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# CV RIEN A.C. DAM

## HIGHER EDUCATION

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### 1. Proposed Position:

2. **Name of Firm:** WATERLAND EXPERTS  
3. **Name of Expert:** Marinus A. C. (Rien) Dam  
4. **Current Residential Address:** Waterkersweg 242 1051 PH Amsterdam, The Netherlands  
**Telephone No.:** +31 6 10475590 (mobile) / +31 20 6821590 (home)  
**E-Mail Address:** [rien.dam@outlook.com](mailto:rien.dam@outlook.com) / [hollanddelta.dam@gmail.com](mailto:hollanddelta.dam@gmail.com)  
5. **Date of Birth:** 25-10-1961 **Citizenship:** Dutch (The Netherlands)

### 6. Education

- 1994: **PhD**; Faculty of Earth & Life Sciences, Free University, Amsterdam, Holland (4 year PhD studies in Indonesia, 1989-1993)  
1988: **BSc/MSc**; Faculty of Earth & Life Sciences, Free University, Amsterdam, Holland; Physical Geography and Quaternary Geology (with land evaluation and soil sciences from Wageningen University)  
1987: Practical training and execution of small project: Tropical soils, land use planning studies (Costa Rica, with Wageningen University).  
1986: Geological investigations in the Bandung area (Java, Indonesia), as a preparation for mapping and research (PhD research project development).  
1985: Coastal zone studies and mapping project (Cirebon, West Java, Indonesia). Research internships.  
1981: **Secondary education:** High School (Atheneum); 7 main courses (Maths, Physics, Chemistry, Geography, History, English, Dutch).

### 7. Membership in Professional Associations:

- CCOP: Official representative for The Netherlands to CCOP, Coordinating Committee for Geoscience Programmes in East and Southeast Asia (period 2008-2013); [www.ccop.or.th](http://www.ccop.or.th)
- KNGMG: Royal Netherlands Geological and Mining Society, regular member. [www.kngmg.nl](http://www.kngmg.nl)
- KIVI: The Royal Dutch Society of Engineers, member; [www.kivi.nl](http://www.kivi.nl)

### 8. Other Training

- GIS courses, ITC Enschede, The Netherlands
- Project Management; TNO – Netherlands Organisation for Applied Scientific Research
- Miscellaneous short courses on geo-environmental topics, geohydrology and groundwater modelling software
- Teaching skills and BSc/MSc student supervision

### 9. Countries of Work Experience:

**Last ten years:** Laos, Vietnam, Indonesia, Bangladesh, Philippines, Malaysia, Mekong river Basin, Russia, Oman, Saudi Arabia, Iraq, Syria, Benin, Mozambique, Uganda, Tanzania, Ghana, EU-Brussels, The Netherlands. Earlier : India, Guyana, Costa Rica, Eritrea.

### 10. Languages

|                  | <u>Speaking</u> | <u>Reading</u> | <u>Writing</u> |
|------------------|-----------------|----------------|----------------|
| English          | fluent          | fluent         | fluent         |
| Bahasa Indonesia | fluent          | fluent         | moderate       |
| German           | good            | good           | moderate       |
| French           | good            | good           | moderate       |
| Spanish          | moderate        | moderate       | -              |
| Dutch            | mother tongue   |                |                |

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## 11. Employment Record

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| <b>From 01/01/2014</b>         | : 18 months   |
| <b>Employer</b>                | <b>Self employed</b> (www.WaterLand Experts.nl )  |
| <b>Positions held</b>          | <b>Independent advisor; Higher Education capacity building &amp; training, water management, geosciences, environmental sciences, natural resources management and climate change</b> |
| <b>From 2007 to 31/12/2013</b> | : 80 months   |
| <b>Employer</b>                | : Deltares  |
| <b>Positions held</b>          | : <b>Senior Expert water resources and geo-environmental issues, Senior Institutional development expert</b>  |
| <b>From 2004 to 2007</b>       | : 36 months   |
| <b>Employer</b>                | : University Groningen, The Netherlands   |
| <b>Positions held</b>          | : <b>Project manager for international cooperation, Higher education, environmental sciences projects (Ghana, Tanzania, Uganda, Mozambique, Eritrea)</b>                              |
| <b>From 2002 to 2004</b>       | : 18 months   |
| <b>Employer</b>                | : Delft University of Technology  |
| <b>Positions held</b>          | : <b>Project Coordinator and subject expert, Civil Engineering and Applied Geosciences projects (India, Philippines)</b>  |
| <b>From 1995 to 2002</b>       | : 48 months   |
| <b>Employer</b>                | : NITG-TNO, Netherlands Institute for Applied Geosciences TNO   |
| <b>Positions held</b>          | : <b>Senior Geosciences/Environment &amp; Capacity Building expert, International projects (Indonesia, Philippines, Vietnam)</b>  |
| <b>From 1994 to 2001</b>       | : 36 months   |
| <b>Employer</b>                | : Utrecht University, Faculty of Earth Sciences   |
| <b>Positions held</b>          | : <b>Geology expert / capacity building project Higher Education (Indonesia, Mozambique)</b>  |
| <b>From 1994 to 1995</b>       | : 12 months   |
| <b>Employer</b>                | : Utrecht University, Rector's Office   |
| <b>Positions held</b>          | : <b>Co-Director Environmental Studies Project, University of Guyana, Georgetown, Guyana</b>  |
| <b>From 1992 to 1992</b>       | : 6 months  |
| <b>Employer</b>                | : German Federal Agency for Geosciences BGR, Hanover  |
| <b>Positions held</b>          | : <b>Senior geo-environmental expert for the Bandung area (Indonesia)</b>   |
| <b>From 1989 to 1994</b>       | : 48 months   |
| <b>Employer</b>                | : Free University Amsterdam / Geological Agency Indonesia   |
| <b>Positions held</b>          | : <b>Geo-environmental researcher for the Bandung area (Indonesia) = PhD studies</b>  |

### Key Expertise

My professional qualifications consist of two main components:

- 1) technical expertise in environmental and engineering sciences (environment, water, geosciences, civil engineering, ICT) usually engaged in diverse technical assistance projects, and
- 2) long-term expertise in development of higher education, staff training for Tertiary education, applied research and strengthening universities and institutions for changing educational and societal needs.

Under component 2) I have some 15 years of experience in:

- Diverse policy studies for higher education (institutional) development (labor market, gender, curricula development, infrastructure and facilities, innovation programmes)
- Student support programmes, enrollment, academic administration programmes
- Strategic programme development covering both tertiary education and (top) research), in particular covering natural sciences, engineering

- Higher education policy review (incl. funding issues, quality assurance, long-term master plan development)

My experiences with higher education in Asia and elsewhere are based on project work in Laos, Vietnam, Indonesia, Philippines, Bangladesh, Oman, Saudi Arabia and earlier project work in India, Ghana, Mozambique, Tanzania, Uganda and Guyana. I have professional experience from 5 Dutch universities.

| 12. Detailed Tasks Assigned | 13. Work Undertaken that Best Illustrates Capability to Handle the Tasks Assigned   |
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|                             | <p><b>Name of assignment or project:</b> ADB-AUSAid National Integrated Water Resources Management Support Programme. Lao PDR (ongoing, 5 months)<br/> <b>Location:</b> Vientiane, Lao PDR<br/> <b>Client:</b> ADB, AUSAid, MONRE Laos, National University of Laos (NUoL)<br/> <b>Funding:</b> ADB-AUSAid<br/> <b>Main project features:</b> Development of national (IWRM) water management policies in Lao PDR, including capacity building at NUOL, formulation of groundwater policies (Action Plan), river basin management<br/> <b>Positions held:</b> Senior expert Higher Education, expert groundwater management, water resources management<br/> <b>Activities performed:</b> Project development, review of curriculum, strategic development of Faculty, course development, developing interaction university government – society, organisation seminars and training workshops.</p> <p><b>Name of assignment or project:</b> Mekong Delta Rise &amp; Fall research programme<br/> <b>Year:</b> 2013-2015, 8 months<br/> <b>Location:</b> Vietnam – Mekong Delta &amp; HCMCity<br/> <b>Client:</b> Deltares, Utrecht University and Vietnam partners DWRPIS-MONRE and Can Tho University, Vietnam<br/> <b>Funding:</b> Netherlands – Netherlands Organisation for Scientific Research NWO.<br/> <b>Main project features:</b> Integrated research programme on groundwater (extraction), land subsidence and salt water intrusion in the coastal regions of Mekong Delta, Vietnam. Includes development and application of integrated modelling toolbox and consultation of stakeholders in the region.<br/> <b>Positions held:</b> Senior Expert research geo-technical/groundwater/water resources<br/> <b>Activities performed:</b> Project development, appointment of researchers, problem analysis, organisation seminars and training workshops.</p> <p><b>Name of assignment or project:</b> Institutional capacity building for the Centre of Water Management and Climate Change (CWMCC/WACC), NICHE/VNM/ 104, Vietnam National University, HCMCity<br/> <b>Year:</b> 2011-2014, 6 months<br/> <b>Location:</b> Southern Vietnam – HCMCity<br/> <b>Client:</b> Vietnam National University and partners Deltares, Wageningen University and UNESCO-IHE<br/> <b>Funding:</b> Netherlands – Nuffic (<a href="http://www.Nuffic.nl">www.Nuffic.nl</a>)<br/> <b>Main project features:</b> Capacity building and curriculum development programme on IWRM and climate change adaptation. Staff training (MSc and PhD positions), short courses, course and training skills development, facilities and software tools;<br/> <b>Positions held:</b> Sr. expert for higher education and research in water management/IWRM, groundwater/water resources management expert<br/> <b>Activities performed:</b> Project development, course and module development for academic and professional training, organisation seminars and training workshops.</p> <p><b>Name of assignment or project:</b> Vietnam Facility project; the use of modelling tools for complex climate change, water supply and (ground) water management.<br/> <b>Year:</b> 2009-2011: 24 months<br/> <b>Location:</b> Vietnam &amp; The Netherlands<br/> <b>Client/Funding:</b> EVD-Netherlands Ministry for Economic Affairs<br/> <b>Main project features:</b> The project constituted a knowledge transfer and training programme, with a large number of technical workshops<br/> <b>Positions held:</b> Project manager, technical expert on water resources<br/> <b>Activities performed:</b> Training sessions and joint expertise development on:</p> |

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|  | <ul style="list-style-type: none"> <li>• Groundwater models (GMS, MODFLOW, iMOD) and model application in Mekong Delta, Vietnam Southern provinces and Ho Chi Minh City</li> <li>• Subsidence models and geology – geotechnical visualization tools</li> <li>• Decision Support Systems using model output (as above) in decision making processes and management systems for water resources</li> <li>• Project management, organising training sessions, result dissemination.</li> </ul> <p><b>Name of assignment or project:</b> Scenario Development in Integrated Water Resources Management for Bangladesh, NICHE/BGD/155<br/> <b>Year:</b> 2012-2014 (ongoing), 3 months<br/> <b>Location:</b> Bangladesh<br/> <b>Client:</b> BUET, CEGIS, WARPO and BAU (4 Organisations for higher education, policy and water management in Bangladesh)<br/> <b>Funding:</b> Netherlands – Nuffic<br/> <b>Main project features:</b> Capacity building and curriculum development programme on IWRM and climate change adaptation. Includes development of common applied research activities and consultation of stakeholders in the country (in relation to Bangladesh Delta Plan).<br/> <b>Positions held:</b> Sr. expert higher education and research in water management, groundwater/water resources expert<br/> <b>Activities performed:</b> Project development, course and module development for academic and professional training, organisation seminars and training workshops.</p> <p><b>Name of assignment or project:</b> Ho Chi Minh Flood Mitigation<br/> <b>Year:</b> 2010-2013: 13 months<br/> <b>Location:</b> Vietnam<br/> <b>Client:</b> Steering Centre Flood Control – People’s Committee, HCMC, Vietnam<br/> <b>Funding:</b> Netherlands - Vietnamese government<br/> <b>Main project features:</b> Development of an integrated flood mitigation strategy, including structural and non-structural measures for HCM city, Vietnam. The project includes studies of urban drainage problems, effects of groundwater extraction on subsidence, foundation stability for on hydraulic infrastructure<br/> <b>Positions held:</b> Sr. expert geo-technical/groundwater/water resources<br/> <b>Activities performed:</b> Specific assessments of urban drainage problems, effects of groundwater extraction on subsidence, subsidence assessments of geo-environmental conditions and geo-technical and foundation aspects for new and existing hydraulic infrastructure.</p> <p><b>Name of assignment or project:</b> Deltares knowledge programme on land subsidence in projects concerning water safety (flooding) and water supply (alternatives for groundwater)<br/> <b>Year:</b> 2009 – 2013; 15 months<br/> <b>Location:</b> The Netherlands, Jakarta, Ho Chi Minh City, Dhaka<br/> <b>Client:</b> partner agencies in all countries<br/> <b>Funding:</b> Netherlands and partner country governments<br/> <b>Main project features:</b> Development of an expert system land subsidence and implications for urban water management. Relationships between groundwater extraction and land subsidence, implications of land subsidence for foundation stability of infrastructure. Economic costs subsidence and governance issues.<br/> <b>Positions held:</b> Technical &amp; knowledge development expert, groundwater and water resources experts<br/> <b>Activities performed:</b> Project conceptualization, activity management, organising joint training sessions, technical analysis and assessment on pertinent issues. Including activities: <ul style="list-style-type: none"> <li>• Quantitative land subsidence prognosis and geotechnical model development</li> <li>• Land Subsidence hazard and risk maps for several major cities in SE Asia</li> <li>• Land subsidence in coastal peatlands (The Netherlands, Indonesia)</li> </ul> </p> <p><b>Name of assignment or project:</b> Miscellaneous short assignments related to management of groundwater for water supply and related geo-environmental hazards (flooding, land subsidence and natural disasters, groundwater resource depletion). For Worldbank and various national governments<br/> <b>Year:</b> 2001-2014; 72 months<br/> <b>Location:</b> various countries: Indonesia, Vietnam, Jordan, Benin, Bangladesh<br/> <b>Client:</b> Dutch Government, partner country government<br/> <b>Funding:</b> Netherlands government, country governments, Worldbank, ADB</p> |
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|  | <p><b>Main project features:</b> Studies for regional (ground)water management, environmental hazards such as land subsidence, coastal erosion, flooding, natural resources management</p> <p><b>Positions held:</b> (Ground)Water resources and geosciences technical expert</p> <p><b>Activities performed:</b> Project conceptualization, management, organising training sessions on technical subjects, overall project coordination, result dissemination. Included specific activities/studies on:</p> <ul style="list-style-type: none"> <li>• Regional (ground)water and water resources studies</li> <li>• Inventories for environmental hazards such as land subsidence, coastal erosion, flooding</li> <li>• Water resources assessments for water supply</li> </ul> <p><b>Name of assignment or project:</b> SOWACOR programme (Soil, Water and Coastal Resources); Scientific cooperation programme with KAUST (King Abdullah University of Science and Technology, Saudi Arabia)</p> <p><b>Year:</b> 2008-2011: 12 months</p> <p><b>Location:</b> Saudi Arabia &amp; The Netherlands</p> <p><b>Client:</b> KAUST (King Abdullah University of Science and Technology, Saudi Arabia), Utrecht University (leading partner).</p> <p><b>Funding:</b> KAUST, Saudi Arabia</p> <p><b>Main project features:</b> The collaborative research program focused on exploring innovative techniques for soil and (ground)water management, water supply options in constrained (arid) environments.</p> <p><b>Positions held:</b> Project coordinator, technical expert water resources</p> <p><b>Activities performed:</b> Scientific workshops and expertise development on:</p> <ul style="list-style-type: none"> <li>• Groundwater quantity and quality, water supply sources</li> <li>• Soil solids - water interaction (geotechnical, soil &amp; groundwater chemistry)</li> <li>• Subsurface geology – geotechnical visualization tools</li> <li>• Natural recharge and water quality treatment systems (infiltration)</li> </ul> <p><b>Name of assignment or project:</b> Integrated Risk Management and Institutional Strengthening (IRMIS)</p> <p><b>Year:</b> 2007-2008: 4 months</p> <p><b>Location:</b> Aceh, Indonesia</p> <p><b>Client:</b> Tsunami &amp; Disaster Mitigation &amp; Research Centre, Syiah Kuala University, Banda Aceh, Indonesia</p> <p><b>Funding:</b> TNO - Netherlands Institute for Applied Geosciences</p> <p><b>Main project features:</b> The project IRMIS Aceh-Nias aims to develop and strengthen the recently formed Tsunami and Disaster Mitigation Research Centre of the Syiah Kuala.</p> <p><b>Positions held:</b> project manager, technical expert DRR and institutional strengthening</p> <p><b>Activities performed:</b> Development of the project, including detailed definition of its scope and activities, preparation of funding proposal and negotiations with funding agency and with UNDP on start-up of the project.</p> <ul style="list-style-type: none"> <li>• Assessment of regional critical groundwater resources</li> <li>• Assessment of regional (provincial) geological and geotechnical hazards for natural disasters and development of built environment</li> </ul> <p><b>Name of assignment or project:</b> University of Groningen partnerships for Higher Education strengthening – International Cooperation</p> <p><b>Year:</b> 2004-2007</p> <p><b>Location:</b> Based in The Netherlands, project work and missions to: Eritrea, Ghana, Uganda, Tanzania, Mozambique</p> <p><b>Client:</b> Nuffic – MHO programme and partner universities and institutions</p> <p><b>Funding:</b> Dutch Government, through Nuffic MHO programme</p> <p><b>Main project features:</b> Tertiary education policy studies (labor market, financial viability for new programmes, quality assurance work)</p> <p><b>Positions held:</b> Senior project expert – project manager responsible for project portfolio and technical assistance activities</p> <p><b>Activities performed:</b> Strengthening Bachelor and Master teaching programmes, developing new applied research in several faculties, improving university administration and ICT systems, staff coaching.</p> <p><b>Name of assignment or project:</b> WaterPlus, University of San Carlos (USC), Department of Civil Engineering, Water Resources Centre</p> <p><b>Year:</b> 2000-2004, 6 months</p> |
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|  | <p><b>Location:</b> Philippines<br/> <b>Client:</b> University of San Carlos, Cebu – Delft University of Technology<br/> <b>Funding:</b> Netherlands – Nuffic<br/> <b>Main project features:</b> Capacity building, curriculum development, research programme on water management and hydro(geo)logy<br/> <b>Positions held:</b> Sr. project expert for higher education and research in water management, groundwater/water resources expert, project management<br/> <b>Activities performed:</b> Project management, supervision and guidance PhD researchers, MSc students, course development for academic programmes, organisation seminars and training workshops.</p> <ul style="list-style-type: none"> <li>• Studies and integrated assessment for regional water resources, including groundwater, producing regional groundwater potential maps</li> <li>• Studies on regional geologic and geotechnical hazards, including seismicity, landslides, coastal abrasion, soil erosion</li> <li>• Transfer of expertise and skills in training programmes</li> </ul> <p><b>Name of assignment or project:</b> MHO projects for Cochin University of Science and Technology (CUSAT), for Delft University of Technology<br/> <b>Year:</b> 2001-2004<br/> <b>Location:</b> Cochin University (CUSAT), Kerala, India and Delft, The Netherlands<br/> <b>Client:</b> Cochin University of Science and Technology (CUSAT), Kerala, India<br/> <b>Funding:</b> Dutch Government, through Nuffic MHO programme<br/> <b>Main project features:</b> Strengthening Master programmes and applied research in several faculties, improving university administration and ICT systems,<br/> <b>Positions held:</b> Senior project expert, subject specialist natural &amp; engineering disciplines<br/> <b>Activities performed:</b> Project coordination and management, financial administration; technical assistance missions for several projects/topics, working on curricula and university staff skills, introducing new, strategic research.</p> <p><b>Name of assignment or project:</b> Eduardo Mondlane University, Dept. of Earth Sciences Cooperation, Utrecht University<br/> <b>Year:</b> 1995-2001: 18 months<br/> <b>Location:</b> Southern Mozambique, greater Maputo region<br/> <b>Client:</b> Eduardo Mondlane University, Dept. of Earth Sciences &amp; Geolog. Institute, Mozamb.<br/> <b>Funding:</b> Nuffic – The Netherlands<br/> <b>Main project features:</b> A 6-year cooperation in higher education for Earth sciences, including: regional geo-environmental issues, groundwater, coastal erosion hazards, natural resources management, spatial planning, environmental guidelines), southern Mozambique.<br/> <b>Positions held:</b> Geologic expert, project coordinator, instructor<br/> <b>Activities performed:</b> Field studies on geotechnical, groundwater, natural resources and geology, surface water, course development and teaching.</p> <p><b>Name of assignment or project:</b> Environmental Studies Project, University of Guyana<br/> <b>Year:</b> 1994-1995<br/> <b>Location:</b> Georgetown, Guyana – Utrecht University, The Netherlands<br/> <b>Client:</b> University of Guyana<br/> <b>Funding:</b> European Union international cooperation programme<br/> <b>Main project features:</b> Setting up an interfaculty programme for Environmental Studies relevant for Guyana<br/> <b>Position held:</b> Co Director and Senior expert<br/> <b>Activities performed:</b> Project management, curriculum and course development, staff training, facility development, strategy and master plan formulation.</p> <p><b>Name of assignment or project:</b> Geological development of the greater Bandung area, Indonesia (PhD thesis research).<br/> <b>Year:</b> 1989-1994: 54 months<br/> <b>Location:</b> Bandung region, West Java, Indonesia<br/> <b>Client:</b> Geological Research and Development Centre, Bandung, (now Badan Geologi).<br/> <b>Funding:</b> Netherlands organization for Scientific Research NWO<br/> <b>Main project features:</b> 4-year regional study on geological and geotechnical issues (geology, seismic, volcanics, groundwater and water resources, subsidence, landslide hazards), for the greater Bandung city region.<br/> <b>Positions held:</b> geological, geotechnical, hydrogeological expert</p> |
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|  | <p><b>Activities performed:</b> A variety of field studies on various geotechnical, groundwater and subsurface geology, water related issues, map &amp; report compilation, coaching a team of Indonesian counterpart staff. Output and results:</p> <ul style="list-style-type: none"> <li>• Geological maps for the greater Bandung Basin area</li> <li>• Basin sedimentary geological map (subsurface geology, hydrogeology) for the Bandung plain area; water resources inventory for water supply issues</li> <li>• Geochemical assessment of Ciwidej river system and Gn. Patuha Volcano.</li> </ul> |
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#### 14. Certification:

I confirm that I will be available to carry out the assignment for which my CV has been submitted, in accordance with the implementation arrangements and schedule set out in the procurement notice.

I understand that any willful misstatement described herein may lead to my disqualification or dismissal, if engaged.



Signature of expert

Date: 24-06-2015  
(Day/Month/Year)

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#### References

##### Mr Martien Beek

Ministry Infrastructure and Environment, Office Delta Commissioner  
Mr. Beek was 1st Secretary at the Netherlands Embassy in Hanoi, Vietnam in the years 2009-2013, and responsible for water and environment  
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##### Mr. Cees van de Guchte

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##### Professor Richard J.T. Klein

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Other references, in particular also from some of the higher education institutions that I worked with are available on request.