

## ANALYTICAL REQUEST FORM

ARF No. \_\_\_\_\_

ERLSD-REC-015, Rev. 3

Page 1 of 4

Customer:		Email Address: Tel No.:		Date:	
Project Name:					
Request for: <input type="checkbox"/> Analysis <input type="checkbox"/> Sample Container <input type="checkbox"/> Absorbing Solution <input type="checkbox"/> Filter Paper <input type="checkbox"/> Others, specify _____					
Sample Type	No. of Samples	Volume of Absorbing Solution	Analyses Requested <i>(see annex A)</i>	Pick-up Date and Time <i>(mm/dd/yy – 0000H)</i>	
Tentative Schedule of Sample Submission:		Date:		Time:	
Result to be sent via: <input type="checkbox"/> courier <input type="checkbox"/> pick-up @ EMB <input type="checkbox"/> email _____ <input type="checkbox"/> others _____ To be picked up by: _____					
Special Instructions/ Comments:					
<b>Request Approval: (TO BE ACCOMPLISHED BY THE ERLSD)</b>					
Lab Unit Concerned: <input type="checkbox"/> Inorganics <input type="checkbox"/> Bacteriological <input type="checkbox"/> Organics <input type="checkbox"/> Toxicity Testing					
Analytical Request:	No. of Container/Filter Paper/Vol. of Abs Soln./ Adsorbents	Pick-up Date of Container/ Filter Paper /Vol. of Abs. Soln/ Adsorbents	Schedule of Sample Submission		
<input type="checkbox"/> Approved	<input type="checkbox"/> Approved	<input type="checkbox"/> Approved	<input type="checkbox"/> Approved		
<input type="checkbox"/> Disapproved	<input type="checkbox"/> Disapproved	<input type="checkbox"/> Disapproved	<input type="checkbox"/> Disapproved		
Name and signature of authorized personnel		ROA available on:	Remarks:		
Sample Container Received By:	(Printed Name and Signature)			Date: <i>(mm/dd/yy)</i>	Time: <i>(0000 H)</i>



Department of Environment and Natural Resources  
**ENVIRONMENTAL MANAGEMENT BUREAU**  
 Environmental Research and Laboratory Services Division  
 DENR Compound, Visayas Avenue, Quezon City  
 Tel No. (0632) 8426-4332, 8426-4339  
 Email: erlsd@emb.gov.ph

### TERMS and CONDITIONS:

1. The Report of Analysis (ROA) shall not be reproduced wholly or in part, cannot be used as evidence in the court of law and in any advertising medium without written permission from DENR-EMB.
2. The customer agrees not to use the ROA or data in a manner that may destroy the reputation or service of EMB-ERLSD.
3. The copy of ROA shall be retained by following the laboratory's documented procedure.
4. Samples will be disposed of after 30 days from the date of issue of the ROA unless otherwise required.
5. The customer has the responsibility to meet ERLSD's sample handling requirements, provide adequate information and necessary documents for the processing of samples.
6. The ERLSD shall be responsible, through legally enforceable commitments, for the management of all information obtained or created during the conduct of laboratory activities. The ERLSD shall inform the customer in advance, of the information it intends to place in public domain. Except for the information that the customer makes publicly available, or when agreed between the ERLSD and the customer (e.g., for the purpose of responding to complaints), all other information shall be treated proprietary information and shall be regarded as confidential.
7. When the ERLSD is required by law or authorized by contractual arrangements to release confidential information, the customer will be notified unless prohibited by law.
8. The ERLSD shall inform the customer of any changes on the availability of the ROA.
9. The Measurement Uncertainty (MU) estimates shall be provided upon request.

**This is to certify that I have reviewed the form, confirmed the correctness of data and information provided, and accepted the Terms and Conditions.**

\_\_\_\_\_  
**(Name and signature of the customer)**

## ANNEX A

### WATER/ WASTEWATER

PARAMETERS	ANALYTICAL METHOD	REFERENCE	PARAMETERS	ANALYTICAL METHOD	REFERENCE
<input type="checkbox"/> Alkalinity	<input type="checkbox"/> Alkalinity Method	TMWDMEA 6.6	<input type="checkbox"/> Metals (Arsenic, Barium, Boron, Cadmium, Copper, Gold, Iron, Lead, Manganese, Nickel, Palladium, Platinum, Rhodium, Selenium, Tellurium, Thallium, Zinc)	<input type="checkbox"/> Microwave Digestion Method	SMEWW 3030 K
<input type="checkbox"/> Ammonia as NH <sub>3</sub> -N	<input type="checkbox"/> Phenate Method	SMEWW 4500-NH <sub>3</sub> F		<input type="checkbox"/> Hotplate Digestion Method	SMEWW 3030 F
<input type="checkbox"/> Anions (Bromide, Chloride, Fluoride, Nitrate/ NO <sub>3</sub> -N, Phosphate, Sulfate)	<input type="checkbox"/> Ammonia-Selective Electrode Method	SMEWW 4500-NH <sub>3</sub> D		<input type="checkbox"/> Inductively Coupled Plasma Emission Spectroscopy Method	SMEWW 3210
<input type="checkbox"/> BOD	<input type="checkbox"/> Ion Chromatography Method	SMEWW 4110 B	<input type="checkbox"/> Oil and Grease	<input type="checkbox"/> Liquid-Liquid, Partition Gravimetric Method	SMEWW 5520 B
<input type="checkbox"/> Cations (Calcium, Magnesium, Potassium, Sodium)	<input type="checkbox"/> 5-day BOD Test	SMEWW 5210 B	<input type="checkbox"/> Organochlorine Pesticides (OCPs)	<input type="checkbox"/> Gas Chromatographic/ Electron Capture Detector Method	US EPA 8081
	<input type="checkbox"/> Ion Chromatography Method	TMWDMEA 6.12		<input type="checkbox"/> Gas Chromatographic/ Mass Spectrometric Method	US EPA 8270
	<input type="checkbox"/> Microwave Digestion Method	SMEWW 3030 K			
	<input type="checkbox"/> Hotplate Digestion Method	SMEWW 3030 F	<input type="checkbox"/> pH	<input type="checkbox"/> Electrometric Method	SMEWW 4500-H+ B
	<input type="checkbox"/> Inductively Coupled Plasma Emission Spectroscopy Method	SMEWW 3120		<input type="checkbox"/> Glass Electrode Method	TMWDMEA 6.4
<input type="checkbox"/> Chemical Oxygen Demand	<input type="checkbox"/> Closed Reflux, Colorimetric Method	SMEWW 5220 D	<input type="checkbox"/> Phenol and Phenolic Substances	<input type="checkbox"/> Gas Chromatographic Method	SMEWW 6420
<input type="checkbox"/> Chlorophyll-a	<input type="checkbox"/> SCOR/UNESCO Method	TMIAEMEA 5.1.9	<input type="checkbox"/> Phosphate as PO <sub>4</sub> <sup>3-</sup> - P	<input type="checkbox"/> Gas Chromatographic/ Mass Spectrometric Method	US EPA 8270
<input type="checkbox"/> Chromium as Hexavalent Chromium	<input type="checkbox"/> Colorimetric Method	SMEWW 3500-Cr B	<input type="checkbox"/> Polyaromatic Hydrocarbons (PAHs)	<input type="checkbox"/> Ascorbic Acid Method	SMEWW 4500-P E
<input type="checkbox"/> Coliform, Fecal	<input type="checkbox"/> MTFT – Fecal Coliform Procedure	SMEWW 9221 E	<input type="checkbox"/> Polychlorinated Biphenyls (PCBs)	<input type="checkbox"/> High-Performance Liquid Chromatographic Method	US EPA 8310
<input type="checkbox"/> Coliform, Total	<input type="checkbox"/> MTFT – Std Total Coliform Fermentation Technique	SMEWW 9221 B		<input type="checkbox"/> Gas Chromatographic/ Mass Spectrometric Method	US EPA 8270
<input type="checkbox"/> Color (True)	<input type="checkbox"/> Visual Comparison Method	SMEWW 2120 B	<input type="checkbox"/> Surfactants (MBAS)	<input type="checkbox"/> Gas Chromatographic/ Electron Capture Detector Method	US EPA 8082
<input type="checkbox"/> Cyanide as Free Cyanide	<input type="checkbox"/> Cyanide – Selective Electrode Method	US EPA 9213	<input type="checkbox"/> Total / Dissolved Organic Carbon	<input type="checkbox"/> Anionic Surfactants as MBAS	SMEWW 5540 C
<input type="checkbox"/> Dissolved Oxygen	<input type="checkbox"/> Membrane Electrode Method	SMEWW 4500-O G	<input type="checkbox"/> Total Suspended Solids	<input type="checkbox"/> High-Temperature Combustion Method	SMEWW 5310 B
	<input type="checkbox"/> Azide Modification Method	SMEWW 4500-O C		<input type="checkbox"/> Gravimetric, Dried at 103-105°C	SMEWW 2540 D
<input type="checkbox"/> Dioxins and Furans	<input type="checkbox"/> Isotope Dilution Technique – Gas Chromatography with High-Resolution Mass Spectrometry Method	US EPA 1613	<input type="checkbox"/> Volatile Organic Carbons (Benzene, Toluene, Ethylbenzene, Xylene, Trichloroethylene)	<input type="checkbox"/> Purge and Trap Capillary – Column Gas Chromatographic/ Mass Spectrometric Method	US EPA 8260
<input type="checkbox"/> Electric Conductivity	<input type="checkbox"/> Conductivity Cell Method	TMWDMEA 6.3	<input type="checkbox"/> Others, specify _____		
<input type="checkbox"/> Malathion (Organophosphate)	<input type="checkbox"/> Gas Chromatographic/ Mass Spectrometric Method	US EPA 8270			
<input type="checkbox"/> Mercury	<input type="checkbox"/> Cold-Vapor Atomic Absorption Spectrometric Method	US EPA 7470			
	<input type="checkbox"/> Cold-Vapor Atomic Fluorescence Spectrometry	US EPA 245.7			
	<input type="checkbox"/> Thermal Decomposition, Amalgamation, AAS	US EPA 7473			

### **SOIL/ SEDIMENTS**

<b>PARAMETERS</b>	<b>ANALYTICAL METHOD</b>	<b>REFERENCE</b>	<b>PARAMETERS</b>	<b>ANALYTICAL METHOD</b>	<b>REFERENCE</b>
<input type="checkbox"/> Dioxins and Furans	<input type="checkbox"/> Isotope Dilution Technique – Gas Chromatography with High-Resolution Mass Spectrometry Method	US EPA 1613	<input type="checkbox"/> Total Nitrogen	<input type="checkbox"/> High-Temperature Combustion	SSSA 5 <sup>th</sup> edition
<input type="checkbox"/> Organochlorine Pesticides	<input type="checkbox"/> Gas Chromatographic/ Electron Capture Detector Method	US EPA 8081	<input type="checkbox"/> Total Organic Carbon (TOC)	<input type="checkbox"/> High-Temperature Combustion	US EPA/ 600/R-02/069
<input type="checkbox"/> Polychlorinated Biphenyls	<input type="checkbox"/> Gas Chromatographic/ Electron Capture Detector Method	US EPA 8082	<input type="checkbox"/> Available Phosphorus	<input type="checkbox"/> Vanadomolybdate Method	SSSA 5 <sup>th</sup> edition
<input type="checkbox"/> Total Mercury	<input type="checkbox"/> Cold-Vapor Atomic Absorption Spectrometric Method <input type="checkbox"/> Thermal Decomposition, Amalgamation and Atomic Absorption Spectrophotometry	US EPA 7471B US EPA 7473	<input type="checkbox"/> Exchangeable Potassium	<input type="checkbox"/> Inductively Coupled Plasma Emission Spectroscopy Method	SSSA 5 <sup>th</sup> edition
<input type="checkbox"/> Total Metals (Arsenic, Barium, Boron, Cadmium, Copper, Gold, Iron, Lead, Manganese, Nickel, Palladium, Platinum, Rhodium, Selenium, Tellurium, Thallium, Zinc)	<input type="checkbox"/> Atomic Absorption Spectroscopy Method <input type="checkbox"/> Inductively Coupled Plasma Emission Spectroscopy Method	US EPA 3050B	<input type="checkbox"/> Others, specify _____		

### **AMBIENT AIR**

<b>PARAMETERS</b>	<b>ANALYTICAL METHOD</b>	<b>REFERENCE</b>	<b>PARAMETERS</b>	<b>ANALYTICAL METHOD</b>	<b>REFERENCE</b>
<input type="checkbox"/> Ammonia	<input type="checkbox"/> Indophenol Method	MASA 401	<input type="checkbox"/> Sulfur Dioxide	<input type="checkbox"/> Gas Bubbler and Pararosaniline Method	USEPA 40 CFR, Part 50, Appendix A-2
<input type="checkbox"/> Ammonium (NH <sub>4</sub> <sup>+</sup> )	<input type="checkbox"/> Ion Chromatography	TMWDM 6.12	<input type="checkbox"/> Suspended Particulate Matter- TSP	<input type="checkbox"/> High Volume – Gravimetric Method	USEPA 40 CFR, Part 50, Appendix B
<input type="checkbox"/> Dioxins and Furans	<input type="checkbox"/> Isotope Dilution Technique – Gas Chromatography with High-Resolution Mass Spectrometry Method	US EPA TO-09A	<input type="checkbox"/> Suspended Particulate Matter- PM 10	<input type="checkbox"/> High Volume Sampler, Gravimetric	USEPA 40 CFR, Part 50, Appendix J
<input type="checkbox"/> Lead	<input type="checkbox"/> Atomic Absorption Spectrometry Method <input type="checkbox"/> X-ray Fluorescence Spectroscopy	US EPA Compendium Method IO-3.3	<input type="checkbox"/> Suspended Particulate Matter- PM 2.5	<input type="checkbox"/> High Volume Sampler, Gravimetric	USEPA 40 CFR, Part 50, Appendix L
<input type="checkbox"/> Nitrogen Dioxide	<input type="checkbox"/> Gas Bubbler Griess-Saltzman Method	WHO Sec. 4.2.2 (MASA 406)	<input type="checkbox"/> Anions (Bromide, Chloride, Fluoride, Nitrate/ NO <sub>3</sub> -N, Phosphate, Sulfate)	<input type="checkbox"/> Ion Chromatography with Chemical Suppression of Eluent Conductivity	SMEWW 4110B
<input type="checkbox"/> Photochemical Oxidants as Ozone	<input type="checkbox"/> Spectrophotometric Method	MASA Method 411	<input type="checkbox"/> Cations (Calcium, Magnesium, Potassium, Sodium)	<input type="checkbox"/> Inductively Coupled Plasma (ICP) Method	SMEWW 3120B
<input type="checkbox"/> Anions (Bromide, Chloride, Fluoride, Nitrate/ NO <sub>3</sub> -N, Phosphate, Sulfate)	<input type="checkbox"/> Ion Chromatography with Chemical Suppression of Eluent Conductivity	SMEWW 4110B	<input type="checkbox"/> Metals (Arsenic, Cadmium, Copper, Chromium, Iron, Manganese, Mercury, Nickel, Strontium, Zinc)	<input type="checkbox"/> X-Ray Fluorescence Spectroscopy	US EPA IO-3.3 / USEPA 40 CFR, Part 50, Appendix Q
<input type="checkbox"/> Cations (Calcium, Magnesium, Potassium, Sodium)	<input type="checkbox"/> Inductively Coupled Plasma (ICP) Method	SMEWW 3120B	<input type="checkbox"/> Sulfur Dioxide	<input type="checkbox"/> Gas Bubbler and Pararosaniline Method	USEPA 40 CFR, Part 50, Appendix A-2
<input type="checkbox"/> Photochemical Oxidant as Ozone	<input type="checkbox"/> Spectrophotometric Method	MASA Method 411	<input type="checkbox"/> Others, specify _____		

**STATIONARY SOURCE EMISSIONS**

<b>PARAMETERS</b>	<b>ANALYTICAL METHOD</b>	<b>REFERENCE</b>
<input type="checkbox"/> Dioxins and Furans	<input type="checkbox"/> Isotope Dilution Technique – Gas Chromatography with High-Resolution Mass Spectrometry Method	US EPA Method 23
<input type="checkbox"/> NOx	<input type="checkbox"/> Determination of Nitrogen Oxide Emissions from Stationary Sources: Phenoldisulfonic Acid (PDS) Procedure	US EPA Method 7
<input type="checkbox"/> Particulates	<input type="checkbox"/> Determination of Particulate Matter Emissions from Stationary Sources: Gravimetric Method	US EPA Method 5

<b>PARAMETERS</b>	<b>ANALYTICAL METHOD</b>	<b>REFERENCE</b>
<input type="checkbox"/> Sulfur Oxides as SO <sub>2</sub>	<input type="checkbox"/> Determination of Sulfur Dioxide Emissions from Stationary Sources: Barium-Thorin Titration Method	US EPA Method 6
<input type="checkbox"/> Sulfur Oxides as SO <sub>3</sub>	<input type="checkbox"/> Determination of Sulfuric Acid Mist and Sulfur Dioxide Emissions from Stationary Sources: Barium-Thorin Titration Method	US EPA Method 8
<input type="checkbox"/> Others, specify _____	<input type="checkbox"/> Determination of Sulfuric Acid Mist and Sulfur Dioxide Emissions from Stationary Sources: Barium-Thorin Titration Method	US EPA Method 8

**ORGANIC FERTILIZER**

<b>PARAMETERS</b>	<b>ANALYTICAL METHOD</b>	<b>REFERENCE</b>
<input type="checkbox"/> Total Nitrogen	<input type="checkbox"/> Kjeldahl Method	BSWM Updated Manual 2014 Method 5.5
<input type="checkbox"/> Total Phosphorus	<input type="checkbox"/> Vanadomolybdate Method	BSWM Updated Manual 2014 Method 5.2 and 5.13

<b>PARAMETERS</b>	<b>ANALYTICAL METHOD</b>	<b>REFERENCE</b>
<input type="checkbox"/> Total Potassium	<input type="checkbox"/> Inductively Coupled Plasma Emission Spectroscopy Method	BSWM Updated Manual 2014 Method 5.2 and 5.14

**OTHERS**

<b>Transformer Oil PARAMETERS</b>	<b>ANALYTICAL METHOD</b>	<b>REFERENCE</b>
<input type="checkbox"/> Polychlorinated Biphenyls	<input type="checkbox"/> Gas Chromatographic/ Electron Capture Detector Method	US EPA 8082
<input type="checkbox"/> Other Matrices, specify _____		

<b>Wastes PARAMETERS</b>	<b>ANALYTICAL METHOD</b>	<b>REFERENCE</b>
<input type="checkbox"/> Non-volatile Constituents (Metals, specify _____)	<input type="checkbox"/> Toxicity Characterization Leaching Procedure (TCLP)	US EPA 1311
<input type="checkbox"/> Ignitability	<input type="checkbox"/> Pensky-Martens Closed Cup Tester	ASTM D93-18
<input type="checkbox"/> Others, specify _____	<input type="checkbox"/> Cleveland Open Cup Tester	ASTM D92-18