

i nnovative C onstruction S olutions

LIC# 764815
A-HAZ-C21

**We Go Above & Beyond
Before We Ever Go Below**



STATEMENT OF QUALIFICATIONS

We Go Above & Beyond
Before We Ever Go Below

Since the firm's inception in 1999, partners Hiram Emadi, P.E., President and John R. White, Vice President believed they could create a different kind of company, one based on **stringent internal standards, highest quality service**, and ability to deliver **value-added solutions**. These core principles comprise the foundation of our company's culture. As professionals coming from areas of environmental engineering and remedial/general construction, our founders brought both a technical and practical background to the business that has served as a model for the development of our organization.

Today, Innovative Construction Solutions (ICS) is an environmental, geotechnical and specialty civil engineering contractors with Hazardous Waste and Demolition Endorsements, Licensed in the State of California (License No. 764815 A-HAZ-C21). We service the entire state of California out of three offices: Santa Ana, Oakland and San Diego. ICS is a certified Small Business Enterprise (SBE) with annual revenue of \$30+ million, 70+ employees and a \$40-million bonding capacity.

ICS provides soil and groundwater remediation, geotechnical and specialty civil construction, and demolition services for projects. Innovative Construction Solutions was established to specifically provide the types of construction services that would help private and public industry clients such as environmental engineering and consulting firms, defense and aerospace, federal governments, school districts, municipalities, public works, utilities, chemical, energy, power, petrochemical, developers and manufacturing.

ICS' foundation is comprised of former engineers and environmental scientists working hand-in-hand with superintendents, heavy equipment operators, plumbers and skilled technicians; all having over 20 years of experience. All have demonstrated a consistent ability to form alliances with other local, specialized firms, and maintaining excellent relationships with former colleagues, peers, and managers. This allows ICS to assemble project teams on a per-project basis, supplementing its own staff with additional expertise that is determined to be necessary to best serve the client's interest. This approach allows us to create efficient and responsive teams that promise the specific expertise needed while avoiding the costly overhead typically associated with larger firms. This marriage of technical and practical experience is truly unique to an environmental construction company and enables us to deliver the highest quality service in the industry and add value to projects from pre-planning to field excavation stages.





Certified Small Business Enterprise (SBE)

8/19/2011

Account #: 14865
Ms. Lane
Innovative Construction Solutions, Inc.
4011 West Chandler Avenue
Santa Ana, CA 92704

Dear Ms. Lane:

Thank you for submitting your Vendor Application seeking Small Business Enterprise (SBE) recognition with *The Network*. Per our evaluation of the information you provided in your application and the North American Industry Classification System (NAICS) codes you identified, your status as a Small Business Enterprise (SBE) has been approved. This certification is recognized by the following agencies:

*The Port of Long Beach**

*San Diego County Water Authority**

** There are currently six agencies participating in The Network; however, at the present time, only the Port of Long Beach and San Diego County Water Authority are administering a Small Business Enterprise (SBE) Program.*

The Port of Long Beach is pleased to issue this SBE Certificate subject to the terms and conditions identified below:

NAICS code(s) for which SBE status is recognized: 237990

SBE Certificate Effective Date: 8/11/2011

SBE Certificate Expiration Date: 8/11/2014

Work performed by your firm that falls within the above-mentioned NAICS code(s) will be counted as SBE participation for work performed on contracts procured by the above agencies.

The agencies reserve the right to withdraw this certification if at any time it is determined that certification was knowingly obtained by false, misleading, or incorrect information. The agencies reserve the right to audit all statements. If any firm attempts to falsify or misrepresent information to obtain certification, the firm may be disqualified from participating in any contracts for a period of up to five years.

SBE Certification is valid for a period of three (3) years. To maintain SBE status, firms must update their existing SBE Vendor Application on or before the expiration date mentioned above. All information is subject to verification.

If there are any changes in your status that may impact your certification, you are required to update your account information online. You may view your SBE qualifying information at any time, by logging into your main menu and selecting the "Small Business Certification Form" link.

Sincerely,

Sashi Muralidharan
SBE Administrator, Port of Long Beach

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Remediation of Contaminated Soil by Dig & Haul:

- Excavation, stockpiling, loading
- Large-diameter auger soil removal
- Removal of UXO- and NORM-impacted soil
- Soil segregation and handling
- Dust and odor suppression
- Waste classification (determination)
- Transportation and disposal of waste

Onsite Remediation of Contaminated Soil:

- Onsite thermal treatment
- Onsite fixation/stabilization
- Ex-situ vapor extraction

Underground Storage Vessel Removal:

- Underground storage tank removal
- Clarifier/Sump removal
- Hoist removal

Demolition/Removal:

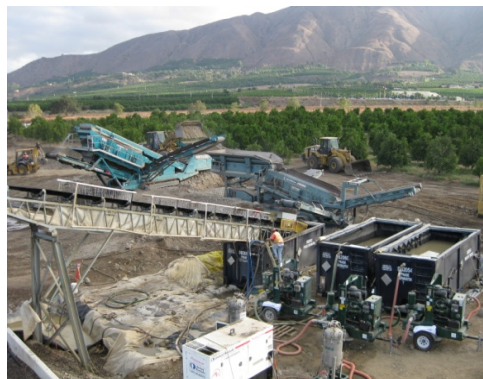
- Demolition of structures
- Above ground tank demolition
- Flatwork demolition
- Pipeline removal

Facility Decommissioning:

- Decontamination
- Chemical lab packing

Ancillary Services:

- Shoring
- Screening/Crushing
- Dewatering



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Construction of Various Groundwater Extraction Systems:

- Groundwater pump & treat systems
- Dual-phase extraction systems
- Air-Sparge/VES systems
- Bio- and chemical-injection systems
- Free-product recovery systems
- Vacuum-enhanced free-product recovery systems

Construction of Various Soil Gas Extraction Systems:

- Soil vapor extraction system
- Dual-phase extraction systems

Landfill Gas and Methane Mitigation:

- Active landfill gas extraction and treatment systems
- Passive landfill gas extraction
- Installation of gas barriers systems

Sub-slab Ventilation and Depressurization:

- Active depressurization
- Passive ventilation



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Soils management services include a variety of excavation, separation, processing, and handling activities that can be implemented on a turnkey basis (or “package” deal) or service-specific basis. Depending upon the nature of the project (i.e., demolition and redevelopment, remediation, property abandonment, etc.), ICS can help determine the activities necessary to meet the goals of the project. Our experience as consultants and contractors is particularly significant here, since we have been on both sides of the fence when dealing with soil excavation and management. Consequently, we pay careful attention to every detail that could potentially impact the cost, completion date, or safety of a project. Excavation is performed in strictest compliance with all state and federal health and safety, construction, and environmental regulations, and is managed by site superintendents with over 20 years of construction experience. State-of-the art equipment developed by the mining industry is often used to increase field production and keep a project on its critical path, while every effort is made to look for volume reduction and cost saving opportunities for the client.

Soils excavation and management services include:

- Excavation plan preparation
- Shoring design and installation
- Soil excavation, loading and transportation
- Soil stockpile management
- Dust/Vapor suppression
- Size segregation
- Screening operations
- Large Diameter Auger Excavation

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Fuel systems management services involve removal, installation and/or modification of underground and aboveground fueling systems. Removal activities may involve demolition of surface covers (concrete, asphalt, etc.), excavation and separation of clean and impacted soil, removal of underground storage tanks (UST's) and associated piping, removal of ancillary equipment, and backfill/compaction of the affected areas. Installation activities may involve soil excavation, installation of UST's and aboveground storage tanks (AST's), installation of concrete slabs and/or bermed structures, and installation of single wall or dual containment piping, electrical, floor sensors, and monitoring equipment. These activities can be implemented on a turnkey basis (or "package" deal) or service-specific basis. Depending upon the nature of the project, ICS can help determine the activities necessary to meet your end goals. Our experience as former consultants coupled with our construction capabilities provides significant added-value, since we have a good understanding of the design behind fueling systems and have worked with various CUPA's (Certified Unified Program Agencies) {E.G. City, County, and Fire Departments} that would bring valued experience to any project.

Fuel systems management services include:

- **Certified ICC** (International Code Council) personnel for AST and UST work
- Removal of UST's
- Installation of UST fueling systems
- Installation of AST fueling systems
- Upgrading UST and/or AST fueling systems
- Construction and maintenance of secondary containment structures
- Submittal packages

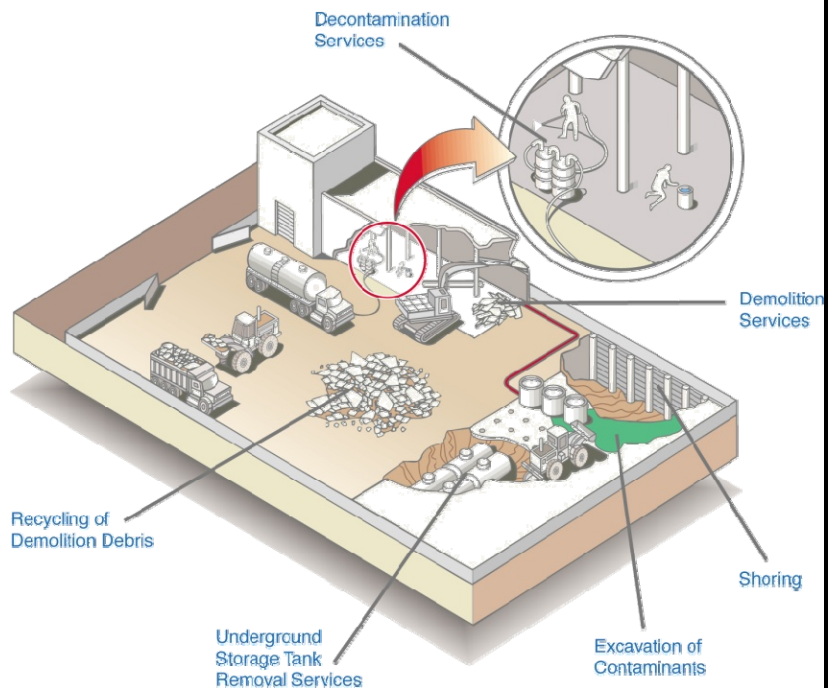


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ICS specializes in providing demolition and decontamination services for existing, abandoned, or inactive facilities and structures. Typically, facilities used for manufacturing or related industrial use, testing, waste management and waste treatment require decontamination before structural removal can begin. Remediation of impacted soil as a result of chemical leaks, faulty or non-compliant storage tanks, or process-related issues is also often necessary to prepare a site for “clean closure” in order to facilitate a problem-free transfer of ownership or change in property use.

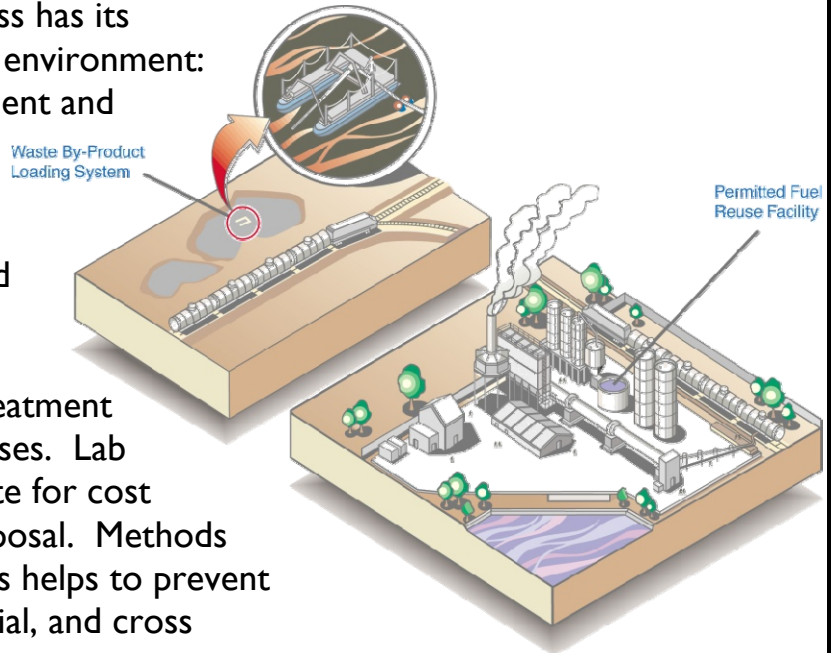
Structural/facility decontamination and demolition services include:

- Structural tear down
- Building material Segregation
- Debris removal and recycling
- Pressure washing
- Surface wipe-down
- Lead paint/asbestos abatement
- Storage tank removal
- Clarifier/sump removals
- Waste consolidation and disposal



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One of the most important services ICS can provide is the demonstrated ability to minimize the volume of industrial waste. This process has its clear advantages to both the client and the environment: less waste means reduced liability to the client and less impact to the environment by creating less volume for treatment. ICS begins the process by consolidating similar waste streams, reducing quantities classified as hazardous, and preventing cross contamination. Volume reduction is often accomplished in custom-designed waste treatment systems using chemical and physical processes. Lab packing of waste streams consolidates waste for cost effective treatment, transportation and disposal. Methods such as recapping of older, corroded drums helps to prevent spills, the migration of contaminated material, and cross contamination among media.

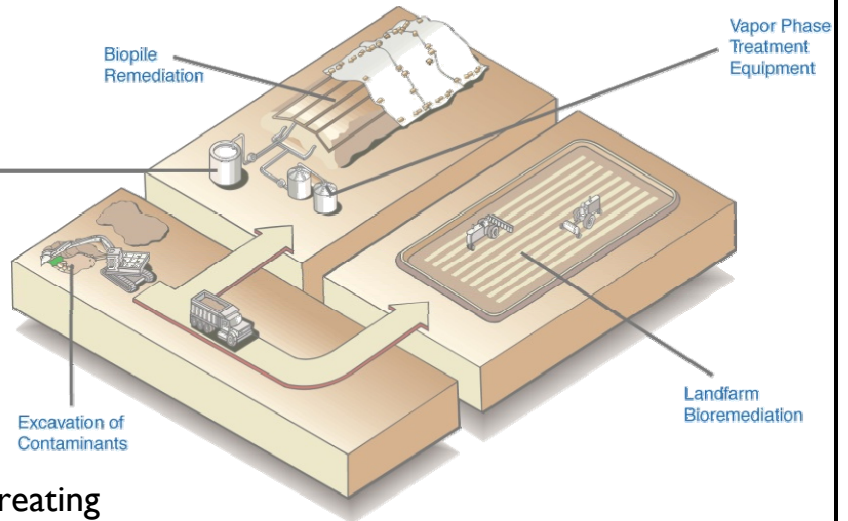


	Crude Oil	Fuel Hydrocarbon (i.e. Gasoline, Diesel, Jet Fuel)	Heavy Fuel Hydrocarbons (i.e. Hydraulic Oil, Waste Oil, Heavy Fuel Oils)	Volatile Organic Compounds (i.e. Benzene, Xylene, Acetone, Methyl Ethyl Ketone)	Chlorinated Hydrocarbons (i.e. Trichloroethane, Perchloroethylene)	Polynuclear Aromatic Hydrocarbons (i.e. Benzo(a) Pyrene, Chrysene)	Heavy Metal (i.e. Lead, Copper, Chromium)	Non-Hazardous Industrial Products	Pesticides (i.e. DDT, Organochlorines)	Acid and Bases
Time Constraints	●	●	●	○	■	■	●	●	■	●
Cost	●	●	●	○	○	■	●	●	●	●
Space	○	○	○	○	○	○	○	○	○	○
Regulatory Acceptance	●	●	●	○	■	○	●	●	○	●
Future Site Use Compability	●	●	●	○	■	■	●	●	●	●
Technical Feasibility	●	○	●	■	■	■	●	●	■	●
Liability	●	●	●	○	■	■	○	●	■	●

- Best Technology
- Highly Effective
- Effective
- Limited Effectiveness
- ∩ Not Effective
- Not Applicable

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Bioremediation is a treatment process that uses the metabolic activity of microorganisms (bacteria and fungi) to naturally degrade organic contaminants in the soil. The process can be conducted in the ground at the site of contamination (in-situ) or at landfarms, biopiles or bioreactors specially set up to receive and treat the soil (ex situ) either on or off-site. Treatment can be enhanced and its efficiency accelerated by the addition of nutrients, oxygen and water to the soil, by manipulating the temperature and pH of the soil, or by combining the process with a soil vapor extraction system.



Bioremediation is particularly effective in treating petroleum hydrocarbons, volatile organic compounds, and in some cases, even chlorinated solvents.

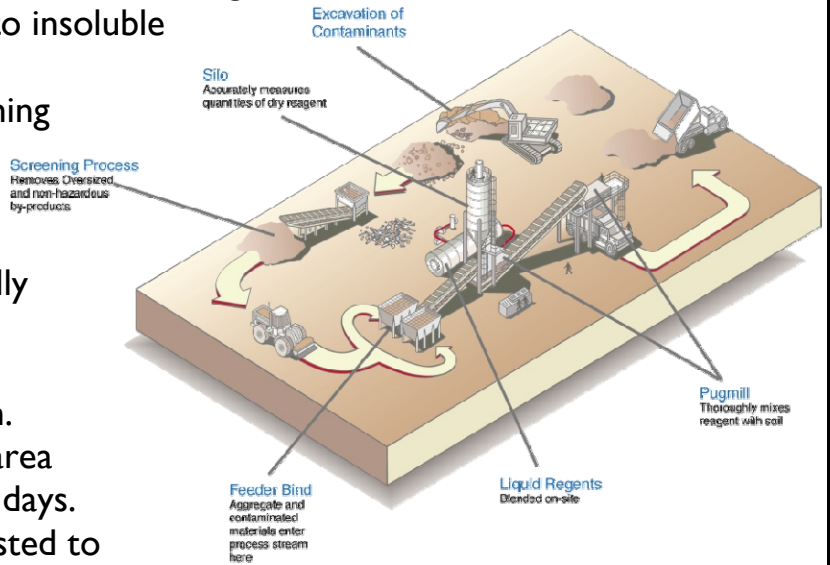
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Time Constraints	■	⊙	■	●	■	○	-	○	■	-
Cost	●	●	●	●	■	●	-	○	●	-
Space	■	■	■	■	■	■	-	○	■	-
Regulatory Acceptance	●	⊙	⊙	○	■	⊙	↑	○	■	-
Future Site Use Compatibility	○	●	●	●	■	●	-	○	○	-
Technical Feasibility	○	⊙	○	⊙	■	■	-	○	■	-
Liability	●	⊙	●	●	■	⊙	-	○	○	-

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Fixation/stabilization is a chemical process that uses a re-agent to transform soil contaminated with soluble heavy metals into insoluble non-hazardous material. The reduction in solubility minimizes the migration and leaching of contaminants from the soil. Fixation is also effective in the solidification of heavy hydrocarbons, PCBs, tars, and sludge materials. The process is traditionally completed in a pug mill, where precise quantities of soil and reagents are mixed with water to initiate the chemical reaction. The material is then stockpiled in a curing area where the reaction continues over several days.

Once curing is complete, the material is tested to confirm the treatment's effectiveness. Under the right conditions, chemical fixation can be a cost effective treatment method that often provides the following advantages: high throughput, short processing periods, regulatory acceptance (variable by state), reduction in volume of end-product, and reduced long-term liability.

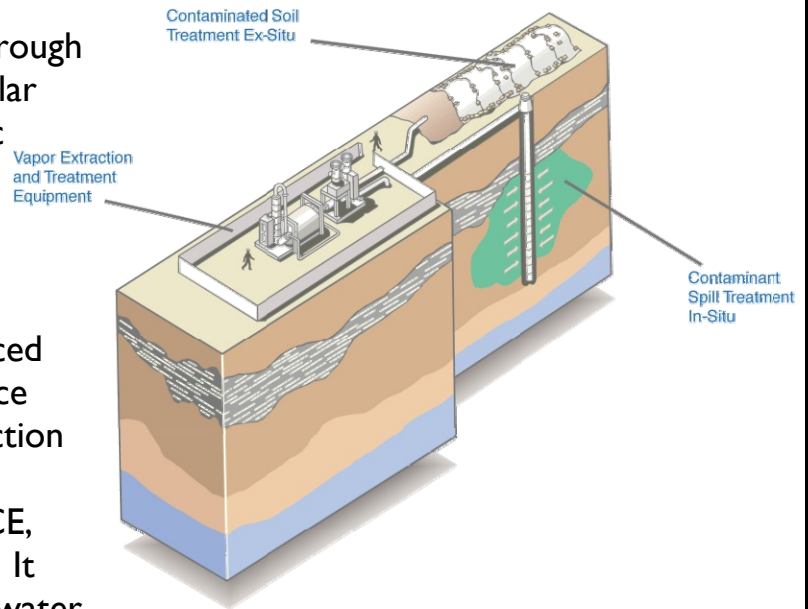


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Time Constraints	●	●	●	○	○	○	●	○	□	●
Cost	●	●	●	○	○	○	●	○	□	●
Space	●	○	○	○	○	○	●	○	□	●
Regulatory Acceptance	○	■	○	□	□	○	●	○	□	●
*Future Site Use Compatibility	○	■	○	□	□	○	●	○	□	●
Technical Feasibility	○	○	○	□	□	■	●	○	□	●
Liability	○	○	○	□	□	○	●	○	□	●

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Vapor extraction involves the physical stripping of volatile contaminants from the soil using negative (vacuum) pressure. The resulting contaminated vapor stream is manifolded through treatment systems, which may include granular activated carbon (GAC), thermal or catalytic oxidizers, wet and dry scrubbers, and internal combustion engines. Vapor extraction can be performed in situ using extraction wells, or ex situ through vented stockpiles. The process can often be enhanced by injecting heated air into the soil to enhance volatilization of hydrocarbons. Vapor extraction has the greatest impact on volatile high-end hydrocarbons such as gasoline, as well as TCE, PCE and various other chlorinated solvents. It can also be used in conjunction with groundwater pump and treat systems to enhance the rate of groundwater extraction and volatilization of chemicals from the vadose and saturated zones.



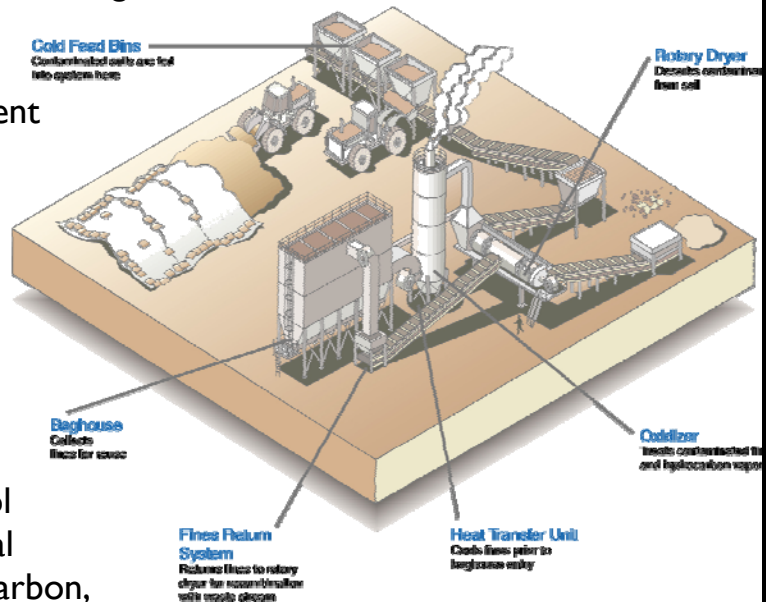
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Time Constraints	☐	○	☐	○	○	○	-	-	☐	-
Cost	☐	●	☐	●	●	●	-	-	☐	-
Space	☐	●	☐	●	●	●	-	-	☐	-
Regulatory Acceptance	☐	●	☐	●	●	○	-	-	☐	-
Future Site Use Compatibility	☐	●	☐	●	●	●	-	-	☐	-
Technical Feasibility	☐	●	☐	●	●	○	-	-	☐	-
Liability	☐	●	☐	●	●	●	-	-	☐	-

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Treatment Technology Low Temperature Thermal Treatment

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Thermal treatment technology is highly effective in the remediation of petroleum hydrocarbons, gasoline, diesel, bunker fuels, volatile organic compounds, BTEX, chlorinated hydrocarbons, and polyaromatic hydrocarbons. The process, which can be performed offsite at fixed treatment facilities or onsite using portable high-throughput mobile units, involves heating contaminated soil in an enclosed chamber of temperatures ranging from 300° to 900° Fahrenheit (F). Negative (vacuum) pressure is applied to the enclosed chamber, extracting the volatilized contaminants. The contaminated vapor stream is filtered and treated using a combination of pollution control equipment, including baghouse, cyclone, thermal oxidizer, catalytic oxidizer, granular activated carbon, heat exchange cooler, and wet or dry scrubber. The treated soil is then re-used onsite for construction fill or landscape needs.



	Crude Oil	Fuel Hydrocarbon (i.e. Gasoline, Diesel, Jet Fuel)	Heavy Fuel Hydrocarbons (i.e. Hydraulic Oil, Waste Oil, Heavy Fuel Oils)	Volatile Organic Compounds (i.e. Benzene, Xylene, Acetone, Methyl Ethyl Ketone)	Chlorinated Hydrocarbons (i.e. Trichloroethane, Perchloroethylene)	Polynuclear Aromatic Hydrocarbons (i.e. Benzo(a) Pyrene, Chrysene)	Heavy Metal (i.e. Lead, Copper, Chromium)	Non-Hazardous Industrial Products	Pesticides (i.e. DDT, Organochlorines)	Acid and Bases
Time Constraints	●	●	●	●	●	●	□	○	●	□
Cost	●	●	●	○	●	○	□	○	■	□
Space	●	●	●	●	○	●	□	○	●	□
Regulatory Acceptance	●	●	●	○	■	○	□	○	■	□
Future Site Use Compatibility	●	●	●	●	○	●	□	○	●	□
Technical Feasibility	●	●	●	●	●	●	□	○	■	□
Liability	●	●	●	●	●	●	□	○	■	□

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Understanding the desired end-use of a project site is the first and perhaps most important step in developing a successful remedial design. Whether the goal is facility closure or expansion, property disposition, redevelopment, or regulatory compliance, ICS works closely with owners to develop a strategy that is practical, feasible, cost-effective, and agency friendly. With two decades of experience as consultants and contractors under our belts, we know what works, what doesn't, what the risks are, and what long term benefits a client can expect with a given remedial strategy.

Our project experience includes developing remedial strategies for a wide range of industrial and commercial sites. Our team of engineers and construction professionals work together to identify and evaluate remedial technologies based on appropriate screening criteria such as effectiveness, implement ability and cost. Treatability studies and/or pilot-scale testing are often performed to obtain "actual" field data and further verify the appropriateness of the selected technology.

Soils excavation and management services include:

- Permitting
- Identification and evaluation of treatment technologies
- Work plan preparation
- Pilot-scale testing
- Treatability studies
- Health and safety plans



List of Clients (Partial)

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- Accord Engineering, Inc.
- AECOM
- AMEC
- Arcadis
- Balfour Better Infrastructure, Inc.
- Boeing Company
- Bomel Construction
- Brown & Caldwell
- C.W. Driver
- CH2M Hill Constructors, Inc.
- Conoco Phillips
- Converse Consultants
- Environ
- Frenkel & Co.
- FTR International, Inc.
- Gannett Fleming
- Geosyntec Consultants
- Griffith Company
- Haley & Aldrich
- Hargis & Associates, Inc.
- Helsel Phelps Construction Co.
- Honeywell International, Inc.
- Jacob & Hefner Associates
- Kennedy Jenks Consultants
- Kleinfelder
- Leighton Consulting, Inc.
- Ninyo & Moore
- Pacific Edge Engineering
- Peterson-Chase General Engineering Construction
- R.D. Olson Development
- RMA Construction
- San Bernardino City Unified School District
- SCS Engineers
- SEMA Construction
- Shaw Environmental & Infrastructure
- Skanska
- Suffolk Construction
- Sukut Construction
- Sullivan International Group
- Sully-Miller Contracting Co.
- Tetra Tech
- TRC Solutions
- Turner Construction
- URS Corporation
- Waterstone Environmental, Inc.
- Weston Solutions, Inc.
- Winzler & Kelley



References

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Innovative Construction Solutions (ICS) is proud of our earned reputation as an efficient, safe and economical, environmental, geotechnical and specialty civil engineering contractor. We invite you to contact any of the individuals listed below to inquire about our past project performance.

Mr. Don Koch, CPA, REA, CHMM
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(562) 406-7090

Mr. Ed Speake
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(323) 775-6155

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HOAG Hospital
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