V

Volatile organic compound sampling canister-based samplers, 43 capillary columns, 333 case studies, 50 electronic flow controllers, 43 packed columns, 333 ground water monitoring, 50, 64 soils, 64, 228, 298 solid sorbent samplers, 31, 43 storage stability, 43, 351

W

Waste treatment systems, 381 Water cluster ions, 64 Weak acid dissociable method, 307 Wet digestion techniques, 312