

# INDUSTRIAL WASTE WATER TREATMENT MAIN REFERENCES



## Agrifood Industry

### ACEITES COOSUR, S.A.

Refined oils



Puente del Obispo Jaen

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 100 m<sup>3</sup>/day Municipal Sewer

**Start up** 2004



Vilches Jaen

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 300 m<sup>3</sup>/day Municipal Sewer

**Start up** 2003

### ACTEMSA (GRUPO ESCURIS)

Fish products



Puebla del Caramiñal Coruña

**Treatment** Physical chemical

**Flow rate** 100 m<sup>3</sup>/day

**Start up**

### AGROSEVILLA

Olives industry



La Roda de Andalucía Sevilla

**Treatment** Oil & grease removal

**Flow rate** 125 m<sup>3</sup>/day

**Start up**

### APERITIVOS MATARILE

Snacks



Marchena Sevilla

**Treatment** Biologic Sequencing Batch reactor

**Flow rate** 135 m<sup>3</sup>/day Municipal Sewer

**Start up** 2011

### AUCOSA

Fish-meal & fish-oil



Vigo Pontevedra

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 100 m<sup>3</sup>/day

**Start up**

## AVECOX

Slaughtering

Cox Alicante

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 200 m<sup>3</sup>/day

**Start up** 2004

## AVES INAVICO, S.L.

Slaughtering

Olvera Cádiz

**Treatment** Oil & grease removal

**Flow rate** 50 m<sup>3</sup>/day Municipal Sewer

**Start up** 2003

## AVES LÁZARO

Slaughtering



Aves Lázaro, S. L.

Ronda Málaga

**Treatment** Oil & grease removal

**Flow rate** 250 m<sup>3</sup>/day Municipal Sewer

**Start up** 2004

## BELCHÍ HERMANOS

Slaughtering



Alhama de Murcia Murcia

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 300 m<sup>3</sup>/day Municipal Sewer

**Start up** 2002

## BERNARDO ALFAGEME, S.A. (CONSERVAS MIAU)

Fish products



Sisán - Ribadumia Pontevedra

**Treatment** Physical chemical

**Flow rate** 800 m<sup>3</sup>/day

**Start up**

## CAMPOAVES - AVES DO CAMPO, S.A.

Slaughtering



AVES DO CAMPO, S.A.

Oliveira de Frades Portugal

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 400 m<sup>3</sup>/day River bed

**Start up** 2011

## CÁRNICAS ALBINO, S.L.

Slaughtering

Bayo Lugo

**Treatment** Physical chemical

**Flow rate** 170 m<sup>3</sup>/day Municipal Sewer

**Start up** 2001

## CÁRNICAS HIGALENSE, S.L.

Slaughtering

Higuera la Real Badajoz

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 100 m<sup>3</sup>/day River bed

**Start up** 2003

## CÁRNICAS SAN ESTEBAN

Slaughtering

Ferrol Coruña

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 50 m<sup>3</sup>/day River bed

**Start up** 2000

## CENTRAL QUESERA MONTESINOS

Dairy products

Carmona Sevilla

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 100 m<sup>3</sup>/day River bed

**Start up** 2000

## CERVEZAS MAHOU

Brewering



Alovera Guadalajara

**Treatment** Anaerobic Biologic treatment

**Flow rate** 3.600 m<sup>3</sup>/day River bed

**Start up** 1997

## CLAUSE TEZIER IBÉRICA

Seeds industry



Vélez-Málaga Málaga

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 100 m<sup>3</sup>/day

**Start up**

## CONGELADOS PAIS, S.A.

Fish products

Bergondo Coruña

**Treatment** Physical chemical

**Flow rate** 120 m<sup>3</sup>/day

**Start up**

## CONSERVAS DEL NOROESTE, S.A. (CONNORSA)

Fish products



Acuña - Vilaboa

Pontevedra

**Treatment** Physical chemical

**Flow rate** 850 m<sup>3</sup>/day

**Start up**

## CONSERVAS FERNÁNDEZ (HALCÓN GRUPO)

Processed vegetables



Calasparra

Murcia

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 3.000 m<sup>3</sup>/day Municipal Sewer

**Start up** 2005

## CONSERVAS FRISCOS, S.A.

Fish products



Catoira

Pontevedra

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 400 m<sup>3</sup>/day Municipal Sewer

**Start up** 2011



Catoira

Pontevedra

**Treatment** Anaerobic biological treatment

**Flow rate** 800 m<sup>3</sup>/day Municipal Sewer

**Start up**

## CONSERVAS GARAVILLA, S.A.

Fish products



O Grove

Pontevedra

**Treatment** Aerobic Biologic treatment

**Flow rate** 315 m<sup>3</sup>/day

**Start up** 1994

## CONSERVAS IGLESIAS, S.L.

Fish products



Cangas

Pontevedra

**Treatment** Physical chemical

**Flow rate** 100 m<sup>3</sup>/day Municipal Sewer

**Start up**

## CONSERVAS LAGO PAGANINI, S.L.

Fish products

Cangas Pontevedra

**Treatment** Physical chemical

**Flow rate** 100 m<sup>3</sup>/day Municipal Sewer

**Start up** 2000

## CUMBRES MAYORES, S.A.

Slaughtering



Cumbres Mayores Huelva

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 100 m<sup>3</sup>/day River bed

**Start up** 2003

## DULCES Y CONSERVAS HELIOS, S.A.

Processed vegetables



Valladolid Valladolid

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 700 m<sup>3</sup>/day River bed

**Start up** 2009

## EBRO AGRÍCOLAS, S.A.

Sugar Industry



Miranda de Ebro Burgos

**Treatment** Anaerobic Biologic treatment

**Flow rate** 7.200 m<sup>3</sup>/day Municipal Sewer

**Start up** 1994

## ELABORADORA DE CEFALÓPODOS, S.A.

Fish products

Coruña Coruña

**Treatment** Oil & grease removal

**Flow rate** 500 m<sup>3</sup>/day Municipal Sewer

**Start up**

## EXOLIVA, S.A.

Olives industry

Plasencia Cáceres

**Treatment** Oil & grease removal

**Flow rate** 300 m<sup>3</sup>/day

**Start up**

## FORLASA

Dairy products



Villarrobledo Albacete

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 1.500 m<sup>3</sup>/day River bed

**Start up** 2003

## FRUBAÇA, CRL

Juice processing



Alcobaça Portugal

**Treatment** Biologic Sequencing Batch reactor

**Flow rate** 100 m<sup>3</sup>/day Reuse

**Start up** 2011



Alcobaça Portugal

**Treatment** Pretreatment

**Flow rate** 100 m<sup>3</sup>/day River bed

**Start up** 2008

## FRUTOLACT

Fruit & vegetable juices

Valdelacalzada Badajoz

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 600 m<sup>3</sup>/day River bed

**Start up** 2006

## GESLACT, S.A.

Dairy products

Monforte de Lemos Lugo

**Treatment** Physical chemical

**Flow rate** 400 m<sup>3</sup>/day Municipal Sewer

**Start up** 2000

## GONZÁLEZ GARCÍA HNOS, S.L.

Processed vegetables



San Fulgencio Alicante

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 100 m<sup>3</sup>/day

**Start up**

## GOURMET

Processed meat



Paterna Valencia

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 200 m<sup>3</sup>/day Municipal Sewer

**Start up** 2004

## GREFUSA

Snacks



Alzira Valencia

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 930 m<sup>3</sup>/day Municipal Sewer

**Start up** 2006



Medina del Campo Valladolid

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 750 m<sup>3</sup>/day Municipal Sewer

**Start up** 2005

## GRUPO CRUZCAMPO, S.A.

Brewering



El Puig Valencia

**Treatment** Anaerobic Biologic treatment

**Flow rate** 4.800 m<sup>3</sup>/day

**Start up** 1995

## HALCÓN FOODS (HALCÓN GRUPO)

Processed vegetables



Campos del Río Murcia

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 2.000 m<sup>3</sup>/day Municipal Sewer

**Start up** 2006

## HERO ESPAÑA, S.A.

Processed vegetables



Alcantarilla Murcia

**Treatment** Physical chemical

**Flow rate** 2.400 m<sup>3</sup>/day Municipal Sewer

**Start up** 2003

## HIJOS DE JUAN PUJANTE

Slaughtering



Beniel Murcia

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 500 m<sup>3</sup>/day Municipal Sewer

**Start up** 2004

## HUDISA DESARROLLO IND, S.A.

Processed vegetables

Lepe Huelva

**Treatment** Sand filter

**Flow rate** 700 m<sup>3</sup>/day

**Start up** 2003

## INCARLE, S.A.

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Processed meat

Paterna Valencia

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 20 m<sup>3</sup>/day Municipal Sewer

**Start up** 2004

## INCARLOPSA

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Slaughtering



Tarancón Cuenca

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 2.000 m<sup>3</sup>/day River bed

**Start up** 2005

## INDUSTRIAS CÁRNICAS LA COPE, S.A.

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Slaughtering

Torrent Valencia

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 800 m<sup>3</sup>/day Municipal Sewer

**Start up** 2007

## INDUSTRIAS VIDECA

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Processed vegetables



Villanueva de Castellón Valencia

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 800 m<sup>3</sup>/day Municipal Sewer

**Start up** 2006

## KELLOG'S ESPAÑA, S.A.

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Snacks



Valls Tarragona

**Treatment** Anaerobic Biologic treatment

**Flow rate** 360 m<sup>3</sup>/day River bed

**Start up** 1999

## KOIKE (GRUPO SOS CUÉTARA)

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Refined oils



Andújar Jaen

**Treatment** Biologic Sequencing Batch reactor

**Flow rate** 1.300 m<sup>3</sup>/day River bed

**Start up** 2009



## KRAFT FOODS ESPAÑA

Dairy products



Hospital de Órbigo León

**Treatment** DAF

**Flow rate** 750 m<sup>3</sup>/day River bed

**Start up** 2011



Hospital de Órbigo León

**Treatment** DAF

**Flow rate** 500 m<sup>3</sup>/day River bed

**Start up** 2004



Hospital de Órbigo León

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 400 m<sup>3</sup>/day River bed

**Start up** 2007

## KRAFT FOODS ESPAÑA (SAIMAZA)

Coffe



Dos Hermanas Sevilla

**Treatment** Evaporation

**Flow rate** 1 m<sup>3</sup>/day

**Start up** 2002

## LA ABULENSE, S.A.

Snacks



Getafe Madrid

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 30 m<sup>3</sup>/day Municipal Sewer

**Start up** 2005

## LA JOYA EXPORT (GRUPO I. VIDECA)

Processed vegetables



Burriana Castellón

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 600 m<sup>3</sup>/day Municipal Sewer

**Start up** 2006

## LÁCTEAS GARCÍA BAQUERO

Dairy products



Alcázar de San Juan Ciudad Real

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 1.600 m<sup>3</sup>/day River bed

**Start up** 2009



Vila Praia Portugal

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 200 m<sup>3</sup>/day River bed

**Start up** 2002

## LATINOLIVA INTERNACIONAL

Refined oils

Benamejí Córdoba

**Treatment** Physical chemical

**Flow rate** 150 m<sup>3</sup>/day

**Start up**

## MARTÍNEZ LORIENTE, S.A.

Processed meat



Cheste Valencia

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 500 m<sup>3</sup>/day Municipal Sewer

**Start up** 2003



Buñol Valencia

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 2.000 m<sup>3</sup>/day River bed

**Start up** 2005

## MASQUEPAN CORP. ALIMENTARIA (GRUPO GREFUSA)

Pasta & Pizza manufacturing



Aldeamayor de San Martín Valladolid

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 160 m<sup>3</sup>/day River bed

**Start up** 2006

## MATADERO F. NTRA SRA DEL CARMEN, S.L.

Slaughtering

Morón de la Fra Sevilla

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 100 m<sup>3</sup>/day

**Start up** 2004

## MATADERO IBÉRICOS DEL SUR

Slaughtering



Villanueva de Córdoba Córdoba

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 200 m<sup>3</sup>/day River bed

**Start up** 2004

## MATADERO MADRID-NORTE (GRUPO LOS NORTEÑOS)

Slaughtering



San Agustín Guadalix Madrid

**Treatment** Sludge treatment

**Flow rate** 1.000 m<sup>3</sup>/day Municipal Sewer

**Start up** 2003

## MATADERO SIERRA MORENA

Slaughtering

El Pedroso Sevilla

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 30 m<sup>3</sup>/day River bed

**Start up** 2004

## MATEOS, S.L.

Animal by-products

Cabezón de Pisuerga Valladolid

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 1.500 m<sup>3</sup>/day River bed

**Start up** 2004

## MIGUEL ALFARO, S.L.

Slaughtering

Estepa Sevilla

**Treatment** Physical chemical

**Flow rate** 50 m<sup>3</sup>/day Municipal Sewer

**Start up** 2002

## MONTEPORRINO, S.C.L.

Slaughtering



Salvaleón Badajoz

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 100 m<sup>3</sup>/day

**Start up** 2003

## MOSTOS INTERNACIONALES, S.A.

Must processing



Valdepeñas Ciudad Real

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 60 m<sup>3</sup>/day Municipal Sewer

**Start up** 2009

## MOUTADOS, Lda

Processed meat



Vil. De Famalicao Portugal

**Treatment** Physical chemical

**Flow rate** 400 m<sup>3</sup>/day Municipal Sewer

**Start up** 2003

## NESTLÉ, S.A.

Dairy products



Avanca Portugal

**Treatment** Biologic nutrient removal

**Flow rate** 1.700 m<sup>3</sup>/day River bed

**Start up** 2004

## OSI FOODS SOLUTIONS SPAIN, S.L.

Processed meat



Toledo Toledo

**Treatment** Physical chemical

**Flow rate** 250 m<sup>3</sup>/day Municipal Sewer

**Start up** 2003

## OWEL-GHIJS ESPAÑA

Potato washed



Medina del Campo Valladolid

**Treatment** Physical chemical & reuse

**Flow rate** 840 m<sup>3</sup>/day Municipal Sewer

**Start up** 2005

## PESCADOS RUBÉN

Fish products

Burela Lugo

**Treatment** Physical chemical

**Flow rate** 150 m<sup>3</sup>/day

**Start up**

## PROCAVI (GRUPO ELPOZO)

Slaughtering



Marchena Sevilla

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 800 m<sup>3</sup>/day River bed

**Start up** 2004

## QUALIA LÁCTEOS, S.L.U.

Dairy products



Almodóvar del Campo Ciudad Real

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 460 m<sup>3</sup>/day Municipal Sewer

**Start up** 2007

## QUESERÍAS ENTREPINARES, S.A.

Dairy products



Villalba Lugo

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 1.000 m<sup>3</sup>/day River bed

**Start up** 2010



Valladolid Valladolid

**Treatment** Homogeneization + pH control

**Flow rate** 2.000 m<sup>3</sup>/day Municipal Sewer

**Start up** 2010



Valladolid Valladolid

**Treatment** DAF

**Flow rate** 150 m<sup>3</sup>/day Municipal Sewer

**Start up** 2012

## QUESOS DEL DUERO, S.A. (GRUPO GARCÍA BAQUERO)

Dairy products



Toro Zamora

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 1.000 m<sup>3</sup>/day River bed

**Start up** 2004

## RAMÓN VIZCAÍNO, S.A.

Slaughtering



Casablanca Marruecos

**Treatment** Physical chemical

**Flow rate** 2.400 m<sup>3</sup>/day

**Start up** 1999

## RIOSA

Oil refining



Linarejos Jaen  
**Treatment** Biologic Sequencing Batch Reactor  
**Flow rate** 230 m<sup>3</sup>/day River bed

**Start up** 2008

## SADA p.a.CASTILLA GALICIA (AGROVIC)

Slaughtering



Porriño Pontevedra  
**Treatment** Physical chemical  
**Flow rate** 1.000 m<sup>3</sup>/day Municipal Sewer

**Start up** 2002

## SAN MIGUEL ARCÁNGEL

Oil refining

Villanueva del Arzobispo Jaen  
**Treatment** Membrane Bio-Rector  
**Flow rate** 55 m<sup>3</sup>/day River bed

**Start up** 2009

## SÁNCHEZ ROMERO CARVAJAL JABUGO, S.A.

Slaughtering



Jabugo Huelva  
**Treatment** Biologic Sequencing Batch Reactor  
**Flow rate** 2.000 m<sup>3</sup>/day River bed

**Start up** 2002

## SERVAROSA

Fish products

Villargacía de Arosa Pontevedra  
**Treatment** Physical chemical  
**Flow rate** 300 m<sup>3</sup>/day

**Start up**

## SIERRA DE BARBEDILLO

Slaughtering

Salvaleón Badajoz  
**Treatment** Biologic Sequencing Batch Reactor  
**Flow rate** 100 m<sup>3</sup>/day

**Start up** 2004

## SUEROMANCHA

Dairy products



Los Yébenes Toledo

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 50 m<sup>3</sup>/day Municipal Sewer

**Start up** 2003



Los Yébenes Toledo

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 80 m<sup>3</sup>/day Municipal Sewer

**Start up** 2011

## SUMOL + COMPAL MARCAS, S.A.

Juice processing



Vila Flor Portugal

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 200 m<sup>3</sup>/day River bed

**Start up** 2012

## SUMOLIS

Juice processing



Pombal Portugal

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 1.400 m<sup>3</sup>/day River bed

**Start up** 2009

## THENAISIE PROVÔTÉ, S.A.

Fish products



O Grove Pontevedra

**Treatment** Physical chemical

**Flow rate** 1.950 m<sup>3</sup>/day Municipal Sewer

**Start up**

## TRATAMIENTO SUBPRODUCTOS CÁRNICOS, S.L.

Animal by-products

Tarancón Cuenca

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 40 m<sup>3</sup>/day Municipal Sewer

**Start up** 2007

## ULTRAC. AZARBE + FRUVECO + CONSERVAS EL RAAL

Processed vegetables



El Raal Murcia

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 4.800 m<sup>3</sup>/day River bed

**Start up** 2005

## UNICER

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Pedras Salgadas Portugal

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 600 m<sup>3</sup>/day River bed

Juice processing

**Start up** 2008

## UNIÓN SALAZONERA ISLEÑA, S.A. (USISA)

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Isla Cristina Huelva

**Treatment** Physical chemical & sand filter

**Flow rate** 250 m<sup>3</sup>/day Fresh water

Fish products

**Start up**

## VICOSUS

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Alenquer Portugal

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 300 m<sup>3</sup>/day

Slaughtering

**Start up** 2002

## Biofuel

### TAGOL

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Portugal

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 120 m<sup>3</sup>/day River bed

Biodiesel

**Start up** 2007



## Cardboard & Paper Industry

### EUROPA&C

Paper industry



Dueñas Palencia

**Treatment** Sand filter

**Flow rate** 1.200 m<sup>3</sup>/day River bed

**Start up** 2002

### EUROPA&C (PAPELERA DEL CINCA)

Paper industry



Alcolea del Cinca Huesca

**Treatment** Anaerobic Biologic treatment

**Flow rate** 3.600 m<sup>3</sup>/day River bed

**Start up** 1993

### FÁBRICA DE PAPEL DE MEDROS

Paper industry

Barcelos Portugal

**Treatment** Physical chemical

**Flow rate** 300 m<sup>3</sup>/day

**Start up**

### SEBASTIAO & MARTINS

Cardboard industry

Guimaraes Portugal

**Treatment** Physical chemical & reuse

**Flow rate** 10 m<sup>3</sup>/day

**Start up**

### SMURFIT ESPAÑOLA, S.A.

Paper industry



Mengibar Jaen

**Treatment** Anaerobic Biologic treatment

**Flow rate** 6.000 m<sup>3</sup>/day River bed

**Start up** 1995

### TRASLOGA (GRUPO EUROPA&C)

Cardboard industry



Dueñas Palencia

**Treatment** Physical chemical

**Flow rate** 20 m<sup>3</sup>/day Municipal Sewer

**Start up** 2003

## YUEYANG PAPER GROUP, Co Ltd

Paper industry

Yueyang China

**Treatment** Aerobic Biologic treatment

**Flow rate** 40.000 m<sup>3</sup>/day River bed

**Start up** 2003

## Ceramic Industry

### COSENTINO, S.A.

SILESTONE 1, 2, 3 y  
Marble Factories



Olula del Río Almería

**Treatment** Physical chemical & reuse

**Flow rate** 14.400 m<sup>3</sup>/day Municipal Sewer

**Start up** 2004



Olula del Río Almería

**Treatment** Physical chemical & reuse

**Flow rate** 19.200 m<sup>3</sup>/day Municipal Sewer

**Start up** 2005



Olula del Río Almería

**Treatment** Physical chemical & reuse

**Flow rate** 21.600 m<sup>3</sup>/day Municipal Sewer

**Start up** 2006



Olula del Río Almería

**Treatment** Physical chemical & reuse

**Flow rate** 10.080 m<sup>3</sup>/day Municipal Sewer

**Start up** 2006

### FAPOR, S.A.

Ceramic Industry



Batalha Portugal

**Treatment** Physical chemical & reuse

**Flow rate** 25 m<sup>3</sup>/day Municipal Sewer

**Start up**

### FIBROCEMENTOS NT (GRUPO URALITA)

Fibre Cement



Valladolid Valladolid

**Treatment** Physical chemical

**Flow rate** 10 m<sup>3</sup>/day Municipal Sewer

**Start up** 2003

## Chemical & Oil

### AVENTIS FARMA

Pharmaceutical Industry



Alcorcón Madrid

**Treatment** pH control

**Flow rate** 40 m<sup>3</sup>/day Municipal Sewer

**Start up** 2003

### BDF NIVEA, S.A.

Cosmetic Industry



Tres Cantos Madrid

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 140 m<sup>3</sup>/day Municipal Sewer

**Start up** 2004

### CEPSA

Mineral Oil Refinery



San Roque Cádiz

**Treatment** Physical chemical

**Flow rate** 960 m<sup>3</sup>/day Sea

**Start up** 1993

### CEPSA TENERIFE

Mineral Oil Refining



Santa Cruz Tenerife Tenerife

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 2.880 m<sup>3</sup>/day Sea

**Start up** 2008

### CHT-R BEITLICH PORTUGAL, Lda.

Fine Chemicals



Maia Portugal

**Treatment** Physical chemical

**Flow rate** 10 m<sup>3</sup>/day Municipal Sewer

**Start up** 2001

### DERIVADOS QUÍMICOS, FURFURAL ESPAÑOLA & NOVOC

Fine Chemicals



Alcantarilla Murcia

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 600 m<sup>3</sup>/day Municipal Sewer

**Start up** 2001

## EASTMAN CHEMICAL

Fine Chemicals

### **EASTMAN**

Zárate Argentina

**Treatment** Anaerobic Biologic treatment

**Flow rate** 300 m<sup>3</sup>/day River bed

**Start up** 1998

## ENAP ACONCAGUA (ENERGÍA CONCÓN, S.A.)

Mineral Oil Refinery



Concón Chile

**Treatment** Aerobic Biologic treatment

**Flow rate** 3.000 m<sup>3</sup>/day River bed

**Start up** 2006

## ERKIMIA, S.A. (GRUPO ERCROSS)

Fine Chemicals



Flix Tarragona

**Treatment** Physical chemical

**Flow rate** 7.500 m<sup>3</sup>/day River bed

**Start up** 1996

## FERTIBERIA

Fertilizers



Puertollano Ciudad Real

**Treatment** Equalization & oil removal

**Flow rate** 1.000 m<sup>3</sup>/day River bed

**Start up** 2001

## Mc NEIL IBÉRICA, S.L.U.

Pharmaceutical Industry



Alcalá de Henares Madrid

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 100 m<sup>3</sup>/day Municipal Sewer

**Start up** 2003

## QUÍMICA SINTÉTICA, S.A. (GRUPO CHEMO IBÉRICA)

Fine Chemicals



Alcalá de Henares Madrid

**Treatment** Physical chemical

**Flow rate** 600 m<sup>3</sup>/day Municipal Sewer

**Start up** 1996

## REPSOL CORUÑA (PETROLIBER) (FOSTER WHEELER)

Mineral Oil Refinery



Coruña Coruña

**Treatment** Aerobic Biologic treatment

**Flow rate** 19.200 m<sup>3</sup>/day River bed

**Start up** 1981

## WYETH FARMA, S.A.

Pharmaceutical Industry

**Wyeth**

San Sebastián de los Reyes Madrid

**Treatment** Biologic nutrient removal

**Flow rate** 400 m<sup>3</sup>/day River bed

**Start up** 2002

**Wyeth**

San Sebastián de los Reyes Madrid

**Treatment** Filtration

**Flow rate** 600 m<sup>3</sup>/day Fresh water

**Start up** 2007

## Glass Manufacturing Industry

### INCUSA (GRUPO CRISTALERÍA ESPAÑOLA)

Silica sand



Carrascal del Río Segovia

**Treatment** Physical chemical fluorine removal

**Flow rate** 2.400 m<sup>3</sup>/day River bed

**Start up** 2002

## VIDRIERAS CANARIAS, S.A.

Glass Manufacturing



Telde Gran Canaria

**Treatment** Physical chemical

**Flow rate** 2.400 m<sup>3</sup>/day Municipal Sewer

**Start up** 1993

## Municipal Waste Water

### AQUALIA G.I.A. (BARRIADA CORAZÓN DE JESÚS)

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	Badajoz	Badajoz		
<b>Treatment</b>	Biologic Sequencing Batch Reactor			
<b>Flow rate</b>	125 m <sup>3</sup> /day	River Bed	<b>Start up</b>	2012

### EDARU RIO ESQUEIRO (FCC)

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	Cudillero	Asturias		
<b>Treatment</b>	Membrane Bio-Reactor			
<b>Flow rate</b>	1.125 m <sup>3</sup> /day	River bed	<b>Start up</b>	2011
				Hotel

### HOTEL LA BOTICARIA

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	Alcalá de Guadaira	Sevilla		
<b>Treatment</b>	Biologic Sequencing Batch Reactor			
<b>Flow rate</b>	175 m <sup>3</sup> /day	River bed	<b>Start up</b>	2004
				Textil industry

### L.M.A.

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	Santo Tirso	Portugal		
<b>Treatment</b>	Biologic Sequencing Batch Reactor			
<b>Flow rate</b>	10 m <sup>3</sup> /day	River bed	<b>Start up</b>	

## Other Industries

### ASTURIANA DEL ZINC, S.A.

Electrolitic Zinc



San Juan de Nieva Asturias

**Treatment** Sand Filter

**Flow rate** 7.200 m<sup>3</sup>/day Sea

**Start up** 2012

### C.T.R. MEDITERRÁNEO, S.A.

Plastics washed

Vall D'Alba Castellón

**Treatment** Physical chemical

**Flow rate** 250 m<sup>3</sup>/day Municipal Sewer

**Start up** 2003

### COBRE LAS CRUCES, S.A. (P.A. AGUAS CONTACTO)

Mining



Gerena Sevilla

**Treatment** Decanter + Filter Press

**Flow rate** 4.800 m<sup>3</sup>/day Reuse

**Start up** 2010

### ISOFOTÓN, S.A.

Solar cells manufacturing



Málaga Málaga

**Treatment** pH control

**Flow rate** 150 m<sup>3</sup>/day Municipal Sewer

**Start up** 2002

### PARKING SERVICES CASTELLBISBAL (CONTANK)

Truck washed



Castellbisbal Barcelona

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 140 m<sup>3</sup>/day Municipal Sewer

**Start up** 2005

### PINTURAS AYELENSES

Paint industry

Ayelo de Malferit Valencia

**Treatment** Physical chemical

**Flow rate** 10 m<sup>3</sup>/day Municipal Sewer

**Start up**

## PLASTIC OMNIUM, S.A.

Street furniture washed



Madrid Madrid

**Treatment** Physical chemical

**Flow rate** 50 m<sup>3</sup>/day Municipal Sewer

**Start up** 2000

## PROCEMSA

Butane gas cylinder  
Washed

Utrera Sevilla

**Treatment** Oil & grease removal

**Flow rate** 320 m<sup>3</sup>/day Municipal Sewer

**Start up**

## RECASA

Disposal of toxic waste



Casarrubios del Monte Toledo

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 200 m<sup>3</sup>/day Municipal Sewer

**Start up** 2003

## SAPROGAL

Prepared animal feeds



Aranda de Duero Burgos

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 10 m<sup>3</sup>/day River bed

**Start up** 2000

## SCA TRANSPORTISTAS PUERTO HUELVA

Truck washed

Huelva Huelva

**Treatment** Physical chemical

**Flow rate** 30 m<sup>3</sup>/day Municipal Sewer

**Start up**



## UNIÓN ELÉCTRICA DE CANARIAS, S.A.

Power generation



Jinamar Gran Canaria

**Treatment** Physical chemical

**Flow rate** 240 m<sup>3</sup>/day

**Start up** 1996



La Palma Tenerife

**Treatment** Physical chemical

**Flow rate** 15 m<sup>3</sup>/day

**Start up** 1998



Candelaria Tenerife

**Treatment** Physical chemical

**Flow rate** 120 m<sup>3</sup>/day

**Start up** 1997

### UTE 3 PAJARES FASE I

Rail tunnel

Campomanes Asturias

**Treatment** WWTP & Water Treatment Plant

**Flow rate** 200 m<sup>3</sup>/day River bed

**Start up** 2006

### UTE 3 PAJARES FASE II

Rail tunnel

Campomanes Asturias

**Treatment** WWTP & Water Treatment Plant

**Flow rate** 1.700 m<sup>3</sup>/day River bed

**Start up** 2006

### UTE VILADEMULS PONTÓS

Rail tunnel



Pontós Girona

**Treatment** WWTP & Water Treatment Plant

**Flow rate** 360 m<sup>3</sup>/day River bed

**Start up** 2008

## Others

### ACUAMED (UTE EBRE-FLIX)



Flix Tarragona  
**Treatment** DAF+Sand Filter+PACT Filter  
**Flow rate** 7.200 m<sup>3</sup>/day River bed  
**Start up** 2012

### AENA - AEROPUERTO DE ALICANTE



Alicante Alicante  
**Treatment** Macrophytes filter system  
**Flow rate** 1.133 m<sup>3</sup>/day River bed  
**Start up** 2002

### AENA - AEROPUERTO DE MADRID-BARAJAS



Madrid Madrid  
**Treatment** Oil & grease removal  
**Flow rate** 62.680 m<sup>3</sup>/day River bed  
**Start up** 1999  
 Hydrocarbon elimination

### AENA - AEROPUERTO DE MÁLAGA (EDAR SENTINAS)



Málaga Málaga  
**Treatment** Membrane Bioreactor  
**Flow rate** 40 m<sup>3</sup>/day River bed  
**Start up** 2011  
 WWTP Bilges

### AEROPUERTO DE CASTELLÓN



Cabanes Castellón  
**Treatment** Biologic Sequencing Batch Reactor  
**Flow rate** 590 m<sup>3</sup>/day River bed  
**Start up** 2009  
 WWTP Airport

### CONSEJERÍA MEDIO AMBIENTE - COMUNIDAD MADRID



Madrid Madrid  
**Treatment**  
**Flow rate** m<sup>3</sup>/day  
**Start up**

## EDAR INDUSTRIAL ALCALÁ HENARES (CDAD. MADRID)

Industrial WWT Plant



Alcalá de Henares Madrid

**Treatment** Aerobic Biologic treatment

**Flow rate** 56.000 m<sup>3</sup>/day River bed

**Start up** 1990

## EDAR LA CARTUJA ZARAGOZA (FCC)

Tertiary Treatment



Zaragoza Zaragoza

**Treatment** UF + Disinfection

**Flow rate** 1.300 m<sup>3</sup>/day Reuse

**Start up** 2010

## GMP NUEVA RESIDENCIAL, S.A. (PAU 21 ORIHUELA)

Domestic Waste Water  
+ Reuse



Orihuela Alicante

**Treatment** Aerobic Biological Treatment + Filtration

**Flow rate** 2.100 m<sup>3</sup>/day Domestic Waste Water

**Start up** 2008

## NAVANTIA

WWTP Shipyards



Cádiz Cádiz

**Treatment** Membrane Bio-Reactor

**Flow rate** 40 m<sup>3</sup>/day Reuse

**Start up** 2011

## PLANTA TRATAMIENTO VINAZAS TOMELLOSO

Wine by-products  
treatment



Tomelloso Ciudad Real

**Treatment** Anaerobic Biologic treatment

**Flow rate** 2.520 m<sup>3</sup>/day Municipal Sewer

**Start up** 1986

## WWTP PUERTO SANTA MARÍA (FCC)

Water Reuse



Puerto Sta María Cádiz

**Treatment** UltraFiltration + Reverse Osmosis

**Flow rate** 260 m<sup>3</sup>/day Water Reuse

**Start up** 2008

## Pig production - Slurry

### GRANJA EGILUZE (UTE ADE-NILO)

Pigs farm

Rentería Guipúzcoa

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 40 m<sup>3</sup>/day Municipal Sewer

**Start up** 2004

### TRAGSA

Pigs farm



Sebúlcor Segovia

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 30 m<sup>3</sup>/day River bed

**Start up** 2002

## Surface Treatment of Metals

### A.G. GALVA-COLOR (GRUPO SID. BALBOA)

Galvanized industry



Jerez de los Caballeros Badajoz

**Treatment** Sand filter

**Flow rate** 600 m<sup>3</sup>/day Fresh water

**Start up**

### INTERNACIONAL HISPACOLD, S.A.

Air conditioning equipment



Sevilla Sevilla

**Treatment** Physical chemical

**Flow rate** 80 m<sup>3</sup>/day Municipal Sewer

**Start up**

### METASOLA, S.A.

Surface Treatment of Metals

Alcalá de Guadaira Sevilla

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 20 m<sup>3</sup>/day

**Start up**

### SIDERÚRGICA BALBOA, S.A.

Iron & Steel Industry



Jerez de los Caballeros Badajoz

**Treatment** Sludge treatment

**Flow rate** m<sup>3</sup>/day

**Start up**

## Textil Industry

### COMPONENTES VEHÍCULOS GALICIA,S.A. - GRUPO COP

Textil



Vigo Pontevedra

**Treatment** Physical chemical

**Flow rate** 50 m<sup>3</sup>/day Municipal Sewer

**Start up**

### FRANCISCO TORRINHA, Lda

Washed jeans industry

Guimaraes Portugal

**Treatment** Physical chemical

**Flow rate** 1.000 m<sup>3</sup>/day Municipal Sewer

**Start up**

### J. FERREIRA LOPES

Washed jeans industry

Barcelos Portugal

**Treatment** Biologic Sequencing Batch Reactor

**Flow rate** 300 m<sup>3</sup>/day

**Start up**

Barcelos Portugal

**Treatment** Physical chemical

**Flow rate** 200 m<sup>3</sup>/day

**Start up**

### J.P. SOUSA, Lda

Textil finish

Vizela Portugal

**Treatment** Physical chemical

**Flow rate** 100 m<sup>3</sup>/day

**Start up**

### MANODI

Textil finish

Guimaraes Portugal

**Treatment** pH control

**Flow rate** 150 m<sup>3</sup>/day

**Start up**

## SOC TEXTIL DE GUIMARAES

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Laundry

Guimaraes Portugal

**Treatment** pH control

**Flow rate** 100 m<sup>3</sup>/day

**Start up**

## TINTÁMEGA, Lda

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Laundry

Oporto Portugal

**Treatment** Physical chemical

**Flow rate** 500 m<sup>3</sup>/day

**Start up**

## TOP WASH, S.L. (GRUPO ZARA-INDITEX)

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Washed jeans industry



Arteixo Coruña

**Treatment** Physical chemical

**Flow rate** 2.500 m<sup>3</sup>/day Municipal Sewer

**Start up**

## TTT

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Laundry

Fafe Portugal

**Treatment** Physical chemical

**Flow rate** 1.800 m<sup>3</sup>/day Municipal Sewer

**Start up**