

PROGRAMME 29 SEPTEMBER - 11 OCTOBER
VISITING DUTCH WATERBOARDS



VANDERLEEST
consultants

THE VISIT WAS FINANCED AND INITIATED
BIJ THE IWRM A CO-PRODUCTION OF THE
NAMIBIAN GOVERNMENT AND DEUTSCHE
GESELLSCHAFT FÜR INTERNATIONALE
ZUSAMMENARBEIT (GIZ) GMBH



PREAMBLE

As Honorary Consul of the Republic of Namibia in the Netherlands, but also as Netherlands former and first residential Chargé d’Affairs in Namibia in the early years just after independence, I am honoured to welcome this high-level Namibian delegation to the Netherlands.

Our two countries enjoy a longstanding relationship going back as far as the Dutch East India Company in the mid 17th century. Ever since, we established a rich array of contacts between the two countries and their peoples. When the Netherlands Embassy opened its doors in Namibia in 1991 we together got engaged in the water supply sector particularly in former Ovamboland seeking to provide water and sanitary facilities to those Namibians who had been deprived of it for so many years.

What we have in common is that we both realise that water can be your dearest friend but a fearful enemy at the same time. Water cannot be taken for granted; we need to manage this rich resource carefully. That was one of the lessons your engineers taught me in the 90’s. And that precisely brings our two countries together and makes us join hands again in this study tour. I am delighted the cooperation of the early 90s is still bearing fruit today. The tour is organised by one of your former Dutch colleagues at your Ministry, Mr Henk van der Leest. He and his company undertook to offer you a rich introduction on water governance in the Netherlands in its broadest sense, being fully aware of Namibian conditions. Hence you are in very good and knowledgeable hands.

The programme will give you an opportunity to discover how water governance is practiced in this relatively small, though heavily populated country. I trust the visits and encounters will offer you platforms for exchange and reflections and for inspiration. Allow yourself to feel free to exchange with the people you meet, ask questions and come up with observations. You are among peers and through peer reviews we can learn and advance our thinking and practice. That is vice versa.

I wish you a fruitful study tour, mutually inspiring and a good learning experience but also an enjoyable visit in company of friends.

Cornélie M. van Waegeningh
Honorary Consul of the Republic of Namibia in the Netherlands

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WATER BOARDS IN THE NETHERLANDS WHO IS INVOLVED?

Water and sanitation in the Netherlands is provided in good quality and at a reasonable price to the entire population. At least this is our general perception. Water in the Netherlands is more; it is also a threat, and an economic factor of importance. A large array of institutions are responsible for providing water and sanitation services. 10 regional water companies provide drinking water, 431 municipalities are in charge of sewerage, and 25 water boards provide water management and treat wastewater, and 12 provinces provide special environmental management. One ministry is responsible for policy-making, planning and EU involvement in the sector. This is the Ministry of Infrastructure and Environment.

A large number of knowledge institutes and NGO's contribute to the developments in the sector, and add to the sectoral developments, technologically and participatory. Water is a Top-Sector, and Deltaris is one of the leading institutions.

Two business associations – VEWIN (www.vewin.nl) represent the interests of the water companies and the UVW (Unie van Waterschappen/Union of Water Boards) represent the 24 water boards. The water sector has significant economic importance. To illustrate such: In the northern parts of the Netherlands this sector alone had a inland turn over of over € 700 million and employed over 3,500 people in 2011.

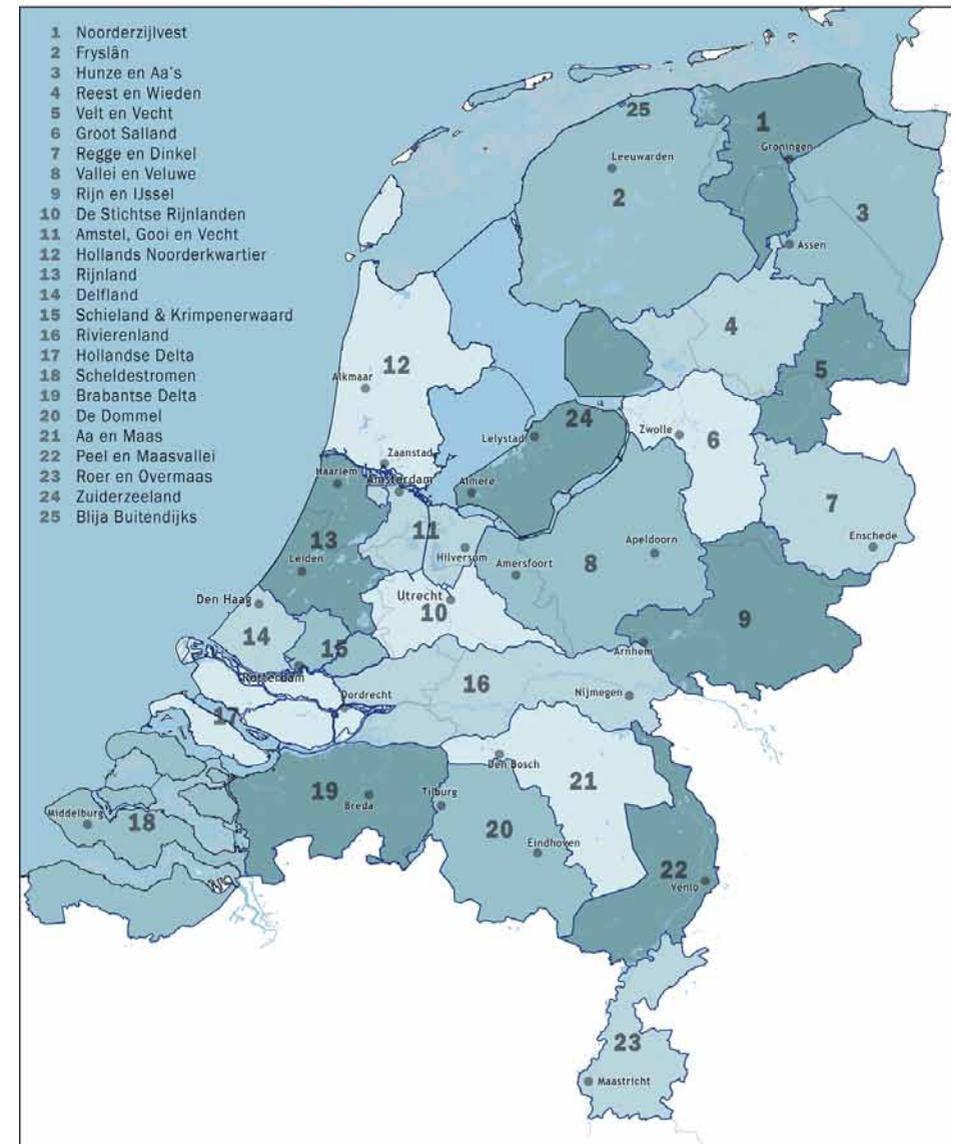
An interesting feature of the Dutch water sector is the performance benchmarking system for water companies. This was first introduced in 1997. This is a voluntary benchmark in use by the water companies, challenging a higher performance. The standards are high, as a result the Dutch piped water system has one of the world lowest leakages of less than 6%. This benchmark has inspired similar efforts in other European countries, in some neighbouring countries the leakage may be 11%.

The Dutch parliament passed a law in 2004 banning private sector provision of water supply. Thus preventing privately owned companies to provide drinking water to the public. These concessions are thus limited to government owned companies, parastatals.

Water Boards in the Netherlands are historic institutes as the first boards were established in the 13th century. The first was Delfland in 1255. They gradually evolved and obtained the judiciary rights to make by-laws. The Netherlands being exposed to sea and rain faced an ever present treat of loss of life and land. A need for managing the infrastructure of land



25 WATER BOARDS 2013



and water was eminent. The boards were initially formed of local nobility and the more prosperous farmers. Only since 2008 have the board members been democratically elected.

These boards were set up to maintain polders, secure water drainage and design flood protection. Initially most of the work was done by the beneficiaries and farmers as they were designated parts of the Dikes to maintain and obliged to clean their ditches and so forth. This led to erratic maintenance and still floods occurred. "The adagio was: "He who is harmed by the water stops the water." The farmers and beneficiaries were pushed hard by the Boards to do their maintenance. The water board meted out punishments, financial penalties and even death sentences were more than once applied.

From the 17th century most of the boards were collecting taxes to finance their operations. Around 1798 the government tried to centralize the water governance and established Rijkswaterstaat. A water ways and roads authority, which should make the water boards redundant. This failed and Rijkswaterstaat works ever since in collaboration with the Water Boards under the Ministry of Infrastructure and Environment.

There were about 3,500 small water boards by 1850 which were reduced to 24 boards by the end of 2013. This trend continues and by 2014 it is expected that we have only 23 Water Boards.

PROGRAMME

DAY 1: SUNDAY - 29 SEPTEMBER 2013 PAG. 13

TIME	ACTION
13:30	Pick up and move to hotel
15:00	Arrival Hotel Den Haag (Mövenpick Voorschoten)
18:00	Supper possibly with welcoming
20:00	Introduction of the programme; brief overview of Dutch Water Management and Parties

DAY 2: MONDAY - 30 SEPTEMBER 2013 PAG. 14

TIME	ACTION
9:30	Arrival at the water treatment facility de Groote Lucht (Maassluisdijk 175 Vlaardingen 010 4452544)
10:00	Introduction of the waste water treatment plant de Groote Lucht
11:30	Travel to Delft (Phoenixstraat 32 delft)
12:00	Lunch Koffiehuys Delft
13:00	Welcome by Deputy Dijkgraaf
13:30	Movie Delfland including explanation tax system
13:45	The digital delta: Handling information, data and telemetry
14:30	Short break
14:45	Energy and resource recovery Waste Water Treatment Plant
16:00	End of programme

DAY 3: TUESDAY - 1 OCTOBER 2013 PAG. 16

TIME	ACTION
09:00- 10:00	Presentation of the EU Framework Directive Water (Kader Richtlijn water) (Plein 1813 den Haag)
11:30	Welcome at the Association of Water Boards, Unie van Waterschappen.
14:00	Aqua Terra Nova BV: Vreugdenhil program takes 3 hours. Flowers and Tomato green house Farming, with innovative water and energy management. Contain, buffer, prepare and apply water systems for advanced agriculture.
17:00	End of Programme
18:30	Supper with guest Association of Netherlands Municipalities (VNG) and Soil and More international (at 'T EETCAFE, Lange Houtstraat 25, de zaal)

DAY 4: WEDNESDAY - 2 OCTOBER 2013 PAG. 19

TIME	ACTION
09.30	Rijkswaterstaat in Arnhem (introduction Rijkswaterstaat) meeting Directors and Specialists Creating value and contract management, new contract formats.
11:15	PES Payment for Eco-Systems
12:00	Lunch
13:00	Space for the river (Nijmegen) Introduction
14:00	Field visit
17:30	Recap and Departure
19:15	Arrival at Hotel Mooie Water Ommen, 15 km just before Coevorden (Adres Oude Oever 10 Ommen tel 0529 478777)

DAY 5: THURSDAY - 3 OCTOBER 2013 PAG. 21

TIME	ACTION
9:00	Water board Velt en Vecht at Coevorden, now to be called "Vechtstromen": Cross border management and slowing down the water run-off, re-establishing the meandering river in a cross border effort. Governance and board aspects, water management and costing. (Location: Hardenbergerweg 23 Loozen (Zwieseborg))
12:00	Lunch and Traveling further North to Garmerwolde (Groningen)
14:00 - 16:30	Waterboard Noorderzijvest Groningen: Wastewater purification and 'reclamation' Works at Garmerwolde a new installation which will be officially opened on the 12th of Oktober. A unique plant working on environmentally neutral process. (Location: Grasdijk 2 Garmerwolde)
18:30	Diner with guests from water board and municipalities. To be held at 'De Molen' at Ten Post. Here there are facilities for presentations during this Diner. Good opportunity to share experience at board and snr. management level. (Eestumarweg 39 Ten Post)
22:30	Arrival at Hotel Bastion (Hotel Euvelgunne Groningen 050 541 4977): <i>Please note: Between 16:30 and 18:30 we take a short break to check in and refresh.</i>

DAY 6: FRIDAY - 4 OCTOBER 2013 PAG. 25

TIME	ACTION
9:00 - 11:00	Waterlab Noord Nederland, to be found in Glimmen. A Water Quality Laboratory, a privatization example of previously governmentally run services. (Rijksstraatweg 85 Glimmen)
13.00	Arrival at Wetsus Campus Leeuwarden (Agora 1 Leeuwarden 050 284 3000) Welkom and presentation, water challenges in Namibia
14:00	Introduction water Campus. Presentation Science, Business and Education Presentation by Bucon
15:30	Tour at the Wetsus Campus Introduction by various companies established at the Water Campus
17:00	End of programme
19:00	Hotel ZwarteWater at Zwartsluis. Time for a well deserved evening of rest and relaxation in a Hotel at the River.

DAY 7: SATURDAY - 5 OCTOBER 2013 PAG. 27

TIME	ACTION
9:00	Visiting the unique Balgstuw at the Zwartemeer, Ramsweg 2 at Ens. City tour city of Kampen, ancient city hall (Golden Room) a presentation on the water flood brigade.
12:00	The Hague, Hotel Mövenpick Voorburg Den Haag

DAY 8: SUNDAY - 6 OCTOBER 2013 PAG. 28

A DAY OFF	If you want to see something special, visit places or people, you are welcome to call Henk @ 0675331843 or Bart @ 0657331843
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DAY 9: MONDAY - 7 OCTOBER 2013 PAG. 29

TIME	ACTION
9:00	Vitens-Utrecht (Reactorweg 47 Utrecht 088 884 8094) Vitens serves 5.4 mio people with piped drinking water. Quantity, quality and care for sustainable production.
12:00	We are invited to have lunch with the Vitens team.
14:00	Business presentation at the Measlantkeringshuis, flood warning and management.
16:00	From the Measlantkering we do the water tour of Rotterdam in what we call the Water Taxis. See the harbor.

DAY 10: TUESDAY - 8 OCTOBER 2013 PAG. 31

TIME	ACTION
10.00 - 14:00	Workshop will be held at the VNG at The Hague. (Nassaulaan 12 Den Haag) Possibly participants of those we met during the past days: VNG, guest is an earlier speaker: Annemarie Tosseram Terra Nova; Mr. Aad Wubben To be named...

DAY 11: WEDNESDAY - 9 OCTOBER 2013 PAG. 33

TIME	ACTION
10:00	All good things come to an end as we arrive at the airport: 12:25 Departure to Frankfurt



PURPOSE OF THE VISIT

The Ministry of Agriculture, Water and Forestry, and its partners (EU, GIZ, BGR, DRFN) is implementing the project, IWRM in the Cuvelai-Etosha Basin, whose objective is: Management of the Namibian Water Resources – on the basis of IWRM - is improved. The overall focus of the project is improving water governance. Project Activities are being carried out in the Cuvelai-Etosha basin. It was decided that a study tour was held to the Netherlands to compare and learn, practical and theoretical aspect of IWRM (institutional operations) at basin level with focus on the following issues:

- Administrative governmental and institutional developments.
- Administration and operation implementation: Tension between policy and implementation.
- Water resource management technology: Water retention, Combating salinity (intrusion).
- Water resource management cross border (Neth. Germany).
- River management and inundation, drinking water and purification.
- Wastewater and recycling of natural resources, Water, Energy and Natural Resources.
- Cost recovery and payment for ecosystem services.

DAY 1: SUNDAY 29 SEPTEMBER 2013 ARRIVAL - THE DELEGATION IS WELCOMED AT THE AIRPORT AND HOSTED IN THE HAGUE

Programme introduction follows over diner, meeting the Consul Honorair of Namibia in the Netherlands



DAY 2: MONDAY - 30 SEPTEMBER 2013

DELFLAND AND OVERVIEW OF THE WATER SECTOR

Hoogheemraadschap Delfland is responsible for an area of 41,000 hectares where 1.4 million people live and work. There are ± 40,000 businesses in this area. This makes the region one of the most densely populated and highly industrialized areas of the Netherlands. We shall visit the waste water plant and meet the deputy Dijkgraaf and learn about digitalisation of the delta en retrieving energy and resources from waste water.

The Delfland area encompasses the Agri/industrial area called the Westland, on a 6.000 ha area a high output of agricultural produce is realised. Making the Westland a significant exporter of agricultural produce worldwide.

We shall visit the waste water treatment facility 'de Grootte Lucht'. Various modifications to enhance its treatment capacity have been carried out over the past years. Anna van den Bor will explain the various aspects of the facility. She will be our guide for the morning while visiting the various steps of the treatment process. During the tour you will get a first glimpse of the port of Rotterdam.

After a lunch break in the old city centre we will have two key speakers expanding the horizons of technical developments.

OUR HOSTS ARE:



Adri W. Bom-Lemstra

The deputy Dijkgraaf is our host at Delfland

In her portfolio as deputy Dijkgraaf, she is responsible for the development and maintenance of water barriers, dikes and country and environmental plans.



Anna van den Bor

The waste water treatment plant de Grootte Lucht

Anna is our guide in the morning at de Grootte Lucht. Anna holds a Master degree in ecology and works as a process technologist. She has in-depth knowledge of the biological processes of the waste water treatment plant.



Joost de Haan

Digitalisation of the delta

Joost will give a presentation about the development of the digital delta in the afternoon. Joost holds a master degree in public administration and has ample experience as an innovation manager. Currently, he is developing the Dutch National project 'Digitale Delta' in order to establish unlimited access to World Wide water data.



Oscar Helsen

Reclaiming resources from waste water.

Oscar is responsible for the development of the so-called energy and resource factories; retrieving energy and resources from waste water. He holds a master degree in biology and has been active in setting up collaboration between the water board and the municipalities, to optimize the various waste water catchments.



DAY 3: TUESDAY - 1 OCTOBER 2013

HIGH EFFICIENCY IN WATER AND AGRICULTURE, EVENING MEETING VNG

Tuesday is a day of various encounters. The Kader Richtlijn Water, the EU Framework Directive is of high impact in the water sector, its importance perhaps unprecedented. This will be presented to us at 'Plein 1813' a place of great historic value to the Dutch. After which we will walk to the Association of Regional Water Authorities and meet its Director. Water Boards/Authorities date from way before 1813. The afternoon should enhance our understanding of sustainable water management and crop production in a saltwater intrusion prone area.

MORNING PROGRAMME THE EU FRAMEWORK DIRECTIVE WATER

Diederik van der Molen is project manager Kaderrichtlijn Water (KRW) and responsible for the actualisation of the flood area management planning 2015. In this programme the water quality management of provinces and water boards must be updated. His Directorate-General Environment & Water of the Ministry of Infrastructure and Environment is responsible for the general implementation of policies for water management.

INVITED FOR LUNCH AT THE UNIE VAN WATERSCHAPPEN

The Unie Van Waterschappen is especially about the safeguarding of interests of the Water Authorities with regard to third parties, more particularly the National Government and Parliament. This function becomes apparent, for example, in consultations with the ministries and Members of Parliament, in comments on policy documents and memorandums, in the participation of advisory and consultative bodies, and so on. The more the influence of European regulation increases, the more international the character of this promotion of interests becomes. The Association is member of all relevant European organisations. In addition to external promotion of interests, the Association also supports Regional Water Authorities in for instance legal affairs.

SUSTAINABLE WATER MANAGEMENT AND FOOD PRODUCTION

Since 1996, Aqua-Terra Nova operates with a small team of specialists as a research and consultancy firm in the fields of water, ecology, environment and urban planning. Rooted in the centre of the world's most intensive covered horticulture area, the company has a strong connection to water management, horticulture and technology. Clients range from small private greenhouse companies to water boards and the national government.

Many of our projects are developed through Public-Private-Partnerships in which we have proven our strong process and technological skills. We see ourselves as the "architect" of (waste) water management projects. Our theme is "More Crop per Drop", a cross-over between the Dutch top sectors Water and Horticulture supported by the Dutch government.

Our focus and ambition is to bring our water resource and treatment concepts along with the possible synergy with composting. In our vision local-4-local agriculture is a core aspect for sustainable communities. Aad Wubben will elaborate in his presentation.

Diner and good company are key to success in a Dutch Eetcafé.

SOIL AND MORE, COMBATING DEGRADATION - EVENING PROGRAMME

Fertile soil is an indispensable component of sustainable agriculture and food production. Therefore, we strive to produce high quality compost by developing small-, medium and large scale composting projects. Shortage and decrease of fertile land and soil degradation due to chemical fertilizer application and inappropriate waste and crop residue management may become threat. As a result of intensive agricultural practices, using huge amounts of chemical fertilizers and pest and disease control agents, most soils are degraded and heavily depleted. Thus, farmers increasingly see themselves confronted with decreasing yields, increasing water consumption and various crop diseases.

Special project, "greening the desert": Our goal is to bring back soil fertility and to develop new farming areas through land reclamation. In Egypt, for instance, we turn desert soil into arable land. We provide required know-how and produce high quality compost in order to help greening the desert.

WHAT IS VNG THE DEVELOPMENTS IN THE NETHERLANDS AND BEYOND...

VNG-international is the association of the Dutch Municipalities. It supports decentralisation processes and facilitates decentralised cooperation. We provide capacity building services to strengthen local governments, their associations, training institutes and decentralisation task forces both in developing countries and countries in transition. We build on our own internal existing experience, with high quality services and e.g. tools for tax collection and handbooks. VNG International is the international cooperation agency of the Association of Netherlands Municipalities.

OUR HOSTS ARE:



Diederik van der Molen
Project manager Kaderrichtlijn Water (KRW) and responsible for the actualisation of the flood area management planning 2015



Rijkswaterstaat
Ministerie van Infrastructuur en Milieu



Albert Vermuë

UNIE VAN WATERSCHAPPEN

General Director Association of Water Authorities

Mr Vermuë has invited the delegation for lunch as to welcome the Namibians to meet the water sector in The Netherlands. In general the Association aims to promote the interests of Regional Water Authorities ('waterschappen') at a national and international level. All 24 Regional Water Authorities are member of the Association.



Aad Wubben

Our host at Vreugdenhil a large greenhouse

Aad is director at Aqua-Terra Nova and our host for the afternoon. He holds a BSc environmental management, with strong experience in the fields of horticulture, water management, waste water treatment and integrated solutions for waste water reuse in large horticultural clusters, also in international context.



A.J. van den Bos

Founder and managing partner of Soil and More international since 2007

He holds a MBA from Rotterdam School of Management (Erasmus University). Aart has more than 20 year's experience and worked in over more than 20 countries as consultant or business developer.



Anne-Marie Tosserams

Project manager at VNG-international (association for municipalities)

Anne-Marie holds a master degree in Public Policy and Human Development. She emphasized the connection between public policy and decision-making processes, or more specifically, the effectiveness and efficiency of governance. Anne-Marie has worked at the VNG-international ever since, working on the strengthening of municipalities worldwide.



DAY 4: WEDNESDAY - 2 OCTOBER 2013 RIJKSWATERSTAAT, GOVERNING, CONTRACT FORMATS, ECO SYSTEMS AND COSTS, AND THE NEED FOR SPACIOUS RIVERS

Roads, infrastructure 'water-Traffic-Environment' authority = Rijkswaterstaat. We shall look at contemporary forms of contracting that are applied in our contracting industry. Subsequently flood control and real time monitoring is on the programme. The final part of the morning is dedicated to knowledge of payment for ecosystems. The afternoon is a site visit to space for the river.

An active day while starting at The Hague we travel onwards to Arnhem and Nijmegen and all the way to Coevorden.

RIJKSWATERSTAAT FOUNDED IN 1798 PUSHING STILL FOR INNOVATION IN 2013

Rijkswaterstaat is the implementing agency of the Ministry of Infrastructure and Environment. It was founded in 1798, as the Office of Public Works, from 1848 onwards it is known as Rijkswaterstaat. Commissioned by the Ministry of Infrastructure and the Environment, the organization manages and develops national networks of main roads, main water and main waterways. The mission of Rijkswaterstaat is to work on the smooth and safe flow of traffic, a clean and user friendly national water and flood protection. The word Rijkswaterstaat is not translated, it is a brandname. Jan Hendrik Dronkers is the the Director General (DG) of Rijkswaterstaat since February 1, 2010. Rijkswaterstaat is a large organization where approximately 9,000 people are employed.

OUR HOSTS ARE:



Jos Stammen

Our host for the day at Rijkswaterstaat

Jos is cluster director Netherlands east, district south at Rijkswaterstaat. He holds a master degree in Environmental Science. He has more than 10 years of working experience in the field of water management with special interest in asset management and participatory processes.





Suzanne van der Meulen

Payment for Ecosystems

Suzanne is senior researcher/advisor on sustainable use of ecosystem service with a specific focus on river basin management and soil and groundwater management. Suzanne holds a master degree in physical geography. She is the coordinator of the Deltares strategic research program on Ecosystem Services.



Rijkswaterstaat



Karsten Shipperheijn

Our guide for the field visit of the afternoon

Manager for the program "Space for the River, Lent". Karsten holds a master degree in political history. As a process and program manager he gained much experience with processes and programs that are technical, institutional and political highly complex. He operates at the junction where private, public and interest groups meet.



Rijkswaterstaat

DAY 5: THURSDAY - 3 OCTOBER 2013 WHEN THE DUTCH GO UP-NORTH FOR GOVERNANCE, RIVERS AND WATER TREATMENT: COEVORDEN EN GRONINGEN

Water board 'Vechtstromen' and 'Noorderzijlvest', but also the experience of the Board, and the municipality of village of Ten Boer threatened by inundation only last year when one of the dikes was ready to collapse. We start at Coevorden where it borders with Germany. This is an ideal spot to deepen the dynamics of cross-border cooperation. They will receive us on site. We proceed to Groningen in the afternoon. Visit their new waste water treatment plant. In the evening we have a diner up north at, ah...no not 'Oshandira's', but at 'Bij de Molen', meeting the mayor of Ten Boer.

STARTING AT Velt EN VECHT

Or should we say Vechtstromen. The merger between Velt en Vecht and Regge and Dinkel, two different water boards, creates the new water board Vechtstromen. 2013 is thus for Velt and Vecht a year of transition. The number of water boards have thus reduced from 25 to 24 in 2013.

The afternoon will be spent in Groningen, at Garmerwolde. It is a close to 50 minutes' drive from Coevorden to Garmerwolde.

NOORDERZIJLVEST WATER AUTHORITY

Noorderzijlvest water authority is an independent public body. We ensure there is sufficient water in ditches and canals, and that the dikes and embankments in our region are strong. This work is funded from a special tax paid by residents in the region, enabling them to live, work and spend their leisure time here safely. Noorderzijlvest operates in northern and western Groningen province, a large part of the city of Groningen, the very north of Drenthe province and the Frisian part of the Lauwersmeer lake area.

Sufficient water

Noorderzijlvest uses pumping stations, dams and locks to keep the water in ditches and canals at the right level – not too much and not too little – in order to safeguard the interests of people, wildlife and farmers. After heavy rainfall we pump the excess water away and discharge it into the sea. We keep some of it in ditches and canals so that we have enough during dry periods. At times of drought we allow water into the region from the IJsselmeer.



Clean water

Noorderzijlvest ensures that the water in ditches, canals and lakes is clean, purifying wastewater in sewage treatment plants. The authority also monitors water pollution and takes measures when necessary.

Safe dikes and embankments

Residents living behind our dikes can be sure of their safety. Noorderzijlvest works continuously to ensure dikes and embankments are strong. It also has a highly trained disaster response team on hand at all times to take action in crisis situations.

Sustainability

Future generations also need to be able to live healthily and have sufficient resources at their disposal. That is why Noorderzijlvest focuses on sustainability and innovation. It is our ambition to become a 100% energy-neutral organisation.

Tour at the waste water treatment plant

EVENING PROGRAMME

We meet the Mayor of Ten Boer, the Director of the Water Board and a board member. Diner with guests from water board and municipalities to exchange experience at board level. To be held at 'De Molen' at Ten Post.

OUR HOSTS ARE:

Morning



Bert Kolkman

The Deputy Dijkgraaf will welcome the delegation
Bert Kolkman is an elected member of the board of the Water Authority and has many years of experience in the arenas of politics and business.



Tjeerd Dijkstra

Tjeerd Dijkstra worked in Namibia from 1992 until 1995 with the Ministry of Agriculture Water and Rural Development
Tjeerd will kick off the presentation. He will provide an overview of the Water Boards in the Netherlands. And, of course the Velt en Vecht situation, where much effort is made in creating room for the rivers.



Dorethea Altenhoven

Cross border from Niedersachsen

From Germany a representative of the German Water Board in Niedersachsen will explain the differences and challenges in cross border cooperation at various levels. Dorethea Altenhoven will share her experience in working with the Dutch.



Jan van der Molen

Author see: <http://www.crossingbordersacademy.org>

The following speaker is Jan van der Molen. He will further our insight on how to bring about cross border cooperation. Cooperation and decision making. Mr. van der Molen has written a book on crossing borders together with Hannah Ietswaard. You can download the book at the above mentioned URL.



Afternoon



Wim Brenkman

Director

Waterschap NOORDERZIJLVEST



Carla Alma

*Member of the Executive Board
(and responsible for international cooperation)*

Waterschap NOORDERZIJLVEST



The tour at the waste water treatment plant



Huib Mathijsse

Ask Huib about: pipe burst in high pressure sewage systems

In Garmerworld the Plant Manager Huib Mathijsse will explain the development of the plant, importance of the plant and some of the intricacies of maintaining it.

Waterschap NOORDERZIJLVEST





Jan den Engelse

Practical know-how is the key

The project manager who was responsible for the last phase of the construction of the plant Jan will explain some of the technical highlights of the plants.

Waterschap NOORDERZIJLVEST



Evening



André van Nadort

Mayor of Ten Boer - involved in EU water and water governance.

Mr. van Nadort has ample experience in municipal environments, always in areas where water is an important aspect of the environmental management challenges. Since 2009 he is the Mayor of Ten Boer. The Monarch appoints mayors in the Netherlands. For Ten Boer he holds in portfolio the development of water and sewerage. He is a member of the United Municipalities Commission for Environment and Mobility. In the region he is member of the commission for Environment and Sustainability an advisory group for the regional governments of the EU. They advise on European law and regulation. Besides that he is a member of the Steering committee Water Keten. Aiming at the governance of an efficient, economic, water management. He might be able to tell us something of the pitfalls that make water management expensive.



DAY 6: FRIDAY - 4 OCTOBER 2013

A PRIVATISED GOVERNMENTAL FUNCTION 'THE LAB.' AND HIGH TECH DEVELOPMENTS

Friday, the Northern Water Laboratory and visiting a Water Campus. This day is devoted to technology, high end technology and practical implementation. Where the Laboratory used to be government owned it is now fully independent. What happens during these transitions?

Technological developments and innovations need a place to experiment and develop intellectual property. The Campus is an area for inventors, idealists, high tech. and dreamers; is it business and idealism?

A MORNING VISIT AT THE WATER LABORATORIES NORTH (WLN)

Having started as drinking water laboratory, WLN has evolved during the past 30 years into a top-quality centre for water quality and water technology. Our centre houses chemical, biological and technological expertise. This is a unique combination resulting in a broad service package in the field of drinking-, waste - and industrial water. We connect research and innovation with every day practice. Therefore WLN is also strongly involved with various knowledge institutes. Our expert advices are scientifically based, resulting in water with the precise specifications for the desired application for water companies, public authorities, industries, recreational companies and swimming pools. And, that is the added value of WLN.

THE AFTERNOON WE WILL VISIT THE WATERCAMPUS AT LEEUWARDEN

The Water Alliance is a unique partnership of public and private companies, government agencies and knowledge institutes involved in water technology in the Netherlands. The Wateralliance, located at the WaterCampus, focuses on innovative and sustainable water technology that can be used worldwide. It brings together a complete chain of innovation for water technology, from first ideas, research & development, specialized laboratories, a water application centre, various demo-sites, launching customers to commercial international applications by commercial companies. Indeed from knowledge to business.

It is driven by the idea that technological development and innovation is needed to develop new markets and thus create new business opportunities for the water technology sector. In this way the Netherlands will become the European Water Technology Hub, with its focal point at the WaterCampus Leeuwarden.



OUR HOSTS ARE:

Morning



Hilde Prummel

Director at WLN welcomes curiosity

Hilde holds a MSc in environmental technology, with a specialism in wastewater treatment Agricultural University of Wageningen 18 years of experience in the field of drinking water, industrial water, and waste water treatment; choice of system, pilot studies, technological management of full-scale installations.



Dirk van der Woerd

Manager water technology

Dirk holds a MSc Civil Engineering Delft University of Technology. Dirk has more than 20 years of experience at several drinking water companies in the Netherlands; 3 years in Guinea Bissau for UNDP (hydrology) His Fields of experience are; water technology; project management; research and development; asset management; Hydrology; international cooperation; water & energy.



Jan van der Kooij

Manager laboratory at WLN

Jan holds a Bachelor analytical chemistry. He has more than 20 years of management experience in the field of analytical and microbiological testing of (drinking) water in ISO 17025 accredited laboratories.



Afternoon



Alex Berhita

The manager business development at the Wateralliance invites us to lunch

Alex holds a bachelor degree in analytical chemistry. Over the years, Alex gained much experience initiating new collaborations between the private, public and research sector. He develops and strengthens innovative networks, while stimulating the matchmaking and business development.



DAY 7: SATURDAY - 5 OCTOBER 2013

VISIT A SPECIAL AND UNIQUE WATER BARRIER, ENJOYING SATURDAY

Now our host is Water Board Groot Salland

The storm surge barrier near Ramspol was built to protect the hinterland against flooding by high water from the IJsselmeer lake. The barrier consists of three inflatable, nylon-reinforced rubber dams, each 75 m long, 13 m wide and with a design height of 8.35 m. They are the largest dams of their kind ever built. The dam is inflated with air while a gravity-feed system allows water to flow in. The barrier is lowered again by pumping out the water and letting out the air.

OUR HOST



Keimpe Sinnema

Driven by enthusiasm ...

After 6 years at a Consultancy Firm he worked for a small Waterschap as a Technical Director. After the consolidation he became part of the Management team in 1997 where he was responsible for the Water Quantity Sector. From 2005 onwards, Keimpe Sinnema was responsible for International Affairs of Waterschap Groot Salland. He is co-ordinator for the Unie van Waterschappen (UvW) in their South African projects, and member of the core team for the Kingfisher project to support the country-wide establishment of CMA's (waterschappen) in South Africa.



DAY 8: SUNDAY 7 OCTOBER 2013

TIME FOR A REST

Time to relax. Visit Voorburg, shop in The Hague, cruise the beach, or appreciate Madurodam.



DAY 9: MONDAY - 7 OCTOBER 2013

WATER SUPPLIERS AND THE RIVER, DELTA ASPECTS AND THE HARBOUR

Vitens in Utrecht and Maeslandtkering in Rotterdam, being on the River! Time to visit a water producer, drinking water in the Netherlands is so easy. Vitens has passion for water; one we share when we visit the Measlandtkering and the Harbour in the afternoon.

WE VISIT VITENS - A CHALLENGING WATER SUPPLY COMPANY IN UTRECHT

Vitens is a company available 24/7 to extract, purify and deliver top-quality drinking water. At Vitens they know that 5.4 million people have an implicit trust in the quality of this water.

Sustainability, Environment, Governance, Responsibility

Drinking water: it seems so self-evident. Often we take it's availability for granted. However, providing water is actually a serious profession that requires creativity, innovation, perseverance and a commitment to people, society as a whole, and the environment. At Vitens we like to put it into action. Every day we work for our customers in the provinces Friesland, Overijssel, Flevoland, Gelderland and Utrecht. But also in other countries currently serving more than twenty million people in countries where safe drinking water is not always self-evident.

Sustainability: Nature and the environment are important for Vitens. This is why we do everything possible to protect flora and fauna in our water extraction sites. Vitens is responsible for supplying its customers with sufficient top-quality drinking water. That means that we have to ensure we have reliable wells, now and for the future. Sustainable water extraction is thus an important part of this.

OUR HOST:



Marco Schouten

Regional Director at Vitens Evides international

Marco graduated from the Vrije Universiteit as a business economist in 1994. After his study he worked for about 10 years as an international management consultant. In 2009 Marco was awarded his PhD from the Erasmus University on the topic of strategic management and privatization in the water sector. Since April 2010, Marco is employed at Vitens-Evides International, acquiring and supervising international water supply.





DAY 10: TUESDAY - 8 OCTOBER 2013

TIME FOR REFLECTION: WHAT CAN WE MAKE OF IT?

If this is how the Dutch do their water management, what can we learn? A study tour leads to questions, and perhaps also observations. One might wonder what would happen if a Namibian team of experts would evaluate the capacity and efficiency of the Dutch water sector. So, what is the spin off?

EXCITING FOR ENGINEERS IS OUR TRIP TO THE MEASLANTKERING - A VERY SPECIAL WATER BARRIER.

On May 10, 1997, after six years of construction, our then Queen Beatrix opened the Maeslantkering. The barrier is connected to a self-operating computer system which is linked to weather and sea level data. Under normal weather conditions the two doors are stored in their dry docks and a 360 metre wide gap in the waterway gives ships enough space to pass without any inconvenience. But when a storm surge of 3 metres above normal sea level is anticipated in Rotterdam, the barrier will be closed automatically. The decision-making algorithm that sequences storm surge-triggered events in the Maeslantkering is run entirely by computer. This is to eliminate human error. The barrier is designed to withstand a storm that has an occurrence of only 1/10,000 per year. Each door stands 22 metres high and is 210 metres long, connected to 237 meter long steel trusses (as long as the Eiffel Tower, but each doubles the weight of the Eiffel Tower).

ONCE SO CLOSE TO THE WATER, TIME TO VISIT THE PORT OF ROTTERDAM

The Port of Rotterdam is the largest port in Europe, located in the city of Rotterdam, Netherlands. From 1962 until 2002 it was the world's busiest port. Shifts in economic centres in the world resulted in Rotterdam being overtaken by first Singapore and then Shanghai. In 2009, Rotterdam was the world's tenth-largest container port in terms of twenty-foot equivalent units (TEU) handled. Covering 105 square kilometres; the port of Rotterdam now stretches over a distance of 40 kilometres. Recent extensions allow the port to handle the largest container ships like the Mearsk Mc-Kinney Moller, 399 meters long, 59 meters wide and 18,270 containers, a depth of 16 meter.

The last day workshop will be inspired by speakers and participants from outside, and perhaps people who we have met during the past few days. Reflection in good spirits; looking back and forth. What can be useful in Namibia? What is remarkable about the water sector in the Netherlands?

TODAY WE WILL BE HOSTED BY THE VNG INTERNATIONAL IN THE HAGUE. VARIOUS SPEAKERS

VNG International, the international co-operation agency of the association of Netherlands Municipalities strengthens democratic local governance in developing countries and countries in transition. We support decentralisation processes and facilitate decentralised cooperation, by providing capacity building services to strengthen local governments, their associations, training institutes and regional water authorities. We build on existing experience, with high quality services such as benchmarks, tools for tax collection and handbooks.

OUR HOSTS:



Peter Knip

Director of VNG International will welcome you today in the Willemshof

Willemshof is the house for local government. Peter holds a Master's degree in Modern History and International Relations from the Erasmus University in Rotterdam. Peter has extensive experience in the fields of public administration reform and decentralised international co-operation. He chairs the foundation "The Hague Academy for Local Governance" and the Capacity and Institution Building Working Group of United Cities and Local Governments (UCLG).



Once again we hope to meet Ms. Anne-Marie Tosserams, who joined us Tuesday (1/10) evening.



Stephan Visser

Project manager at VNG International

Stephan holds a Bachelor degree in Political Science and a Master degree in Conflict Resolution and Governance. Within VNG International Stephan is working on two programmes in the field of water management in South Sudan and South Africa.



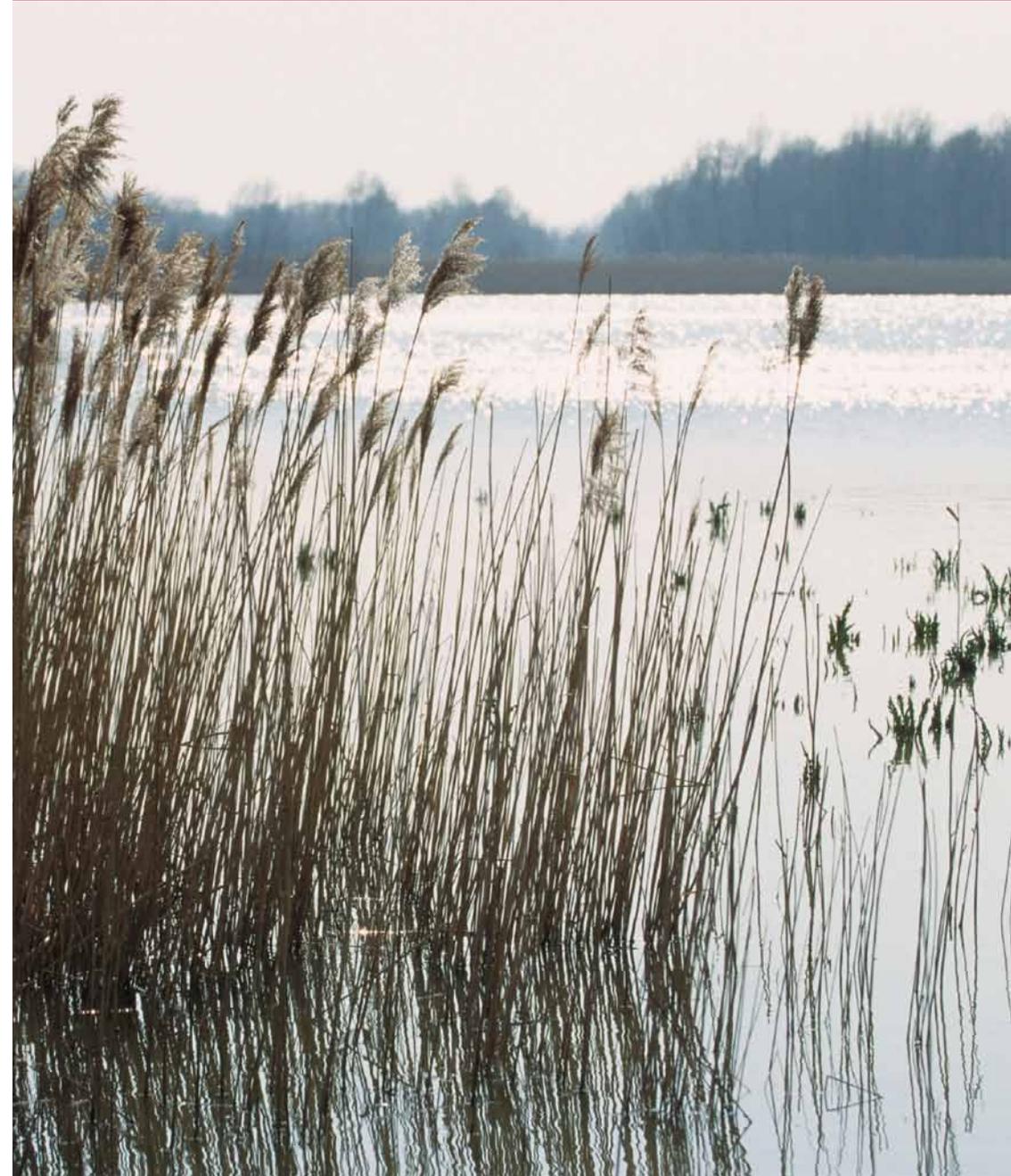
Erik Mostert

TU Delft and UNAM have recently connected the developments...

Erik is lecturer at the Delft University of Technology, department of water resources management. He teaches courses on Integrated Water Resources Management, Water Law and Organization. His research focuses on the organizational setup of water management, collaboration processes and trans boundary water management. Erik was one of the authors of the European Union's Guidance on Public Participation, which was prepared as part of the Common Implementation Strategy for the Water Framework Directive. Moreover, he has advised Dutch national government and Dutch water boards on the future collaboration structure for the international Scheldt river.



DAY 11: **WEDNESDAY - 9 OCTOBER 2013**
DEPARTURE, SOME LAST MINUTE ERRANDS
AND TIME TO SAY 'GOODBYE'



THE DELEGATION NAMIBIAN INTEGRATED WATER RESOURCE MANAGEMENT



Abraham Nehemia

Under Secretary of the Ministry

Abraham is the head of the Department of Water Affairs and Forestry in the Ministry of Agriculture, Water, Forestry (MAWF).



Harald Koch

Head of the Directorate (water) Resources Management.

Harald is head of the Directorate (water) Resources Management within the same Ministry of Agriculture, Water, Forestry (MAWF).



Maria Amakali

Deputy Director – Water Environment

Maria is head of the Division water and environment in MAWF.



Geraldine Diergaardt

Chief Hydrologist – Hydrology

Geraldine works in the Division “Hydrology” and is responsible for surface water data management in MAWE.



Aune Amwaama

Chief Hydrologist – BMC Coordinator

Aune works as well in the Division “Hydrology” and is responsible for the coordination of Basin Management within Namibia and in MAWF.



Tuwilika Haludilu

Technical Advisor GIZ – CEB Project

Tuwilika is head of the Cuvelai Etosha office of the IWRM in Cuvelai Etosha Basin project.



Martin Neumann

GIZ team leader of the Namibian Water Resources Management Project

Martin is responsible for the co-ordination of the IWRM CEB and the NWRM project in Namibia.



THE PROGRAMME IS ORGANISED BY VANDERLEESTCONSULT, SUPPORTED BY FOR ELEMENTS

BART VAN ECK FOR ELEMENTS

Water is always a subject of interest to Bart. After finalizing his Master degree in Environmental science at Wageningen University, water has set the tune for his professional career. Bart started it at the University of Évora (Portugal), where he did research on invasive aquatic species threatening crop productions. After his return to the Netherlands, Bart expanded his knowledge at a local water board and a consultancy firm, focussing on (urban) water management with a specific interest in participatory processes. His broad involvement in the water sector in the Netherlands has left him with great knowledge of all the details, governance and technological of the sector.

Curiosity led Bart to South Africa where he focused on a participatory catchment restoration process. Stakeholder engagement, research and knowledge dissemination were part of his tasks. While returning back to the Netherlands, Bart decided to start for himself, under the name of For Elements. Over the last two years, Bart has initiated various sustainable projects in the field of sanitation, catchment restoration and the re-use of waste water for food production. Besides, he is active as guest lecturer at Wageningen University, develops sewerage plans for Dutch municipalities. Bart is extremely well informed of the developments in the Dutch Water Sector.

HENK VAN DER LEEST VANDERLEESTCONSULT

Vanderleestconsult is an organisation development consultancy aiding organisations, teams and individuals to succeed. Institutional development is one of its pillars, structuring and optimising the operational environment, monitoring systems, and performance enhancing interventions.

Henk worked from 1982 till 2007 on International projects in the United Arab Emirates, African and Caribbean countries. From 1992 till 2000 he worked in Namibia, experiencing the turn around, the energy and motivation after independence. Henk was allowed to make his contribution the development of the rural water supply sector in Namibia. Overall engineering and strategic organizational development are the focus of his Management assignments, often with projects in the water sector. Bridging people, ambitions and technology is a proven strength.

Since 2000, Henk became increasingly occupied in the Netherlands. Assigned often as an Interim Manager for organizational and capacity development, in particular in the area of maintenance- and contract-management. He worked with several Water Board Authorities, Municipalities and is a respected management coach.

His experiences have allowed him to develop an open mind and a wide frame of reference. It also brought about his in-depth expertise in training, team and individual coaching. This broad frame of reference has given him the ability to offer true 'out of the box' solutions and approaches. Currently he presents three highly effective 'in-house' management courses:

- "Management of expectations; Handling conflicts!; Crucial conversations"
- "Contracts Management; Operational supervision and handling of sourced out work."
- "Customer contact-days; increase your cross-selling, deepen your relationships"

More information to be found at www.vanderleestconsult.nl

YOUR HOSTS:



Bart van Eck
For Elements



FOR ELEMENTS



Henk van der Leest
VanDerLeestConsult





Namibian Water Resources Management Project

Country:	Namibia
Term:	2006 – 2013
Funding:	EUR 8,456,000 (current phase)
Partner:	Ministry of Agriculture, Water and Forestry
Goals:	Improved management of Namibian water resources on the basis of IWRM

Context

Namibia is the most arid African country south of the Sahara. It has low and varied precipitation, ranging from a maximum of 650mm in the north-east to less than 50mm per year along the coast. It is estimated that only 2% of rainfall ends up as surface run-off and a mere 1% is available for groundwater recharge. The remaining 97% is lost through evaporation (83%) and evapotranspiration (14%). Perennial surface water resources are found only in rivers shared with neighbouring riparian states. These rivers have to be managed and used in accordance with international water law. Scarce water resources fundamentally limit the country's socioeconomic development and represent an enormous potential for conflict.

Against this background, Integrated Water Resources Management (IWRM) has been identified as essential for the management of the water sector in Namibia as well as across borders. The 2010 Water Resources Management Bill is based on IWRM principles and provides overall guidance, but has not yet been implemented. Namibia's Vision 2030 provides the overarching framework for the water sector with its sub-vision, which states: 'Namibia's fresh water resources are kept free of pollution and are used to ensure social well-being, support economic development and to maintain natural habitats'.

The challenge

Practical implementation of IWRM will ultimately depend on existing water sector institutions' organisational efficiency, human resources capacity in these institutions and available financial resources. The current challenges are to:

- Create an adequate structure for the water sector;
- Provide a clear, feasible vision and strategy for the IWRM approach;
- Establish an efficient approach to water sector coordination;
- Implement the Water Act and
- Secure the support of top management at the custodian, the Ministry for Agriculture, Water and Forestry (MAWF).

Implementing water management activities at community level should also be a priority in order for IWRM to succeed. The current challenges are to:

- Set up Basin Management Committees (BMCs) with clearly defined responsibilities and tasks in Namibian basins;
- Enable existing BMCs to create work plans independently and perform their tasks on a sustainable basis and
- Provide them with financial and technical assistance.

Project activities

Parliamentary adoption of the 2004 Namibian Water Resources Management Act laid the legal foundation for reorganising the Namibian water sector based on the principles of IWRM. GIZ actively assisted its formulation during the first two phases of this project. The focal point of the current third phase is to provide support during the implementation of the IWRM approach. The project's main regional focus is on the Cuvelai system, which is located in the

densely populated north-central part of the country. The European Union is one of the major donors in this component of the Project. However, IWRM initiatives in other basins are also included.

The project partners MAWF and GIZ are establishing Basin Management Committees in at least six of the twelve basins identified by the 1998 Namibian Water Resources Management Review. The Federal Institute for Geosciences and Natural Resources (BGR) contributes to the project by providing important groundwater assessments. BMCs form the



core of decentralised IWRM, and their tasks and duties are described in the aforementioned legal documents. They include advising MAWF on matters concerning water protection, development and conservation, and promoting community participation in water issues. The project also provides technical support for developing the BMCs' annual operation plans, which are consistent with their tasks delegated by the current 2010 Water Resources Management Bill and include HIV/AIDS and hygiene issues. At the end of the project, at least two water resources management plans will have been developed for the basins. The project also helps to assess and implement a sustainable financial system for the BMCs.

Alongside BMC structures, MAWF structures are supported with technical advice as well as human capacity development. After the MAWF has been restructured, a basin management support division should be created, together with a decentralised body from the directorate of water resources management.

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Results achieved so far

Eight Basin Management Committees including Sub Basin Management Committees have been established. Annual operation plans have been developed and executed for all BMCs. All plans included topics related to HIV/AIDS. One Water Resource Management Plan exists for the Kuiseb basin. Another plan for the Cuvelai-Etoshia basin is about to be developed.

Stakeholder exchange and exposure trips are taking place. Awareness campaigns have been conducted and are ongoing. The participatory management approach, in which all stakeholders are invited to actively take part in forums, meetings and working groups of BMCs, has strengthened the operational capacity of the decentralised community services and structures. Financial assistance and bookkeeping training has been provided. A sustainable financial system to support BMCs has been presented and now needs to be agreed upon and to be piloted. Data for monitoring and management is constantly being collected. A national database with a decision-support system will soon be developed. The project has provided training and qualifications in IWRM for basin support officers. The proposal for restructuring the Ministry is with the Office of the Prime Minister for approval. The 2010 Water Resource Management Bill is with the Parliament and waiting to be passed and enacted.

A practical example

The Fish River Basin Management Committee has formed a working group on groundwater monitoring. They visit different hotspots where the community has raised concerns about groundwater pollution. The group investigates the location and takes water-quality samples. They talk to polluters and try to find practical solutions in collaboration with the community in order to conserve this resource.

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