

waterplan
Dipl.-Ing.
Wolfgang U. Poehnl



## Referential projects- special 2007-2013

main skills & global strategy

In the last 15 years, more than 16.000 sewage water plants in the range 4-500 p.e., have been built by members of PPU Umwelttechnik GmbH-Germany.

More than 250 plants in the range 500-10.000 p.e for municipalities, some of them in Germany in "turnkey" as general contractor.

Since the year 2007 consistently - always together with local partner companies - the global presence under the label "ClearFox" has been developed.

## **Projects** for

- private investors
- municipalities
- food industry application
- oil, fat and grease removal

we have been successfully implemented with our partners in the following **countries**:

| Abu Dhabi | Aserbeijan | Bulgaria    |
|-----------|------------|-------------|
| Bosnia    | Croatia    | Dubai       |
| Egypt     | England    | France      |
| Germany   | Ireland    | Kuwait      |
| Macedonia | Poland     | Romania     |
| Serbia    | Slowenia   | Switzerland |
| Algeria   | Greece     | Austria     |
|           |            | Serbia      |

We are members of the main water associations in our home country, such as DWA/ATV, VDI, BDZ. This is standing for a good technical background and we always meet the global state of the art in waste water treatment.

With this document we we want to give a brief overview about the wide range of our skills in waste water treament. Please see a collection of projects of the last 6 years with technical data and pictures. We hope in your understanding that for clients privacy we cannot give detail informations and this is not a complete summary of projects. In case of your interest in a special application we can organize for most projects a site-visit by clients agreement.

| APPLICATION-DATA                | SERVICES                    | PROJECT NAME                  |
|---------------------------------|-----------------------------|-------------------------------|
| TASK IN ORDER                   | CHARACTERISTICS             | END COSTUMER                  |
|                                 |                             | COUNTRY & YEAR                |
| domestic from tourism           | engineering, projecting,    | Cartage Village, holiday club |
| 450 m3/d waste water,           | installing, purchase,       | egypt-Alexandria              |
| domestic                        | design for concrete basin   | 2011                          |
| biological treatment,           |                             |                               |
| sludge dewatering               |                             |                               |
| preparation for reuse after     |                             |                               |
| filtration and desinfection     |                             |                               |
| Kit for tank installaton        |                             |                               |
|                                 |                             |                               |
|                                 |                             |                               |
|                                 |                             |                               |
|                                 |                             |                               |
| sludge splitter, polymer dosing | control unit / aercondition | site view during installation |

| APPLICATION-DATA   | SERVICES                       | PROJECT NAME          |
|--|--------------------------------|-----------------------|
| TASK IN ORDER  | CHARACTERISTICS                | END COSTUMER          |
|  |                                | COUNTRY & YEAR        |
| domestic from tourism  | engineering, projecting,       | Holiday park, Tourism |
| 250 m <sup>3</sup> /d waste water,screen   | supervising, purchase,         | Greece, Argolida      |
| biological treatment,  | design for concrete basin      | 2007                  |
| Kit for tank installation  | design for concrete busin      | 2007                  |
|  |                                |                       |
| machine house  |                                |                       |
|  |                                |                       |
|  |                                |                       |
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|  |                                |                       |
| A MANAGEMENT   |                                |                       |
|  |                                |                       |
| Marie Carlos Car |                                |                       |
|  |                                |                       |
|  |                                |                       |
| view to the club facilities  | inside SBR during installation | screen with bypass    |
| view to the dab lacindes   |                                |                       |

| APPLICATION-DATA TASK IN ORDER  Wine and brandy production 200 m³/d waste water, biological treatment, screening, pH-equilizing, nutrients dosing machinehouse | SERVICES CHARACTERISTICS  engineering, projecting, supervising, purchase, design for concrete basins very fluctuating loads between campagne and after season | PROJECT NAME END COSTUMER COUNTRY & YEAR Black Sea Gold, Cellars Pomorie-Burgas, Bulgaria 2008 |
|--|---|--|
| buffering tanks during concrete work   | startup aeration system   | storage tanks for young wine   |

| APPLICATION-DATA<br>TASK IN ORDER  | SERVICES<br>CHARACTERISTICS  | PROJECT NAME<br>END COSTUMER<br>COUNTRY & YEAR             |
|--|--|--|
| municipal water 500 m³/d waste water, biological treatment, aerations system optimizing implemented into existing technology | engineering, supervising, purchase, denitrification, implementation in existing tanks, nitrification and denitrification with two-line aeration system | Kläranlage Seybothenreuth<br>VG Weidenberg Germany<br>2007 |
|  | COD:60/ BOD:5/N:10   |  |
| R REBERT   |  | no more picture available                                  |
| control unit, energy control   | installation of new aeration   |  |

| APPLICATION-DATA                  | SERVICES                     | PROJECT NAME               |
|-----------------------------------|------------------------------|----------------------------|
| TASK IN ORDER                     | CHARACTERISTICS              | END COSTUMER               |
|                                   |                              | COUNTRY & YEAR             |
| water from cow breeding farm      | engineering, design for      | Sheiki Agro-Anim           |
| 75 m <sup>3</sup> /d waste water, | concrete tanks, purchase,    | Baku, Azerbeijan           |
| biological treatment,             | installation,                | 2011                       |
| flocculation, precipitation,      | ammonia concentrations in    |                            |
| flotation, ammonification,        | inlet up to 750 mg/l         |                            |
| sandfiltration, desinfection,     |                              |                            |
| machine house, water for reuse    |                              |                            |
|                                   |                              | ammonification tank before |
| part of stable                    | DAF and filters in container | installing                 |

| APPLICATION-DATA                  | SERVICES                       | PROJECT NAME      |
|-----------------------------------|--------------------------------|-------------------|
| TASK IN ORDER                     | CHARACTERISTICS                | END COSTUMER      |
|                                   |                                | COUNTRY & YEAR    |
| water from cheese production      | engineering, design, purchase, | Bongard-Käserei   |
| 20 m <sup>3</sup> /d waste water, | installation                   | Berner Oberland   |
| biological treatment, DAF         |                                | Switzerland       |
| (Flotation), sandfiltration,      |                                | 2012              |
| desinfection, sludge              | miniature                      |                   |
| treatment/dewatering              | PPU-Standard application       |                   |
|                                   | PLUG &PLAY                     |                   |
|                                   |                                |                   |
|                                   | effluent:N tot. < 10 mg/l      |                   |
|                                   |                                |                   |
| mini compact unit                 | mini compact unit              | mini compact unit |

| APPLICATION-DATA                  | SERVICES                        | PROJECT NAME              |
|-----------------------------------|---------------------------------|---------------------------|
| TASK IN ORDER                     | CHARACTERISTICS                 | END COSTUMER              |
|                                   |                                 | COUNTRY & YEAR            |
| water from tomato ketchup-        | engineering, design, purchase,  | naba Feinkost             |
| production                        | installation, main contracting, | Gierstädt- Germany        |
| 50 m <sup>3</sup> /d waste water, | concrete work, tanks site       | 2008                      |
| flocculation, precipitation, sand | organisation                    |                           |
| filtration, biological treatment, |                                 |                           |
| DAF-(Flotation), sludge           |                                 |                           |
| dewatering,                       |                                 |                           |
|                                   | upground SBR-Tower 10 meter     |                           |
|                                   | loadings up to 25.000 mg/ICOD   |                           |
| NABA                              |                                 |                           |
| view from tower reactor           | container, SBR-reactor-tower    | container before shipment |

| APPLICATION-DATA TASK IN ORDER  water from a monastery 150 m³/d waste water, biological treatment, sludge treatment | SERVICES CHARACTERISTICS  engineering, purchase, installation, main contracting, design concrete work, | PROJECT NAME END COSTUMER COUNTRY & YEAR Livplast Suceava-Romania 2009 |
|---|--|--|
| splitter  | tanks  | small dosing storage   |

| APPLICATION-DATA                     | SERVICES                     | PROJECT NAME         |
|--------------------------------------|------------------------------|----------------------|
| TASK IN ORDER                        | CHARACTERISTICS              | END COSTUMER         |
|                                      |                              | COUNTRY & YEAR       |
| water from a wine production         | engineering, design concrete | Vinex-Black Forest   |
| 1.200 m <sup>3</sup> /d waste water, | work, projecting             | Burgas-Bulgaria      |
| screening, ph, nutrients             |                              | 2010                 |
| equilizing, biological treatment,    |                              |                      |
| sludge treatment, final              |                              |                      |
| treatment                            |                              |                      |
|                                      |                              |                      |
|                                      |                              |                      |
|                                      |                              |                      |
|                                      |                              |                      |
|                                      |                              |                      |
| no picture available                 | no picture available         | no picture available |
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|                                      |                              |                      |
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|                                      |                              |                      |
| Description                          | Description                  | Description          |

| APPLICATION-DATA<br>TASK IN ORDER | SERVICES<br>CHARACTERISTICS | PROJECT NAME<br>END COSTUMER |
|-----------------------------------|-----------------------------|------------------------------|
|                                   |                             | COUNTRY & YEAR               |
| water from a mustard              | engineering, design tanks,  | Develey                      |
| production                        | projecting, supervising,    | Unterhaching- Germany        |
| 50 m <sup>3</sup> /d waste water, | purchase                    | 2009                         |
| biological treatment,             |                             |                              |
|                                   |                             |                              |
|                                   |                             |                              |
|                                   | tower SBR-reactor in PE     |                              |
|                                   |                             |                              |
|                                   |                             |                              |
|                                   |                             |                              |
| no picture available              | no picture available        | no picture available         |
|                                   |                             |                              |
|                                   |                             |                              |
|                                   |                             |                              |
|                                   |                             |                              |
| Description                       |                             |                              |
|                                   | Description                 | Description                  |

| APPLICATION-DATA  | SERVICES                        | PROJECT NAME                    |
|---|---------------------------------|---------------------------------|
| TASK IN ORDER   | CHARACTERISTICS                 | END COSTUMER                    |
|   |                                 | COUNTRY & YEAR                  |
| waste water from a worker   | engineering, design tanks,      | Envitec , MEA , several clients |
| camps   | projecting, supervising,        | Abu Dhabi                       |
| 60-200 m <sup>3</sup> /d waste water,<br>biological treatment, sludge | purchase , installation         | 2009                            |
| treatment, machine house  | PPU-Standard application        |                                 |
|   | PLUG &PLAY                      |                                 |
|   | simple, plug and play solutions |                                 |
|   |                                 |                                 |
| onsite  | single container                | final check before startup      |

| APPLICATION-DATA                     | SERVICES                   | PROJECT NAME            |
|--------------------------------------|----------------------------|-------------------------|
| TASK IN ORDER                        | CHARACTERISTICS            | END COSTUMER            |
|                                      |                            | COUNTRY & YEAR          |
| water from a bewerage                | engineering, design tanks, | United Bewerage         |
| production                           | projecting, supervising,   | Kuweit                  |
| 1.000 m <sup>3</sup> /d waste water, | installing ,               | 2009                    |
| biological treatment,                |                            |                         |
| ,                                    |                            |                         |
|                                      |                            |                         |
|                                      |                            |                         |
|                                      |                            |                         |
|                                      |                            |                         |
|                                      |                            |                         |
|                                      | extrem sugar contents      |                         |
|                                      |                            |                         |
|                                      |                            |                         |
|                                      |                            |                         |
|                                      |                            |                         |
|                                      |                            |                         |
|                                      |                            |                         |
|                                      |                            |                         |
| view over the city                   | blower battery             | installaton inside tank |
|                                      | 1                          |                         |

| APPLICATION-DATA                             | SERVICES                     | PROJECT NAME                   |
|--|------------------------------|--------------------------------|
| TASK IN ORDER                                | CHARACTERISTICS              | END COSTUMER                   |
|  |                              | COUNTRY & YEAR                 |
| industrial water from a tank                 | engineering, design tanks,   | EuroMaint-                     |
| wagoon company                               | projecting, supervising,     | Oberhausen Germany             |
| 80 m <sup>3</sup> /d waste water, biological | installing                   | 2010                           |
| treatment,                                   |                              |                                |
| ,  |                              |                                |
|  |                              |                                |
|  |                              |                                |
|  |                              |                                |
|  | inert-hard COD, extrem water |                                |
|  |                              |                                |
| view inside                                  | old pumping basin =buffer    | base before container delivery |

| APPLICATION-DATA                   | SERVICES                   | PROJECT NAME          |
|------------------------------------|----------------------------|-----------------------|
| TASK IN ORDER                      | CHARACTERISTICS            | END COSTUMER          |
|                                    |                            | COUNTRY & YEAR        |
| waste water from a worker          | engineering, design tanks, | Red Med               |
| camp                               | projecting, supervising,   | Hassi Messoud-Algeria |
| 150 m <sup>3</sup> /d waste water, | installing ,               | 2007                  |
| biological treatment,              | inside desert              |                       |
| sludge dewatering sludge fields    |                            |                       |
|                                    |                            |                       |
|                                    |                            |                       |
|                                    |                            |                       |
|                                    |                            |                       |
|                                    |                            |                       |
| warm up membranes                  | during installation        | view into camp        |

| APPLICATION-DATA                             | SERVICES                       | PROJECT NAME           |
|--|--------------------------------|------------------------|
| TASK IN ORDER                                | CHARACTERISTICS                | END COSTUMER           |
|  |                                | COUNTRY & YEAR         |
| castle and asylum home                       | engineering, design tanks,     | Millstreet Castle-ISTS |
| 200 m <sup>3</sup> /d waste water,           | projecting, supervising,       | County Cork- Ireland   |
| biological treatment,                        | installing                     | 2012                   |
| flocculation, precipitation, sand filtration |                                |                        |
|  |                                |                        |
|  | natural river resortprotection |                        |
|  | BOD < 1 mg/l                   |                        |
|  | no N effluent (Ntot=0.5mg/l)   |                        |
|  |                                |                        |
| DN 200 multilayer filter automatic backflush | scope before wet testing       | view onsite            |

| APPLICATION-DATA<br>TASK IN ORDER  | SERVICES<br>CHARACTERISTICS  | PROJECT NAME<br>END COSTUMER<br>COUNTRY & YEAR           |
|--|--|--|
| oily water from power plant 3.300 m <sup>3</sup> /d seperation, flocculation, coalescens steps, precipitation, sand filtration, DAF (Flotation), | engineering, design tanks,<br>projecting, supervising,<br>installing | Coal Power Plant (Mittal-group)<br>Gacko- Bosnia<br>2012 |
| sludge removal   | oil concentration after<br>adsorbens<br>outlet < 0.05 mg/l           |  |
|  |  |  |
| view to the construction site  | flocculaton along DAF-basin  | coalescens step 150m3/hour                               |

| APPLICATION-DATA                 | SERVICES                      | PROJECT NAME                 |
|----------------------------------|-------------------------------|------------------------------|
| TASK IN ORDER                    | CHARACTERISTICS               | END COSTUMER                 |
|                                  |                               | COUNTRY & YEAR               |
| water from skiing restaurant     | engineering, design tanks,    | Seilbahn Wendelstein Betrieb |
| 20 m <sup>3</sup> /d             | projecting, supervising,      | Mittenwald Germany           |
| biological treatment, filtration |                               | 2005                         |
|                                  |                               |                              |
|                                  |                               |                              |
|                                  |                               |                              |
|                                  |                               |                              |
|                                  | system on 2.350 meter oversea |                              |
|                                  | level,                        |                              |
|                                  |                               | more picture on request      |
| view to the gondel               | prechambers in the rock       |                              |

| APPLICATION-DATA                 | SERVICES                   | PROJECT NAME   |
|----------------------------------|----------------------------|----------------|
|                                  |                            |                |
| TASK IN ORDER                    | CHARACTERISTICS            | END COSTUMER   |
|                                  |                            | COUNTRY & YEAR |
| water from domestic houses       | engineering, design tanks, | England        |
| 0.5-2 m <sup>3</sup> /d          | projecting,                | France         |
| biological treatment, filtration |                            | Poland         |
| 2.000 applications/year          |                            | 2008-2013      |
| 2.000 applications, year         |                            | 2000 2013      |
|                                  |                            |                |
|                                  |                            |                |
|                                  |                            |                |
|                                  |                            |                |
|                                  | system without electricity |                |
|                                  |                            |                |
| small WWTP                       | small WWTP                 | small WWTP     |

| APPLICATION-DATA              | SERVICES                      | PROJECT NAME                 |
|-------------------------------|-------------------------------|------------------------------|
| TASK IN ORDER                 | CHARACTERISTICS               | END COSTUMER                 |
|                               |                               | COUNTRY & YEAR               |
| water from worker camp        | engineering, design tanks,    | Dobersek- Anlagenbau         |
| 200 m <sup>3</sup> /d         | projecting, supervising,      | Mönchengladbach- Germany     |
| grease seperation, biological |                               | 2012                         |
| treatment, filtration         |                               |                              |
|                               |                               |                              |
|                               |                               |                              |
|                               |                               |                              |
|                               | main engineering for concrete |                              |
|                               | tanks including statics       |                              |
|                               |                               |                              |
|                               |                               | € gê€                        |
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| <b>新生产</b>                    |                               |                              |
| 学士主义                          | V DO TH AVENUE TO             |                              |
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|                               |                               |                              |
|                               |                               |                              |
|                               |                               |                              |
| aeration system before test   | during wiring, electro inst.  | scope inside during shipping |
| actually system service test  |                               | acche marac agring ambhing   |

|                               |                                | ,                           |
|-------------------------------|--------------------------------|-----------------------------|
| APPLICATION-DATA              | SERVICES                       | PROJECT NAME                |
| TASK IN ORDER                 | CHARACTERISTICS                | END COSTUMER                |
|                               |                                | COUNTRY & YEAR              |
| waste water from municipality | engineering, design tanks,     | Gemeindekläranlage          |
| 50 m <sup>3</sup> /d          | projecting, supervising,       | Woppmansdorf Germany        |
| biological treatment,         |                                | 2006                        |
| are regions in construction,  |                                |                             |
|                               |                                |                             |
|                               |                                |                             |
|                               |                                |                             |
|                               | effluent for high requirements |                             |
|                               |                                |                             |
|                               | precasted tanks in concrete    |                             |
|                               |                                |                             |
| tank installations            | startup aeration system        | spliiter for airlift system |

|                               | I  |                               |
|-------------------------------|--|-------------------------------|
| APPLICATION-DATA              | SERVICES   | PROJECT NAME                  |
| TASK IN ORDER                 | CHARACTERISTICS  | END COSTUMER                  |
|                               |  | COUNTRY & YEAR                |
| waste water meatfactory       | engineering, design tanks,   | lwet                          |
| 200 m <sup>3</sup> /d         | projecting, supervising,   | Shumensko, Bulgaria           |
| screening, pH, equilizing,    | installing   | 2010                          |
| biological treatment, DAF     |  |                               |
| (Flotation) sludge dewatering |  |                               |
| , , ,                         |  |                               |
|                               | PPU-Standard application   |                               |
|                               | PLUG &PLAY   |                               |
|                               |  |                               |
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|                               | The state of the s |                               |
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|                               |  |                               |
|                               |  |                               |
| storage tanks                 |  | fixed bed reactor access hole |
| storage tanks                 | DAF  |                               |

| APPLICATION-DATA         | SERVICES                   | PROJECT NAME              |
|--------------------------|----------------------------|---------------------------|
| TASK IN ORDER            | CHARACTERISTICS            | END COSTUMER              |
|                          |                            | COUNTRY & YEAR            |
| waste water fruitfactory | engineering, design tanks, | Barakat Vegetables        |
| 100 m <sup>3</sup> /d    | projecting, supervising,   | Abu Dhabi-United Arab     |
| biological treatment,    | installing                 | Emirates                  |
|                          |                            | 2009                      |
|                          |                            |                           |
|                          |                            |                           |
|                          | nutrients dosing           |                           |
|                          |                            |                           |
|                          |                            |                           |
| view onto yard           | membrane installaton SBR   | blower-battery, installed |

|                                 | 1                              | 1                         |
|---------------------------------|--------------------------------|---------------------------|
| TASK IN ORDER                   | CHARACTERISTICS                | END COSTUMER              |
|                                 |                                | COUNTRY & YEAR            |
| waste water fishfactory         | engineering, design tanks,     | Sardina d.o.o             |
| 250 m <sup>3</sup> /d           | projecting, installation 06-13 | Postira-Croatia           |
| screening, pH, equilizing,      |                                | 2012-2013                 |
| stripping biological treatment, |                                |                           |
| DAF , (Flotation) sludge        | PPU-Standard application       |                           |
| dewatering                      | PLUG &PLAY                     |                           |
|                                 |                                |                           |
|                                 |                                |                           |
|                                 | concentrations of              |                           |
|                                 | Chlorid up to 40.000 mg/l      |                           |
|                                 | emona ap to 10.000 mg/1        |                           |
|                                 |                                |                           |
| PPU production DN 2000 DAF      | loading scope of delivery      | mixing line precipitation |

| APPLICATION-DATA  | SERVICES                                       | PROJECT NAME           |
|---|--|------------------------|
| TASK IN ORDER   | CHARACTERISTICS                                | END COSTUMER           |
|   |  | COUNTRY & YEAR         |
| waste water fishfactory                                 | engineering, design tanks,                     | Connex d.o.o           |
| 100 m <sup>3</sup> /d, stripping                        | projecting, supervising,                       | Split-Croatia          |
| screening, pH, equilizing,<br>biological treatment, DAF | installing                                     | 2012                   |
| (Flotation) sludge dewatering                           | PPU-Standard application PLUG &PLAY            |                        |
|   | concentrations of<br>Chlorid up to 40.000 mg/l |                        |
| screen channel  | start up flotation unit                        | fixed bed installation |

| APPLICATION-DATA             | SERVICES                            | PROJECT NAME       |
|------------------------------|-------------------------------------|--------------------|
|                              |                                     |                    |
| TASK IN ORDER                | CHARACTERISTICS                     | END COSTUMER       |
|                              |                                     | COUNTRY & YEAR     |
| dairy-milk whey - production | projecting, supervising, installing | Milei              |
| 4.000 m <sup>3</sup> /d      |                                     | Leutkirch- Germany |
| pilote system as prestep for |                                     | 05-2013            |
| main system Q=2m3/hr,        |                                     |                    |
| DC-reactor, pH , dosing      |                                     |                    |
| 71 7                         |                                     |                    |
|                              |                                     |                    |
|                              |                                     |                    |
|                              |                                     |                    |
|                              |                                     |                    |
| after deloading              | after deloading                     | new task for PPU   |

| APPLICATION-DATA           | SERVICES                    | PROJECT NAME                   |
|----------------------------|-----------------------------|--------------------------------|
| TASK IN ORDER              | CHARACTERISTICS             | END COSTUMER                   |
|                            |                             | COUNTRY & YEAR                 |
| school for embassy members | projecting, supervising,    | Anglo American School          |
| 80 m <sup>3</sup> /d       | installing , existing tanks | Sofia- Bugaria                 |
| biological treatment,      |                             | 2010                           |
|                            |                             |                                |
|                            |                             |                                |
|                            |                             |                                |
|                            | green concept               |                                |
|                            | optimizing and renewing     |                                |
|                            |                             |                                |
| Description                | underground tank battery    | new control unit, alarm system |

| APPLICATION-DATA               | SERVICES                               | PROJECT NAME                 |
|--------------------------------|--|------------------------------|
| TASK IN ORDER                  | CHARACTERISTICS                        | END COSTUMER                 |
|                                |  | COUNTRY & YEAR               |
| grey water applications        | projecting, supervising,               | business buildings (several) |
| 5-48 m <sup>3</sup> /d         | installing , existing tanks            | Abu Dhabi, Dubai             |
|                                |  | United Arabian Emirates      |
| police screen, flotation,      | standard application                   |                              |
| biological treamtent,          | PLUG&PLAY                              |                              |
| hygienisation, sludge removal, |  |                              |
| recycling tank                 |  |                              |
|                                | inde an amplication in a small         |                              |
|                                | indoor application, no smell, no noise |                              |
|                                | Tio noise                              |                              |
|                                |  |                              |
|                                |  |                              |
| 24 m3/d- system                | fixed bed module- manhole              | drawing of project 15 m3/d   |

## Note:

This are not all projects with participation of PPU-Umwelttechnik. These projects reflect our skills in waste water treatment.

More references are available for our **containerized waste water treatment** systems. All the technology is installed for plug&play- available as OEM-product (ClearFox container)

More references are available for projects from our license partners

- SBR-Treatment systems (KIts for clients tanks)
- Flotation systems (pretreatment for clients projects)
- small waste water systems for domestic (dealer, agents)

In case of interest for a special application please contact us. We will find a shoe your food!

Bayreuth, May- 2013 PPU-Umwelttechnik