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| **Environmental Enlightenment #92**By Ami Adini - Reissued December 22, 2016

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| This is a SHORT, LIGHT and SIMPLE newsletter. Its purpose is to rekindle in the initiated terminology they have once learned, and enlighten the uninitiated on terms they may have heard but never known the meaning of. |
| **Dry-cleaning Equipment & Dry-cleaning Operations***(The information in this newsletter has been gleaned from an EPA sponsored site*[*http://www.drycleancoalition.org*](http://www.drycleancoalition.org/)*and enhanced with pictures obtained on the Web.)*Although much of the dry-cleaning solvent being used today is delivered via closed-loop systems, historically dry-cleaning solvent has been delivered in drums and by tank trucks.http://amiadini.com/NewsletterArchive/161221-NL92/ee-92-03.jpgSome dry-cleaning wholesale supply facilities receive solvent deliveries via railroad tank cars.http://amiadini.com/NewsletterArchive/161221-NL92/ee-92-02.jpgNumerous instances of solvent discharges, associated with these deliveries, have been documented including:* Discharge of solvent during transfer from railroad tank car
* Discharge of solvent when delivery hose uncoupled from tank truck
* Overfilling of solvent storage tanks
* Discharge of solvent to facility floor or ground when delivery hose is reeled in
* Discharge of solvent from drums dropped during delivery
* Discharge of solvent when withdrawing solvent from an above-ground storage tank or transferring solvent to a dry-cleaning machine
* Discharge of solvent while filling dry-cleaning machine and from overfilling machine

Due primarily to the industry conversion to more efficient dry-cleaning machines, PCE use by drycleaners in the United States has dramatically declined. A survey found that PCE use by drycleaners in the United States in 2001 was 52 million pounds compared to 260 million pounds used in 1985.Since today's generation dry-cleaning machines are more efficient, they use much less solvent and therefore, much less solvent is stored at dry-cleaning facilities.Most facilities store dry-cleaning solvent in the tanks located at the base of the dry-cleaning machine.http://amiadini.com/NewsletterArchive/161221-NL92/ee-92-04.jpgIn the past, additional solvent was often stored in tanks, primarily aboveground storage tanks (ASTs) for PCE and both aboveground and underground storage tanks (USTs) for petroleum solvents. There have been solvent discharges associated with these storage tanks from leaks (valves, flowlines and tanks) and from spills (during both tank filling and solvent withdrawal).http://amiadini.com/NewsletterArchive/161221-NL92/ee-92-08.jpgA study of reported solvent leaks, spills and discharges at 334 dry-cleaning facilities and 14 dry-cleaning wholesale supply facilities located in Florida found that the largest average solvent spill volumes were associated with solvent transfer and storage.Approximately 20.9% of the solvent and solvent-contaminated waste discharges reported in the Florida study were due to equipment operation problems including still boil-overs, clothing caught in the machine door, loose cartridge filter housings, overflow of water separator, and open valves.The largest number of reported spills/discharges (39.2%) were associated with equipment failure, including leaking gaskets, seals, valves, ruptured hoses, failed couplings, and equipment corrosionhttp://amiadini.com/NewsletterArchive/161221-NL92/ee-92-06.jpgThe Florida study found that 13.8% of the reported solvent/solvent waste discharges were associated with dry-cleaning machine/equipment maintenance. This includes spills associated with filter changes, still cleanouts, servicing of the solvent pump and button trap cleanouts. |
| You can find past issues of our "Environmental Enlightenment" at [amiadini.com](http://www.amiadini.com/) Wealth of information about environmental site assessments in the real estate transactions and issues concerning assessment and cleanup of contamination in the subsurface soil and groundwater. |

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| Call me if you have any questions. There are **no obligations.**Ami Adini Environmental Services, Inc.Environmental Consultants & General Engineering ContractorsCalifornia Lic. #1009513 A B HAZ ASB**818-824-8102**; **mail@amiadini.com**[www.amiadini.com](http://amiadini.com/)Ami Adini is a veteran environmental practitioner with over 40 years of experience. He carries a Bachelor of Science degree (B.Sc.) in Mechanical Engineering including academic credits in Nuclear and Chemical Engineering and postgraduate education in these fields. His career includes design and construction of nuclear plant facilities, chemical processing plants and hazardous wastewater treatment systems. He is a former California Registered Environmental Assessor Levels I & II in the 1988-2012 registry that certified environmental professionals in the assessment and remediation of environmentally impacted land, and a Registered Environmental Professional (REP) since 1989 with the National Registry of Environmental Professionals (NREP). He is a California Business & Professions Code Qualifying Responsible Managing Officer (RMO) in the General Engineering Contractor classification with Hazardous Substance Removal and Asbestos certifications, and president of AMI ADINI ENVIRONMENTAL SERVICES, INC. (AAES), a general engineering contractor and consulting firm specializing in environmental site assessments, rehabilitation of contaminated sites and removal of environmental risks from real-estate transactions. (Contact Ami for a complete resume.) **AAES provides practical solutions to environmental concerns using the highest standards of ethics and integrity while providing its clients with maximum return on their investments.** |

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