



SPECIAL

PROJECTS





INDUSTRY



BUILDINGS AND URBAN







SUSTAINABILITY

CONSTRUCTION MANAGEMENT AND SUPERVISION





WHO WE ARE

A company of Engineering and Architecture Consultants focused on designing the best Solutions

The essence of our activity is the focus on the Solutions and therefore we work using multidisciplinary teams, based on the experience and capacity of innovation of our consultants



WHO WE ARE

AMBCONSULT was founded in 2004, with the challenge of being the best environmental consulting company in the market.

The company emerged from the combination of various experiences, vital to bring about a complete work, while focusing on meeting the client's needs.

OUR MISSION

Ambconsult's mission is to solve problems involving sanitation companies, consultancies, industries and the state in the area of environment and sanitation providing technical support, studies and innovative projects focused on improving the client's business, by enabling new opportunities, better management and optimising clients' results.

OUR CULTURE

- Environmental improvement as a paradigm
- Technical innovation for better products at lower cost
- Boldness to seek solutions
- Pleasure for the challenge
- Client focus
- Motivated team
- Organisational structure

TEAM

CYRO BERNARDES JUNIOR

Chemical engineer, graduated in 1976, completed a Master's degree in the United States and a PhD at the Institute of Geosciences at USP. Worked for 13 years at CETESB, founded Ambiterra and led the company until 2002, and served as technical director of Essencis (a leading company in the waste treatment and disposal of waste) until early 2006.

JORGE ERNESTO FEIN

Sanitary Engineer, graduated in 1986. Worked for several project companies (Jaacko Poery, Coplasa, and Hidroconsult) until 1994. From 1994 to 2004, worked at Ambiterra where he executed and managed environmental projects and studies. Founded Ambconsult in 2004

- Improving the quality of the sanitation service (water, sewerage, waste and drainage), as well as increasing the sources of funding for the municipality by drafting municipal sanitation plans (water, sewerage, solid waste and drainage);
- Minimising water consumption in general;
- Making a municipality more sustainable by increasing waste recycling developing integrated municipal waste management plans;
- Helping clients enable the use of contaminated or suspected areas through environmental liability assessment (preliminary, confirmatory, detailed, risk analysis, intervention/remediation plan) and remediation projects;

- Helping clients better evaluate their environmental impacts, by implementing and better managing environmental monitoring with subsequent cost reduction;
- Improving the safety of waste landfills through geotechnical monitoring;
- Helping clients assess whether their development is viable from an environmental point of view (appraisal of app, vegetation, legal reserve, environmental liabilities) and/or from a technical and economic point of view;
- Supporting the environmental feasibility of developments by preparing paperwork for environmental licensing, including EIS/EIR, PER, etc.;
- Helping recover degraded natural areas.

AMBCONSULT CONSULTING

- To better understand the environmental liabilities in a client's area, and help them implement and/or manage the best alternative from a technical and liability remediation cost perspective;
- To provide technical basis for legal issues involving the environment;
- To assess whether a development is environmentally viable;
- To help the client consider the environment an ally of the business rather than a cost;

ENVIRONMENTAL ENGINEERING (PROJECTS)

- To increase and improve the ability to receive domestic, industrial and hazardous waste in landfills by preparing readjustment and optimisation projects and operational procedures;
- To provide elements for increasing sustainability by preparing sorting/recycling/recovery unit projects.
- To assess the economic and financial feasibility of waste disposal systems (landfills, incinerators, composting, sorting and other systems);
- To solve problems of contaminated areas efficiently and at the lowest cost;
- To improve the quality of liquid effluents discharged into watercourses and sewage systems.

AMBCONSULT MANAGEMENT

- To optimise and reduce the operating costs of waste disposal systems, especially landfill sites;
- To enable the improvement of basic sanitation services by implementing and managing sanitation plans and through integrated waste management;
- To implement better-quality and lower-cost remediation projects;
- To implement a better and less expensive environmental work;
- To help them better understand the environmental impact caused by the development through improved environmental monitoring.

SYSTEM TO FACILITATE AND DECREASE THE COST AND HELP TO BETTER ASSESS THE DEVELOPMENT'S ENVIRONMENTAL IMPACT

Organise measurement points .

- Organise field stations ٠
- Organise parameters .

1.

2.

3.

- Organise primary data as raw data ٠
- Manage the data that can be accessed by users ٠ and user groups

layouts, process lines, etc.

the desired point on the map

MAPGRAPHS - Click on the icon to open

DATA ANALYSIS - EXAMPLES

Backgrounds - MAPGRAPHS Charts - Active or Passive Icons

Active Icons

Columns vary automatically with incoming data. Here the minute-by-minute sewage flow

Active Icons

On the map -Automatically updated wind speed and direction

Active Icons

Water supply and usage continuously updated with warning messages on excess losses or consumption

Active Icons

In this picture, water quality parameters in a river basin (next slide)

Passive Icon

Shows only the sampling point. Clicking on the point displays the graph with the data.

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PORTAL AND WEBSITE - EXAMPLE

Climate monitoring. Water balance documentation.

IT IS AN ENVIRONMENTAL DATA MANAGEMENT SERVICE WITHIN THE MODERN CONCEPT OF SOFTWARE AS A SERVICE

Does not need a specialised and trained operator. The technician currently managing the data management will be able to work with mapgraph

Quick implementation;

Saves time and therefore reduces reporting costs, which can halve environmental reporting costs

The data collected are always a copy of the data, laboratory results and other systems, so mapgraph is a monitoring backup;

Collected data belong to the client;

The client can obtain copies of his entire mapgraph database at any time;

If the contract is terminated, the data will be deleted from the system

The data are only accessible to those allowed by the client

Mapgraph monitors the data input 24h a day so the data will always be the most recent

When closing a contract, we conclude a confidentiality agreement with the client

The data used are stored on servers that have a security protocol, back-up and protection against external attacks;

Easy access and availability are essential

RELEVANT PROJECTS

GUIDELINES	MEASURES
Minimising Waste at Final Disposal	 Increasing the coverage of selective collection Implementing management of the Sorting Unit by cooperative Implementing a composting process for pruning and weeding waste Establishing sectoral agreements aimed at increasing recycling of waste subject to reverse logistics Agreement with Reprocessing Plant to increase recycling of CDW Generating electricity from urban solid waste
Differentiated and Integrated Management	1. Maintaining the current differentiated collection system
Disposal in standardised landfills	1. Maintaining final disposal in licensed landfills.
Management in Standardised Sorting Areas	 Increasing the number of VDPs Increasing sorting efficiency by increasing capacity and reducing rejects

Proposed guidelines and measures

PREPARATION OF PEI FOR INTERMUNICIPAL CONSORTIUM IN THE NORTHEAST

Using a team composed of partners in the legal and economic-financial area, we coordinated the preparation of a proposal for expression of interest in a PPP involving transportation, transshipment and final disposal for 13 municipalities in the Northeast. With this, the client had a single interlocutor.

INTEGRATED MUNICIPAL SOLID WASTE PLAN

Preparation of an integrated municipal waste management plan for the municipality of Mogi das Cruzes in the state of São Paulo.

- Population: 300,000 inhabitants;
- Status: municipal law already approved.

Seminar on SMP with the population

Proposed guidelines and measures

MUNICIPAL SANITATION PLAN

Preparation of a municipal sanitation plan including water, sewage, drainage and solid waste management and participatory management for the municipality of Caieiras, in the state of São Paulo.

- Population: 900,000 inhabitants;
- Status: in preparation.

SORTING UNIT, COMPOSTING UNIT AND HEALTH SERVICES TREATMENT UNIT

System for the Collection and disposal of rubbish from São Paulo

View of the landfill - Class 1

CONSULTANCY ON HOUSEHOLD WASTE

Technical consultancy for the urban cleaning department of the municipality of São Paulo for 2 years.

ENVIRONMENTAL IMPACT STUDY

Environmental impact study and project for hazardous waste industrial landfill in Tremembé/SP.

- Volume of hazardous waste: 340,000 m³;
- Status: operational since 2000.

Gas collection project

WASTE LANDFILL

Project for a hazardous and non-hazardous waste treatment plant in Caieras/SP.

- Volume of hazardous waste: 570,000 m³;
- Volume of household and class II waste: 30,000,000 m³;
- Status: operational since 2001.

WASTE LANDFILL

Project for biogas abstraction and treatment at the Anaconda landfill (project subcontracted by ARAUNA)

Deployment cross-section

Aerial View of the Landfill

WASTE LANDFILL

Project for hazardous and non-hazardous waste in São José dos Campos/SP

• Status: operational since 1996.

SANITARY LANDFILL

Project for household waste in São Paulo/SP Bandeirantes landfill AS-3

- Volume of household waste: 8,000,000 m³;
- Status: operated from 1993 to 2000.

PROJECTS FOR RECOVERING AND CLOSING

SANITARY AND INDUSTRIAL LANDFILLS

Curitiba Plant

CHOICE OF AREAS FOR A LANDFILL

Participation in selecting areas for landfill sites:

- CAVO (Curitiba Plant);
- SÃO PAULO City Hall (current São João Landfill);
- ESSENCIS (Caieiras).

TREATMENT OF HEALTH SERVICES WASTE

Environmental impact study and support to the operation of the microwave health care waste treatment unit in São Paulo.

Transshipment entry

Excavation

TRANSSHIPMENT IN HOUSEHOLD WASTE

Environmental impact study of the small bridge transshipment station in São Paulo.

• Capacity: 4,400 T/day.

REMEDIATION OF CONTAMINATED SITES

Environmental assessment, executive project and execution of excavation and removal of soil contaminated with oil by-products in São Paulo/SP

- Site area: 100,000 m²;
- Status: completed in 2006.

REMEDIATION OF CONTAMINATED SITES

Environmental assessment, remediation project for chlorinated compounds in water and operation at the Sumaré plant/SP

- Area of intervention: 10,000 m²;
- Status: implemented in 2000 and operational.

ENVIRONMENTAL MONITORING MANAGEMENT

Environmental monitoring management (air, water, noise, vegetation), in:

- Cement factory;
- Container yard;
- Oil terminals.

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