

11. REFERENCES

- 1 WS Atkins International, Qatalum Project Environmental Impact Assessment: Scoping Study Report, 13th January 2006, revision 05, document reference number QA-00-ATK-F15-00001-05.
- 2 Gabbro Berth Expansion at Mesaieed Port, EIA report December 2005, COWI, Draft A 11 December
- 3 Law by Decree No. 30 of the Year 2002 Promulgating the Environmental Protection Law (2003).
- 4 Executive By-Law for The Environment Protection Law, issued under the authority of Law No. 30 for the Year 2002 (2005).
- 5 Policy and Procedures for Environmental Impact Assessment (EIA), Ministry of Municipal Affairs and Agriculture Environment Department (MMAA/ED), 1997.
- 6 Pollution Prevention and Abatement Handbook 1998, World Bank Group in collaboration with the United Nations Environment Programme and the United Nations Industrial Development Organization, 1999.
- 7 Integrated Pollution Prevention and Control (IPPC) Reference Document on Best Available Techniques in the Non Ferrous Metals Industries, Chapters 4 and 12, European IPPC Bureau, European Commission, December 2001.
- 8 Integrated Pollution Prevention and Control (IPPC), Draft Reference Document on Best Available Techniques for Large Combustion Plants European IPPC Bureau, European Commission (2004).
- 9 Environmental Guidelines and Environmental Protection Criteria for Mesaieed Industrial City, Draft Updated Version, submitted to the Qatalum Project, September 2005.
- 10 Corporate Directive NHC-CD04, Health, Security, Safety and Environment Policy, Hydro, rev11, 2004.
- 11 Pollution Prevention and Abatement Handbook 1998; page 437, Table 3 (NO₂, SO₂ and PM) and page 230 (ozone), World Bank Group in collaboration with the United Nations Environment Programme and the United Nations Industrial Development Organization, 1999.
- 12 World Health Organisation, Air Quality Guidelines for Europe, Second Edition, WHO Regional Publications, European Series, No. 91, 2000.
- 13 U. S. Environmental Protection Agency National Ambient Air Quality Standards (NAAQS)", EPA Office of Air Quality Planning and Standards, <http://www.epa.gov/ttn/naaqs/>.
- 14 Directive 1999/30/EC of the European Parliament and of the Council of 22 April 1999 relating to limit values for sulphur dioxide, nitrogen dioxide and oxides of nitrogen, particulate matter and lead in ambient air (First Daughter Directive). Directive 2000/36/EC, of the European Parliament and of the Council of 16 November 2000 relating to limit values for benzene and carbon monoxide in ambient air (Second Daughter Directive). Directive 2002/3/EC of the European Parliament and of the Council of 12 February 2002 relating to ozone in ambient air (Third Daughter Directive). Directive 2004/107/EC of the

-
- European Parliament and of the Council of 15 December 2004, relating to arsenic, cadmium, mercury, nickel and polycyclic aromatic hydrocarbons in ambient air (Forth Daughter Directive). (see <http://europa.eu.int/comm/environment/air/ambient.htm>)
- 15 Pollution Prevention and Abatement Handbook 1998; Guidelines for New Thermal Power Plant, pages 417-424, World Bank Group in collaboration with the United Nations Environment Programme and the United Nations Industrial Development Organization, 1999.
- 16 Memorandum, Adoption of Chronic Reference Exposure Levels for fluorides Including Hydrogen Fluoride, 2003, Office of Environmental Health Hazard Assessment (see <http://www.oehha.ca.gov/air/chronic/rels/HyFluoCREL.html>)
- 17 Circular on target values and intervention values for soil remediation: DBO/1999226863, Ministry of Housing, Spatial Planning and Environment Directorate-General For Environmental Protection, Department of Soil Protection. The Hague. Published in the Netherlands Government Gazette No. 39 on 4 February 2000.
- 18 Canadian sediment quality guidelines for the protection of aquatic life, 1999, Canadian Council of Ministers for Environment (CCME), Winnipeg, Canada.
- 19 Environmental Aspects of Dredging series, Volume 2b: Conventions, Codes and Conditions: Land Disposal, 1996, IADC/CEDA
- 20 Pollution Prevention and Abatement Handbook 1998; Aluminium Manufacturing, pages 261-266, World Bank Group in collaboration with the United Nations Environment Programme and the United Nations Industrial Development Organization, 1999.
- 21 The Royal Commission on Environmental Pollution, Fifth Report, 1976, Air Pollution Control: An Integrated Approach.
- 22 The Royal Commission on Environmental Pollution, Twelfth Report, 1988, Best Practicable Environmental Option.
- 23 Directive 96/61/EC of the European Parliament and of the Council of 24 September 1996 on Integrated Pollution Prevention and Control.
- 24 Directive 84/360/EEC, of 28 June 1984, Framework Directive on Combating EEC air Pollution from Industrial Plants.
- 25 Qatalum Project Briefing Note: Comparison of a Selection of Cumulative Harbour Options for the Gabbro Expansion and Qatalum Project Harbour Requirements, rev03; Atkins, 31st May 2006.
- 26 Annex 5, Oslo and Paris Conventions for the Prevention of Marine Pollution, Sixteenth Joint Meeting of the Oslo and Paris Commissions, Karlskrona: 13-17 June 1994, PARCOM Recommendation 94/1 on Best Available Techniques for Aluminium Electrolysis Plants.
- 27 Annex 20, PARCOM Recommendation 92/1 on Best Available Techniques for Plants Producing Anodes for new Electrolysis Installations in the Primary Aluminium Industry.
- 28 IAI: <http://www.world-aluminium.org/production/smelting/technology.html>

-
- 29 Pers.comm. Leif Ongstad (Hydro) to Emma Spence (Atkins), email 6th April 2006, copy of advice from Mott McDonald.
- 30 Directive 2001/80/EC of the European Parliament and of the Council of 23 October 2001 on the limitation of emissions of certain pollutants into the air from large combustion plants, Annex VI.
- 31 Lahmeyer International: Feasibility study for power supply to the aluminium smelter at Mesaieed industrial city at Qatar, August 2004.
- 32 Cooling System Selection, Doc Ref QA-P1-NHT-X15-00002, Rev 01, Hydro, November 2005.
- 33 Ecological Survey of the Marine and Coastal Environment of Mesaieed Industrial City, Final Report 2004, Scientific and Applied Research Centre (SARC), 2004.
- 34 Consultancy Services for Environmental Studies of the Proposed Dredging Works Port Mesaieed, Qatar, Final Report, WS Atkins International (on behalf of Dragomar International A. G.), March 2001.
- 35 Consultancy Services for Environmental Monitoring Studies of Dredging Works, Port Mesaieed, Qatar, Final Report, WS Atkins International (on behalf of Dragomar International A. G.), August 2001.
- 36 Crushed Stone Import Facility, Mesaieed Port, Environmental Impact Assessment, undertaken by Halcrow on behalf of QP, April 2001.
- 37 New Midrex DRI Plant for QASCO, Mesaieed: Detailed Environmental Impact Assessment. Report for Midrex Technologies Inc., November 2004.
- 38 Geotechnical Site investigation: Factual Report, REF : GD/1552/SI, Gulf Labs, May 2005.
- 39 Baseline Ecological Survey of the Marine Environment Opposite Mesaieed Industrial Area Parts 1-3, August 1997, Scientific and Applied Research Centre (SARC).
- 40 Green, E.P. and Short, F.T, World Atlas of Seagrasses, UNEP-WCMC and the University of California Press, 2003.
- 41 <http://www.un.org/esa/earthsummit/qatar-cp.htm>
- 42 Qatalum Master Specification, Doc Ref QA-S1-NHT-X50-00004, Rev 02G, Hydro, January 2001
- 43 <http://www.qatarembassy.net/environment.asp>
- 44 Environmental Baseline Study of Zirku Island, Zakrum Field (Upper), Umm Al Dalkh Field, Arzanah Field, Arzanah Island and Satah Field. Report for Zakrum Development Company (ZADCO), 1997.
- 45 Chao, S.Y., Kao, T.W., Al-Hajri, K.R.; A Numerical Investigation of Circulation in the Arabian Gulf,. Journal of Geophysical Research - Oceans, Vol. 97, No.C7: 11219-11236, 1992.
- 46 Qatar Ministry of Communication and Transport, Department of Meteorology (MCTDM).

-
- 47 Scott, D. A.; A Directory of Wetlands in the Middle East, IUCN, 1995.
- 48 Batanouny, K.H.; Ecology and Flora of Qatar, Alden Press Ltd., Oxford on behalf of University of Qatar, 1981, 245pp.
- 49 Jezierska-Madziar and Pińskwar; Fluoride in common reeds (*phragmites australis*) sampled from the old Warta reservoirs near Luboń and Radzewice, Poland. Fluoride Vol. 36 No. 1 21-24, Research Report 21, 2003.
- 50 Weinstein, L.H. and Davison, A.; Fluorides in the Environment, CABI Publishing, Oxford, 2004.
- 51 Harrison and Bates; The Mammals of Arabia, 1991.
- 52 Evans, M.; Important Bird Areas in the Middle East, BirdLife International, UK, 1994.
- 53 Oldfield, C. and Oldfield, J.; A Birdwatcher's Guide to Qatar; Dar Al Sharq Prining Press, Doha, Qatar; 1994 111pp.
- 54 Arab World, 1974, "Qatar's Rich Archaeological Heritage", pp.15-16.
- 55 Personal email communication from Captain Feisal A. Saad; A/Port Manager, Mesaieed Port Department; 14th August 2006.
- 56 Memorandum, Adoption of Chronic Reference Exposure Levels for fluorides Including Hydrogen Fluoride, 2003, Office of Environmental Health Hazard Assessment (see <http://www.oehha.ca.gov/air/chronic/rels/HyFluoCREL.html>).
- 57 Cooling Tower at Mesaieed Industrial Area, Qatar — Dispersion Studies and Corrosion Assessment, NILU Technical Report OR/2005 O-105042, March 2005.
- 58 On Determining the Role of CO in Local Ozone Production; I. Coll *et al*; Geophysical Research Abstracts, Vol 8, 10015, 2006.
- 59 UNECE (1991) Protocol to the 1979 Convention on Long-range transboundary air pollution concerning the control of emissions of volatile organic compounds or their transboundary fluxes. Geneva, 18 November 1991.
- 60 Photochemical Ozone Creation Potentials. A New Set of Characterisation Factors on the Scale of Western Europe; E. Labouze *et al*; The International Journal of Life Cycle Assessment, 9 LCA (3) 187-195, 2004.
- 61 Peralta, G., Pérez-Lloréns, J.L., Hernández, I. & Vergara, J.J., 2002. Effects of light availability on growth, architecture and nutrient content of the seagrass *Zostera noltii* Hornem. Journal of Experimental Marine Biology and Ecology, 269, 9-26.
- 62 Longstaff B.J. & Dennison W.C. Seagrass Survival During Pulsed Turbidity Events: the Effects of Light Deprivation on the Seagrasses *Halodule pinifolia* and *Halophila ovalis*; Aquatic Botany 65:105-121, 1999.
- 63 World Health Organisation, Fluorides, Environmental Health Criteria 227, World Health Organization, Geneva, 2002.

-
- 64 UNEP/RIVM, A.F. Bouwman and D. P. Van Vuuren. Global assessment of acidification and eutrophication of natural ecosystems. UNEP/DEIA&EW/TR.99-6 and RIVM 402001012, 1999.
- 65 SCENR, National Biodiversity Strategy and Action Plan: State of Qatar.
- 66 British Standard 5228, 1997. Noise and Vibration Control on Construction and Open Sites.