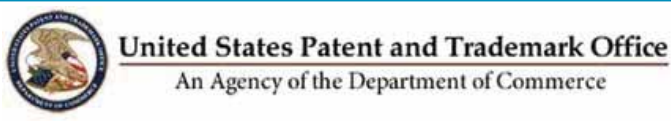


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IWS Awarded Patent

On July 6, 2010 IWS was awarded US Patent 7749384 by the United States Patent and Trademark Office for the IWS Denitrification Upflow Filter. The patent protects IWS intellectual property and processes related to the denitrification of wastewater effluent.



Dave Patton (CEO) says " We are pleased that we have received our US patent, which reflects our research and development efforts over the past four years. Our patent coverage is broad and covers the use of a variety of media to denitrify wastewater effluent. The IWS Denitrification Upflow Filter provides a cost effective, low maintenance, and sustainable solution to the issues facing onsite treatment system owners that need to meet low Total Nitrogen limits. These low nitrogen requirements are being adopted nationwide and we are at the forefront of that trend."

The response to the IWS technology from the marketplace has been very positive with interest and projects from coast to coast. Peter Balas (CCO) reflects on the interest from clients, " We have been overwhelmed by the response to our Denitrification Upflow Filter.

Our solution is very simple and requires virtually no O&M, which makes our 20 year life cycle cost tough to beat. We don't need chemicals or injectors, have no moving parts, can reach very low Total Nitrogen limits, and performance is very stable over a wide range of hydraulic and biological loading. We work closely with the Owner's project engineer and are a real resource for the technical team."

Please let us know if you have a project that requires meeting low Total Nitrogen limits or may be a consideration in the future. •

IWS Denitrification Upflow Filter Performance Data

Average Influent:

| | |
|-----------|-----|
| BOD | 595 |
| TSS..... | 952 |
| TN..... | 47 |

Average Effluent:

| | |
|----------|-----|
| BOD..... | 10 |
| TSS..... | 3 |
| TN..... | 2.7 |

IWS Sets New Design-Build Record in WA (Contract to Start-up in 90 Days)

Located on San Juan Island in Washington State (10 miles from Victoria Island in Canada), The Oaks Manufactured Housing Community wanted IWS to upgrade its existing wastewater system to be better stewards of the environment and avoid future service disruptions to its community. The 80 unit housing development was constructed in 1985 and utilized a recirculating sand filter for treatment with dispersal to pressure dosed leachfields. The recirculating sand filter needed replacement and the client evaluated a number of options, which included an SBR and a Textile Filter treatment system.

Continued on page 2



Left to right: Mike Erickson (Owner); Eric Jangard (Owner); Jamie Miller (IWS); and Jeanne Andreasson (WDOH)



Advantex pods installed on top of existing sand filter



Project involved work in close proximity to homes

IWS executed a Design-Build contract with the Owner in mid-June and was able to design, permit, construct, and start-up the treatment system by mid-September, which was a record for IWS. Dave Patton (CEO) commented, “We did our homework on the project and knew what we needed to get done. We worked as a team with all the stakeholders to make things happen: our Engineer (Jamie Miller), our Construction Manager (Dale Hemstad), State of Washington DOH (Jeanne Andreasson), our equipment suppliers (Rick Petro of Orcas Sewage Design and Bob Nation of Fextex Systems, Inc.), and the Owners (Mike Erickson and Eric Jangard).”

For having gone as smoothly as it did, the project had a number of complexities that needed to be addressed: a) construct the new system and tie into the existing system without any service interruptions; b) adhere to all county set-back requirements; c) adhere to State set-back requirements for the domestic water well; d) segregate flows from the existing collection system to balance the primary tank configurations; e) construct before the rainy season; f) value engineer to meet the clients budget; g) design the system to accommodate future changes in discharge requirements; h) avoid areas of shallow bedrock; i) dewatering during exca-

vation for the tanks; and j) work in the back yards of some homeowners properties.

The Owner was able to reuse their existing collection system and dispersal area so that the focus of the upgrade was the treatment system. Treatment options were evaluated for a number of variables which included: 20 year life cycle costs; ease of maintenance, operator requirements, discharge requirements, and several other factors. The system was sized for 12,000 gpd average daily flow with peak flow of 28,800 gpd. The treatment system included: a) a new 20,000 gal Septic Tank; b) utilize the existing 20,000 gal Septic Tank; 5, AX-100 Advantex Pods; a 15,000 gal Recirculation Tank; a 6,000 gal Dosing Tank; 2 UV Disinfection Units; and a control building.

Eric Jangard of Erickson Investments summed up the IWS project involvement, “IWS was very responsive during the entire project, from the evaluation of various technical approaches through permitting, construction, and start-up. We are a small community but got the full attention and support of IWS and their professionals. We asked a lot of questions along the way and are very satisfied with the final product.” •

“We did our homework on the project and knew what we needed to get done. We worked as a team with all the stakeholders to make things happen...”

First IWS Denitrification System Permitted in CO for Subsurface Discharge

Sargent Schools (Monte Vista, CO) is based in South Central Colorado (approximately 50 miles north of the New Mexico border) and services K-12 students from rural Rio Grande County. The Neenan Company was contracted to Design-Build school improvements including the addition of a new building to serve the high school. The Neenan Company selected IWS to join the project team to design, permit, and construct the wastewater treatment system.

The project site is not located near any potential surface water disposal locations so this required IWS to design the wastewater treatment system to meet the Colorado Department of Public Health and Environment (CDPHE) subsurface discharge requirements of less than 10 mg/l total nitrogen. CDPHE had not previously permitted an Advantex treatment system for subsurface dispersal that would meet these low nitrogen requirements. IWS worked closely with the regulators to get them comfortable with the IWS Denitrification Upflow Filter used in conjunction with the Advantex AX-100 pods.

Design of the treatment system included the following components: a) 15,000 septic tank and 10,000 anoxic tank; b) a 15,000 gallon recirculation tank; c) six, AX-100 Advantex pods; d) two, 8,000 gallon denitrification upflow filter tanks; e) 6,000 gallon dosing tank; and f) a 40,000 ft² drain field. The Xerxes tanks and Advantex AX-100 pods were supplied by Roger Shafer of SCG Enterprises (Conifer, CO).

The IWS Denitrification upflow filter was installed with the intent to be a pilot program for the new technologies program under Colorado Department of Public Health and Environment Water Quality Division. IWS designed the system to treat up to 100 mg/L TKN influent to meet the groundwater discharge requirements of 10mg/L. The end goal is to add the Upflow Filter to the approved technologies list for the CDPHE following the pilot study.

The IWS team included Jamie Miller, PE (Project Engineer), Ron Seale (Project Manager), and Bruce Wilkerson (Superintendent). IWS worked closely with Mike King and Greg Kushner (Project Managers) of The Neenan Company.

Greg Kushner of The Neenan Company said, "This is the second project we have worked on with IWS and the first where they have delivered a completed onsite wastewater treatment system on a design-build basis. We are very pleased with their performance and professionalism, and are looking forward to working with them in the future." •



The two center tanks are the IWS Upflow Filters



Treatment system being installed



View of the completed treatment system

Team Approach Brings Community MBR System On-line

The community of Gold Village (located north of Sacramento near Marysville, CA) had a failed wastewater system that had been replaced by a temporary, mobile Fixed Film Bio-Reactor to keep the community of approximately 80 homes with wastewater treatment services. The temporary system was an expensive option, so the River Highlands Services District (operated by Yuba County) contracted with Kennedy/Jenks Consultants to design and permit a Siemens MBR as a permanent solution.

IWS contracted with the Yuba County Department of Public Works to install and construct the new MBR treatment system. The River Highlands WWTP Replacement Project was funded through Yuba County Department of Public Works, the State of California, and the U.S. Department of Agriculture. The system was designed to treat and disinfect the wastewater to meet Title 22 standards, with final dispersal to a holding pond adjacent to the wastewater treatment plant.

IWS's scope of work included: a) demolition and removal of the former facility; b) construction of a new building to house the UV and Chemical treatment equipment; c) installation of a Siemens Express MBR Unit to treat up to 25,000 gpd; d) installation of a new electrical service (including radio communication between the influent lift station and the Siemens unit); e) construction of a fully lined emergency storage pond with a 60 mil HDPE heat welded liner complete with an anchor trench and conveyance lines; and f) installed turbine pumps and controls for distribution of the treated water from the holding pond.

The IWS Program Manager (Jay Alman) and Project Manager (Jay Carpenter) worked closely with Siemens (Ernest Borrow - Project Manager and Russell Goodpasture -



Siemens Express MBR Unit

Start-up Technician), the Siemens Representative (David Ban at Misco Water), Kennedy/Jenks Consultants (Steve Grilley - Project Engineer), and Yuba County (Neil Retelsdorf). Jay Alman commented, "IWS has added to its experience in constructing and starting up an MBR treatment system with this project and it always comes down to a team effort from all the stakeholders."

IWS provided start-up and system commissioning with the treatment system operator, the City of Marysville. Neil Retelsdorf, Civil Engineer for Yuba County was pleased with the work, "IWS did a great job, the project went well, and we appreciate the team work and skill IWS brought to the project." The system is currently operating and serving the Community of Gold Village. •



Chemical feed and associated piping for MBR



View of construction holding pond

IWS Value Engineering Saves Cost Of Wetlands Treatment System

Sysco Food Services of Sacramento (Pleasant Grove, CA) was in need of a wastewater system upgrade to meet their Central Valley Regional Water Quality Control Board (CVRWQCB) discharge limits. Brown and Caldwell (BC) had designed a constructed wetlands system for the site and obtained approval from the CVRWQCB to handle the 10,000 gpd of domestic wastewater from the food distribution center. IWS worked with Sysco and BC to provide value engineering so that IWS could construct the proposed system within the budget constraints of the project.



The 310,000 ft² Sysco Sacramento facility services commercial kitchens throughout Northern California (north to the Oregon border and east to Fallon, Nevada). With over 400 employees and a full service cafeteria to service the shift workers, the domestic wastewater treatment plant is a critical component of the day to day operations.

To meet the CVRWQCB requirements, the existing SBR was taken out of service and a new plant with the following configuration was constructed: a) 25,000 gallon primary tank; b) a 60' by 60' recirculating sand filter; c) 10,000 ft² constructed wetlands which included the planting of California Bulrush; d) 2, one acre percolation ponds; d) 5,000 gallon dosing tank; and e) telemetry based control system. The tanks were provided by Jensen Precast of Orland, CA (www.jensen-precast.com).

Additional site work was required as part of the IWS scope of work which included: a) constructing access roads; b) installing new collection piping; c) landscaping; d) underground street crossing of a pipeline; e) decommissioning



Recirculating Sand Filter

of the existing plant, f) and related site activities.

IWS assisted the project team in evaluating various Value Engineering options to help bring the project within the allocated budget. Specific Value Engineering components included: electrical and control systems; tank configuration; piping configuration; and other site improvements.

One of the project challenges that IWS encountered was a very tight schedule due to regulatory delays (by others) and changes in the FEMA guidelines for the berm heights around the two percolation ponds and the storm water overflow pond. As the FEMA maps were revised prior to the start of permitting, IWS was required to change the excavation and fill requirements to add several feet to the berm's completion elevation. IWS completed this work, along with a constructability assessment with the Design Engineer, Brown and Caldwell, with minimal impact to the schedule and the overall footprint and cost of the earthwork portion of the project. The work was completed in accordance with new FEMA standards and County compliance requirements.

The IWS project team was led by Jay Alman (VP), Program

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View of construction area before installation of treatment system



Constructed wetlands (early growth) in foreground

IWS Value Engineering Saves Cost *continued from page 5*

Manager, and Ron Seale, Project Manager. The IWS team worked closely with Mark Nelson (Facilities Maintenance Manager) of Sysco and Rob Beggs (Managing Engineer) of Brown and Caldwell. Ron Seale commented on the tight schedule, "We had one eye on the weather forecast and one eye on the schedule. Working as a team we made it happen for Sysco."

Rob Beggs led the design and permitting effort for the project and commented that "The IWS team was great to work

with. Their construction experience and knowledge of the treatment process really helped during all aspects of the project."

The project was completed within budget and on schedule, which was noted by Mark Tuttle, Sr. VP for Sysco Sacramento, "IWS kept the project on track and was able to complete the scope of work within the constraints of our budget. They added value to the team and were a pleasure to work with." •

IWS Prepares Chamisal Vineyards for the "Crush" Season

Located half way between Los Angeles and San Francisco on the California Coast, Chamisal was the very first vineyard planted in the Edna Valley appellation in 1973 by the Goss Family who named the estate for the fragrant Chamise (a native white-flowered shrub that thrived on the property). With the Pacific Ocean a mere few miles away, the coastal fog and breezes create one of California's longest growing seasons, extending the amount of time a grape hangs on the vine to develop its flavors. This area has gained recognition as one of the premier Chardonnay and Pinot Noir regions in California.



The completed tank installation adjacent to the concrete pad

The winery was upgrading its wastewater treatment system due to production expansion to meet the Central Coast Regional Water Quality Control Board (CCRWCB) requirements and needed to install pre-treatment prior to dispersal to its treatment ponds for its process water. The system upgrade included installing a 20,000 gallon process wastewater separator tank. Due to site configuration, the tank needed to be installed between a parking lot and existing utilities. In addition, the tank needed to be buried 6' below grade to accommodate the connection to the collection sys-

tem and effluent pumping station - which put the bottom of the excavation approximately 21 feet below grade.

Based on the tight constraints, IWS utilized slide rail shoring to keep the side walls stable as the excavation proceeded to a depth of 21 feet. Ron Crites, PE (Brown and Caldwell) was the design engineer for the project and commented on the tank placement, "We were very comfortable recommending IWS to the owner for this installation given the complexity of site conditions. The project went smoothly!"

Project schedule was another factor in the logistics and planning of the project. Work needed to be completed during the off-season shutdown and before the rainy season hit. IWS was able to mobilize to the site and complete the work within three weeks. Fintan du Fresne, Winemaker for Chamisal Vineyards commented on the project, "IWS gave us great value on the project. They were very professional, productive, and cost effective in executing the work. We were very pleased with the final product and would highly recommend IWS to other wineries and commercial businesses that are upgrading their wastewater treatment system." •



Installing slide rail shoring prior to setting the tank

Low Total Nitrogen Requirements for the North Coast RWQCB

The Seascape Restaurant, a popular eatery overlooking the harbor and lighthouse in Trinidad, CA, needed to upgrade their existing wastewater treatment system to meet the North Coast Regional Water Quality Control Board (NCRWQCB) discharge requirements for the planned system expansion. The site is located in an area of special biological significance (ASBS) and must meet low Total Nitrogen limits. After considering 20 year life cycle costs, capital cost, ease of maintenance, and other evaluation criteria, the IWS Denitrification Upflow Filter was selected as a critical component of the treatment solution.



Restaurant is hidden by the trees adjacent to the shoreline

Prior to the upgrade, the facility wastewater treatment system consisted of a grease tank, primary tank, and pressure dosed leach field. The existing system was treating the restaurant and two private cottages on the property, and was being expanded to include a public restroom to service the adjacent harbor area. The design flow of the upgraded system is 5,000 gpd of relatively high strength wastewater with peak flow of 10,000 gpd.

IWS worked as a subcontractor to the Project Civil Engineer, Pacific Affiliates (Eureka, CA), to assist in the design of the onsite wastewater treatment system. IWS designed the treatment system to meet the NCRWQCB requirements while accommodating the site constraints and anticipated flows from the expansion.

Peter C. Balas, COO of IWS, commented on the denitrification system, "The IWS Upflow Filter provided the Owner a capital cost savings as well as a significant O&M savings over the life of the system versus other available denitrification technologies. By providing our denitrification polishing process the Owner was able to utilize a more passive treat-

ment system to meet their needs, which magnified the overall project savings."

The new treatment system includes the following: a new 6,000 gallon grease interceptor; 15,000 gallon primary tank; 8,000 gallon recirculation tank; 7 Advantex AX-100 pods; 8,000 gallon denitrification upflow filter system; 8,000 gallon dosing tank; UV disinfection; and 9,500 ft² low dose disposal field. The new treatment system will be started up in October 2010. The system was designed to meet the following discharge requirements: 30/30/10 (BOD/TSS/Nitrate as Nitrogen) and E. Coli Bacteria of 200 organisms per 100 mL. The IWS Denitrification Upflow Filter was distributed through Chris Hartman of Jensen Precast (Orland, CA office).

Due to space limitations, the IWS Upflow Filter was configured in an 8,000 gallon Xerxes tanks and located in the parking lot area adjacent to the restaurant. The Upflow Filter media was designed for a 10 year life based upon the anticipated wastewater characteristics and denitrification loading for the system.

Seascape Restaurant is owned by the Cher-Ae Heights Indian Community of the Trinidad Rancheria (Trinidad Rancheria), a federally recognized Indian Tribe. The wastewater project was financed through AARA funding. Jacque Hostler, CEO of the Trinidad Rancheria said of the project, "IWS was a great resource for the project team and provided an excellent perspective for design and construction aspects of the project, we really valued their input and expertise. We also are very pleased with the final product and have realized our dream for a state-of-the-art treatment system for the Trinidad Harbor area." •



IWS Upflow Filter installed in tank below grade

Hoehne "Farmers" Select IWS for Advanced Treatment System

The "Hoehne Farmers" is the mascot for the Hoehne School District located in rural Southeastern Colorado (approximately 20 miles north of the New Mexico border) which services K-12 students from surrounding Las Animas County. The school was under a compliance order from the Colorado Water Quality Control Division to upgrade their wastewater treatment system and selected IWS to construct the newly designed system. Work proceeded while school was in session and required close coordination with school officials to maintain a safe environment and limit the impact to ongoing school activities.

Bob Wright, PE of Church Onsite Wastewater designed the new treatment system which included: a) one 15,000 gallon primary tank; b) one 5,000 gallon recirculation tank; c) Four AX-100 treatment units; d) one 2,000 gallon dosing tank; e) UV Disinfection System; f) Control Building; and g) 4,600 linear feet of discharge pipeline to reach the surface water discharge point. The Xerxes tanks and Advantex AX-100 pods were supplied by Roger Shafer of SCG Enterprises (Conifer, CO).

IWS' scope of work included the construction and installation of all the treatment components, which included dewatering

for all the tank excavations. Horizontal boring under State and County roads was required to complete the effluent pipeline to the discharge point.

Ron Seale and Jay Carpenter led the IWS team as the Project Managers and worked closely with Dave Adams and Reid Straabe of Hoehne School District.

At the conclusion of the project IWS was invited to a Celebration and Dedication of the Hoehne School Wastewater Treatment Plant hosted by the school district. During the ceremony Jay Carpenter was invited to say a few words and he expressed his appreciation for the recognition, "We don't usually get this type of recognition for our work but it means a lot to the team."

Reid Straabe, Superintendent of the School District, welcomed the IWS team to the site for the project and said, "We teach our kids to recognize a job well done and we extend that same courtesy to those that do a great job for the district. We really appreciate the work IWS did and would welcome them back anytime." •



The Hoehne Farmers



Setting the Xerxes Tank



Wastewater Treatment Plant Dedication (Bill Wilkinson, School Board President and Richard Olguin, School Board Member)

Emergency Repair for Malibu Country Mart

The Malibu Country Mart (Country Mart) is a premiere shopping destination for the exclusive Malibu, CA community. Located along the Pacific Ocean in Northern Los Angeles County, Malibu is known for its celebrity and movie star residents. Country Mart is part of the Civic Center area of Malibu, which has a number of onsite wastewater treatment systems in operation.

Recent inspections of their wastewater treatment system by Country Mart indicated that several components needed to be replaced on a fast-track basis. The initial scope of work included: the repair of several septic tanks with riser and lid replacements; replace two, 5,000 gallon septic tanks; abandon several obsolete tanks; Distribution Box replacement; and installation of two new lift stations. Kevin Poffenbarger, PE of EPD led the upgrade design and inspection effort for Country Mart. The concrete tanks and lift stations were supplied by Jensen Precast.

The IWS team, led by Ron Seale (PM) and Bruce Wilkerson (Superintendent), mobilized to the project site on an expedited basis to begin work. Due to the high level of retail activity at Country Mart, traffic control was a critical element of the project to ensure safety for the construction crew and customers. IWS executed the scope of work without incident or requiring any of the businesses to close during the field work. Ron Seale noted that, "IWS does some large and complex projects, but this relatively small upgrade required a lot of planning and coordination due to the traffic and logistics in working in a very active retail environment." Stu McNelis, the Owners representative for County Mart,



Malibu Country Mart

was a key element in the coordination effort with the tenants and maintenance staff. Stu recognized the many challenges for this field work, "IWS did a great job making sure the work area was safe for the public, our tenants, our staff, and the IWS employees. In addition, they accommodated our schedule and were very flexible in scheduling their work." •



Replacing a pump vault manhole access cover



Completing repair of tank and pump vault risers in planter area

Emergency Repair in Time For 2010 Growing Season in CA Central Coast

The Tierra Alta/Buena Vista Housing Center (operated by The Santa Cruz County Housing Authority) located in Watsonville, CA (20 miles south of San Jose) provides housing and family services for permanent and migrant workers in California's Central Coast region. The facility had a 50,000 gallon per day Recirculating Sand Filter (RSF) that needed to be replaced after 15 years of successful service and the Owner wanted to complete the work between the end of the rainy season and the start of the 2010 growing year, which meant an accelerated schedule and short window to execute the project.

Design engineer, Dave Dauwalder of Nolte Associates, Inc., selected the Advantex AX-100 treatment pods as the replacement option for the existing RSF. After considering the costs of trying to rehabilitate the existing RSF or install new ones, it was more cost effective to use the Advantex option. In addition, the County of Santa Cruz and the Central Coast Regional Water Quality Control Board (CCR-WQCB) was very comfortable with the technical approach. Mike Wademan, Nolte Associates, provided CCRWQCB Discharge Permit compliance coordination for the project.

At peak flow the facility generates 50,000 gpd, with an average flow of 25,000 gpd. This approach enabled the client to re-use the existing primary tanks, recirculation tanks, and dispersal system. The scope of work was limited to the installation of 10, AX-100 Advantex pods, the interconnecting piping and valves, and a new control panel. The Advantex pods were installed on less than 50% of the the existing RSF area, which saved space for the Owner.

Jay Carpenter, IWS Project Manager, led the team and worked closely with David Dauwalder, PE (Design Engineer), Peter Rogers (Santa Cruz County Housing Authority), Pat Gill (Bonny Doon Environmental Systems, Inc.) the equipment supplier, and Scott St. Denis (Santa Cruz Public Works) the system operator. Pat Gill was instrumental in working with David Dauwalder on the Advantex system design review.

Dave Dauwalder commented on the project schedule, "IWS



Advantex system under construction



A proud operator - Maurice Cornblatt (Santa Cruz County PWD)

worked well with the project team and accelerated the construction schedule by being proactive and anticipating issues in the field so that there were no construction delays." •

After considering the costs of trying to rehabilitate the existing RSF or install new ones, it was more cost effective to use the Advantex option.

IWS Company News

The Marking of a Milestone

The IWS team joined friends and family from around the country at Dave Patton's 50th surprise birthday celebration that was held at the Cussler Museum in Arvada, CO. The museum features an extensive collection of over 100 significant automobiles, ranging from 1906 to 1965, and was started by the renowned best-selling author Clive Cussler. The "half centurion" was very "surprised" and grateful for all of the well-wishers that traveled from both coasts to share the day with him.



Left to right: Gwen Rogers, Jay Alman, Dave Patton, Peter Balas, Dale Hemstad, and Jeff Thomas

WEFTEC 2010

IWS recently exhibited at the largest water quality event in North America – WEFTEC New Orleans. WEFTEC (Water Environment Federation Technology Exhibition Conference) brings together water and wastewater professionals from all over the world for exhibitions, technical sessions, and meetings. We were visited by a number of partners and clients at our booth and were able to enjoy some fun in "The Big Easy."



IWS at WEFTEC 2009 Show: Left to right – Jamie Miller, Dave Patton, and Jeff Thomas

Half Dome Ascent

IWS employees love the outdoors and are always looking for a challenge. This summer Peter Balas hiked the Half Dome trail at Yosemite which included a 16 mile, 4,800 ft elevation climb that took the better part of a day to complete. Other than the last 400 feet which require climbing a steep rock wall with metal cables, the big excitement came from an up-close encounter with a black bear, accidentally disturbing a grumpy rattlesnake, and a brief thunderstorm.



Peter Balas preparing for the last 200 yards of Half Dome ascent

About Us

Integrated Water Services, Inc. (IWS) provides services to municipalities, developers, communities, and businesses to address their water and wastewater needs. IWS leverages its extensive experience in permitting, engineering, construction, project management, site development, and project finance to provide a range of services to its clients with the ultimate objective of providing a solution that meets all the stakeholders' needs. IWS teams with engineering firms, consultants, suppliers, and other contractors to provide the client best value for their specific project needs.

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