GREEN SHEET

Environmental/Climate/Energy/Sustainment
Conferences, Newsletters, Reports, Training, Contracts, & Professional Organizations

July-August, 2016

New Entries Highlighted in Yellow

2016 Environmental/Climate/Energy/Sustainment Conferences

- Jun 28, 2016, Minnesota Brownfields, State of Brownfields Update, Minneapolis, MN. http://mnbrownfields.org/events/


2017 Conferences

- Oct 24-26, 2016, GRWA, Georgia Rural Water Association, GWRA Fall Conference, Helen, GA, http://www.grwa.org/events.cfm?id=2038
- Nov 1-2, 2016, RAILTEC, 18th Railroad Environmental Conference, Urbana-Champaign, IL, http://railtec.illinois.edu/RREC/overview.php
- Nov 1-3, 2016, CLEAN GULF, Inland, Offshore, Coastal Solutions for Spill Preparedness and Response, Tampa, FL http://www.cleangulf.org/?hq=e&el&hq_m=3206235&q=2&hq_v=4f1574a775
- Dec 6-8, 2016, NGWA, National Groundwater Assn, Groundwater Week, Las Vegas, NV, https://ngwa.confex.com/ngwa/gw16/cfp.cgi
Other Conferences and Events

- Other Energy Conferences, http://www.eventsinamerica.com/trade-shows/business/energy/date/100000/
- Other Climate Change international conferences and events,--- http://climate-l.iisd.org/events/

Environmental Training

- **NGWA, National Groundwater Association.** Conferences, Workshops, Courses, and Webinars. http://portal.criticalimpact.com/vm2/0b946905bbff410e/25576/10db80a0750a8e8679ce8a
- **Webinars.** See newsletters below for numerous more training courses and on-line webinars.

Environmental Contracts & Grants

- **ESTCP/SERDP**, Solicitations & Funding Opportunities, https://serdp-estcp.org/Funding-Opportunities/ESTCP-Solicitations
- **FedCenter.gov.** Provides sources and procedures for a variety of environmental grants. https://www.fedcenter.gov/opportunities/grants/#cleanup

Environmental Reports/Publications/Guidance

- **DoD Natural Resources Program**, Enabling the Mission, Defending the Resources. http://www.dodnaturalresources.net/Index.html
  http://www.c2es.org/international/paris-agreement
Environmental Newsletters

- **National Academies of Sciences, Engineering, Medicine, America’s Climate Choices.** [http://us8.campaign-archive1.com/?u=18fe6f8f25ec0bc7509e65e97&id=24fcd6a69&ea=e9094937801](http://us8.campaign-archive1.com/?u=18fe6f8f25ec0bc7509e65e97&id=24fcd6a69&ea=e9094937801)
- **Army Regional Environmental and Energy Office (REEO),** Overview at [http://www.asaie.army.mil/Public/ESOH/REEO/](http://www.asaie.army.mil/Public/ESOH/REEO/). Newsletter for EPA Regions 1, 2, 3 and 5, contact Leanne Dickens at Leanne.L.dickens2@usace.army.mil; Region 4, Becky Shanks at rebecca.d.shanks@usace.army.mil; Regions 6 & 7, Jim Mayer at james.a.mayer2@usace.army.mil; Regions 8, 9 & 10, Nancy Reese at nancy.l.reese2 ctr@mail.mil
- **C2ES, Center for Climate & Energy Solutions,** monthly Climate/Energy Newsletter, [http://www.c2es.org/newsroom/newsletters](http://www.c2es.org/newsroom/newsletters)
- **ENR-Energy, Energy Insight from Engineering New-Record, [http://view.bmp-digital.com/?j=fece11f87c166007f&m=fe9d1737c66057c74&l=fe291c777060077c7c1471&l=ff971074&s=fe2316717d40d78711378&jb=ff911179&jse=fe671527266d0277f414&re=0](http://view.bmp-digital.com/?j=fece11f87c166007f&m=fe9d1737c66057c74&l=fe291c777060077c7c1471&l=ff971074&s=fe2316717d40d78711378&jb=ff911179&jse=fe671527266d0277f414&re=0)
- **EPA TechDirect,** hosted by U.S. EPA's Technology Innovation and Field Services Division, [https://clu-in.org/techdirect/](https://clu-in.org/techdirect/)
- **NGWA, National Groundwater Association, Events & Education, [http://www.ngwa.org/Events-Education/Pages/Home.aspx](http://www.ngwa.org/Events-Education/Pages/Home.aspx)
- **Nature Journal.** Dozens of subject specific newsletters, [http://www.nature.com/index.html](http://www.nature.com/index.html)
Related Professional Organizations & Metro Atlanta, GA Chapters

- AICHe, American Institute of Chemical Engineers. Contact Krupa Patel, (krupa3@gmail.com), (404) 786 6117, http://www.atl-aiche.org/Menu.html
- ASAP, American Society of Adaptation Professionals, https://adaptationprofessionals.org/ contact Sascha Petersen, spetersen@iscvt.org, (512) 585-8592
- ASCE, American Society of Civil Engineers. Contact Rebecca Shelton, Rebecca.Shelton@gwinnettcounty.com (678) 376-7033, http://www.asce.org/
- ASCE-EWRG, Environmental & Water Resources Group of ASCE. Contact Rasheed Ahmad, rahmad@atlantaga.gov, 404-546-3313. http://www.asce.org/environmental-water-resources/
- ASSE, American Society of Safety Engineers. Contact David Brani, dbrani@atslab.com, (770) 423-1400, http://georgia.asse.org/
- AWMA, Air & Waste Management Association. Contact Thomas Wideman, (404) 506-7088, TCWidema@southernco.com
- GAWP, Georgia Association of Water Professionals. Numerous different professional committees. Contact Ashley Simone, asimone@gawp.org, (678) 540-7326, http://www.gawp.org/
- GCS, Green Chamber of the South, promoting green sustainable business practices, Atlanta, GA, https://greencs.org, contact Scott Sadler, 404-343-2026, scott@boardwalkcm.com
- GBA, Georgia Brownfields Association, http://georgiabrownfield.org/, Contact Kelly Andrews, kelly@hlstrategy.com
- GTEC, Georgia Tank and Environmental Professionals Association, Info@gteca.com 770.426.1133, http://gteca.com/
- NGWA, National Groundwater Association, http://www.ngwa.org/Member-Center/Membership/Pages/ScientistEngineers.aspx, Erin Rodgers, erodgers@ngwa.org, (800) 551.7379
- SAME, Society of American Military Engineers. Contact Beth Harris, bharris@unitedconsulting.com, (770) 582-2829, http://sameatlantapost.org
The Green Sheet is a complimentary newsletter of EcoVac Services, Inc. To subscribe for periodic updates, or to add/edit information email rob.kelly@ecovacservices.com or nick.athens@ecovacservices.com. For more information about EcoVac Services see http://www.ecovacservices.com/ or to request a proposal email nick.athens@ecovacservices.com.

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Groundwater Remediation
Rapid, Meticulous, Cost-Effective, Green, Guaranteed-Fixed Price Site Closures

Remediate Groundwater Sites Impacted with:
- Fuels (gasoline, diesel, jet fuel)
- Solvents (chlorinated hydrocarbons: TCE, PCE, DCE)
- Highly viscous hydrocarbons (Creosote, Coal Tar, Pine Tar, No. 6 fuel oil)

EcoVac’s Innovative Solutions Include:
- Enhanced fluid recovery (EFR®), a mobile, vacuum-enhanced dual-phase/multi-phase extraction (DPE/MPE) for the removal of all VOC phases (i.e. separate, adsorbed, dissolved, and vapor phases) from the entire soil column utilizing a single remedial process. This process provides an expedited and mobile cost-effective-solution for NAPL and dissolved phase plumes.
- Remediation of NAPL (LNAPL and DNAPL-TCE/PCE) utilizing our patented SURFAC® process, which combines the elements of specially formulated surfactant emplacement with EFR®.
- Remediation of dissolved phase VOCs utilizing our proprietary ISCO-EFR® process, which combines the elements of chemical oxidant emplacement with mobile EFR®.
- Remediation of viscous LNAPLs and DNAPLs, such as coal tar, creosote, crude oil, and no. 6 fuel oil (bunker fuel) with our patented process SOLV-IT® utilizing EcoVac Formulated Solvents (EFS®) combined with the SURFAC® and EFR® processes. Tar site remediation project summary available.

Background
EcoVac Services is a remediation services firm formed in 1995 with a multidisciplinary staff and affiliated offices positioned in numerous states providing services nationwide.
We pioneered, patented and provide expedited and cost-effective in-situ, mobile remedial solutions for groundwater sites impacted with fuels, solvents and other highly viscous VOCs. We have applied our cost-efficient technologies with regulatory acceptance in over 41 states and PR.

Our Differentiators & Benefits
- Field Proven (over 15,000 events, 2300+ sites, 450+ clients)
- Effective (recovered over 2 million gallons of fuel & other VOCs)
- All NAPLs (DNAPLs like TCE and LNAPLs)
- Viscous NAPLs, too (creosote, coal tar)
- Rapid Remediation Closure (mos. vs. yrs., 2.5 acre plume in 33 days)
- Hydraulic Containment (prevents plume displacement)
- Highly competitive ($40/gal contaminant recovery for closure)
- Guaranteed Fixed Price Fuel Site Closures (avg. $300K for 1/3-acre gas plume)
- Performance Based Remediation (PBR)/Pay for performance (PFP)
- Innovative (multiple patented technologies)
- Remedial Process Optimized (continuously by on-site operator)
- In-house treatability laboratory (R&D and site-specific optimization studies)
- Customized Treatment Train & Amendments (customized for each site)
- 100% Mobile (no fixed installation; $zero O&M)
- In-situ, 24-7 (beneath structures, too, minimally disruptive)
- All Lithologies (clays to fractured bedrock)
- Deep (effective to 150 feet below ground surface)
- Scalable (remediate unlimited size plumes)
- Green Sustainable Remediation (70% less GHG than fixed system)
- Nationwide Regulatory Accepted (operated in 41 states since 1995)
- Small Business, NAICS Code 592910, Remediation Services
- Perfect Safety Record
Guaranteed Fixed Price Closure of Leaking UST Sites

*Average Cost/Duration: $287,000 for 1/3-acre plume in 4 months

<table>
<thead>
<tr>
<th>Project Name/Location</th>
<th>Remediation Dates</th>
<th>Remediation Duration</th>
<th>Remedial Process</th>
<th>Geology/ Hydrogeology</th>
<th>Contaminant/ *Plume Size</th>
<th>Remediation Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trucking Facility</td>
<td>Oct 24 to Nov 16, 2007</td>
<td>2 months</td>
<td>SURFAC®</td>
<td>Very Fine grained sand</td>
<td>Diesel Fuel 80' by 70' by 8'</td>
<td>$225,850</td>
</tr>
<tr>
<td>Former Gasoline</td>
<td>Jan 23 to Mar 14, 2008</td>
<td>3 months</td>
<td>SURFAC®</td>
<td>Silty clay interbedded w/ clayey silt</td>
<td>Gasoline 0' by 175' by 10'</td>
<td>$548,100</td>
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<tr>
<td>Retail/Convenience Store, Del City, OK</td>
<td>Nov 17 to Dec 11, 2008</td>
<td>2 months</td>
<td>SURFAC®</td>
<td>Silty clay interbedded w/ clayey silt</td>
<td>Gasoline 200' by 70' by 7'</td>
<td>$225,000</td>
</tr>
<tr>
<td>Former Gasoline Retail/Convenience Store, Yukon, OK</td>
<td>July 14 to Sept 30, 2007</td>
<td>2 months</td>
<td>SURFAC®</td>
<td>Silty clay interbedded w/ clayey silt</td>
<td>Gasoline 120' by 60' by 8'</td>
<td>$70,000</td>
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<tr>
<td>Former Texaco Station</td>
<td>Jul 14 to 31, 2008</td>
<td>1 month</td>
<td>SURFAC®</td>
<td>Silty Clay</td>
<td>Diesel Fuel 60' by 60' by 5'</td>
<td>$183,000</td>
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<tr>
<td>Active Truck Fueling Facility, Marietta, OK</td>
<td>Aug 11 to Oct 1, 2008</td>
<td>3 months</td>
<td>SURFAC®</td>
<td>Sandstone</td>
<td>Gasoline 40' by 120' by 8'</td>
<td>$450,700</td>
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<tr>
<td>Active Gasoline Retail/Convenience Store, Norman, OK</td>
<td>Nov 17 to Dec 11, 2008</td>
<td>2 months</td>
<td>SURFAC®</td>
<td>Very Fine grained sand</td>
<td>Gasoline 200' by 70' by 8'</td>
<td>$219,500</td>
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<td>Former Gasoline Retail/Convenience Store, Oklahoma City, OK</td>
<td>Apr 7 to May 3, 2008; June 1 to July 31, 2008; Jan. 5 to Feb. 10, 2009</td>
<td>10 months</td>
<td>SURFAC®</td>
<td>Silty clay interbedded w/ clayey silt</td>
<td>Gasoline 50' by 190' by 6'</td>
<td>$574,000</td>
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<td>Former Gasoline Retail/Convenience Store, Jenks, OK</td>
<td>Feb 23 to Mar 5, 2009</td>
<td>2 months</td>
<td>SURFAC®</td>
<td>Very Fine grained sand</td>
<td>Gas/Diesel Fuel 00' by 75' by 10'</td>
<td>$148,200</td>
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<tr>
<td>Active Gasoline Retail/Convenience Store, Lawton, OK</td>
<td>Mar 10 to 24, 2009; Nov. 5 to 27, 2009</td>
<td>9 months</td>
<td>SURFAC®</td>
<td>Sandy clay with interbedded clay</td>
<td>Gasoline 12,500 sq. feet</td>
<td>$163,500</td>
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<tr>
<td>Active Fuel Distribution Facility, Oklahoma City, OK</td>
<td>Mar 11 to Apr 24, 2009</td>
<td>2 months</td>
<td>SURFAC®</td>
<td>Sandstone/Sandstone</td>
<td>Gasoline 00' by 80' by 10'</td>
<td>$180,500</td>
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