



At Parsons Brinckerhoff (PB), our focus is on integrated, proactive, cost-effective facility compliance. We work with you to identify your environmental problems and then develop straightforward solutions to engineering the optimal environmental solutions for your facilities. In the fields of air, water, hazardous waste remediation, pollution prevention and waste minimization, we know the regulations and the most cost-effective strategies and technologies to manage your facilities' risks and resolve your environmental issues.

Some of the biggest names in petrochemicals, power, and manufacturing count on PB for our expertise and experience in environmental planning, design, and construction management, and for the problem-solving, client-focused abilities of our more than 4,800 employees, including 600 environmental scientists and engineers.

Parsons Brinckerhoff's Environmental Services



***Parsons
Brinckerhoff:
Responsive,
Experienced,
Results-
Oriented.***





■ ***Watsonville, California,
Cogeneration Plant—
Exceeding Local
Requirements in
Emissions Control***

PB consciously designed the plant to ease air quality permitting, using emissions controls that pushed the state of the art at the time and cut six months off the permit process.

■ ***Denver, Colorado—
Expediting Permits For
Highway Development in a
Class I Wilderness Area***

PB obtained two Prevention of Significant Deterioration (PSD) reviews in less than 80 days, with a combined cost to our client of less than \$40,000.

■ ***Boston,
Massachusetts—
Anticipating and
Minimizing Unknowns
In Designing the
World's Longest Effluent
Outfall Rock Tunnel***

PB successfully developed the design for this 9.4-mile-long outfall rock tunnel under a grueling Federal deadline.





Air and water quality services at PB focus on one objective: getting your project completed economically, quickly, and within regulatory standards... in short, full facility compliance at the least cost to you. Throughout the process, our emphasis remains on providing the right technologies and most practical solutions for cost-effective emissions control—whether for new design, retrofitting existing facilities, or enhancing operations.

A particular PB strength is permitting strategies that gain quick approval for all components of a project—in doing so, we've achieved compliance for power plants, refineries, industrial plants, power facilities, and hospitals in states with the strictest air quality standards in the country. And we provide state-of-the-art emissions monitoring to ensure your continued compliance with ever-changing regulations.

Air and Water Quality



***PB Focuses
on the Most
Practical,
Cost-
Effective
Solutions.***





■ ***Golden, Colorado—
Involving the Public in
Converting a Nuclear
Weapons Manufacturing
Facility***

PB went beyond NEPA requirements to develop an unprecedented stakeholder involvement program—a real forum for the public employees, regulators, elected officials, and government agencies.

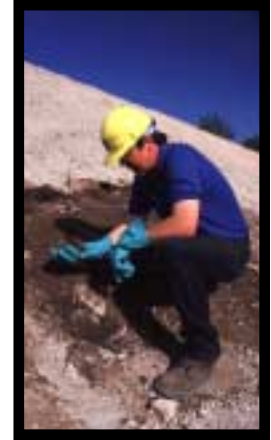
■ ***Borger, Texas—
Evaluating Waste
Migration from SWMU's***

PB is conducting a RCRA facility investigation (RFI) at a former rubber chemical complex to assess the presence of hazardous waste and to evaluate the extent to which the waste may be migrating from any of 24 Solid Waste Management Units (SWMU's). Results of the investigation will be compiled in a report for regulatory agency submittal.

■ ***Nationwide—Defining
the Magnitude of the
DOE's Contaminated
Facilities***

PB's Condition Assessment Survey (CAS) of \$75 billion in assets at 120 locations is helping the DOE to plan for the facilities' eventual shutdown, deactivation, decontamination, and disposition.





At PB we develop cost-effective, proven solutions to assess, store, treat, and dispose of your hazardous waste. Our clean-up approach for complex hazardous substances, including plutonium and other radioactive wastes are among the most advanced in the industry today. Through accurate assessments and prompt, economical corrective action, we keep your facility operating in compliance with regulatory standards. Our complete familiarity with existing and proposed regulations means we take a proactive approach—planning rather than reacting, preventing instead of correcting, maintaining in lieu of building.

PB has a track record in expediting the complex RCRA permitting process for our clients. From the first signs of a problem through remediation monitoring, we design and implement the systems that answer your critical questions:

- Is this process efficient and cost-effective?
- Can we economically add process streams?
- How can waste be minimized to reduce disposal costs and liability?
- Can we reuse or market by-products?



Hazardous Waste

***PB Takes
a Proactive
Approach to
Resolving
Your Issues.***



■ ***Orlando, Florida—
Irrigating 8,000
Acres of Citrus With
Reclaimed Water***

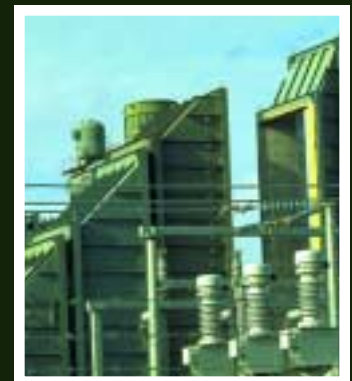
PB's ongoing water engineering services are maximizing the capacity of the largest reclaimed water irrigation and aquifer recharge system in the United States.

■ ***Erie, Pennsylvania—
Designing a Hospital
Waste Incinerator
to Meet Strict State
Regulations***

PB's award-winning design recovers the heat generated by burning hazardous hospital wastes to provide heat and hot water to the medical center.

■ ***Sacramento, California—
Fast-tracking Solutions
for a Cogeneration Plant
Fueled by Almond Shells***

PB's equipment design modifications "shoehorned" an oversized generator into an existing space and increased its power output by 35% and efficiency by 25%; construction was completed in less than three months, getting this plant back on-line in time for its peak capacity season.





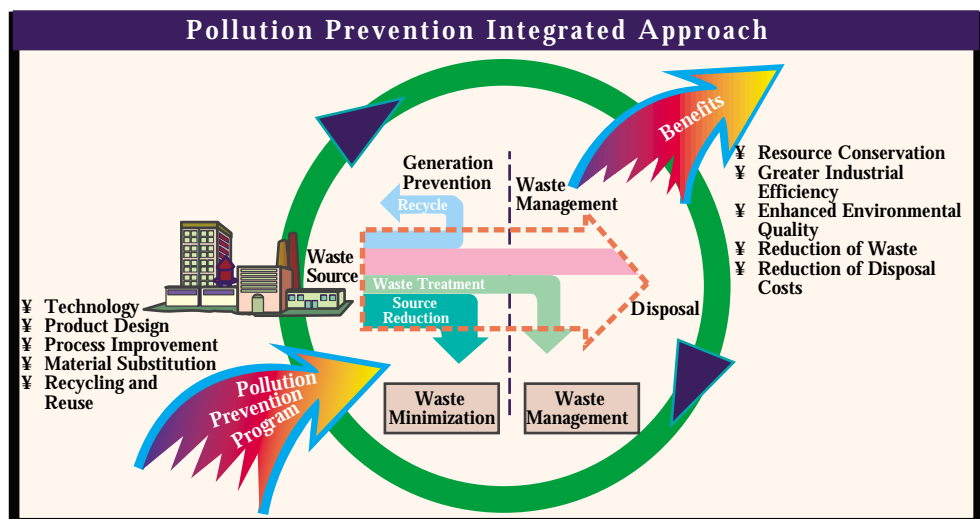
Pollution Prevention/ Waste Minimization

As part of your environmental team, PB finds technically feasible, cost-effective, upstream solutions to pollution and waste minimization issues. Economically minded and focused on innovative strategies to recover and reuse the waste stream, we examine alternative solutions with two questions uppermost in mind: What will it cost? What is the risk exposure? And because we are familiar with the subtleties of the regulatory environment, we can help you proactively plan for emerging regulatory facility compliance legislation.

With a full spectrum of services from engineering design through project management and construction management, PB brings increased reliability and improved energy efficiency to your facilities with minimal operations, maintenance, and equipment retrofit costs.



***PB Improves
Your
Facility's
Reliability
and Energy
Efficiency.***



Parsons Brinckerhoff Environmental Services

Air and Water Quality Services

- Air Quality Compliance Assessments
- Air Quality Permitting
- Air Quality Modeling
- Air Quality Pollution Control Design and Mitigation
- Air Quality Monitoring
- Title V Service
- Water Quality NPDES and Stormwater Permitting
- Water Quality Pretreatment and Treatment
- Water Quality Monitoring
- Water Quality Modeling
- Expert Testimony

Hazardous Waste Services

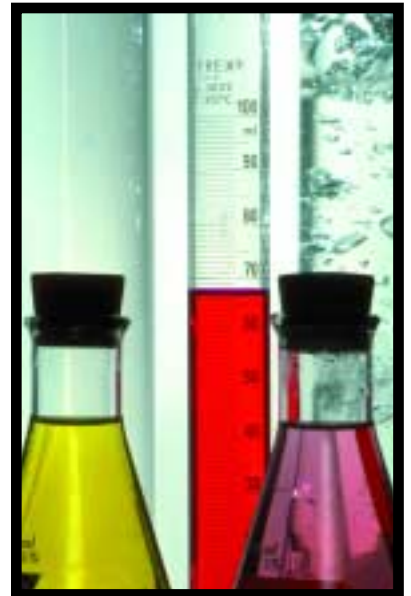
- Facility Compliance Auditing
- Site Assessments
- Site Investigations
 - RCRA (RFI)
 - CERCLA (RI)
- Feasibility Studies
 - RCRA (CMS)
 - CERCLA (FS)
- Remedial Design/Action Plan
- Closure Planning and Certifications
- Risk Assessment
 - Human
 - Ecological
- Fate/Transport Modeling
- Expert Testimony
- Emergency Planning and Reporting

Pollution Prevention/ Waste Minimization Services

- Conventional Design/Design-Build
- Plant Retrofit
- Cost/Benefit Analyses
- Project Management/Construction Management
- Operation and Maintenance Assessments
- Expert Testimony

NEPA Compliance Services

- Environmental Impact Statements
- Environmental Assessments
- NEPA/CERCLA Primacy Issues
- Multimedia Regulatory Compliance Planning



Air. Water. Hazardous waste. Pollution prevention. Waste minimization. PB offers a full range of integrated and proactive facility compliance services.

With a staff of 4,800 worldwide—including 600 environmental scientists and engineers—we work with you to develop straightforward solutions to your environmental issues through permitting, monitoring, and treatment, as well as environmental planning, design, and construction management.

Our clients count on us for our responsiveness... our experience... our innovative thinking and results-oriented approach to solving environmental problems.

Clients count on PB to get the job done.

