



*Inspired people  
improving our  
world*



**ENVIRONMENTAL  
REMEDATION**



**GEOTECHNICAL  
SERVICES**



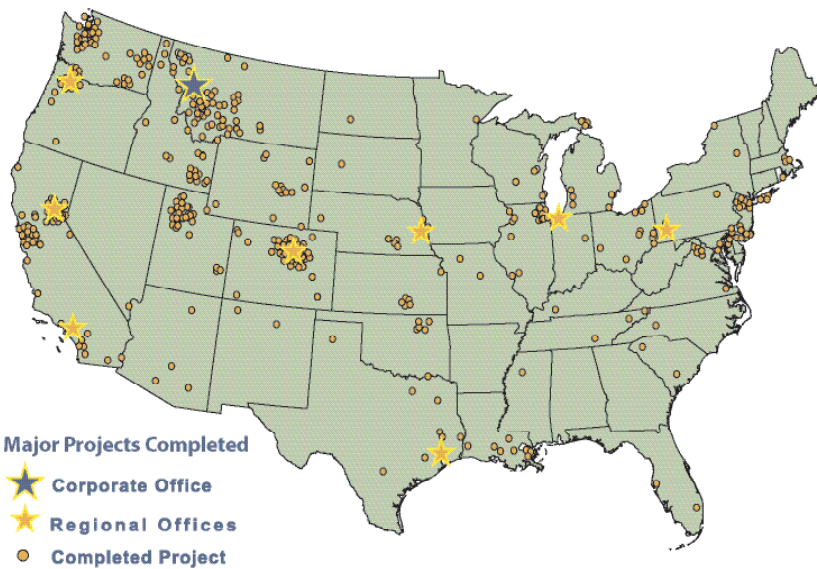
**WATER RELATED  
SERVICES**



**DEMOLITION,  
DECONTAMINATION &  
DECOMMISSIONING**

# safety

Envirocon provides full-service environmental remediation, demolition, geotechnical, and water-related services to public and private sector clients across the United States. We apply multidisciplinary scientific, engineering, and construction expertise to serve the environmental



## Mission

In order to realize our Mission Statement, Envirocon has developed Strategic Objectives with measurable goals that are the focus of the company. We have formed teams made up of a cross-section of employees to participate in the development of performance indicators in order to meet each objective. Envirocon's Strategic Objectives are:

**Financial Perspective** - To generate consistent sustainable growth and provide development opportunities for our employees.

**Customer Value** - To be the Contractor of choice with clients that share our values in order to achieve sustainable and profitable growth.

**Operational Excellence** - To create a functional organization providing value to our key stakeholders.

**Employee Excellence** - To attract, maintain, and develop inspired employees thus sustaining a culture of customer satisfaction, performance excellence, and profitability.

## Key Service Areas:

**Environmental Remediation**

**Water Related Services**

**Geotechnical Construction Services**

**Demolition, Decontamination, and Decommissioning**

needs of our clientele. Our focus is on implementing the highest quality and most cost-effective solution to each environmental challenge faced by our clients.

# value

## Equipment Resources

Envirocon owns a variety of heavy and specialized pieces of equipment needed to complete the wide range of environmental, demolition, and geotechnical projects that we undertake. As a self-perform contractor, we conduct a true "make or buy" analysis during the bid phase of each project. A competitive strength is our ability to determine the most cost-effective approach to meeting our clients' productivity needs.

## Mission Statement:

***"To be the industry leader providing safe, innovative, and cost-effective solutions to complex environmental, geotechnical, and demolition projects for clients that share our values."***

***Jack Gilbraith, President***

# resources

## COMPANY PROFILE

### History

A member of the Washington Companies, Envirocon was founded in 1988 to serve the nation's growing demand for environmental cleanup. With the Washington Companies' historical success and expertise in heavy construction, the development of environmental remediation capabilities through Envirocon followed naturally from the management and construction skills and equipment resources available within the organization.

Envirocon was structured to fulfill a market need for remedial construction services based on scientific and self-performance construction capabilities. Our steady growth derives from consistent, high-quality service and is demonstrated by objective measures including revenue, size and complexity of our projects, and the number and credentials of personnel.

## solutions

Envirocon has completed more than 2,000 projects in its history. Successful projects have been executed for many major Fortune 500 companies as well as the U.S. Army Corps of Engineers, U.S. Forest Service, Bureau of Reclamation, U. S. Air Force, U.S. Army, Department of Defense, and the Department of Energy.

Environmental projects have been Envirocon's focus since inception. They are not a sideline or an offshoot, they are our sole business purpose and are supported by the full resources of the firm.

### Safety

Envirocon's safety philosophy is simply "Incident-Free Performance" on every project. We strive for "Incident-Free Performance" by implementing a proactive behavior-based safety program led by a Certified Industrial Hygienist and implemented by all personnel, including site-specific Health and Safety Officers. We partner with our clients to achieve outstanding safety performance and have been recognized by OSHA for "STAR STATUS."



### Quality

At Envirocon, quality is more than a document review or a field inspection. Quality permeates every aspect of Envirocon's project planning, execution, and closeout. Envirocon employs a formal, written quality management program that incorporates industry standards and authoritative protocols such as those of the International Standards Organization (ISO). Overseen by an independent Director of Quality Management, Envirocon's quality program allows us to routinely meet our clients' quality requirements and applicable regulatory requirements, while ensuring client satisfaction and continual process improvement.

### Office Locations:

**Corporate Headquarters**  
101 International Drive  
Missoula, MT 59808  
(406) 523-1150

**Portland**  
3330 NW Yeon Ave., Ste 240  
Portland, OR 97210  
(503) 285-6164

**Sacramento**  
1687 Eureka Rd., Ste 200  
Roseville, CA 95661  
(916) 787-4044

**Los Angeles**  
850 E. Ocean Blvd., Ste 607  
Long Beach, CA 90802  
(979) 412-2191

**Denver**  
651 Corporate Circle, Ste 114  
Golden, CO 80401  
(303) 215-0187

**Omaha**  
2163 Windridge  
Omaha, NE 68152  
(402) 451-7171

**Houston**  
1307 E. Vistawood  
Houston, TX 77077  
(832) 865-9218

**Valparaiso**  
457 Campbell Street  
Valparaiso, IN 46385  
(219) 548-0042

**Pittsburgh**  
3919 Laurel Oak Circle  
Murrysville, PA 15668  
(724) 325-1629

## innovation

## quality

Since Envirocon's founding in 1988, we have been dedicated to delivering high quality environmental results to the private and public sectors. Our clients are federal agencies and over 100 private companies on the Forbes Fortune 500 list. Serving a diverse clientele has helped us refine a business approach focused on innovation, best practices, and long-term client relationships.

We view each project as an opportunity to develop a long-term relationship while helping our clients meet their toughest environmental challenges. Our focus on providing value and supporting our clients' business goals has resulted in long-standing and preferred provider alliance-type contracts.

### The Right Resources

What makes Envirocon one of the most successful companies in its industry? Our people make the difference.

***"The people at Envirocon are the foundation to our success in the environmental construction industry."***  
***Jack Gilbraith, President***

Envirocon is dedicated to helping individuals build their careers in the environmental construction industry. We take pride in the longevity and loyalty of our employees and their commitment to making us the best. Envirocon's employees are the most valuable resource we have.

Owned equipment and outstanding management systems make a significant positive impact on our ability to perform exceptional

work—which along with our personnel are 100% dedicated to environmental projects. Envirocon isn't just another layer of management and markup—we execute our clients' projects using our own resources. Environmental projects are our primary focus—they are supported by all available resources of the firm.

### A Commitment to Safety and Quality

Our commitment to safety and quality is integral to our culture and to how we do business. We base our performance on well-developed, formal programs that incorporate, and often exceed, best practices and industry standards. Envirocon partners with our clients to ensure that we understand and achieve client-specific requirements for safety and quality. This type of partnership resulted in ISO 14001 registration for Envirocon and our client on a long-term remediation and redevelopment project at a former refinery site. At the Rocky Mountain Arsenal, Envirocon and our client were recognized by OSHA's Voluntary Protection Program with a "Star" Status Rating for projects completed over the past 10 years. Developing innovative construction methods while working closely with our client also lead to the receipt of a Quality Award at a radiological project in the Chicago area.

*"We recognize your strong leadership and direction for achieving remediation of this site and helping us to achieve our environmental goals."*

Charles Epstein  
Remediation Project Manager

## The Right Resources

### A Commitment to Safety and Quality

### Proven Project Experience

### Value-Added Services

### Award Winning Performance

*"...This overall quality of services speaks well of Envirocon's attitude of commitment to EPC as a client, not merely to performance of a specific project."*

Deborah Harris, P.G.  
Environmental Geologist



## WHY ENVIROCON?

### Proven Project Experience

We have a track record of successfully delivering challenging projects and meeting the needs of our diverse clientele with a focus on achieving maximum benefit from clients' capital investments. Envirocon's flexibility and client focus have allowed us to serve federal, municipal, and commercial clients with widely differing requirements and regulatory and stakeholder project drivers. Our staff is justly proud of project outcomes resulting from partnering relationships with our clients, such as:

- ◆ Achieving more than \$10 million in project savings through value engineering efforts such as redesigning a waste containment area to accommodate additional slag materials (35% capacity increase) at a high-profile brownfield redevelopment project.
- ◆ Meeting a myriad of logistical challenges represented by working at remote, high-altitude sites in mountainous areas of Montana with limited weather windows.
- ◆ A record of safe, on-time, within-budget performance at Rocky Mountain Arsenal over the past 10 years.
- ◆ Assisting an industrial client in achieving ISO 14001 certification and OSHA's 18001 (International Occupational Health and Safety Management System) certification.
- ◆ Completing a high-profile dam removal project for a long-standing client at the largest Superfund site in the U.S.

Envirocon's legacy of tackling tough environmental issues in partnership with our clients has resulted in strong, sustained growth in revenues and technical expertise and the recruitment and retention of top-notch personnel.

### Award Winning Performance

Envirocon's commitment to providing the highest quality and best value for our clients is validated by the long history of awards we have received. Our projects have been repeatedly singled out for recognition by prestigious organizations and private companies. Our employees earn these awards on behalf of Envirocon for outstanding achievement in safety, quality, and performance.

#### Recent Company Awards

Company/Entity	Award
Environmental Business Journal	2008 Remediation & Restoration Project Merit Award - Milltown Reservoir Sediments Operable Unit
California Redevelopment Association	2008 Award of Excellence awarded to the Pacific States Steel Site
USACE	2006 South Pacific Division Construction Contractor of the Year Award for Civil Works/Dredging
American Council of Engineering Companies	2005 Grand Award for excellence in Engineering Design on the Project Brownfield Redevelopment of a BP Former Refinery
State of Montana	2005 Governor's Award for Safety and Health for a large private employer
USACE	2005 ASCE Outstanding Engineering Project Award to DD-M Leasing – Prime and Envirocon – Subcontractor



**2008 California Redevelopment Agency Award of Excellence**



**2006 South Pacific Division Construction Contractor of the Year Award for Civil Works/Dredging**

## HEALTH AND SAFETY: INCIDENT-FREE PERFORMANCE

***“SAFETY, QUALITY, and VALUE are central to Envirocon’s operations. These elements are not simply a matter of priorities ... they are integral to how we conduct business.”  
Jack Gilbraith, President***



Envirocon’s safety philosophy is also our goal: “Incident-Free Performance.” Safety is an integral component of our planning and execution of every project and engages our clients, staff, and subcontractors. Creating and maintaining a culture of safety is an ongoing process at Envirocon. Our programs and procedures are designed to support our culture of Incident-Free Performance.

### Safety Program

Envirocon’s safety program is behavior-based adapted to specific client needs such as LPS and LPS/OIMS and is fully compliant with OSHA and state regulations. We recognize that Incident-Free Performance relies on the attitude and knowledge of every project participant. Our senior managers develop goals and continuously evaluate progress toward those goals. Health and safety professionals work with operations personnel throughout all phases of each project to ensure the quality and protectiveness of the project-specific safety program. In the field, every employee is responsible for performing their work safely and participates in daily planning and safety meetings. A “time-out for safety” authority is documented in each project safety plan in acknowledgement of this responsibility. Recognition of safety milestones and meritorious safety performance is formalized in the Envirocon Health and Safety Program Manual and fully supported at the corporate level. Envirocon’s health and safety program includes a Radiation Protection Implementation Procedure (RPIP) in support of our RAD license for remediation of radiological waste materials.

### Health & Safety Statistics

EMR	0.65
OSHA IR	0.78
2008 Manhours	1,310,175

### Safety Performance

The success of Envirocon’s safety program is evidenced by our Experience Modification Rate or EMR, which compares our performance to that of similar firms in the industry. Our OSHA Recordable Incident Rate (RIR) is 80 percent lower than the industry average and those of our competitors. In addition to excellent overall safety statistics, Envirocon has never had a serious injury or fatality. Envirocon’s manhours have increased approximately ten-fold since 1998, while our OSHA total recordable incident rate has decreased. This reflects our emphasis on continuous safety improvement.

In 2008, Envirocon is taking a proactive step to broaden our safety culture and improve overall safety performance through a focused Health and Safety Action Plan. The goal of the plan is to maximize overall safety awareness throughout our company culture thereby improving our safety performance.



## HEALTH AND SAFETY: INCIDENT-FREE PERFORMANCE

### Best-in-Class Safety Programs

Envirocon has successfully participated in our clients' best-in-class programs meeting rigorous safety performance criteria nationwide. As part of these teams, Envirocon stood with our clients through rigorous program and site inspection processes that resulted in: VPP Star status awards, OSHA's 18001 certification, and ISO 14001 certification. These sites included several major remediation projects at petrochemical and industrial sites including 10 years of VPP Star at the Rocky Mountain Arsenal in Commerce City, Colorado. Formal safety recognition has also come from our private clients in the mining, refining, and chemical industries.

### Training

Training is a critical component of developing and maintaining Envirocon's safety culture. We have a fully developed, written health and safety training program that provides for initial and ongoing training of all field employees. Envirocon field personnel receive a 40-hour training course compliant with the Federal Hazardous Waste Operations and Emergency Response Standard (HAZWOPER). Advanced 8-hour manager's safety and health training is provided for all personnel whose duties involve supervision of work-site activities. Additional training for new personnel includes CPR and first aid. Specialized training in hazards unique to various jobs, such as working with radioactive materials, is provided to employees exposed to those hazards. Annual refresher training is required of each employee. Envirocon practices behavior-based safety adapted to specific client needs such as LPS and has an number of LPS-trained employees.

### Safety Professionals

While Envirocon's project managers are responsible for the health and safety performance of their project teams, they are fully supported by a professionally staffed Health and Safety Department. Our career safety professionals have academic and technical training in occupational health, industrial hygiene, and health physics. Their backgrounds include a wide range of experience under OSHA, MSHA, DOT, DOE, NRC, NORM, and related health and safety regulations and consensus standards. Our safety staff have technical training and specialization in areas including remediation, mass excavation, demolition, geotechnical, high toxicity and Level A cleanups, DOE/NRC/NORM wastes, hazard assessment, PPE, confined space entry, air monitoring techniques, and construction safety.

### Safety Compliance Programs

Envirocon currently has prequalified status with a number of clients using compliance assurance consultants and services such as: ISNetwork, PICS, Browz, Los Angeles Clean Card (LACC), OSCA, and ASAP among others.

### Drug- and Alcohol-Free Workplace

Envirocon has a comprehensive drug and alcohol screening program to reduce the resulting safety risks associated with illegal drug use and alcohol abuse. In addition to pre-employment screening, Envirocon conducts random drug and alcohol screening.



*"Congratulations team! .... we passed the two-year milestone for working injury-free and having no OSHA recordable incidents... This milestone represents approximately 1,175,000 hours worked. This could not have been achieved without your dedication, commitment, and perseverance."*

Joe E. Naccache  
Manager - Refining

***Envirocon's quality program allows us to routinely meet our clients' quality requirements and applicable regulatory requirements, while ensuring client satisfaction and continual improvement of our performance.***



*"This was without a doubt the best QAP I have ever reviewed!...This plan was complete, thorough and well written. Sure wish all the plans that I review could be like that."*

Terri Kneitel, PE  
EM Waste Management  
Program Manager

At Envirocon, we plan for quality at project inception and throughout the life of each project. Quality is more than a document review or a field inspection—quality permeates every aspect of our project planning, execution, and closeout. Envirocon's formal quality program is led by an independent Corporate Director of Quality Management who reports directly to the President and is vested with the authority to ensure that our stringent quality procedures are invoked on each project. Our proactive approach to quality at all project phases has resulted in awards and recognition from government and commercial clients.

### **Envirocon's Quality Program**

Our formal quality program is embodied in Envirocon's Corporate Quality Assurance Manual (QAM), which was prepared in accordance with recognized Quality Assurance, Quality Control (QA/QC) industry standards and protocols. Authoritative standards include ISO 9000, 10 CFR 830.120, NQA-1, and DOE Order 414.1. Envirocon's QAM is organized according to the elements of ISO 9000-94.

Implementation of our quality program is shown through tailored, project-specific QA/QC plans that are designed to meet client-specific and internal requirements. We employ a "graded approach" and ensure that the QA/QC plan for each project is detailed and relevant to the client's needs.

A key feature of our program is establishing and implementing the "Three-Phase Inspection System" for each definable feature of work. Prior to beginning any task, it must be planned in advance in accordance with QAM and Standard Operating Procedure (SOP) requirements. These requirements include Preparatory

Inspection, Initial Inspection, and Follow-up Inspection for each definable feature of work. All "open" items are tracked through to final inspection and acceptance.

### **Standard Operating Procedures**

Envirocon's written protocols and operational SOPs guide project execution and ensure that work is performed according to established technical standards. Our SOPs are integrated with and support our quality procedures. The dovetailing of operating and quality procedures strengthens performance across projects and provides for internal checks and balances throughout each project. Detailed pre-planning processes are employed by our project managers, illustrated in the figure on the following page, and are part of rigorous weekly and monthly project reviews.

Our corporate QAM presents the overall QA/QC protocols that are followed company-wide while our operational SOPs explain how project staff are to go about meeting the standards upheld in the QAM. The relationship between Envirocon's QAM and the SOPs is observed in our strict requirements for preparatory meetings and inspections. These procedures allow us to define tasks, review the process, and verify that all project prerequisites are met prior to the beginning any definable feature of work. Detailed checklists and documentation requirements are provided that ensure, for example, review of specifications and submittal requirements; verification of all required personnel training, activity hazard analyses, safety inspections, personal protective equipment availability; field control testing; and confirmation of field dimensions.

## ENVIROCON: COMMITTED TO QUALITY

### Personnel Training

Once the project-specific QA/QC plan and any additional required plans have been completed, Envirocon's project personnel are trained to the applicable requirements. To ensure adherence to quality and operational plans, we verify that our employees are qualified to perform their assigned duties. We employ experienced and qualified personnel and provide specialty training to ensure that established plans and specifications are met.

### Quality Improvement

Client interviews and surveys are also conducted independently by the Director of Quality Management for active projects. Based on project audit results and client feedback, the Director of Quality Management provides a quarterly report to senior management. All areas perceived as needing improvement are immediately addressed by senior management. This process facilitates continuing quality improvement within and across projects.

### Quality Audits

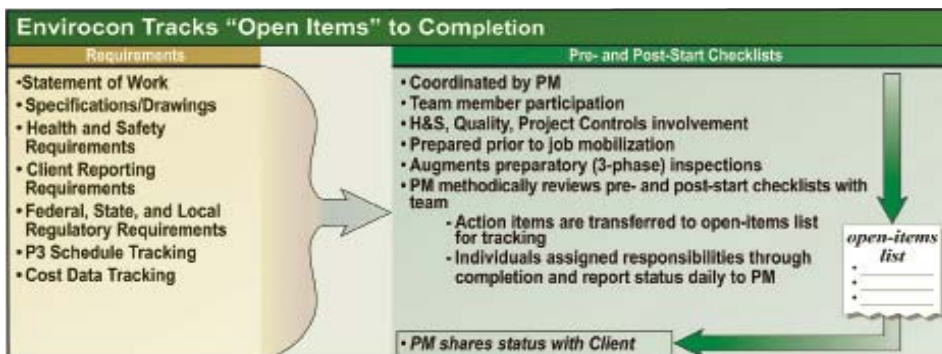
Independent quality audits of field operations are an essential component of the Quality Program. Envirocon's Operational SOP 1401.014 "Operations Audits" defines our audit protocols. Audits are conducted by Envirocon's Corporate Director of Quality Management and site surveillances are performed by QA specialists with training and expertise relevant to the project. Audits serve to provide independent verification of compliance with the project-specific QA/QC plan and documentation that supports quality execution. Audits are planned to support project-specific requirements and critical quality phases.

Audit results are reported to senior management, including the President and the Chief Operations Officer. All corrective actions are tracked by the Director of Quality Management until completed and accepted.



*"The HWL Team [Envirocon Project Staff] went to extraordinary effort to reopen the landfill... They ensured that the programmatic elements were addressed to satisfy internal requirements. Their efforts were appreciated and went a long way in satisfying the client's stated needs."*

Excerpt from Quality Recognition Award, Rocky Mountain Arsenal



Pre-planning incorporates operational and quality requirements that are a key element of Envirocon's Quality Program.

## FINANCIAL STABILITY: A FOUNDATION FOR SUCCESS



Envirocon offers the financial resources, strength, and stability required to execute a number of large and complex projects simultaneously. Our rock-solid financial position has been built on consistent, high-quality performance for repeat clients, in-depth knowledge of the costs and risks of executing environmental projects, and a prudent approach to our business during a time of industry change.

Strong, steady year-over-year growth in operating revenues, profits, and retained earnings has characterized our history and solidified our industry reputation. In addition to strong revenue growth, the value of our corporate assets, including equipment, continues to grow steadily. Envirocon's financial stability ensures our clients that we will complete their current projects and remain in business to address their needs on future projects.

### Growth

Envirocon's continued growth is evidenced by objective measures including revenue; size, numbers, and complexity of our projects; and number and credentials of personnel. In 2008 Envirocon achieved over \$140 million in total revenue and is listed as #56 on the Engineering News Record's (ENR) Top 200 Environmental Firms and #15 on the list of all environmental firms.

In addition to robust financial growth, Envirocon has grown steadily by other measures—from our total number of employees and office locations to the quantity and magnitude of our projects. Financial indices and benchmarks including working capital, days of cash, debt-to-equity ratio, and borrowing capacity are all a testament to Envirocon's financial strength and stability. Our financial strength and a prudent approach to project execution have afforded us the opportunity to serve an ever-growing roster of clients.

### Corporate Resources

As a member of the Washington Companies, Envirocon was founded in 1988 to serve the nation's growing demand for environmental cleanup. The Washington Companies are a vibrant group of individual and independently operated companies with a unique entrepreneurial spirit. All of the companies are privately held and are guided by separate Board of Directors. The Companies collectively generate over \$2 billion in annual revenue.

With the Washington Companies' historical success and expertise in heavy construction, the development of environmental remediation capabilities through Envirocon followed naturally from the management and construction skills and equipment resources available within the organization.

A full spectrum of corporate resources are available to Envirocon through its association with the other Washington Companies—including heavy equipment sales, and rail and marine transportation.



### The Washington Companies

- ◆ Envirocon, Inc.
- ◆ Modern Machinery, Inc.
- ◆ Montana Rail Link, Inc.
- ◆ Southern Railway of B.C. Ltd
- ◆ Seaspan International Ltd.
- ◆ Montana Resources, Inc.
- ◆ Aviation Partners, Inc.
- ◆ Washington Development Co.
- ◆ Coast Engine & Equipment Co.

## FINANCIAL STABILITY: A FOUNDATION FOR SUCCESS

### Capital Equipment Asset Strength

In addition to operating capital exceeding industry benchmarks, Envirocon maintains an expanding capital asset base in its equipment fleet. Our equipment not only provides the resources to control and execute projects, but also augments our financial asset base. Our capital assets ensure the financial strength and resource collateral required by the financial community, and augments our strong balance sheet. The internal equipment maintenance program ensures the equipment is consistently monitored and serviced and in top operating order and available for maximum utilization. Envirocon's fleet numbers 500 pieces of major earth moving, demolition, and specialty application equipment. The current equipment market value is in excess of \$20 million.

An abbreviated list of Envirocon's owned equipment includes:

- ◆ Excavators
- ◆ Demolition Attachments:
  - Concrete pulverizers
  - Hydraulic hammers
  - Universal Processors
  - Hydraulic shears
  - Severe duty grapples
- ◆ Wheel loaders
- ◆ Bulldozers
- ◆ Motor graders
- ◆ Rubber-tired backhoes
- ◆ Heavy haul trucks:
  - Roll-off trucks
  - Articulated end dumps
  - Tractor/trailer end and side dumps
  - 10-Wheel end-dump trucks
  - Water trucks
- ◆ Compaction equipment
- ◆ Soil stabilizers/Road reclaimers
- ◆ Reagent spreading units
- ◆ Pugmills

### Bonding

Envirocon has established a \$75 million dollar Bonding Program with AIG capable of supporting our Business Operations Plan. AIG, an industry leading surety, is rated A+XV by A.M. Best Key Rating Guide.

### Insurance Programs

Envirocon's in-place broad-based insurance coverage serves to protect our clients and employees in the event of a catastrophic loss. We contract with firms with "Best's Guide Ratings" of A+ or more, signifying a track record of meeting business obligations by the carriers. Existing policy limits meet or exceed all statutory and client requirements in the areas of:

- ◆ Worker's Compensation
- ◆ Commercial General Liability
- ◆ Automobile Liability
- ◆ Professional Liability
- ◆ Contractor's Pollution Liability
- ◆ Errors and Omissions

### Banking Relationships

Envirocon enjoys long-standing banking relationships with highly regarded, established financial institutions. Through these institutional relationships, we have available to us favorable lines of credit and the borrowing capacity to support our business operations. Our current line of credit, secured by accounts receivable only, has been steadily increased commensurate with our growth. Excellent cash flow generated by operations and prudent financial practices have required infrequent utilization of our borrowing capacity.

ENVIRONMENTAL BUSINESS JOURNAL

#### 2007 EBJ Business Achievement Project Merit: Remediation & Restoration

*"Envirocon, for implementing a major, \$100-million design-construct project that includes all management, design, and construction of the remedial solution at the Milltown Reservoir Sediments Operable Unit near Missoula, Montana."*

#### 2003 EBJ Business Achievement Silver Medal

*"[Envirocon] merits recognition for performance in what many of our executives continue to characterize as challenging times for the environmental industry."*



The following represent a summary of Envirocon projects. Additional descriptions from our over 2,000 completed projects are also available.

### Environmental Remediation

#### Former Steel Mill Site Remediation Union City, California



Envirocon completed the Brownfield reclamation of the Pacific States Steel Corporation (PSSC) site for a commercial/residential redevelopment. Insufficient funds for remediation required dividing the property into three parcels, completing the remediation of one parcel, and selling it to a developer to fund the remediation of subsequent parcels. The scope of work included excavation of 405,000 cubic yards of slag and metal-impacted soils over 62 acres. Envirocon constructed an above-ground 15.9-acre waste containment area for permanent storage of on-site waste. We also excavated and biologically treated 105,000 cubic yards of petroleum hydrocarbon soils (TPH). Over 5,000,000 gallons of impacted surface water and groundwater were collected, treated, and discharged. Envirocon removed and demolished 50,000 cubic yards of subsurface concrete building foundations, footers, stack and furnace foundations, and sumps. More than \$10 million in savings were achieved through our value engineering efforts.

[www.envirocon.com](http://www.envirocon.com)

#### Remediation of the Former Okmulgee Refinery Okmulgee, Oklahoma



Envirocon was awarded a contract to stabilize two types of sludge found at the former Okmulgee Refinery. Additional work included constructing a 21-acre repository, placing the stabilized sludge in the repository, and capping the repository. Ultimately, Envirocon stabilized 325,000 cubic yards of refinery sludges. Pre-construction bench scale studies were utilized to develop an approach for stabilizing the sludges that minimized reagent addition. By pre-mixing acidic sludges with sludges that were near neutral pH it raised the overall pH of the pre-treated material. The neutral pH sludges acted as a buffer when mixed with the acid refinery sludges. The total cost and volume of admix reagents was thereby reduced while still meeting the treatment goals. Also, because of the intensity of the benzene and SO<sub>2</sub> emissions much of the work was conducted in Level B personal protective equipment. Sediment requiring stabilization was also removed from 1.2 miles of Okmulgee Creek. Stabilization of acid refinery sludges was conducted in-situ within the waste pits. First, the acid sludges were partially neutralized with hydrated lime, then mixed with neutral pH hydrocarbon sludges, and lastly stabilized with CKD, followed by placement in the constructed repository. Final cover construction for the repository included installing a multi-layer capping system over the 21-acre area and revegetation.

#### White King & Lucky Lass Mine Reclamation Lakeview, Oregon



Envirocon completed a two-season mine reclamation project at the White King/Lucky Lass Mine Superfund site. The project involved the consolidation and capping of waste uranium ore. The waste was staged in piles and excavated from a number of locations at two former uranium mines in a remote mountainous part of southeastern Oregon. The primary ore piles were in and adjacent to two small streams and marshlands in a mountain meadow. The White King Mine scope of work was to consolidate uranium tailings and cap them with an engineered cover constructed from on-site borrow soils. Also included in the scope was excavation and placement of a primary haul road; realignment of Augur Creek; construction of wetlands areas; regrading of meadow areas, haul road, and off-pile areas; installation of stormwater and erosion controls; and revegetation of 98 acres of disturbed areas. The Lucky Lass Mine site required regrading and capping of a mine waste stockpile one mile away from the White King area. As with the White King area, this area was capped using soils from on-site borrow sources in a manner similar to that of the White King site. In total more than 718,000 cubic yards of tailings and other waste was excavated, consolidated, and capped over two seasons.

## REPRESENTATIVE PROJECTS

### Remediation of Radiological Process Residuals Hicksville, New York



Envirocon provided excavation, radiological monitoring, health and safety support, and coordination of a project team for remediation and restoration of the former Sylvania Electric Products, Inc. facility contaminated with chemical, metal, and radiological process residuals. Envirocon executed surgical excavation within two temporary structures and we also packaged the radioactive soil for off-site disposal. Project sequencing was a challenge due to multiple contractors on site performing a variety of tasks including engineering, transportation, and disposal. Envirocon excavated and removed 64,000 cubic yards of soil under an air-controlled structure in Level B personal protective equipment. The depth of the excavation reached a maximum of 50 feet. Once field measures confirmed cleanup levels had been reached, samples were collected and tested for laboratory verification and loaded for shipment to a permitted waste disposal facility. Envirocon also provided backfill and site restoration, including repaving. In addition to our remediation role, Envirocon represented our client's interests in managing the contractors on site providing services for the project. Envirocon developed a site-specific Radiation Safety Program which included personnel dose monitoring and reporting.

### City of Rialto, Landfill Development Rialto, California



The Rialto landfill operated in the 1960s and 1970s and accepted yard waste and street cleaning material from local communities. In addition to this waste, bio-solids from a waste water treatment plant were also deposited in the landfill. Envirocon's scope of work included the excavation and sorting of 160,000 cubic yards of material. Approximately 70% of the material was excavated and re-used on site. An additional 30,000 cubic yards of clean soil was imported, blended, and compacted to meet the finished grade requirements. Excavation occurred within the limits of the landfill area and to a depth of 53 feet. Larger debris was segregated and stockpiled for later disposal off site. Envirocon sorted debris and trash and obtained clean material for backfill. Backfill was compacted to 95% density in 8-inch lifts and 30,000 cubic yards of material was imported to bring the site to final grade for future construction. Debris was sorted for recycling into stockpiles for various waste streams which included concrete, metals, and wood. Bio-solids and municipal wastes were sent to Class I and III landfills. The intent of the project was to obtain clean closure of the site in order for a developer to construct a bio-solids treatment plant on the former landfill area.

### Refinery Site Wide Remediation Casper, Wyoming



Envirocon completed numerous phases of projects at a former refinery in Wyoming. The initial phase required construction of a 13-acre lined CAMU cell to hold 500,000 cubic yards of waste and a second CAMU cell with a design capacity of 320,000 cubic yards. Pipe removal and demolition activities included removal of more than 1,000,000 linear feet of underground process pipe and 350,000 tons of highly reinforced concrete. We also removed pipe and concrete debris from a 1.5-mile stretch of the North Platte River. Acid clay filtration sludges (500,000 cubic yards) were stabilized using pozzolanic reagents. Envirocon proposed a methodology for the remediation of a large Inlet Basin which contained an estimated 350,000 cubic yards of refinery sludges and impacted sediments. Our proposal for the next phase of work included using passive dewatering and drying for the Inlet Basin followed by excavation and placement of impacted sediments at a total estimated cost that was less than half of the other previously designed option. Envirocon also conducted a number of site redevelopment projects including rough grading an 18-hole Robert Trent Jones Championship golf course and construction of a recreation kayak course in the North Platte River. The total value of cost savings recognized on all of these projects exceeded \$17 million.

**Water Related Services****Milltown Dam Removal  
Milltown, Montana**

Envirocon is implementing a design-construct project at the Milltown Reservoir Sediments Operable Unit Superfund site. Envirocon's scope includes: the lead for regulatory negotiations; technical and legal support on Consent Decree negotiations; field investigations and data collection; remedial design; work plan generation; and construction; and monitoring. The first phase of construction was to lower the reservoir level 10 feet. In order to prevent scour of impacted sediments from the river channel, a bypass channel was constructed. Once the bypass channel was completed, a diversion structure was built across the Clark Fork River forcing its flow into the bypass channel. The second stage included removing the dam's powerhouse and abutment. A cofferdam was constructed to allow the powerhouse to be removed in dry conditions. Over a 2-year period, the sediments will be excavated, loaded onto rail cars, and transported 100 miles upstream where the sediments will be spread as capping material on an existing tailings facility. After removal of the sediments and dam, a new river channel and floodplain will be constructed. Once vegetation is established, the river diversion will be removed and the river placed into a new channel.

**Hylebos Waterway Dredging  
Tacoma, Washington**

The Hylebos Waterway is part of the Commencement Bay Nearshore, Tideflats Superfund site. This project involved the removal of over 450,000 cubic yards of sediment impacted with PCBs, PAHs, and arsenic, and required the treatment of 18,400,000 gallons of sediment-laden water. Envirocon was contracted to construct and operate a sediment trans-load and water management facility. Sediment was removed from the barges using a long reach excavator (equipped with a re-handling clamshell bucket). Envirocon also constructed and operated a dewatering system that removed and treated excess water. In the second construction season, Envirocon's workscope was increased to include the remaining dredging of approximately 65,000 cubic yards of contaminated sediments using an excavator that was modified with the installation of a rotating clam shell bucket and an RTK-GPS positioning system that controlled excavation depth. At the conclusion of the project, over 450,000 cubic yards of contaminated sediments had been removed from the Hylebos Waterway and over 15,000 rail containers had been loaded and disposed off site. Envirocon built a special dredge that allowed digging to the required depths while maximizing the coverage area in the dredge pattern. This, on average, allowed an area of 100 sf to be dredged before having to reposition the dredge.

**Chattanooga Creek Remediation  
Chattanooga, Tennessee**

Envirocon successfully performed the remediation of 1.9 miles of Chattanooga Creek which contained coal tar. Envirocon and Barge Waggoner Sumner Cannon (BWSC) formed a team to provide design and remedial action services for removal of impacted sediments from the creek. BWSC, with assistance from Envirocon, performed the remedial design. Envirocon's approach for creek diversion (70-foot wide) included a series of pumps and piping systems to divert the main channel flow. The creek was dammed in reaches using earthen dams. Approximately 108,000 tons of coal tar sediments were excavated from the creek. Following excavation, the sediments were transported to a drying bed. The coal tar was treated in the drying bed by mixing the material with 10% lime kiln dust using an SS250 Soil Stabilizer. The stabilized coal tar material was transported to a Subtitle D landfill. A non-aqueous phase liquid (NAPL) was discovered penetrating the bottom of the creek bed. Fractured limestone beneath the creek bed made it impractical to capture the NAPL. AquaBlok®, a bentonite clay surrounding a core of pea gravel, was used to seal 5,750 linear feet of the 10,000 linear foot creek bottom. Restoration of creek banks was performed along with placement of rip rap on the banks of the creek.

## REPRESENTATIVE PROJECTS

### Avila Beach Remediation Project Avila Beach, California



Envirocon provided remediation services at a beach front location below a former petroleum storage facility. Work was conducted within sheet-piled excavation cells to eliminate the spread of contamination and protect the work from seawater intrusion. Six distinct cells were constructed along the 1,400 lineal feet of beach front to accommodate excavation. The bulk of the Avila Beach community and storefront properties were demolished to accommodate our excavation work. Remediation activities included removal and stockpiling of overburden and affected soils; excavation and staging of TPH-contaminated soils and beach sands for off-site disposal; and import and placement of suitable backfill, beach sand, and native vegetative media. Envirocon completed much of the excavation below the groundwater table using long-reach and specialty excavators. Over 150,000 cubic yards of TPH-contaminated media was removed from the beach and upland areas. Envirocon backfilled and regraded the site with 200,000 cubic yards of imported native materials. Envirocon met the environmental and public relations challenges of working in a sensitive ecosystem adjacent to inhabited residences with no safety, public relations, or environmental incidents. We completed the project over \$1.5 million under budget.

### Construction of a Subaqueous Cap and Closure of Mocks Pond Muncie, Indiana



Envirocon executed a multi-faceted environmental project under Indiana's Voluntary Remediation Program. In addition to closure of a landfill, Envirocon created a viable pond from a former limestone quarry contaminated with heavy metals. Over the years, sediments containing various heavy metals (including lead and zinc) accumulated in the bottom of the pond. The task presented to Envirocon was to create a healthy, viable pond consistent with the overall plans for environmental conservation and protection. A hydraulic dredge was used to remove contaminated sediments from the 2½ acre quarry to a minimum depth of 10 feet. We dewatered the sediments using a belt filter press and shipped them off site for disposal. The result was 1,085 dry tons of sediment were removed from the pond. Return water was treated to a total suspended solids count of less than 5 milligrams per liter. For the final step, we placed a stabilization fabric over the remaining sediments and covered it with 2 feet of sand using a spreader barge, creating the subaqueous cap. To provide accurate sand placement and thickness, the spreader barge was equipped with a GPS unit. Envirocon assisted our client in achieving its environmental conservation and protection goals by creating a healthy, viable pond from a former quarry.

### Remediation and Closure of Solid Waste Management Units 5 / 43 Deepwater, New Jersey



Envirocon remediated and closed two sites, SWMU 5 and 43, adjacent to the Delaware River. SWMU 5 was located near the river and extended 160 feet into the river. Working in this area required the installation of 985 feet of temporary sheetpiling and construction of a cofferdam prior to excavation and dredging operations. Envirocon excavated, dredged, and loaded contaminated material for transport and placement in a permitted basin. As needed, dredge materials were stockpiled for gravity drainage prior to load out and transportation. Following remediation, the site was restored to original grade. SWMU 43 was a vault containing 1.4 million gallons of water. Envirocon dewatered the vault, pumped the water to an on-site treatment facility, stabilized the vault sediments, and filled the void with 2,100 cubic yards of borrow material. As part of the restoration, Envirocon constructed a 1,400 foot permanent bulkhead along the river. Envirocon successfully minimized the impacts of construction-related sediment and turbidity on the surrounding river ecosystem through use of watertight steel sheeting, which also minimized required pumping and provided a stable, safe working platform.

**Geotechnical Construction Services****Soil-Mixed Seepage Barrier  
Sacramento, California**

As part of the U.S. Army Corps of Engineers Levee Strengthening Program, Envirocon constructed two reaches of cutoff walls along the Sacramento River in Sacramento County, California. The first reach, Reach 9, consisted of a cutoff wall that is approximately 1,480-feet long and 40-feet deep, and was installed using slurry trenching techniques. Reach 2 consisted of a cutoff wall that is approximately 1,750-feet long and 110-feet deep. Due to the required depth, the wall was installed using deep soil mixing techniques. To meet the rigid schedule requirements of completing the work before the heavy rainy season when levee stability is critical, all project submittals, including mix design, were completed within 30 days after notice to proceed. All field work was completed over a 2-1/2 month schedule. Work was completed within the time requirements with over 16,000 manhours, no lost time accidents, minimal disruptions to the local residents and businesses, and working through several design changes. Envirocon developed value engineering construction methods for saving the Corps of Engineers over \$500,000 in additional costs.

**Natomas Cross Canal South Levee  
Phase 1 Improvement Project  
Sacramento, California**

This levee improvement project included installation of a soil-cement-bentonite cutoff wall along the Natomas Cross Canal south levee which was 6,000 feet in length located in the Natomas Basin. The wall included 500 feet of the Sacramento River east levee that bordered a highway. This project was performed under the direction of the Sacramento Area Flood Control Agency (SAFCA). Approximately 370,000 square feet of the cutoff wall was installed up to 85-feet below the levee crown using the deep soil mixing technique. In addition, approximately 45,000 square feet of the cutoff wall was installed up to 70-feet below the levee crown using the conventional soil-cement-bentonite slurry trench technique. Cutoff wall requirements included a maximum hydraulic conductivity of  $5 \times 10^{-7}$  cm/sec and 40 to 300 psi unconfined compressive strength in 28 days. Envirocon met the demands of a very short construction period of early August 2007 to late September 2007 by operating 7-days per week, 24-hour shifts. During the levee degrade and restoration portions of the project, as many as 300 loads of soil were hauled in and out of the project each day with limited site access. This was the largest project that Envirocon has ever completed in such a short time frame.

**Sheetpile Containment Wall and  
Subaqueous Cap  
Duluth, Minnesota**

As part of an innovative subaqueous sand cap project performed within a bay of Lake Superior that contained coal tar impacted sediments, Envirocon placed a sheetpile containment wall enclosing the 11-acre area being capped. This work consisted of the installation of approximately 2,200 lineal feet of 30-foot long SZ12 sheets embedded 19-feet into the bay bottom. To resist lateral loads imposed by the subaqueous and surcharge sand caps, SZ12 sheetpile deadmen on 10-foot centers were installed 25-feet behind the containment wall. A double C12x25 waler was utilized to transmit the lateral loads from the containment wall to the deadmen. The containment wall incorporated a series of overflow weirs on 100-foot centers for water control. All sheetpile installation work was completed over the water (via barges), and shoreline tie-in was completed by constructing Dolomite rock end-dikes. Once subaqueous capping operations were complete, Envirocon began surcharge placement (above the water line) utilizing conventional capping methodologies. Envirocon structured the schedule such that a number of work activities were performed simultaneously. Consolidating the schedule provided savings in management and overhead costs.

## REPRESENTATIVE PROJECTS

### Permeable Reactive Barrier Wall Kelly Air Force Base, Texas



Envirocon constructed a permeable reactive barrier (PRB) wall using zero valent iron (ZVI) to treat volatile and semi-volatile organic compounds present in groundwater at a former Air Force base. The 685-foot long, 10-foot wide, 27-foot deep PRB was keyed into underlying clay to intercept and treat contaminated groundwater. The PRB was constructed in two parts using the bio-polymer slurry trench method to control trench width, eliminate shoring and dewatering, and speed production. Wall A and Wall B were backfilled with different percentages of granular iron and sand. The trench was constructed using three major operations, executed simultaneously, which included slurry mixing, trench excavation, and backfill mixing and placing. When unidentified utilities were encountered, Envirocon coordinated with the Air Force and local water, sewer, electric, and communications utilities to complete the project without interruption in utility service. When unforeseen events threatened timely completion, Envirocon revisited the schedule and added additional work shifts to increase production rates, ensuring the client's aggressive construction schedule was met. Envirocon's Prime Contractor was awarded a "Blue" rating by the USAF for its excellent performance.

### Slurry Wall at Miller Reservoir Denver, Colorado



Envirocon constructed the foundation for an earthen dam and soil-bentonite cutoff wall for the Denver Water Board. The cutoff wall isolated the 550-acre water pit from groundwater encroachment for a future surface water storage impoundment. As part of the first phase of converting a former gravel pit into the water storage reservoir, Envirocon installed an 8,050-foot long soil-bentonite slurry wall to a maximum depth of 40 feet. Envirocon mobilized an owned Komatsu PC750 hydraulic excavator with an extended boom/stick configuration. The excavator bucket was equipped with specialized rock ripper teeth to facilitate excavation of a minimum 3-foot key of hard bedrock. The project also included over 75,000 cubic yards of earthwork to prepare the slurry wall platform, and to act as the base for a future construction of the earthen dam. Select fill consisted of a clay material with low permeability. The dam was constructed on top of the slurry wall to further increase the water storage capacity of the proposed reservoir. Envirocon was also tasked with installation of 3,000 feet of 12-inch drainline to intercept groundwater infiltration from an adjacent canal located at an elevation above the slurry wall platform, and draining the reservoir of over 200 million gallons of water following installation of the slurry wall.

### Soil Mixing of ZVI, Clay, and Biostimulants Warrentown, Virginia



Using soil mixing technology, Envirocon performed in-situ source treatment of an area up to 18-feet deep at the former Vint Hill Farms Station Army Intelligence Base. Treatment was accomplished using the innovative use of innovative ZVI-Clay technology, an in-situ source remediation technology that involves admixing reactive media (zero valent iron), stabilizing agents (clay), and soil containing chlorinated compounds. Through this process, chlorinated compounds react with ZVI and are depleted and the hydraulic conductivity of the targeted zone is reduced, resulting in a reduction in future releases of contaminants from the source area. To supplement the AVI-Clay process, it was also determined that biostimulation, a treatment technology that enhances the natural biodegradation of contaminants by the addition of emulsified vegetable oil, would further optimize treatment performance. Soil mixing was accomplished using a large rotary drill rig and a 8-1/2 foot diameter mixing auger. Initial drilling and mixing was accomplished using a bentonite clay slurry as a drill fluid and mixing media. Following initial drilling, a minus 50 mesh ZVI Cast Iron aggregate and emulsified vegetable oil was blended into the soil. Envirocon worked with the prime contractor to develop the work plans and a proper delivery system. Work was completed on time and within budget.

**Demolition, Decontamination,  
and Decommissioning****Demolition of Structures  
Rocky Mountain Arsenal, Colorado**

Envirocon provided demolition, sizing, transportation, and disposal of 54 structures and other facilities contaminated with chemical warfare agents within the North Plants area at RMA. Buildings demolished included large, multi-story heavily reinforced concrete structures, concrete block structures, and steel framed, transite-sided structures. We also demolished extensive areas of reinforced concrete pads, sumps, vaults, and chemical sewers. Twenty-eight of the structures had been declared under the Chemical Warfare Convention, and required "hold point" considerations and documentation. Envirocon sized, hauled, and disposed of waste materials in the on-site landfill. We processed recyclable materials and shipped them to an off-site recycle facility. To demolish nerve gas manufacturing components that had not been decontaminated, Envirocon developed and implemented an innovative caustic neutralization process that was safely deployed using Level A personal protective equipment. We also safely decontaminated and dismantled Sarin gas manufacturing equipment. Envirocon received a letter of commendation from US Senator Wayne Allard for our role in the project.

**Smelter Demolition & Recyclable  
Asset Recovery  
Vancouver, Washington**

Envirocon completed an entire facility demolition and asset recovery at an aluminum smelter. The scope of the project included demolition of 650 aluminum reduction cells, 70 structures, and removal/processing of 150,000 tons of concrete, 20,000 tons of steel, and 1,600,000 pounds of aluminum. The first phase included the dismantling of 650 aluminum reduction cells. Each reduction cell or "pot" contained as much as 20 tons of recoverable ferrous and non-ferrous metals along with 15 tons of spent potliner, a RCRA waste with high concentrations of cyanide. Each reduction cell was dismantled separating salvageable assets from waste materials. Some components of the reduction cell still required treatment for cyanide signature prior to being shipped off site. Envirocon handled 9,600 tons of spent potliner and 3,300 tons of dust and debris. The first phase was successfully completed approximately 20% ahead of schedule. The second phase included the demolition of all structures (more than one million square feet under roof) and the removal of foundation and footings to a depth of 4-feet below ground surface. The aggressive schedule for demolition was driven by an impending property sale. The project was completed utilizing a number of controlled drops, crane picks, and one explosive demolition event.

**Cement Facility Demolition  
Holly Hill, South Carolina**

Envirocon executed complete and selective demolition and dismantlement services at a cement plant. Certain portions of the plant required complete structure removal, which was accomplished by conventional means such as excavator mounted sheers, processors, and hoe rams. Demolition of two very tall concrete stacks utilized explosive demolition techniques. Numerous tanks, vessels, and equipment ranging from single story to 12-story steel and concrete structures were demolished and removed from the site. Areas requiring selective demolition used heavy rigging, engineering, and innovative processes developed and implemented by Envirocon's experienced staff. Select building structures and associated utilities were to remain intact, including plant process slurry lines and two 4160 KVA shielded electrical cables. These lines ran directly beneath some of the 10-story structures to be removed. Envirocon was able to sell equipment such as tanks, silos, conveyors, and mills for re-use. Experience in the scrap metals market also allowed Envirocon to recover, prepare, and sell more than 12,000 tons of ferrous and non-ferrous metals directly to recycling consumers. Total asset sales generated just under \$2 million and fully offset the cost of the demolition.

## REPRESENTATIVE PROJECTS

### Refinery Pipe, Foundation Demolition Carson, California



The overall scope of work at this active refinery in Carson, California included demolition and removal of concrete foundations, piping, and miscellaneous structures located within the process area of the Carson Terminal. Envirocon was required to use extensive dust and odor control measures due to the project's close proximity to a major urban area. The underground pipe demolition and removal work consisted of first locating and pre-excavating pipe corridors and utility alignments where removal was to occur, then tapping pipes and removing residual free product. Envirocon removed and sized 167,555 feet of 2- to 36-inch underground piping, groundwater monitoring piping, and injection well piping. The crew then drained and removed all above-ground piping. Concrete slabs, foundations, boxes, and trenches required further size reduction. Envirocon stockpiled and crushed 56,286 tons of demolished concrete which was used as common fill on site. We also removed and sized 5,190 tons of roadway and parking lot asphalt and demolished two metal-clad buildings. The project was completed on schedule despite a three-fold growth quantities. Envirocon was proactive by increasing the crew size in anticipation of the increased quantities and was able to maintain consistent production.

### Smelter Demolition & Recyclable Asset Brokering Longview, Washington



Envirocon was contracted to provide selective dismantlement and investment recovery services at an aluminum smelter. Envirocon was responsible for dismantling 876 reduction cells that made up the potlines. Each reduction cell or "pot" weighed 60 to 80 tons and contained as much as 35 tons of recoverable ferrous and non-ferrous metals. More than 27,000 total tons of various metals were recovered. Envirocon developed a comprehensive work plan that maximized the use of existing facilities and minimized travel distances between the required process areas to increase safety and efficiency while reducing environmental liability. Envirocon focused efforts on waste segregation and minimization, seeking to manage all generated materials as potential assets. Envirocon aggressively characterized and segregated 35,000 tons of spent potliner (K088) wastes resulting in a cost savings of over \$2 million. Upon removal, each reduction cell was dismantled separating aluminum, copper, and steel components. In total, over 25,000 tons of ferrous steel, 20,000,000 pounds of aluminum, and 7,000,000 pounds of copper were removed. Ferrous and non-ferrous materials were processed, prepared, and packaged on site, then sold directly to a recycling consumer at an estimated value of \$27,875,000.

### Radiological Remediation at RFETS Golden, Colorado



Envirocon provided radiological remediation services under a multi-year contract at Rocky Flats Environmental Technology Site (RFETS), a former nuclear weapons plant. Remediation activities involved foundations, utilities, sludges, and soils with contaminants including isotopes of plutonium, americium, uranium, depleted uranium, cesium, solvents, manufacturing chemicals, beryllium, and asbestos. We demolished floor slabs and foundations; removed process waste lines, sumps, tanks, electrical lines, sewers, and other utilities. Envirocon handled demolished concrete according to contamination levels; it was sized for disposal as low-level waste or transported to an on-site concrete stockpile earmarked for size reduction and for use as backfill. Twelve miles of contaminated and potentially contaminated piping and utilities were remediated, much of it encased in asbestos. We implemented aggressive procedures, such as filling piping with structural foam or epoxy, to prevent the spread of contamination. Envirocon developed guidelines to handle "typical surprises" such as unidentified liquids in piping, unexpected ACM, and inaccurate as-built drawings safely, quickly, and efficiently.



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