

Dr. Zaid Ali Fadel AL-RASHDAN
(Environmental Sciences and Analysis, PHD)
(Senior Environmental Consultant and Projects Coordinator)
Riyadh, Saudi Arabia
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PROFESSIONAL EXPERINCES:

- 1. Private sectors and Industries projects (December 2005-present)**
Position: Senior Environmental Consultant and Management/Coordinator (Environmental Consulting Bureau-ECB) Projects

Main responsibilities and activities include:

- Projects management
- Documents Review,
- Proposal Preparation,
- Site visit and Reconnaissance,
- Preparation of Social Impact Matrixes,
- Consultations with Governmental Agencies and Local Societies,
- Baseline Survey,
- Preparation and Reviewing of Environmental Impact Assessment Studies (EIA), Environmental and Social Impact Assessment (ESIA), and Environmental Compliance Audit Reports (ECA)
- Managements and follow-up coordinator with the Presidency of Meteorology and Environment

Some of the EIA and ESIA Projects were Required Compliance with International Lender Agencies or Regulations (e.g. International Finance Corporation - IFC, World Bank Regulations, Californian Title 22 Requirements, etc.), and Local Regulations (General Environmental Regulations and Rules for Implementation of Saudi Arabia, Wastewater Discharge and Reuse regulations, etc). Additionally some of the Projects Required to be in Compliance with the Host Company Regulations and Standards (eg. Saudi Aramco Standards: Saudi Aramco Engineering Standards, Saudi Aramco Engineering Procedure, Saudi Aramco General Instructions, etc).

Some projects might also required undertake noise monitoring, ambient air monitoring usually using diffusion tubes and also might required sampling of soil and water from the site or from the vicinity

Samples of EIA, ESIA and ECA Experiences:

- **EIAs** (Environmental Impact Assessment Studies):
 - *Improve Water Supply Quality DHAHRAN..(Prepared for Saudi Aramoc)*
 - *Replace Sewage Treatment Plant at Shedgum Gas Plant (Prepared for Saudi Aramco)*
 - *Pipeline installation between North Riyadh Bulk Plant and Riyadh Terminal Unit (Prepared for Saudi Aramco)*
 - *Other Oil and Gas projects for Saudi Aramco (I.e Pipeline extensions, Pipeline daylighting ,etc)*
 - *Power plants projects in cooperation with international companies prepared for Saudi Electricity Company, include Shuqaiq Plant, Arar Plant, Rabigh IPP2, Riyadh PP13)*
- **ESIAs** (Environmental and Social Assessment Studies):
 - *Community Impact Study for the Jalamid Phosphate Project (Prepared for the Saudi Arabian Mining Company (Ma'aden)*
 - *Sewage Treatment Plant Facilities: Manfouha, Al Kharj and Al-Hair and Al-Khumra STPS (Prepared for the National water Company)*

- *Jeddah Housing Project (Prepared fro AL RAedah Development Company)*
- *Five Star Hotel project in Riyadh (Prepared for the FAS group)*
- *MCI Business Park Project (Prepared for the Ministry of Trade and Industries)*
- *FAL Industrial City Project (In preparation for FAL Holding Company)*
- *Different Housing and Infrastructure Projects*

2. Governmental Projects

2.1 Client: Ministry of Municipalities and Rural Affairs, Riyadh, Saudi Arabia (MOMRA)

Position: Environmental and Technical Advisor

Project Title: Consultations services to the Ministry (ongoing project)

Duration: Three years started in middle of 2012

Main responsibilities and activities include:

- a. Technical Assistant and Environmental Advisor by the Public Health Department and Studies Department)
- b. Reports and studies preparation (Municipal waste and other Environmental related topics))
- c. Reviewing the Municipal solid waste regulation issued recently by the Ministry of Municipalities and Rural Affairs “ Municipal Solid Waste Regulation)
- d. Technical Advisor for drafting the Rules for Implementation of the Municipal Solid Waste Regulation)
- e. Technical advisor by the Public Health Department to establish a database software for Pesticide management

2.2 Client: Ministry of Municipalities and Rural Affairs, Riyadh, Saudi Arabia (MOMRA)

Position: Governmental Projects Coordinator and Environmental Advisor

Project Title: Study of Consolidating Regulations and Legislations of Environmental Health

Duration: three years (June 2009 – August 2012)

Duties and Responsibilities:

- a. Team Management and Project Coordinator
- b. Environmental Studies and Reports Preparation
- c. Consultations with the Ministry’s Directorates and Municipalities, and other Governmental Agencies
- d. Reviewing all Environmental and Environmental Health Regulations Issued by Saudi Governmental Agencies
- e. Guidance Manuals Preparation including:
 - i. The relationship between environmental regulations issued by the Ministry of Municipalities and Rural Affairs and non-environmental regulations issued by the same agency
 - ii. The relationship between environmental regulations issued by the Ministry of Municipalities and Rural Affairs and other (environmental related) regulations issued by other Saudi Governmental bodies
 - iii. Environmental Investment Guidance Manual for the Ministry of Municipalities and Rural Affairs

2.3 Client: Presidency of Meteorology and Environment, Jeddah, Saudi Arabia

Position: Senior Environmental Consultant and Project Coordinator

Project Title: Capacity Building and Development of the Presidency of Meteorology and Environment (The Environmental Regulatory in Saudi Arabia).

Duration: Approximately three years (Dec. 2005-Nov. 2008)

Duties and Responsibilities:

- a. Environmental Trainer
- b. Key personal in developing and managing the Environmental Inspection Training Programme
- c. Key Personal in development of the Environmental Inspection Checklist and other related Environmental Inspection Documents
- d. Environmental Inspection of Industrial Facilities
- e. Evaluation the Environmental Inspection Teams Performance
- f. Reviewing and Evaluation of Submitted Environmental Inspection Studies to the Presidency of Meteorology and Environment
- g. Site Visits to Landfills and other Industrial Facilities for Environmental Inspection and Auditing
- h. Key-personal in Reviewing and Improve the existing Saudi Environmental Regulations as in the GER (issued in 2001) and developing the new Saudi Environmental Standards (which released in 2012).

3. Additional Experiences in Jordan and Germany

3.1 Part-time Lecturer for one semester (Feb 2005-June 2005)

Department of Environmental Science, Faculty of Sciences and Arts, Jordan University for Science and Technology (JUST), Irbid, Jordan

3.2 Environmental Researcher and Project Management, (Oct. 2002-Oct 2004)

Department of Earth and Environmental Sciences Faculty of Natural Resources and Environment, Hashemite University, Zarka, Jordan

Client: Veterinary and Pesticides Company-VAPCO, Duhail, Jordan

Project Title: Selected Treatment Methods of Wastewater from Pesticide Producing Plants.

Duties and Responsibilities:

- Team Leader and Co-Supervisor of Master Students,
- Laboratory Supervisor
- Industrial Wastewater Sampling
- Part Time Lecturer

3.3 Environmental Researcher and Consultancy Services, (Oct. 1995-May 2000)

Eco-Chemistry and Environmental Analysis Research Group (Oeko-Chemie und Umweltanalytik AG), Dept. of Chemistry, C.v.O. Oldenburg University, Germany:

- Evaluation of natural zeolites on their ability for sewage cleacining purposes, including but not limited to the following:
 - Natural zeolite characterization
 - Manure analysis
 - Drinking water analysis
 - Ammonia sorption from ambient air on zeolite surfaces
 - Evaluation of zeolite materials as slow releasing fertilizer for plants nutrients
 - Sorption of heavy metals from synthetic wasterwater on natural zeolites
 - Desorption of metal ions from the exhausster zeolites into the solution
- Environmental Sampling and Analysis Services (Water, Wastewater and Soil) for Industrial Sectors, Companies and the Environmental Police Section.
- Students Advisor,

3.4 Environmental Researcher, (Jan. 1992- April 1994)

Irbid Wastewater Treatment Plant, Ministry of Water & Irrigation, Jordan:

- Water, Wastewater and Sludge Sampling
- Water Quality Control and Wastewater Analysis

3.5 Environmental Researcher and Lecturer, (Jan. 1992- April 1994)

Department of earth and Environmental Sciences, Yarmouk University, Irbid, Jordan

EDUCATIONAL QUALIFICATIONS:

- **PhD (Environmental Sciences and Analysis),**
Eco-Chemistry and Environmental Analysis Group, Department of Physical Chemistry, C. v. O. Oldenburg University, Germany, 2000
“Title of Thesis: Investigation of Natural Zeolitic Tuffs on their Ability for Sewage Cleaning Purposes”
- **M.Sc. (Environmental Sciences: Advanced Wastewater Treatment),**
Department of Geology and Environmental Sciences, Yarmouk University, Jordan. 1994
“Title of Thesis: Treatment of Domestic Wastewater Effluent from Stabilisation Ponds using Jordanian Zeolitic Tuffs”.
- **B.Sc (Geology and Environmental Sciences),**
Department of Earth and Environmental Sciences, Yarmouk University, Jordan, 1991

PUBLICATIONS, PRESENTATIONS, and SUPERVISIONS:

- **Publications**
 - The importance of EIA study in mining activities of oil shale: case study. The 8th International Conference of Jordanian Geologist Association. pp. 12., 2004 (Khashashneh, A, Al-Rashdan, Z. and Rimawi, O.).
 - Removal of pesticides from wastewater using Jordanian Bentonites, Zeolite and Jift-Charcoal. The 3rd Jordanian Conference on Environment, Yarmouk University, Jordan, 2004 (Ibrahim, K. M. , Naffa, R., Al-Akasheh, T. and Al-Rashdan, Z.)
 - Investigation of Natural Zeolitic Tuffs on their ability for sewage cleaning purposes. Ph.D. Thesis, Oldenburg University, Oldenburg, Germany, 139 pp., 2000
 - Treatment of domestic wastewater effluent from stabilisation ponds using Jordanian Zeolitic Tuffs. M.Sc. Thesis, Yarmouk University, Irbid, Jordan, 189 pp., 1994
- **Presentations at conferences and seminars:**
 - Wastewater treatment plants and effluents reuse in agriculture, Yarmouk University, Irbid, Jordan, Hand in Hand Toward a Clean Environment Seminar 2002
 - The effect of median on childhood, Palace of Neubeuereen/ Munich, Germany Psychology and Social Sciences Discussion Group 1998
 - Heavy metal ions reduction from waters using Zeolite, C. v. O. Oldenburg University, Germany, Environmental pollution Seminar 1998
 - Adsorption of ammonium ions on Natural Zeolites from aqueous solutions, Eco-Chemistry and Environmental Analysis Seminar, C. v. O Oldenburg University, Germany, Environmental Chemistry and Analysis Seminar, 1996
- **Co-Supervision of Theses**
 - Photocatalytic oxidation of pesticide residues from industrial wastewater Hashemite University, Jordan, 2005
 - Removal of pesticides residues from wastewater using Jordanian clay minerals and JEFT-Charcoal, Hashemite University, Jordan, 2004
 - Environmental impact assessment of El-Lajjun oil shale expected extraction activities, Jordan University, Jordan, 2002

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TECHNICAL SPECIALITIES:

- Environmental and Social Impact Assessment Preparing and Reviewing
- Sites and Field Reconnaissance and Environmental Sampling and Analysis
- Environmental Inspection and Compliance Auditing
- Environmental Inspection Trainer
- Evaluation and Developing Environmental Inspection Training Programs and Executing Field Surveys
- Environmental Standards Reviewer and Developer
- Capacity Building and Projects Managements
- Bench Marking Studies and Baseline Survey Specialist
- Consultations Survey with Governmental Agencies and Local Societies.
- Very Good Knowledge and Experiences in Environmental and Environmental-health Legislations and Regulations Issued by Saudi Governmental Agencies.

ENVIRONMENTAL ANALYSIS EXPERIENCES:

- Environmental Sampling:
 - Water and Wastewater,
 - Soil, Plant and Animal Manure
- Uses of Analytical Apparatus:
 - Atomic Absorption Spectrophotometer (AAS)
 - Spectrophotometer and Flame Photometer
 - Total Organic Carbon Analyser (TOC) and Total Kjeldahl Nitrogen (TKN)
- Main Environmental Analysis:
 - Heavy Metals, Calcium, Magnesium, and Sodium
 - Ammonium-Nitrogen, Nitrate, Nitrite and Total and Ortho-Phosphate
 - Biochemical Oxygen Demand (BOD) and Chemical Oxygen Demand (COD)
 - Total Dissolved Solids, Total Suspended Solids and Volatile Suspended Solids
 - Onsite Measurement (i.e. pH, EC, DO, Turbidity, etc)
- Preparation of Analytical Reports and Environmental Sampling Programs.

OTHER CERTIFICATES OBTAINED or ADVANCED COURSES ATTENDED:

- Capacity Building
- Environmental Inspection and Auditing Programme
- Environmental Compliance Auditing,
- Advanced Courses in Environmental Sciences and Analysis
- Quantitative and Qualitative Analysis of Zeolite Ore Minerals Using XRD Method

LANGUAGE SKILLS:

- Arabic: Mother Language
- English: Very Good in Speaking, Writing and Reading
- German: Very Good in Speaking, Writing and Reading

COMPUTER SKILLS:

Very Good Experiences in Using Personal Computer and Software: Microsoft Office, Acrobat Distiller, Adobe Writer, Microcal Origin, Photo Editor Internet Search Engines Burning ROM Program, and others.

SCHOLARSHIP AWARDED:

- German Academic Exchange Society (DAAD): PH.D Study 1995-2000

MEMBERSHIPS:

- Jordanian Environmental Protection Agency
- Geologist Association of Jordan

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REFERENCES:

Will be Available upon Request

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Date: 16- March -2014