

User Guide Index for EPA-HQ-OW-2008-0517

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6.0	EPA-HQ-OW-2008-0517-0737	02/01/2011	Response to Comments for the Final 2010 Effluent Guidelines Program Plan - DCN 07376		Publication; USEPA	874		No	No	07376
6.4	EPA-HQ-OW-2008-0517-0618	12/01/2010	Technical Support Document for the 2010 Effluent Guidelines Program Plan Appendices - DCN 07320A1	Supplemental materials for EAD's screening-level analysis and the development of TRI Releases 2008 and DMR Loads 2008 v2.	Data	435		No	No	07320A1
6.4	EPA-HQ-OW-2008-0517-0618	12/01/2010	Technical Support Document for the 2010 Effluent Guidelines Program Plan - DCN 07320		Publication; USEPA	255		No	No	07320
9.1	EPA-HQ-OW-2008-0517-0619		TRICalculations2008_v3 - DCN 07312	Database supporting the 2010 Annual Review for the Effluent Guidelines Program Plan. This database uses data from the Toxics Release Inventory from 2008.	Data	0		No	No	07312
9.1	EPA-HQ-OW-2008-0517-0620		TRIRelases2008_v3 - DCN 07313	Database supporting the 2010 Annual Review for the Effluent Guidelines Program Plan. This database uses data from the Toxics Release Inventory from 2008.	Data	0		No	No	07313

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9.1	EPA-HQ-OW-2008-0517-0621		2008 TRI Database Change Forms - DCN 07319	Change forms for all database changes made to the 2008 TRI database during the 2010 annual review.	Form	21		No	No	07319
9.2	EPA-HQ-OW-2008-0517-0622		DMRLoadsAnalysis2008_v2 - DCN 07314	DMRLoadsAnalysis2008 database imports annual load tables and facility information from the DMR Loadings Tool. This dataset includes information from both the PCS and ICIS-NPDES datasets from 2008.	Data	0		No	No	07314
9.2	EPA-HQ-OW-2008-0517-0623		DMRLoads2008_v2 - DCN 07315	Database that groups discharges from DMRLoadAnalysis2008 to create point source category rankings and to perform other analyses.	Data	0		No	No	07315
9.2	EPA-HQ-OW-2008-0517-0624		DMRLoadsAnalysis2008_v3 - DCN 07316	DMRLoadsAnalysis2008 database imports annual load tables and facility information from the DMR Loadings Tool. This dataset includes information from both the PCS and ICIS-NPDES datasets from 2008.	Data	0		No	No	07316
9.2	EPA-HQ-OW-2008-0517-0625		DMRLoads2008_v3 - DCN 07317	Database that groups discharges from DMRLoadAnalysis2008 to create point source category rankings and to perform other analyses.	Data	0		No	No	07317

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9.2	EPA-HQ-OW-2008-0517-0626		2008 DMR Database Change Forms - DCN 07318	Change forms for all database changes made to the 2008 DMR database during the 2010 annual review.	Form	272		No	No	07318
9.5	EPA-HQ-OW-2008-0517-0713	09/01/2007	Toxic Weighting Factor Spreadsheet: Sept 2007 version - DCN 04661	This spreadsheet contains updates to toxic weighting factors that were finalized in the Technical Support Document for the 2006 Effluent Guidelines Program Plan (DCN 03402).	Report	0	Eastern Research Group, Inc.	No	No	04661
10.01	EPA-HQ-OW-2008-0517-0586	07/02/2010	Preliminary Category Review – Facility Data Review and Revised Calculations (July 2, 2010) - DCN 07304	MS Excel file of the calculations used to determine load and TWPE reduction for preliminary category review information presented in Chapter 5 of the 2010 TSD.	Data	1		No	No	07304
10.01	EPA-HQ-OW-2008-0517-0587	12/01/2007	US EPA Region 10. National Pollution Discharge System Permit NPDES – IDG130000 – Aquaculture Facilities in Idaho. (December 1, 2007) - DCN 07329	NPDES Permit for IDG130000	Permit, Registration	96		No	No	07329
10.01	EPA-HQ-OW-2008-0517-0740	03/17/2010	Telephone conversation with Philip Urbany, TCEQ - Water Permitting Authority and Elizabeth Sabol, Eastern Research Group, Inc. (March 17, 2010) - DCN 07324	Discussion regarding flows from Bayview Detention Center reported to DMR in 2008.	Meeting or Teleconference	1		No	No	07324

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10.03	EPA-HQ-OW-2008-0517-0743	02/19/2010	Notes from Telephone Conversation between Faith Lovitt, Tyson Foods, Inc., and Elizabeth Sabol, Eastern Research Group, Inc. (February 19, 2010) - DCN 07260	Discussion regarding mercury concentrations reported to DMR in 2008.	Meeting or Teleconference	1		No	No	07260
10.03	EPA-HQ-OW-2008-0517-0744	03/17/2010	Notes from Telephone Conversation between John Sansalone, DEC Region 3 Office, and Elizabeth Sabol, Eastern Research Group, Inc. (March 17, 2010) - DCN 07263	Discussion regarding flows reported for Catskill State Fish Hatchery in the 2008 DMR database.	Meeting or Teleconference	1		No	No	07263
10.03	EPA-HQ-OW-2008-0517-0741	04/22/2010	Notes from Telephone Conversation between Dirk Bogaard, Clear Lakes Trout Company, and Elizabeth Sabol, Eastern Research Group, Inc. (April 22, 2010) - DCN 07256	Discussion regarding 2008 DMR copper concentrations.	Meeting or Teleconference	1		No	No	07256
10.03	EPA-HQ-OW-2008-0517-0742	02/12/2010	Notes from Telephone Conversation between Steve Draveland, John Morrell & Co. and Elizabeth Sabol, Eastern Research Group, Inc. (February 12, 2010) - DCN 07257	Discussion regarding 2008 TRI mercury and mercury compound concentrations discharges from John Morrell & Co.	Meeting or Teleconference	1		No	No	07257
10.08	EPA-HQ-OW-2008-0517-0745	02/12/2010	Notes from telephone and e-mail communication between Julia Aslinger, Center for Toxicology, and Environmental Health, LLC and Elizabeth Sabol, Eastern Research Group, Inc. (February 12, 2010) - DCN 07253	Discussion and corresponding e-mail communications discussing Graftech International (38401CRCRBSANTA) PAC discharges in TRI 2008.	Meeting or Teleconference	3		No	No	07253

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10.19	EPA-HQ-OW-2008-0517-0588	03/15/2010	Dioxin Distribution Change for PCS Nitrogen in the 2008 TRI Database -DCN 07321	MS Excel file showing that the 2008 TRI dioxin distribution did not include the congener numbering change implemented in 2008, as compared to the distribution reported by the facility in 2005.	Data	1		No	No	07321
10.23	EPA-HQ-OW-2008-0517-0746	04/25/2010	Notes from Telephone Communication between Christopher Bernarack, GA DEQ, and William Swietlik, U.S. EPA (April 25, 2010) - DCN 07255	Discussion regarding the resolution of 2008 DMR outlier toxaphene discharges from Hercules, Inc. (GA0003735)	Meeting or Teleconference	1		No	No	07255
10.26	EPA-HQ-OW-2008-0517-0591	07/02/2010	Eastern Research Group, Inc. Inorganic Chemicals Category (40 CFR Part 415) Facility Review Calculations. (July 2, 2010) - DCN 07274	MS Excel file containing the load and TWPE calculations for determined revised loads/TWPE for facilities in the Inorganic Chemicals Category	Data	1		No	No	07274
10.26	EPA-HQ-OW-2008-0517-0747	03/17/2010	Notes from E-mail Communication between Sylvia Williams, Akzo Noble, and Elizabeth Sabol, Eastern Research Group, Inc. (March 17, 2010) - DCN 07266	Discussion regarding mercury concentrations reported in the 2008 DMR database and all corresponding attachments	Meeting or Teleconference	6		No	No	07266
10.26	EPA-HQ-OW-2008-0517-0748	04/21/2010	Notes from E-mail Communication between Ken Wood, DuPont, and Ellie Coddling, Eastern Research Group, Inc. (April 21, 2010) - DCN 07267	Email, telephone, and attachments regarding dioxin distributions reported in the 2008 TRI database for the New Johnsonville, Edgemoor, DeLisle, and Starke DuPont facilities.	Letter, Memorandum, Email	6		No	No	07267

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10.26	EPA-HQ-OW-2008-0517-0589	12/23/2002	Alabama Department of Environmental Management. National Pollutant Discharge Elimination System Permit NPDES – AL0002666 – for UOP LLC Mobile Plant. Chickasaw, AL. (December 23, 2002) - DCN 07271	NPDES Permit AL0002666	Permit, Registration	31		No	No	07271
10.26	EPA-HQ-OW-2008-0517-0749	06/29/2010	Telephone conversation with Sean Coury, Elementis Chromium, and Elizabeth Sabol, Eastern Research Group, Inc. (June 29, 2010) - DCN 07273	Discussion regarding mercury and silver discharges reported in the 2008 DMR database.	Meeting or Teleconference	2		No	No	07273
10.26	EPA-HQ-OW-2008-0517-0750	06/29/2010	Telephone conversation with Rick Frain, UOP LLC and Elizabeth Sabol, Eastern Research Group, Inc. (June 29, 2010) - DCN 07275	Discussion regarding aluminum discharges reported to DMR in 2008.	Meeting or Teleconference	1		No	No	07275
10.26	EPA-HQ-OW-2008-0517-0751	06/29/2010	Telephone and E-mail communication with Cliff Wright, AL State Docks – Mud Lakes and Elizabeth Sabol, Eastern Research Group, Inc. (June, 29, 2010) - DCN 07276	Discussion regarding mercury discharges reported to DMR in 2008.	Letter, Memorandum, Email	3		No	No	07276
10.26	EPA-HQ-OW-2008-0517-0592	01/01/2006	UOP MOLSIV Molecular Sieves - DCN 07334	Brochure describing UOP molecular sieve products - AL0002666	Publication; Copyrighted Material	2		Yes	No	07334

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10.26	EPA-HQ-OW-2008-0517-0590	10/24/2006	Alabama Department of Environmental Management. National Pollutant Discharge Elimination System Permit NPDES – AL0002976 – for Alabama State Port Authority Mud Lakes. Mobile, AL. (October 24, 2006) - DCN 07272	NPDES Permit AL0002976	Permit, Registration	23		No	No	07272
10.26	EPA-HQ-OW-2008-0517-0752	08/31/2010	Telephone and E-mail communication with Donald Brown, Alabama Department of Environmental Management, and Elizabeth Sabol, Eastern Research Group, Inc. (August 31, 2010) - DCN 07306	Discussion regarding 2008 mercury discharges from AL State Docks and all corresponding attachments.	Meeting or Teleconference	2		No	No	07306
10.28	EPA-HQ-OW-2008-0517-0754	03/17/2010	Notes from E-mail Communication between Mike Olds, Republic Services, and Elizabeth Sabol, Eastern Research Group, Inc. (March 17, 2010) - DCN 07259	Discussion regarding 2008 DMR mercury concentrations and all corresponding attachments.	Meeting or Teleconference	6		No	No	07259
10.28	EPA-HQ-OW-2008-0517-0758	06/30/2010	E-mail communication between Lantz Tipton, Missouri Department of Natural Resources, and Elizabeth Sabol, Eastern Research Group, Inc. (June 30, 2010) - DCN 07281	E-mail communication confirming 2008 DMR data for Onyx Maple Hill discharges and all corresponding attachments.	Letter, Memorandum, Email	3		No	No	07281
10.28	EPA-HQ-OW-2008-0517-0757	06/28/2010	E-mail communication between Adria Palmer, Missouri Department of Natural Resources, and Eleanor Codding, Eastern Research Group, Inc. (June 28, 2010) - DCN 07280	E-mail communication confirming 2008 DMR data for the Advantage Metals Recycling Facility.	Letter, Memorandum, Email	2		No	No	07280

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10.28	EPA-HQ-OW-2008-0517-0593	12/10/2010	Authorization to Discharge under National Pollutant Discharge Elimination System Permit OH0076627 – Columbus Southern Power Company, Conesville, OH. Ohio EPA Location. (December 10, 2009) - DCN 07279	NPDES Permit OH0076627	Permit, Registration	32		No	No	07279
10.28	EPA-HQ-OW-2008-0517-0756	06/24/2010	E-mail communication between Jacquelin Gatlin, Missouri Department of Natural Resources, and Eleanor Coddling, Eastern Research Group, Inc. (June 24, 2010) - DCN 07278	Discussion regarding discharges from the Springfield Sanitary Landfill reported in the 2008 DMR database and all corresponding attachments.	Letter, Memorandum, Email	118		No	No	07278
10.28	EPA-HQ-OW-2008-0517-0755	10/10/2010	Memorandum to William Swietlik, U.S. EPA EPA, from Jessica Wolford and Elizabeth Sabol, Eastern Research Group, Inc. - DCN 07277	Memo discussing the methodology for analyzing landfill iron concentrations in the 2008 DMR Loadings Tool.	Letter, Memorandum, Email	6		No	No	07277
10.28	EPA-HQ-OW-2008-0517-0753	02/22/2010	Notes from Telephone Conversation between Jory Becker, KY DEP, and Jessica Wolford, Eastern Research Group, Inc. (February 22, 2010) - DCN 07254	Discussion and review of 2008 DMR data and permits for Bullitt County Landfill (KY0091651) and Reed Duplex Apt. Bldg. (KY0095036).	Meeting or Teleconference	1		No	No	07254
10.31	EPA-HQ-OW-2008-0517-0594	07/11/2003	State of Missouri Department of Natural Resources. National Pollution Discharge Elimination System Permit NPDES – MO0097926 – Engineered Coil Company. High Ridge, MO. (July 11, 2003) - DCN 07327	NPDES Permit for MO0097926	Permit, Registration	6		No	No	07327

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10.31	EPA-HQ-OW-2008-0517-0595	03/17/2010	US Steel Flow Factor Calculation Sheet - DCN 07328	Facility measures pollutant concentrations in their stormwater prior to commingling with NCCW at these outfalls. Therefore outfall flow should be multiplied by the stormwater factor so that loads are only calculated using the stormwater portion of the outfall flow.	Data	1		No	No	07328
10.31	EPA-HQ-OW-2008-0517-0759	02/16/2010	Notes from Telephone Conversation between Eric Peterson, Kodak Colorado Division, and Elizabeth Sabol, Eastern Research Group, Inc. (February 16, 2010) - DCN 07261	Discussion regarding silver concentrations reported to DMR in 2008.	Meeting or Teleconference	1		No	No	07261
10.34	EPA-HQ-OW-2008-0517-0603	08/31/2006	North Carolina Division of Water Quality. National Pollution Discharge Elimination System Permit NPDES – NC0000353 – Feldspar Corporation. Spruce Pine, NC. (August 31, 2006) - DCN 07289	NPDES Permit NC0000353	Permit, Registration	16		No	No	07289
10.34	EPA-HQ-OW-2008-0517-0596	05/27/2005	Department of Natural Resources Water Discharge Permit NPDES MO0000710 – Harbison Walker Refractories Company – Vandalia Plant. Vandalia, MO - DCN 07264	NPDES Permit MO0000710	Permit, Registration	5		No	No	07264
10.34	EPA-HQ-OW-2008-0517-0598	05/27/2003	Florida Department of Environmental Protection. National Pollution Discharge System Fact Sheet NPDES – FL0000655 – PCS Phosphates. White Springs, FL. (May 27, 2003) - DCN 07284	NPDES Fact Sheet FL0000655	Fact/Data Sheet	17		No	No	07284

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10.34	EPA-HQ-OW-2008-0517-0602	10/01/2005	Michigan Depart of Environmental Quality. National Pollution Discharge Elimination System Fact Sheet NPDES – MI0001368 – U.S. Silica. Rockwood, MI. (October 1, 2005) - DCN 07288	NPDES Fact Sheet MI0001368	Fact/Data Sheet	5		No	No	07288
10.34	EPA-HQ-OW-2008-0517-0601	10/01/2005	Michigan Depart of Environmental Quality. National Pollution Discharge Elimination System Permit NPDES – MI0001368 – U.S. Silica. Rockwood, MI. (October 1, 2005) - DCN 07287	NPDES Permit MI0001368	Permit, Registration	22		No	No	07287
10.34	EPA-HQ-OW-2008-0517-0599	01/26/2004	Florida Department of Environmental Protection. National Pollution Discharge System Permit NPDES – FL0001902 – U.S. Agri-Chemicals Corporation. Fort Meade, FL. (January 26, 2004) - DCN 07285	NPDES Permit FL0001902	Permit, Registration	32		No	No	07285
10.34	EPA-HQ-OW-2008-0517-0597	05/27/2003	Florida Department of Environmental Protection. National Pollution Discharge System Permit NPDES – FL0000655 – PCS Phosphates. White Springs, FL. (May 27, 2003) - DCN 07283	NPDES Permit FL0000655	Permit, Registration	31		No	No	07283
10.34	EPA-HQ-OW-2008-0517-0604	04/10/2006	North Carolina Division of Water Quality. National Pollution Discharge Elimination System Fact Sheet NPDES – NC0000353 – Feldspar Corporation. Spruce Pine, NC. (April, 10 2006) - DCN 07290	NPDES Fact Sheet NC0000353	Fact/Data Sheet	4		No	No	07290

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10.34	EPA-HQ-OW-2008-0517-0600	03/12/2003	Florida Department of Environmental Protection. National Pollution Discharge System Fact Sheet NPDES – FL0001902 – U.S. Agri-Chemicals Corporation. Fort Meade, FL. (March 12, 2003) - DCN 07286	NPDES Fact Sheet FL0001902	Fact/Data Sheet	12		No	No	07286
10.36	EPA-HQ-OW-2008-0517-0760	03/17/2010	Notes from Telephone Conversation between Chris Travis, USEC PDGDP, and Elizabeth Sabol, Eastern Research Group, Inc. (March 17, 2010) - DCN 07265	Discussion regarding PCB concentrations reported in the 2008 DMR database.	Meeting or Teleconference	2		No	No	07265
10.37	EPA-HQ-OW-2008-0517-0818	08/11/2011	The SEAB Shale Gas Production Subcommittee Ninety-Day Report - August 11, 2011 - DCN 07504	The SEAB comments on identifying measures that can be taken to reduce the environmental impact and improve the safety of shale gas production.	Report	41		No	No	07504
10.37	EPA-HQ-OW-2008-0517-0607	01/01/1995	Oilfield Processing of Petroleum: Crude Oil - DCN 07310	Online book previewed for information regarding possible sources of hydrogen disulfide in oil and gas extraction.	Publication; Copyrighted Material	4		Yes	No	07310
10.37	EPA-HQ-OW-2008-0517-0605	11/01/2007	Wyoming Department of Environmental Quality. State of Wyoming National Pollutant Discharge Elimination System Permit NPDES WY0000779 – Marathon Oil Maverick Springs. Fremont County, WY. (November, 2007) - DCN 07291	NPDES Permit WY0000779	Permit, Registration	20		No	No	07291

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10.37	EPA-HQ-OW-2008-0517-0606	06/01/2007	Wyoming Department of Environmental Quality. State of Wyoming National Pollutant Discharge Elimination System Statement of Basis NPDES WY0000779 – Marathon Oil Maverick Springs. Fremont County, WY. (June,2007) - DCN 07292	NPDES Fact Sheet WY0000779	Fact/Data Sheet	7		No	No	07292
10.37	EPA-HQ-OW-2008-0517-0765	06/24/2010	Telephone conversation with Linda Taylor, Marathon Oil Maverick Springs, and Elizabeth Sabol, Eastern Research Group, Inc. (June 24, 2010) - DCN 07307	Discussion regarding 2008 sulfide discharges from Marathon Oil Maverick Springs.	Meeting or Teleconference	1		No	No	07307
10.37.2	EPA-HQ-OW-2008-0517-0761		Determination of Total Organic Carbons (TOC) in Difficult Sample Matrices Utilizing the Supercritical Water-Oxidation TOC Procedure - DCN 07479A20	A presentation on determining the total organic carbon (TOC) in samples using supercritical water oxidation TOC analysis	Meeting or Teleconference Materials	16		No	No	07479A20
10.37.2	EPA-HQ-OW-2008-0517-0761		Quality Assurance, Quality Control and Method Performance Considerations for Chemical Testing: Samples Impacted by Hydraulic Fracturing Fluids - DCN 07479A19	A presentation on quality assurance and quality control and method performance considerations for chemical testing, focusing on samples impacted by hydrofracking fluids.	Meeting or Teleconference Materials	13		No	No	07479A19
10.37.2	EPA-HQ-OW-2008-0517-0761	02/24/2011	Inorganic Geochemistry of Pennsylvania Marcellus Flowback Waters - DCN 07479A18	A presentation on the inorganic geochemistry of Pennsylvania Marcellus flowback waters.	Meeting or Teleconference Materials	48		No	No	07479A18

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10.37.2	EPA-HQ-OW-2008-0517-0761		Tracing Fracturing Fluid Movement with Chemical and Gamma-Emitting Tracers with Verification by Microseismic Recording - DCN 07479A14	A presentation on tracking fracture fluids movement with chemical and gamma-emitting tracers with verification by microseismic recording.	Meeting or Teleconference Materials	15		No	No	07479A14
10.37.2	EPA-HQ-OW-2008-0517-0761		Practical Quantization Limits, Method Detection Limits, Interferences and Dilution Challenges in Fracturing Fluid Analyses - DCN 07479A21	A presentation on field and analytical challengers, focusing on practical quantitation limits, method detection limits, interferences and dilution challenges.	Meeting or Teleconference Materials	19		No	No	07479A21
10.37.2	EPA-HQ-OW-2008-0517-0761		Elucidating Water Contamination by Fracturing Fluids and Formation Waters from Gas Wells: Integrating Isotopic and Geochemical Fingerprints - DCN 07479A16	A presentation on elucidating water contamination by fracturing fluids and formation waters from gas wells and integrating isotopic and geochemical tracers.	Meeting or Teleconference Materials	25		No	No	07479A16
10.37.2	EPA-HQ-OW-2008-0517-0761		Designing a Water Quality Program for Shale Exploration - DCN 07479A15	A presentation on designing a water quality program, including baseline water testing, frac fluid testing, and water quality monitoring.	Meeting or Teleconference Materials	13		No	No	07479A15
10.37.2	EPA-HQ-OW-2008-0517-0761		Isotopic Tracing of Groundwater Contamination: Techniques, Applications, and Practical Considerations - DCN 07479A17	A presentation on isotopic tracers of groundwater contamination, including information on techniques, applications, and considerations.	Meeting or Teleconference Materials	11		No	No	07479A17

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10.37.2	EPA-HQ-OW-2008-0517-0761		CBI_Radiochemical Analytical Challenges with Hydraulic Fracturing Fluids - DCN 07479A22	A presentation on radiochemical analytical challenges with hydrofram fluids.	Publication Copyrighted Material	15		Yes	Yes	07479A22
10.37.2	EPA-HQ-OW-2008-0517-0761		Analytical Challenges of Radionuclides in Brines - DCN 07479A23	A presentation on the analytical challenges of precise Ra measurements in brine.	Meeting or Teleconference Materials	11		No	No	07479A23
10.37.2	EPA-HQ-OW-2008-0517-0762		Overview of the Well Construction Sessions - DCN 07480A1	A presentation on well construction and operations.	Meeting or Teleconference Materials	7		No	No	07480A01
10.37.2	EPA-HQ-OW-2008-0517-0762		Production Casing Design Considerations - DCN 07480A5	A presentation on production casing design considerations.	Meeting or Teleconference Materials	37		No	No	07480A05
10.37.2	EPA-HQ-OW-2008-0517-0762		Well Planning and Construction Techniques - DCN 07480A4	A presentation on well planning and construction in the Haynesville Shale in TX.	Meeting or Teleconference Materials	12		No	No	07480A04

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10.37.2	EPA-HQ-OW-2008-0517-0761	02/24/2011	The Origin of Some Natural Gases in Permian through Devonian Age Systems in the Northern Appalachian Basin and the Relationship to Incidents of Stray Gas Migration - DCN 07479A13	A presentation on the origin of some natural gases in Permian through Devonian Age systems in the Appalachian Basin and the relationship to incidents of stray gas migration.	Meeting or Teleconference Materials	22		No	No	07479A13
10.37.2	EPA-HQ-OW-2008-0517-0715	03/25/2011	Contaminant Characterization of Effluent from PA Brine Treatment Josephine Facility - DCN 07472	A study on the contaminant characterization of effluent from PA Brine Treatment Inc., Josephine Facility that is being released into Blacklick Creek in Indiana County, PA.	Report	118		No	No	07472
10.37.2	EPA-HQ-OW-2008-0517-0762		Well Completion Methods for Aquifer Protection - DCN 07480A3	A presentation on well completion methods for aquifer protection, focusing on the Haynesville Shale in TX.	Meeting or Teleconference Materials	12		No	No	07480A03
10.37.2	EPA-HQ-OW-2008-0517-0762		Public Water Sources and Hydraulic Fracturing – A State Drinking Water Perspective - DCN 07480A2	A presentation on public water sources and hydraulic fracturing, focusing on Utah's drinking water perspective.	Meeting or Teleconference Materials	18		No	No	07480A02
10.37.2	EPA-HQ-OW-2008-0517-0761		Unconventional Fracturing Fluids: What, Where, Why? - DCN 07479A5	A presentation on unconventional fracturing fluids compared to conventional frac fluids.	Meeting or Teleconference Materials	33		No	No	07479A05

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10.37.2	EPA-HQ-OW-2008-0517-0716	09/01/2009	Well Permit Issuance for Horizontal Drilling and HVHF to develop Marcellus Shale - DCN 07473	A report on well permit issuance for horizontal drilling and high-volume hydraulic fracturing (HVHF) to develop the Marcellus Shale and other low-permeability gas reservoirs.	Publication Other Government	804		No	No	07473
10.37.2	EPA-HQ-OW-2008-0517-0714	10/08/2009	Brush Run Spill Report - DCN 07471	A frac water spill at Brush Run (Range Resources) violation reported on 10/7/09 involving a fish kill and failure to properly notify.	Report	24		No	No	07471
10.37.2	EPA-HQ-OW-2008-0517-0762		Well Construction Practices in the Marcellus - DCN 07480A6	A presentation on well construction practices in the Marcellus.	Meeting or Teleconference Materials	8		No	No	07480A06
10.37.2	EPA-HQ-OW-2008-0517-0714		Brush Run Lab Spill Samples - DCN 07471A1	Laboratory samples from a frac water spill at Brush Run (Range Resources) measuring concentrations of contaminants at various sample locations.	Data	1		No	No	07471A1
10.37.2	EPA-HQ-OW-2008-0517-0761		HF Fluid Considerations in Marcellus Shale Completions - DCN 07479A1	A presentation on hydraulic fracturing fluid considerations in Marcellus Shale completions.	Meeting or Teleconference Materials	11		No	No	07479A01

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10.37.2	EPA-HQ-OW-2008-0517-0761		High Rate HF in Non-Marcellus Unconventional Shale - DCN 07479A2	A presentation on high rate hydraulic fracturing additives in non-Marcellus unconventional shales.	Meeting or Teleconference Materials	24		No	No	07479A02
10.37.2	EPA-HQ-OW-2008-0517-0715	03/25/2011	Contaminant Characterization of Effluent from PA Brine Treatment Josephine Facility_Abstract - DCN 07472A1	An abstract on the study of the contaminant characterization of effluent from PA Brine Treatment Inc., Josephine Facility that is being released into Blacklick Creek in Indiana County, PA.	Report	4		No	No	07472A1
10.37.2	EPA-HQ-OW-2008-0517-0761	02/24/2011	Old vs. New Trends in HF Chemicals - DCN 07479A4	A presentation on old versus new trends in hydraulic fracturing (HF) chemicals.	Meeting or Teleconference Materials	11		No	No	07479A04
10.37.2	EPA-HQ-OW-2008-0517-0761		Distinguishing the Source of Natural Gas Accumulations with a Combined Gas and Co-Produced Formation Water Geochemical Approach: A Case Study from the Appalachian Basin - DCN 07479A12	A presentation on a case study from the Appalachian Basin about distinguishing the source of natural gas accumulations with a combined gas and co-produced formation water geochemical approach.	Meeting or Teleconference Materials	15		No	No	07479A12
10.37.2	EPA-HQ-OW-2008-0517-0761		Produced Formation Water Sample Results from Shale Plays - DCN 07479A6	A presentation on produced formation water sample results from shale plays.	Meeting or Teleconference Materials	16		No	No	07479A06

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10.37.2	EPA-HQ-OW-2008-0517-0761		Trace Metal Geochemistry and Mobility in the Marcellus Formation - DCN 07479A7	A presentation on trace metal geochemistry and mobility in the Marcellus Shale formation.	Meeting or Teleconference Materials	13		No	No	07479A07
10.37.2	EPA-HQ-OW-2008-0517-0761		Fracture Fluid Additives and Formation Degradations - DCN 07479A8	A presentation on fracture fluid additives and formation degradations	Meeting or Teleconference Materials	36		No	No	07479A08
10.37.2	EPA-HQ-OW-2008-0517-0761	02/24/2011	What Can You Expect or Not – Chemical Breakdown and Degradation - DCN 07479A9	A presentation on sources of constituents and the presence of salts, organics, metals, and others.	Meeting or Teleconference Materials	8		No	No	07479A09
10.37.2	EPA-HQ-OW-2008-0517-0761		Evaluation of Radionuclides as Degradation Products of Host Materials in Response to Altered Fluid Chemistry Environment - DCN 07479A10	A presentation on evaluating interactions of fracturing fluids and degradation products with radionuclides contained in organic-rich solid-phase host materials	Meeting or Teleconference Materials	9		No	No	07479A10
10.37.2	EPA-HQ-OW-2008-0517-0761		Chemical and Isotopic Tracers of Natural Gas and Formation Waters in Fractured Shales - DCN 07479A11	A presentation on the chemical and isotopic tracers of natural gas and formation waters in fractured shales.	Meeting or Teleconference Materials	16		No	No	07479A11

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10.37.2	EPA-HQ-OW-2008-0517-0761		Cross-link and Linear Gel Composition - DCN 07479A3	A presentation on crosslinked and linear gel composition in fracturing fluids.	Meeting or Teleconference Materials	11		No	No	07479A03
10.37.2	EPA-HQ-OW-2008-0517-0764		Shale Frac Sequential Flowback Analyses and Reuse Implications - DCN 07482A12	A presentation on shale frac sequential flowback analyses and reuse implications.	Meeting or Teleconference Materials	21		No	No	07482A12
10.37.2	EPA-HQ-OW-2008-0517-0764		Wastewater from Gas Development: Chemical Signatures in the Monongahela Basin - DCN 07482A23	A presentation on wastewater from gas development and chemical signatures in the Monongahela Basin.	Meeting or Teleconference Materials	31		No	No	07482A23
10.37.2	EPA-HQ-OW-2008-0517-0764		Underground Injection Wells for Produced Water Disposal - DCN 07482A22	A presentation on underground injection wells for produced water disposal.	Meeting or Teleconference Materials	28		No	No	07482A22
10.37.2	EPA-HQ-OW-2008-0517-0764		Simple Modeling of the Disposition of Fluids On-Site in a Pit - DCN 07482A21	A presentation on simple modeling of the disposition of fluids on-site in a pit.	Publication Copyrighted Material	18		Yes	No	07482A21

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10.37.2	EPA-HQ-OW-2008-0517-0764		Water Quality in the Development Area of the Marcellus Shale Gas in Pennsylvania and the Implications on Discerning Impacts from Hydraulic Fracturing - DCN 07482A20	A presentation on hydraulic fracturing and safe drinking water.	Meeting or Teleconference Materials	28		No	No	07482A20
10.37.2	EPA-HQ-OW-2008-0517-0764		Novel and Emerging Technologies for Produced Water Treatment - DCN 07482A19	A presentation on novel and emerging technologies for produced water treatment.	Meeting or Teleconference Materials	26		No	No	07482A19
10.37.2	EPA-HQ-OW-2008-0517-0764		Treatment of Shale Gas Produced Water for Discharge - DCN 07482A18	A presentation on the treatment of shale gas produced water for discharge.	Meeting or Teleconference Materials	26		No	No	07482A18
10.37.2	EPA-HQ-OW-2008-0517-0764		Williams Ford, Piceance Basin: Flowback Water Reuse – Quality and Quantity - DCN 07482A17	A presentation on flowback water reuse at Williams Fork in the Piceance Basin, focusing on quality and quantity.	Meeting or Teleconference Materials	17		No	No	07482A17
10.37.2	EPA-HQ-OW-2008-0517-0764		A Closed Loop System Using a Brine Reservoir to Replace Fresh Water as the Frac Fluid Source - DCN 07482A16	A presentation on a closed loop system using a brine reservoir to replace fresh water as the frac fluid source, focusing on the minimization of fresh water use.	Meeting or Teleconference Materials	20		No	No	07482A16

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10.37.2	EPA-HQ-OW-2008-0517-0764		Toolbox Available to Treat Flowback and Produced Waters - DCN 07482A15	A presentation on a toolbox used to treat flowback and produced waters.	Meeting or Teleconference Materials	16		No	No	07482A15
10.37.2	EPA-HQ-OW-2008-0517-0764		Water Requirements for Shale Gas Activities in the Marcellus and Fayetteville Shale - DCN 07482A2	A presentation on water requirements for shale gas activities in the Marcellus and Fayetteville shale.	Meeting or Teleconference Materials	11		No	No	07482A02
10.37.2	EPA-HQ-OW-2008-0517-0764		Characterization of Marcellus Shale and Barnett Shale Flowback Waters and Technology Development for Water Reuse - DCN 07482A13	A presentation on characterization of Marcellus and Barnett Shale flowback waters and technology development for water reuse.	Meeting or Teleconference Materials	48		No	No	07482A13
10.37.2	EPA-HQ-OW-2008-0517-0720	07/01/2010	Water Management Technologies Used by Marcellus Shale Gas Producers - DCN 07477	A report on water management technologies used by Marcellus Shale gas producers.	Report	59		No	No	07477
10.37.2	EPA-HQ-OW-2008-0517-0764		A Water Chemistry Perspective on Flowback Reuse with Several Case Studies - DCN 07482A11	A presentation on a water chemistry perspective on flowback reuse, focusing on case studies.	Meeting or Teleconference Materials	28		No	No	07482A11

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10.37.2	EPA-HQ-OW-2008-0517-0764		Produced Water Reuse and Recycling Challenges and Opportunities Across Major Shale Plays - DCN 07482A10	A presentation on produced water reuse and recycling challenges and opportunities across major shale plays.	Meeting or Teleconference Materials	40		No	No	07482A10
10.37.2	EPA-HQ-OW-2008-0517-0764		Sustaining Louisiana's Fresh Water Aquifers -- A Case Study in Bringing Community and Industry Together - DCN 07482A9	A presentation on sustaining Louisiana's freshwater aquifers, focusing on a case study about bringing community and industry together.	Meeting or Teleconference Materials	14		No	No	07482A09
10.37.2	EPA-HQ-OW-2008-0517-0764		Enabling Fracturing Operations with Zero Fresh Water Withdrawals - DCN 07482A8	A presentation on enabling zero fresh water withdrawal in shale gas operations.	Meeting or Teleconference Materials	8		No	No	07482A08
10.37.2	EPA-HQ-OW-2008-0517-0764		Water Demand and Supply in the Eagle Ford Shale - DCN 07482A7	A presentation on the Eagle Ford Shale (TX) water supply and demand.	Meeting or Teleconference Materials	12		No	No	07482A07
10.37.2	EPA-HQ-OW-2008-0517-0764		An Overview of Current and Projected Shale and Tight Gas Water Use in Texas: Implication for Local Water Resources - DCN 07482A6	A presentation which covers an overview of current and projected shale and tight gas water use in Texas and the implications for local water resources.	Meeting or Teleconference Materials	21		No	No	07482A06

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10.37.2	EPA-HQ-OW-2008-0517-0764		Water Requirements and Sustainable Sources in the Barnett Shale - DCN 07482A5	A presentation on water requirements and sustainable sources in the Barnett Stale.	Meeting or Teleconference Materials	25		No	No	07482A05
10.37.2	EPA-HQ-OW-2008-0517-0764		Water Management Analysis of Hydraulic Fracturing using System Dynamic Models - DCN 07482A4	A presentation on water management analysis of hydraulic fracturing using system dynamic models	Meeting or Teleconference Materials	16		No	No	07482A04
10.37.2	EPA-HQ-OW-2008-0517-0764		Fresh, Brackish or Saline Water for Hydraulic Fracturing? What are the Options? - DCN 07482A3	A presentation on water options for hydraulic fracs: fresh, brackish, or saline.	Meeting or Teleconference Materials	25		No	No	07482A03
10.37.2	EPA-HQ-OW-2008-0517-0764		Mid-Continent Water Management for Stimulation Operations - DCN 07482A14	A presentation on mid-continent water management for stimulation operations.	Meeting or Teleconference Materials	25		No	No	07482A14
10.37.2	EPA-HQ-OW-2008-0517-0726		26R 2010 Great Oak Energy 1 Salem Twp Westmoreland PA - DCN 07487	Form 26R Chemical Analysis of Residual Waste Annual Report by the Generator, for Great Oak Energy in Salem Twp, PA, correspondences, and supplemental laboratory data.	Report	16		No	No	07487

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10.37.2	EPA-HQ-OW-2008-0517-0727		26R 2010 Keystone Clearwater Solutions Derry Twp Westmoreland PA - DCN 07488A1	Form 26R Chemical Analysis of Residual Waste Annual Report by the Generator, for Keystone Clearwater Solutions in Derry Twp, PA and supplemental laboratory data.	Report	24		No	No	07488A1
10.37.2	EPA-HQ-OW-2008-0517-0736	01/01/2011	Chemical Use in Hydraulic Fracturing - What Chemicals are Used - DCN 07498	List of chemicals used most often in hydraulic fracturing	Publication; Copyrighted Material	3	http://fracfocus.org/chemical-use/what-chemicals-are-used	Yes	No	07498
10.37.2	EPA-HQ-OW-2008-0517-0735	03/30/2011	Blueprint for a Secure Energy Future - DCN 07496	A document discussing the future of America's energy resources, including information on domestic oil and gas production, more efficient vehicles and homes, and clean energy research and development.	Publication; Other Governmental	44		No	No	07496
10.37.2	EPA-HQ-OW-2008-0517-0734		26R 2010 XTO 20 Ligonier Twp Westmoreland PA - DCN 07495	Form 26R Chemical Analysis of Residual Waste Annual Report by the Generator, for XTO Energy Inc. in Ligonier Twp, PA and supplemental laboratory data.	Report	14		No	No	07495
10.37.2	EPA-HQ-OW-2008-0517-0733		26R XTO Fairfield Twp Westmoreland - DCN 07494	Form 26R Chemical Analysis of Residual Waste Annual Report by the Generator, for XTO Energy Inc. in Fairfield Twp, PA and supplemental laboratory data.	Report	41		No	No	07494

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10.37.2	EPA-HQ-OW-2008-0517-0732		26R XTO St Clair Twp Westmoreland PA - DCN 07493	Form 26R Chemical Analysis of Residual Waste Annual Report by the Generator, for XTO Energy Inc. in St Clair Twp, PA and supplemental laboratory data.	Report	40		No	No	07493
10.37.2	EPA-HQ-OW-2008-0517-0731		26R 2009 XTO 23 N Buffalo Twp Armstrong PA - DCN 07492	Form 26R Chemical Analysis of Residual Waste Annual Report by the Generator, for XTO Energy Inc. in Center Twp, PA and supplemental laboratory data.	Report	12		No	No	07492
10.37.2	EPA-HQ-OW-2008-0517-0730		26R XTO White Twp Indiana PA - DCN 07491	Form 26R Chemical Analysis of Residual Waste Annual Report by the Generator, for XTO Energy Inc. in White Twp, PA and supplemental laboratory data.	Report	44		No	No	07491
10.37.2	EPA-HQ-OW-2008-0517-0729		26R XTO Center Twp Indiana PA - DCN 07490	Form 26R Chemical Analysis of Residual Waste Annual Report by the Generator, for XTO Energy Inc. in Center Twp, PA and supplemental laboratory data.	Report	75		No	No	07490
10.37.2	EPA-HQ-OW-2008-0517-0762	03/10/2011	Multi-Well Pad, Tight Gas, Directional Drilling Program Protects Aquifers - DCN 07480A7	A presentation on a multi-well pad, tight gas, directional drilling program that protects aquifers.	Meeting or Teleconference Materials	19		No	No	07480A07

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10.37.2	EPA-HQ-OW-2008-0517-0727		26R 2010 Keystone Clearwater Solutions 1 Derry Twp Westmoreland PA - DCN 07488	Form 26R Chemical Analysis of Residual Waste Annual Report by the Generator, for Keystone Clearwater Solutions in Derry Twp, PA, correspondences, and supplemental laboratory data.	Report	14		No	No	07488
10.37.2	EPA-HQ-OW-2008-0517-0718	04/19/2011	PADEP Calls on Natural Gas Drillers to Stop Giving Treatment Facilities Wastewater - DCN 07475	An article from the PADEP about their call to stop natural gas drillers from giving treatment facilities wastewater.	Publication; Other Governmental	1		No	No	07475
10.37.2	EPA-HQ-OW-2008-0517-0725		26R 2010 EQT Production Company 3 - DCN 07486	Form 26R Chemical Analysis of Residual Waste Annual Report by the Generator, for EQT Production Company, correspondences, and supplemental laboratory data.	Report	122		No	No	07486
10.37.2	EPA-HQ-OW-2008-0517-0724		26R 2010 Chief Oil & Gas 1 Somerset PA - DCN 07485	Form 26R Chemical Analysis of Residual Waste Annual Report by the Generator, for Chief Oil & Gas in Somerset, PA, correspondences, and supplemental laboratory data.	Report	26		No	No	07485
10.37.2	EPA-HQ-OW-2008-0517-0723		26R 2010 Cabot Oil & Gas 1 Dimock Co Susquehanna PA - DCN 07484	Form 26R Chemical Analysis of Residual Waste Annual Report by the Generator, for Cabot Oil & Gas in Dimock Co. PA, correspondences, and supplemental laboratory data.	Report	74		No	No	07484

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10.37.2	EPA-HQ-OW-2008-0517-0722	02/01/1988	Ambient Aquatic Life Water Quality Criteria for Chloride - DCN 07483	A US EPA report about the ambient aquatic life water quality criteria for chloride, dated 1988.	Publication USEPA	47		No	No	07483
10.37.2	EPA-HQ-OW-2008-0517-0764		Agenda 4 - Technical Workshop for HF Study - DCN 07482	An agenda for Technical Workshops for the Hydraulic Fracturing Study, focusing on Water Resources Management.	Meeting or Teleconference Materials	4		No	No	07482
10.37.2	EPA-HQ-OW-2008-0517-0763		Agenda 3 - Technical Workshop for HF Study - DCN 07481	An agenda for Technical Workshops for the Hydraulic Fracturing Study, focusing on Fate & Transport.	Meeting or Teleconference Materials	3		No	No	07481
10.37.2	EPA-HQ-OW-2008-0517-0762		Agenda 2 - Technical Workshop for HF Study - DCN 07480	An agenda for Technical Workshops for the Hydraulic Fracturing Study, focusing on Well Construction & Operations.	Meeting or Teleconference Materials	4		No	No	07480
10.37.2	EPA-HQ-OW-2008-0517-0761		Agenda 1 - Technical Workshop for HF Study - DCN 07479	An agenda for Technical Workshops for the Hydraulic Fracturing Study, focusing on Chemical & Analytical Methods.	Meeting or Teleconference Materials	6		No	No	07479

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10.37.2	EPA-HQ-OW-2008-0517-0721	01/06/2009	Bromide in drinking water - DCN 07478	A background document for development of WHO guidelines for drinking water quality, focusing on bromide in drinking water.	Publication Copyrighted Material	15		Yes	No	07478
10.37.2	EPA-HQ-OW-2008-0517-0717	05/16/2010	Accelerated Activity in Marcellus Shale: Update on Wells Drilled and Permitted - DCN 07474	An article on the accelerating activity in the Marcellus Shale, specifically updating the wells drilled and permitted.	Report	5		No	No	07474
10.37.2	EPA-HQ-OW-2008-0517-0728		26R XTO Brush Valley Twp Indiana PA - DCN 07489	Form 26R Chemical Analysis of Residual Waste Annual Report by the Generator, for XTO Energy Inc. in Brush Valley Twp, PA and supplemental laboratory data.	Report	22		No	No	07489
10.37.2	EPA-HQ-OW-2008-0517-0763		Fate and Transport Evaluation of Potential Release Scenarios during Hydraulic Fracturing Operations - DCN 07481A7	A presentation on considerations for fate and transport evaluation of potential release scenarios during hydraulic fracturing (HF) operations.	Meeting or Teleconference Materials	16		No	No	07481A07
10.37.2	EPA-HQ-OW-2008-0517-0762		Assessment Methods for Well Integrity during the Hydraulic Fracturing Cycle - DCN 07480A21	A presentation on assessment methods for well integrity during the hydraulic fracturing cycle	Meeting or Teleconference Materials	16		No	No	07480A21

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10.37.2	EPA-HQ-OW-2008-0517-0763		Fracing & Associated Media Composition in Colorado - DCN 07481A3	A presentation on fracking and associated media composition in CO.	Publication Copyrighted Material	27		Yes	No	07481A03
10.37.2	EPA-HQ-OW-2008-0517-0763		Role of Induced and Natural Imbibition in Fracturing Fluid Transport and Fate in Gas Shales - DCN 07481A13	A presentation on the role of induced and natural imbibition in frac fluid transport and fate in ga shales.	Meeting or Teleconference Materials	19		No	No	07481A13
10.37.2	EPA-HQ-OW-2008-0517-0763		Characterizing Mechanical and Flow Properties using Injection Falloff Tests - DCN 07481A12	A presentation on characterizing mechanical and flow properties using injection falloff tests.	Meeting or Teleconference Materials	24		No	No	07481A12
10.37.2	EPA-HQ-OW-2008-0517-0763		Flow of Gas and Water in Hydraulically Fractured Shale Gas Reservoirs - DCN 07481A11	A presentation on flow of gas and water in hydraulically fractured shale gas reservoirs.	Meeting or Teleconference Materials	14		No	No	07481A11
10.37.2	EPA-HQ-OW-2008-0517-0762		Pre & Post Well Integrity Methods for Hydraulically Fractured/Stimulated Wells - DCN 07480A22	A presentation on pre and post well integrity methods for hydraulically fractured/stimulated wells.	Meeting or Teleconference Materials	16		No	No	07480A22

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10.37.2	EPA-HQ-OW-2008-0517-0763		Fracture Growth in Layered and Discontinuous Media - DCN 07481A10	A presentation on fracture growth in layered and discontinuous media.	Meeting or Teleconference Materials	12		No	No	07481A10
10.37.2	EPA-HQ-OW-2008-0517-0719	04/01/2009	Modern Shale Gas Development in the US: A Primer - DCN 07476	A report on natural gas activity and modern shale gas development in the US, specifically about the environmental impacts and ability to deal with fast development.	Report	116		No	No	07476
10.37.2	EPA-HQ-OW-2008-0517-0763		Contaminant Characterization of Effluent from Pennsylvania Brine Treatment, Inc., Josephine Facility Being Released into Blacklick Creek, Indiana County, Pennsylvania: Conceptual Models of Exposure Pathways to Recreationalists, Private Well Water Users an	A presentation on contaminant characterization of effluent from PA brine treatment josephine facility, focusing on the implications for disposal of oil and gas flowback fluids from brine treatment plants.	Meeting or Teleconference Materials	23		No	No	07481A02
10.37.2	EPA-HQ-OW-2008-0517-0763		A Protocol to Characterize Flowback Water Contamination of Shallow Waters from Shale Gas Development - DCN 07481A8	A presentation on a protocol to identify flowback water contamination to drinking waters.	Meeting or Teleconference Materials	18		No	No	07481A08
10.37.2	EPA-HQ-OW-2008-0517-0762		Review of Stimulation Fluid Retention Mechanisms and Likelihood of Fluid Communication with Shallow Aquifers--What's New and Different Since the 2004 EPA Study? - DCN 07480A20	A presentation on stimulation fluid retention mechanisms and likelihood of fluid communication with shallow aquifers.	Meeting or Teleconference Materials	21		No	No	07480A20

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10.37.2	EPA-HQ-OW-2008-0517-0763		Fate and Transport of Select Hydraulic Fracturing Compounds of Potential Concern: Where do we go from here - DCN 07481A6	A presentation on a summary with followup information to the "fate and transport of HF compounds of potential concern" presentation.	Meeting or Teleconference Materials	7		No	No	07481A06
10.37.2	EPA-HQ-OW-2008-0517-0762		Casing Perforating Overview - DCN 07480A8	A presentation on casing perforating.	Meeting or Teleconference Materials	25		No	No	07480A08
10.37.2	EPA-HQ-OW-2008-0517-0763	03/28/2011	Fate and Transport of Select Hydraulic Fracturing Compounds of Potential Concern - DCN 07481A5	A presentation on the fate and transport of select compounds of interest in fracking fluids.	Meeting or Teleconference Materials	22		No	No	07481A05
10.37.2	EPA-HQ-OW-2008-0517-0764		How are Appropriate Water Sources for Hydraulic Fracturing Determined? Pre-development Conditions and Management of Development Phase Water Usage - DCN 07482A1	A presentation on determining appropriate water sources for hydraulic fracturing and pre-development conditions and management of development phase water usage.	Meeting or Teleconference Materials	34		No	No	07482A01
10.37.2	EPA-HQ-OW-2008-0517-0762		Risks to Drinking Water from Oil and Gas Wellbore Construction and Integrity: Case Studies and Lessons Learned - DCN 07480A24	A presentation on the risks to drinking water from oil and gas wellbore construction and integrity, focusing on case studies.	Meeting or Teleconference Materials	32		No	No	07480A24

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10.37.2	EPA-HQ-OW-2008-0517-0763		A Simple Approach Identifying Contaminants of Most Concern to Underground Drinking Water Supplies from Hydraulic Fracturing Operations - DCN 07481A1	A presentation on a simple approach for identifying contaminants of most concern to underground drinking water supplies from hydraulic fracturing operations.	Meeting or Teleconference Materials	15		No	No	07481A01
10.37.2	EPA-HQ-OW-2008-0517-0762		Cementing, Cement Quality Evaluation/Logs and Zonal Isolation for Hydraulically Fractured Wells - DCN 07480A9	A presentation on cementing, cement quality evaluations and logs, and zonal isolation for hydraulically fractured wells.	Meeting or Teleconference Materials	19		No	No	07480A09
10.37.2	EPA-HQ-OW-2008-0517-0762		Case Study for Well Integrity over a Full Life Cycle - DCN 07480A23	A presentation on well integrity narrowly defined as the prevention of fluids migration into protected water.	Meeting or Teleconference Materials	22		No	No	07480A23
10.37.2	EPA-HQ-OW-2008-0517-0763		Comparison of Hydraulic Fracture Fluid Composition with Produced Formation Water Quality Following Fracturing: Implications for Fate and Transport - DCN 07481A4	A presentation on the comparison of hydraulic fracturing fluids composition with produced formation water following fracturing , focusing on the implications for fate and transport.	Meeting or Teleconference Materials	27		No	No	07481A04
10.37.2	EPA-HQ-OW-2008-0517-0763		Rock Failure and Stimulated Volume in Hydraulic Fracturing - DCN 07481A9	A presentation on rock failure, stimulated volume, and permeability enhancement in gas shale HF.	Meeting or Teleconference Materials	18		No	No	07481A09

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10.37.2	EPA-HQ-OW-2008-0517-0762		Sustainable Fracturing Rationale to Reach Well Objectives - The Impact of Uncertainties and Complexities on Compliance Assurances - DCN 07480A18	A presentation on sustainable fracturing rationale to reach well objectives, focusing on the impact of uncertainties and complexities on compliance assurances.	Meeting or Teleconference Materials	18		No	No	07480A18
10.37.2	EPA-HQ-OW-2008-0517-0762		The Distribution of Natural Fractures Above a Gas Shale: Questions About Whether Deep Fracture Fluid Leaks into Groundwater Outside the Realm of Faulty Borehole Construction - DCN 07480A10	A presentation on the distribution of natural fractures above a gas shale, including questions about whether deep fracture fluid leaks into groundwater are outside the realm of faulty borehole construction.	Meeting or Teleconference Materials	29		No	No	07480A10
10.37.2	EPA-HQ-OW-2008-0517-0762		Evaluation of Well Records and Geophysical Logs to Determine the Presence of Freshwater, Saltwater, and Gas above the Marcellus Shale, South-Central New York - DCN 07480A11	A presentation on the evaluation of well records and geophysical logs for determining the presence of freshwater, saltwater, and gas above the Marcellus Shale in South-central NY.	Meeting or Teleconference Materials	18		No	No	07480A11
10.37.2	EPA-HQ-OW-2008-0517-0762		Fracture Design in Horizontal Shale Wells – Data Gathering to Implementation - DCN 07480A12	A presentation on fracture design in horizontal shale wells, from data gathering to implementation.	Meeting or Teleconference Materials	28		No	No	07480A12
10.37.2	EPA-HQ-OW-2008-0517-0762	03/10/2011	Evaluating Hydraulic Fracture Propagation in a Shallow Sandstone Interval - DCN 07480A13	A presentation on evaluating hydraulic fracture propagation in a shallow sandstone interval in southern TX.	Meeting or Teleconference Materials	21		No	No	07480A13

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10.37.2	EPA-HQ-OW-2008-0517-0763		Modeling Drinking Water Related Human Health Risks from Hydraulic Fracturing Additives - DCN 07481A16	A presentation on modeling drinking water related human health risks from hydraulic fracturing (HG) additives	Meeting or Teleconference Materials	33		No	No	07481A16
10.37.2	EPA-HQ-OW-2008-0517-0762		Hydraulic Fracturing in Coalbed Methane Development, Raton Basin, Southern Colorado - DCN 07480A14	A presentation on hydraulic fracturing in coalbed methane development in Raton Basin, Southern CO.	Meeting or Teleconference Materials	8		No	No	07480A14
10.37.2	EPA-HQ-OW-2008-0517-0762	03/10/2011	Fracture Design and Stimulation - Monitoring - DCN 07480A15	A presentation on fracture design and stimulation monitoring.	Meeting or Teleconference Materials	16		No	No	07480A15
10.37.2	EPA-HQ-OW-2008-0517-0762		A Case History of Tracking Water Movement Through Fracture Systems in the Barnett Shale - DCN 07480A16	A presentation on tracking water movement through the fracture systems in the Barnett Shale.	Meeting or Teleconference Materials	17		No	No	07480A16
10.37.2	EPA-HQ-OW-2008-0517-0763		Modeling Versus the Real World of Hydraulic Fracturing - DCN 07481A14	A presentation on modeling versus the real world of hydraulic fracturing (HF).	Meeting or Teleconference Materials	23		No	No	07481A14

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10.37.2	EPA-HQ-OW-2008-0517-0762		Measurements and Observations of Fracture Height Growth - DCN 07480A17	A presentation on measurements and observations of fracture height growth.	Meeting or Teleconference Materials	13		No	No	07480A17
10.37.2	EPA-HQ-OW-2008-0517-0762		Design and Rationale for a Field Experiment using Tracers in Hydraulic Fracture Fluid - DCN 07480A19	A presentation on the design and rationale for a field experiment using tracers in hydraulic fracture fluid.	Meeting or Teleconference Materials	15		No	No	07480A19
10.37.2	EPA-HQ-OW-2008-0517-0763		Modeling Philosophies and Application - DCN 07481A15	A presentation on modeling philosophies and application.	Publication Copyrighted Material	24		Yes	No	07481A15
10.38	EPA-HQ-OW-2008-0517-0785	07/22/2009	DMR Summaries for All Facilities - DCN 07223A1		Data	105		No	No	07223A1
10.38	EPA-HQ-OW-2008-0517-0783	07/24/2009	Nevada mine sites SW permit - DCN 07224A2		Data	1		No	No	07224A2

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10.38	EPA-HQ-OW-2008-0517-0783	07/24/2009	CA mine site SW NOIs - DCN 07224A1		Data	1		No	No	07224A1
10.38	EPA-HQ-OW-2008-0517-0712	09/01/2011	Ore Mining and Dressing Preliminary Study Report - DCN 07369		Publication USEPA	54		No	No	07369
10.38	EPA-HQ-OW-2008-0517-0785	07/22/2009	Form 2c of Permit Application for MN0059633 - DCN 07223A7		Form	14		No	No	07223A7
10.38	EPA-HQ-OW-2008-0517-0785	07/22/2009	Form 2c of Permit Application for MN0057207 - DCN 07223A6		Form	34		No	No	07223A6
10.38	EPA-HQ-OW-2008-0517-0785	07/22/2009	Form 2c of Permit Application for MN0052493 - DCN 07223A5		Form	64		No	No	07223A5

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10.38	EPA-HQ-OW-2008-0517-0785	07/22/2009	Form 2c of Permit Application for MN0052116 - DCN 07223A4		Form	28		No	No	07223A4
10.38	EPA-HQ-OW-2008-0517-0631	05/10/2001	Stormwater Information for Nevada - DCN 07225A11		Data	343		No	No	07225A11
10.38	EPA-HQ-OW-2008-0517-0785	07/22/2009	Form 2c of Permit Application for MN0001465 - DCN 07223A3		Form	14		No	No	07223A3
10.38	EPA-HQ-OW-2008-0517-0839	09/20/2010	Updated Ore Mining Master Facility List - DCN 07228		Data	8		No	No	07228
10.38	EPA-HQ-OW-2008-0517-0785	07/22/2009	Form 2c of Permit Application for MND07344733 - DCN 07223A2		Form	38		No	No	07223A2

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10.38	EPA-HQ-OW-2008-0517-0631	03/30/2000	Stormwater Monitoring Data - BHP Florence Mine - DCN 07225A01		Data	14		No	No	07225A01
10.38	EPA-HQ-OW-2008-0517-0631	08/28/2009	AZ Copper Mines - Comparison of Storm Water Requirements in Individual NPDES Permits - DCN 07225A10		Data	3		No	No	07225A10
10.38	EPA-HQ-OW-2008-0517-0631	03/30/2001	Stormwater Monitoring Data - Sierrita Mine - DCN 07225A08		Data	6		No	No	07225A08
10.38	EPA-HQ-OW-2008-0517-0631	07/05/2001	Stormwater Monitoring Data - Silver Bell Mine - DCN 07225A09		Data	70		No	No	07225A09
10.38	EPA-HQ-OW-2008-0517-0784	08/04/2009	DMR Data for AZ0020401 (Pinto Valley Mine) - DCN 07226A3		Data	40		No	No	07226A3

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10.38	EPA-HQ-OW-2008-0517-0784	08/04/2009	DMR Data for AZ0022705 (Morenci Mine) - DCN 07226A5		Data	18		No	No	07226A5
10.38	EPA-HQ-OW-2008-0517-0784	10/27/2008	DMR Data for AZ0024350 (Lower Pinal Creek WTP) - DCN 07226A6		Data	33		No	No	07226A6
10.38	EPA-HQ-OW-2008-0517-0784	08/04/2009	DMR Data for AZ0020389 (Resolution Copper Superior Operations) - DCN 07226A2		Data	6		No	No	07226A2
10.38	EPA-HQ-OW-2008-0517-0784	08/04/2009	DMR Data for AZ0024546 (Iron King WTP) - DCN 07226A7		Data	18		No	No	07226A7
10.38	EPA-HQ-OW-2008-0517-0784	08/04/2009	DMR Data for AZ0000035 (Ray Mine) - DCN 07226A1		Data	15		No	No	07226A1

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10.38	EPA-HQ-OW-2008-0517-0784	08/04/2009	DMR Data for AZ0024597 (Asarco Mission Complex) - DCN 07226A8		Data	90		No	No	07226A8
10.38	EPA-HQ-OW-2008-0517-0784	08/04/2009	Epa Mines Info for Arizona - DCN 07226A9		Data	1		No	No	07226A9
10.38	EPA-HQ-OW-2008-0517-0630	03/02/2007	NPDES Permit NV0021962 Termination - DCN 07227A1		Other	1		No	No	07227A1
10.38	EPA-HQ-OW-2008-0517-0630	07/29/1998	NPDES Permit NV0021962 - DCN 07227		Permit, Registration	24		No	No	07227
10.38	EPA-HQ-OW-2008-0517-0631	01/24/1992	NOV and Stormwater Monitoring Data - Copper Cities Mine - DCN 07225A03		Data	30		No	No	07225A03

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10.38	EPA-HQ-OW-2008-0517-0785	07/22/2009	Submittal for Info from MPCA - DCN 07223		Letter, Memorandum, Email	3		No	No	07223
10.38	EPA-HQ-OW-2008-0517-0784	08/04/2009	Email from Mike Tenczar Re: Active Ore Mines with HPDES Permits in Arizona - DCN 07226		Letter, Memorandum, Email	2		No	No	07226
10.38	EPA-HQ-OW-2008-0517-0631	10/16/2003	Stormwater Monitoring Data - Copper Queen Mine - DCN 07225A04		Data	36		No	No	07225A04
10.38	EPA-HQ-OW-2008-0517-0631	03/21/2001	Stormwater Monitoring Data - BHP Superior Mine - DCN 07225A02		Data	47		No	No	07225A02
10.38	EPA-HQ-OW-2008-0517-0631	03/31/2000	Stormwater Monitoring Data - Morenci Mine - DCN 07225A05		Data	45		No	No	07225A05

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10.38	EPA-HQ-OW-2008-0517-0631	03/30/2000	Stormwater Monitoring Data - Pinto Valley Mine - DCN 07225A06		Data	21		No	No	07225A06
10.38	EPA-HQ-OW-2008-0517-0783	07/24/2009	Submittal Email from John Tinger - DCN 07224		Letter, Memorandum, Email	2		No	No	07224
10.38	EPA-HQ-OW-2008-0517-0631	10/28/2003	Stormwater Monitoring Data - San Manuel Mine - DCN 07225A07		Data	283		No	No	07225A07
10.38	EPA-HQ-OW-2008-0517-0629	07/27/2009	List of Active Ore Mines corrected - DCN 07222		Data	1		No	No	07222
10.38	EPA-HQ-OW-2008-0517-0628	03/04/2009	Mining Facilities in Region 8 States - DCN 07221		Data	4		No	No	07221

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10.38	EPA-HQ-OW-2008-0517-0627	03/01/2010	Site Visit Report: Arizona Copper Mines - DCN 07219	From September 14 to 17, 2009, EPA and ERG conducted site visits of copper mining facilities operated by FCX.	Report	67		No	No	07219
10.38	EPA-HQ-OW-2008-0517-0784	08/04/2009	DMR Data for AZ0022268 (Bagdad Mine) - DCN 07226A4		Data	38		No	No	07226A4
10.38	EPA-HQ-OW-2008-0517-0631	09/28/2010	Cover Page - Discharge Data for Select Arizona Ore Mining Facilities - DCN 07225		Data	1		No	No	07225
10.39	EPA-HQ-OW-2008-0517-0610	11/01/2004	SC Department of Health and Environmental Control. National Pollution Discharge System Permit NPDES – SC0001333 – Eastman, SC. (November 1, 2004) - DCN 07325	NPDES Permit for SC0001333	Permit, Registration	41		No	No	07325
10.39	EPA-HQ-OW-2008-0517-0609	06/08/2009	Texas Commission on Environmental Quality. Notice of Application and Preliminary Decision for Water Quality TPDES Permit Amendment for Industrial Wastewater for NPDES TX0006017 – Oxea Bay City Plant, Bay City, TX. - DCN 07299	NPDES Permit TX0006017	Permit, Registration	2		No	No	07299

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10.39	EPA-HQ-OW-2008-0517-0611	08/23/2004	SC Department of Health and Environmental Control. National Pollution Discharge System Permit NPDES Fact Sheet – SC0001333 – Eastman, SC. (August 23, 2004) - DCN 07326	NPDES Fact Sheet for SC0001333	Fact/Data Sheet	45		No	No	07326
10.39	EPA-HQ-OW-2008-0517-0767	08/27/2010	Notes from Telephone Conversation between Sylvia Martinez, Oxea Bay City Plant, and Lauren Wingo, Eastern Research Group, Inc. (August 27, 2010) - DCN 07294	Discussion regarding Oxea Bay City Plant's chlorine discharges and flow data in the 2008 DMR database.	Meeting or Teleconference	2		No	No	07294
10.39	EPA-HQ-OW-2008-0517-0766	06/29/2010	Notes from Telephone Conversation between Jason Martin, MPM Silicones, LLC, and Elizabeth Sabol, Eastern Research Group, Inc. (June 29, 2010) - DCN 07293	Discussion regarding 2008 DMR discharges including nickel, copper, HCB, and BAP.	Meeting or Teleconference	2		No	No	07293
10.39	EPA-HQ-OW-2008-0517-0770	07/06/2010	Notes from Telephone Conversation between Linda Simmons, West Virginia Department of Environmental Quality, and Elizabeth Sabol, Eastern Research Group, Inc. (July 6, 2010) - DCN 07297	Discussion regarding PAC discharges in the 2008 DMR database from EI DuPont DeNemours in West Virginia	Meeting or Teleconference	1		No	No	07297
10.39	EPA-HQ-OW-2008-0517-0769	07/13/2010	E-mail Communication between Troy Sampey, Chevron Oronite Co., and Elizabeth Sabol, Eastern Research Group, Inc. (July 13, 2010) - DCN 07296	Discussion regarding 2008 DMR clarification for Chevron Oronite - Oak Point Plant and all corresponding attachments	Letter, Memorandum, Email	23		No	No	07296

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10.39	EPA-HQ-OW-2008-0517-0768	08/30/2010	Notes from Telephone Conversation between Tommy Miller, Lyondell Bassel, and Lauren Wingo, Eastern Research Group, Inc. (August 30, 2010) - DCN 07295	Discussion regarding Channelview's chlorine discharges and flow data in the 2008 DMR database.	Meeting or Teleconference	2		No	No	07295
10.39	EPA-HQ-OW-2008-0517-0608	01/15/2004	Texas Commission on Environmental Quality. Water Discharge Permit for NPDES TX0003531 – Channelview Complex, Channelview, TX. - DCN 07298	NPDES Permit TX0003531	Permit, Registration	51		No	No	07298
10.42	EPA-HQ-OW-2008-0517-0772	04/30/2010	Notes from E-mail Communication between Mary Bachynsky, Formosa, and William Swietlik, US EPA and Samantha Lewis, US EPA (April 30, 2010) - DCN 07322	Discussion regarding the 2008 TRI dioxin distribution for the Formosa facility.	Letter, Memorandum, Email	7		No	No	07322
10.42	EPA-HQ-OW-2008-0517-0771	09/13/2010	Telephone and E-mail communication with Gordon Smith, Bayer CropScience INstitute, and Lauren Wingo, Eastern Research Group, Inc. (September 13, 2010) - DCN 07268	Discussion regarding Bayer CropScience's 2008 pesticide reporting and all corresponding attachments.	Meeting or Teleconference	8		No	No	07268
10.43	EPA-HQ-OW-2008-0517-0773	02/15/2010	Notes from Telephone Conversation between Jeff Noga, ExxonMobil Oil Corp., and Jessica Wolford, Eastern Research Group, Inc. (February 15, 2010) - DCN 07303	Discussion regarding Joilet Refinery's hexachlorobenze discharges in the 2008 TRI database	Meeting or Teleconference	1		No	No	07303

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10.47	EPA-HQ-OW-2008-0517-0774	03/12/2009	Telephone conversation with Dave Birkholtz of City of Loudoun, TN POTW and Eleanor Codding of Eastern Research Group, Inc. (March 12, 2009) - DCN 07300	Discussion regarding carbon disulfide discharges in the 2007 DMR Database	Meeting or Teleconference	1		No	No	07300
10.47	EPA-HQ-OW-2008-0517-0775	07/08/2010	E-mail communication with Don Blazer of Flexco Corp. in Tuscumbia, AL and Elizabeth Sabol of Eastern Research Group, Inc. (July 8, 2010) - DCN 07301	Dicussion and supporting documentation regarding 2008 DMR data	Letter, Memorandum, Email	3		No	No	07301
10.47	EPA-HQ-OW-2008-0517-0612	06/23/2006	Alabama Department of Environmental Management. Nation Pollution Discharge Elimination System Permit - AL0050377 - Flexco Corporation. Tuscumbia, AL (June 23, 2006) - DCN 07331	NPDES Permit for AL0050377	Permit, Registration	30		No	No	07331
10.54	EPA-HQ-OW-2008-0517-0613	07/01/2003	SC Department of Health and Environmental Control. Nation Pollutaiton Discharge Elimination System Permit - SC0023264 - Kawashima Textile. Lugoff, SC (July 1, 2003) - DCN 07332	NPDES Permit for SC0023264	Permit, Registration	69		No	No	07332
10.54	EPA-HQ-OW-2008-0517-0614	08/04/2003	SC Department of Health and Environmental Control. Nation Pollutaiton Discharge Elimination System Permit Fact Sheet - SC0023264 - Kawashima Textiles. Lugoff, SC (August 4, 2003) - DCN 07333	NPDES Fact Sheet for SC0023264	Fact/Data Sheet	5		No	No	07333

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10.54	EPA-HQ-OW-2008-0517-0777	09/23/2010	Telephone communication with Melinda Vickers, South Carolina Department of Health and Environmental Control, and Elizabeth Sabol, Eastern Research Group, Inc. (September 23, 2010) - DCN 07308	Discussion regarding toxaphene discharges at Mohawk Industries in the 2008 DMR database.	Meeting or Teleconference	1		No	No	07308
10.54	EPA-HQ-OW-2008-0517-0776	09/07/2010	E-mail Communication with John Gettys, Deroyal Textiles, and Lauren Wingo, Eastern Research Group, Inc. "RE: DMRs Clarification Needed for Deroyal Textiles - SC0002518 - DCN 07302	Discussion regarding aldrin discharges in the 2008 DMR database	Letter, Memorandum, Email	1		No	No	07302
10.54	EPA-HQ-OW-2008-0517-0778	09/02/2010	Telephone and E-mail communication with Denise Wood, Mohawk Industries, and Elizabeth Sabol and Lauren Wingo, Eastern Research Group, Inc. (September 2, 2010) - DCN 07309	Discussion regarding 2008 discharges from Mohawk Industries Oak River Plant and Lyerly Plant.	Meeting or Teleconference	5		No	No	07309
10.55	EPA-HQ-OW-2008-0517-0779	03/15/2010	Notes from Telephone Conversation between Jane House, Carolina Pole – Leland, and Elizabeth Sabol, Eastern Research Group, Inc. (March 15, 2010) - DCN 07258	Discussion regarding 2008 TRI dioxin distribution and dioxin load reported by Carolina Pole - Leland and all corresponding attachments.	Meeting or Teleconference	26		No	No	07258
10.55	EPA-HQ-OW-2008-0517-0780	03/17/2010	Notes from Telephone Conversation between Dave Rayna, Former Koppers, and Elizabeth Sabol, Eastern Research Group, Inc. (March 17, 2010) - DCN 07262	Discussion regarding TCDD concentrations reported to DMR in 2008.	Meeting or Teleconference	1		No	No	07262

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10.57	EPA-HQ-OW-2008-0517-0781	06/25/2010	E-mail communication between Kevin Honohan, Clean Harbors Deer Park, and Eleanor Coddling, Eastern Research Group, Inc. (June 25, 2010) - DCN 07282	E-mail communication confirming 2008 DMR data for hexachlorophene discharges and all corresponding attachments.	Letter, Memorandum, Email	10		No	No	07282
11.03	EPA-HQ-OW-2008-0517-0617	01/01/2008	US EPA Region 2 Enforcement of Bacardi Rum Facility PR0000591 - DCN 07330	Explanation of US EPA Region 2 enforcement of discharges from PR0000591	Data	7		No	No	07330
11.03	EPA-HQ-OW-2008-0517-0782	07/22/2010	Notes from Telephone Conversation between Karen O'Brien, EPA Region 2, and Eleanor Coddling, Eastern Research Group, Inc. (July 22, 2010) - DCN 07305	Discussion regarding Barcidi Rum Facility sulfide discharges in the 2008 DMR database.	Meeting or Teleconference	1		No	No	07305
11.03	EPA-HQ-OW-2008-0517-0616	07/01/2008	National Pollutant Discharge Elimination System Permit – PR0000591 – Bacardi Corporation – Cataño, Puerto Rico. (July 1, 2008) - DCN 07270	NPDES Permit PR0000591	Permit, Registration	41		No	No	07270
11.03	EPA-HQ-OW-2008-0517-0615	12/12/2007	National Pollutant Discharge Elimination System Fact Sheet – PR0000591 – Bacardi Corporation – Cataño, Puerto Rico. (December 12, 2007) - DCN 07269	NPDES Fact Sheet PR0000591	Permit, Registration	33		No	No	07269

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17.07	EPA-HQ-OW-2008-0517-0738	01/12/2010	RCRA and Pharmaceutical Waste Management: A Brief Federal Overview - DCN 07170	Presentation by Lisa Lauer (EPA), Office of Resource Conservation and Recovery, for the January 12, 2010 Product Stewardship Institute Call, "What do we know, or Not, About the Ultimate Disposal of Unused Pharmaceuticals." Presentation discusses RCRA, including hazardous waste requirements, listed commercial chemical products having pharmaceutical uses, and management of containers.	Speech	22	EPA ORCR	No	No	07170
17.07	EPA-HQ-OW-2008-0517-0579	01/14/2010	Pharmaceutical Drugs Found in Landfill Water - DCN 07232	The Maine DEP received the results of tests conducted on leachate from three landfills in Maine.	Publication Copyrighted Material	1	Maine DEP	Yes	No	07232
17.07	EPA-HQ-OW-2008-0517-0577	07/01/2010	State Prescription Drug Return, Reuse and Recycling Laws - DCN 07230	NCSL website provides a summary of state prescription drug programs, including legislative history, practical guidelines for consumers, description of state programs, and recent resources.	Fact/Data Sheet	14	http://www.ncsl.org/IssuesResearch/Health/StatePrescriptionDrugReturnReuseandRecycling/tabid/14425/Default.aspx	No	No	07230
17.09	EPA-HQ-OW-2008-0517-0739	09/08/2010	FRN: BMP Guide for Unused Pharmaceuticals at Health Care Facilities - DCN 07237	"EPA is requesting public comments on a draft guidance document entitled, Best Management Practices for Unused Pharmaceuticals at Health Care Facilities. The guidance is targeted at hospitals, medical clinics, doctors' offices, long-term care facilities and veterinary facilities. EPA expects that this document will help reduce the amount of pharmaceuticals that are discharged to water bodies."	Federal Register Document	1	http://www.gpoaccess.gov/fr/index.html	No	No	07237
17.09	EPA-HQ-OW-2008-0517-0582	08/26/2010	Public Notice Version: DRAFT BMP Guide for Unused Pharmaceuticals at Health Care Facilities - DCN 07238	DRAFT: The U.S. Environmental Protection Agency (EPA) conducted outreach and identified that there is near-universal interest from stakeholders to better manage unused pharmaceuticals at health care facilities, as well as general interest in EPA's guidance on managing unused pharmaceuticals. This guidance document describes Best Management Practices (BMPs) that EPA recommends to health care facilities, such as hospitals, long-term care facilities, medical clinics, and doctors' offices, when managing and disposing of unused pharmaceuticals.	Federal Register Document	43	U.S. EPA	No	No	07238

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17.09	EPA-HQ-OW-2008-0517-0580	10/29/2009	Source Reduction Demonstration Project Progress Report - DCN 07233	"The project, ending July 31, 2009, evaluated strategies for source reduction of pharmaceutical waste from a hospital into the environment, primarily through waterborne disposal (flushing) of drugs, reduction in use and wastage of hazardous medications (such as propofol), development of educational tools to improve compliance by patient care staff, and finally to disseminate this information and lessons learnt to the 550 hospitals in New York State and to the regulatory community."	Report	65	Albany Medical Center	No	No	07233
17.10	EPA-HQ-OW-2008-0517-0578	07/28/2010	Study: S.F. compost no more toxic than others - DCN 07231	Compost made from the effluent that San Franciscans flush down their toilets does not contain any more toxins than the soil treatments and animal excrement available in garden stores, according to a San Francisco Public Utilities Commission study released Tuesday.	Publication Copyrighted Material	2	San Francisco Chronicle	Yes	No	07231
17.11	EPA-HQ-OW-2008-0517-0584	01/01/2007	2007 Economic Census Summary Stats Data (NAICS 62) - DCN 07372	MS Excel file with U.S. Census data.	Data		http://censtats.census.gov/	No	No	07372
17.11	EPA-HQ-OW-2008-0517-0581	04/09/2010	Small Business Administration: U.S. Data - DCN 07234	MS Excel file with small business data for the United States.	Data	1	www.sba.gov/advo/research/data_uspdf.xls	No	No	07234
17.11	EPA-HQ-OW-2008-0517-0576	01/01/2007	County Business Patterns 2007 - DCN 07373	File with U.S. Census data	Data		http://censtats.census.gov/	No	No	07373

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17.11	EPA-HQ-OW-2008-0517-0585	01/01/2008	County Business Patterns 2008 - DCN 07374	File with U.S. Census data	Data		http://censtats.census.gov/	No	No	07374
17.11	EPA-HQ-OW-2008-0517-0583	01/01/2007	2007 Economic Census Summary Stats (NAICS 54) - DCN 07371	MS Excel file with U.S. Census data.	Data		http://censtats.census.gov/	No	No	07371
18.01	EPA-HQ-OW-2008-0517-0682	01/27/2010	Quality Assurance Project Plan for the Coalbed Methane Detailed Study Questionnaire - DCN 10029		Technical Support Document	227		No	No	10029
18.02	EPA-HQ-OW-2008-0517-0810	10/28/2008	Memorandum to Public Record: Subject, Notes from 15 October 2008 Meeting with National Tribal Water Council, Arlington, VA Regarding the Coalbed Methane Detailed Study and Information Collection Request (ICR) - DCN 10063		Letter, Memorandum, Email	21		No	No	10063
18.02	EPA-HQ-OW-2008-0517-0811	09/17/2010	Memorandum to Public Record: Subject, Notes from 19 February 2009 Meeting with the Produced Water Development Group Regarding the Reclamation of Produced Water Associated with Coalbed Methane Production - DCN 10064		Letter, Memorandum, Email	9		No	No	10064

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18.02	EPA-HQ-OW-2008-0517-0812	11/19/2009	Memorandum to Public Record: Subject, Notes from the 10 November 2009 Meeting with the Western Organization of Resource Councils on CBM Produced Water Management - DCN 10065		Letter, Memorandum, Email	42		No	No	10065
18.02	EPA-HQ-OW-2008-0517-0813	12/31/2009	Memorandum to Public Record: Subject, Notes from the 16 December 2009 Meeting with Coalbed Methane Operators (Casper, Wyoming) (Draft) - DCN 10066		Letter, Memorandum, Email	55		No	No	10066
18.03	EPA-HQ-OW-2008-0517-0685	10/29/2010	Final Site Visit Report: Drake Water Technologies, Inc. (Powder River Basin) - DCN 10032		Report	37		No	No	10032
18.03	EPA-HQ-OW-2008-0517-0691	11/01/2010	Final Site Visit Report: Anticline Disposal, LLC Jensen Facility (Pinedale Anticline) - DCN 10038		Report	77		No	Yes	10038
18.03	EPA-HQ-OW-2008-0517-0683	10/29/2010	Final Site Visit Report: Bill Barrett Corporation and Thunder Basin Environmental Consulting, Inc. (Powder River Basin) - DCN 10030		Report	24		No	Yes	10030

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18.03	EPA-HQ-OW-2008-0517-0692	11/15/2010	Final Site Visit Report: Calpet, LLC Disposal Facility (Pinedale Anticline) - DCN 10039		Report	17		No	No	10039
18.03	EPA-HQ-OW-2008-0517-0690	10/29/2010	Final Site Visit Report: 212 Resources Corporation (Pinedale Anticline) - DCN 10037		Report	30		No	No	10037
18.03	EPA-HQ-OW-2008-0517-0689	11/09/2010	Final Site Visit Report: SET Corp. (Powder River Basin) - DCN 10036		Report	27		No	No	10036
18.03	EPA-HQ-OW-2008-0517-0688	10/06/2010	Final Site Visit Report: XTO Energy, Inc. and Triad Industries, Inc. (Powder River Basin) - DCN 10035		Report	24		No	Yes	10035
18.03	EPA-HQ-OW-2008-0517-0687	11/02/2010	Final Site Visit Report: Marathon Oil Corporation and PureTech LLC (Powder River Basin) - DCN 10034		Report	30		No	Yes	10034

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18.03	EPA-HQ-OW-2008-0517-0686	11/02/2010	Final Site Visit Report: Marathon Oil Corporation, Columbian TecTank, and Blue Future Filters, Inc. (Powder River Basin) - DCN 10033		Report	27		No	Yes	10033
18.03	EPA-HQ-OW-2008-0517-0684	10/29/2010	Final Site Visit Report: Devon Energy Production Company, LP and Wastewater Solutions, Inc. (Powder River Basin) - DCN 10031		Report	45		No	Yes	10031
18.04	EPA-HQ-OW-2008-0517-0706	10/28/2009	Blank Version of the Detailed Questionnaire - DCN 10072		Form	86		No	No	10072
18.04	EPA-HQ-OW-2008-0517-0633	10/19/2009	Coalbed Methane (CBM) Study: Final Detailed Questionnaire Sample Design - DCN 07337		Study	1		No	Yes	07337
18.04	EPA-HQ-OW-2008-0517-0701	02/26/2009	Blank Version of the Screener Questionnaire - DCN 10067		Form	4		No	No	10067

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18.04	EPA-HQ-OW-2008-0517-0702	02/26/2009	MS-Excel/Blank Version of Screener Questionnaire, Items A-F - DCN 10068		Data	9		No	No	10068
18.04	EPA-HQ-OW-2008-0517-0789	01/10/2008	Memorandum to James Covington, III, U.S. EPA: Subject, Compilation of Survey Universe using HPDI, Inc., and State Data, with Summary Information (Update 2) - DCN 07349	This memo presents the methods used to compile survey universe information along with summary data	Letter, Memorandum, Email	9		No	No	07349
18.04	EPA-HQ-OW-2008-0517-0703	02/26/2009	MS-Excel/Blank Version of Screener Questionnaire, Item F only - DCN 10069		Data	6		No	No	10069
18.04	EPA-HQ-OW-2008-0517-0705	02/27/2009	Frequently Asked Questions for the Screener Questionnaire (PDF) - DCN 10071		Technical Support Document	13		No	No	10071
18.04	EPA-HQ-OW-2008-0517-0814	10/30/2009	Instruction Guide for the Detailed Questionnaire - DCN 10073		Technical Support Document	5		No	No	10073

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18.04	EPA-HQ-OW-2008-0517-0815	10/30/2009	Frequently Asked Questions for the Detailed Questionnaire - DCN 10074		Technical Support Document	30		No	No	10074
18.04	EPA-HQ-OW-2008-0517-0787	11/12/2010	Memorandum to James Covington, USEPA, Re: Modifications to the Screener Survey Database to Protect CBI and Update Information - DCN 07366	The data ERG used to replace CBI data with publicly available data and documentation of other updates.	Letter, Memorandum, Email	5		No	No	07366
18.04	EPA-HQ-OW-2008-0517-0704	02/26/2009	Instruction Guide for the Screener Questionnaire (PDF) - DCN 10070		Technical Support Document	5		No	No	10070
18.05	EPA-HQ-OW-2008-0517-0816	09/15/2010	Memorandum from Brian d'Amico, EPA, to the 304m Record - DCN 07375	Preliminary calculations to estimate volumes and pollutant loads from surface water discharges associated with CBM production. The calculations are derived from information from the detailed CBM questionnaire and other sources.	Letter, Memorandum, Email	5		No	Yes	07375
18.06	EPA-HQ-OW-2008-0517-0696	11/04/2009	Managing Flowback and Produced Water - DCN 10045	Rigorous discharge standards, aquifer protection demands and the high cost and impact of transportation are transforming the way the natural gas industry and regulatory agencies consider drilling programs and water management. 212 Resources owns and operates two water recovery "PODs" in the Anticline Wyoming area and will expand its water treatment services with two more units headed to the Vega Field in Colorado and a fifth unit to the Marcellus Shale in Pennsylvania. The 212 Resources process package includes a patented Hybrid-MVR, Turbulent-	Meeting or Teleconference Materials	1		No	No	10045

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18.06	EPA-HQ-OW-2008-0517-0802	11/05/2009	Predicting Water Quality Variability to Design Treatment Processes for Beneficial Use - DCN 10054		Meeting/ Teleconference Materials	15		No	No	10054
18.06	EPA-HQ-OW-2008-0517-0803	11/05/2009	Selection and Design of Integrated Treatment Processes for CBM Produced Water Purification - DCN 10055		Meeting/ Teleconference Materials	27		No	No	10055
18.06	EPA-HQ-OW-2008-0517-0804	11/05/2009	Beneficial Use Options and Limitations of CBM Produced Water - DCN 10056		Meeting/ Teleconference Materials	25		No	No	10056
18.06	EPA-HQ-OW-2008-0517-0699	11/04/2009	Lifecycle Water Management: Considerations and Challenges for Marcellus Shale Gas Development - DCN 10050		Publication Copyrighted Material	22		Yes	No	10050
18.06	EPA-HQ-OW-2008-0517-0700	11/05/2009	An Integrated Framework for Treatment and Management of CBM Produced Water – A Microsoft Excel©-based Tool to Help Bring Producers and Beneficial Users Together - DCN 10057		Meeting/ Teleconference Materials	1		No	No	10057

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18.06	EPA-HQ-OW-2008-0517-0805	11/05/2009	Emerging Technologies for Treatment of CBM Produced Water - DCN 10058		Meeting/ Teleconference Materials	39		No	No	10058
18.06	EPA-HQ-OW-2008-0517-0806	11/05/2009	Overview of Project Website: Produced Water Treatment and Beneficial Use Information Center - DCN 10059		Meeting/ Teleconference Materials	21		No	No	10059
18.06	EPA-HQ-OW-2008-0517-0807	11/05/2009	Coalbed Methane Produced Water – An Evolution in Treatment - DCN 10060		Meeting/ Teleconference Materials	5		No	No	10060
18.06	EPA-HQ-OW-2008-0517-0808	11/05/2009	CBNG Produced Water Reservoir Reclamation Strategies in the Powder River Basin - DCN 10061		Meeting/ Teleconference Materials	30		No	No	10061
18.06	EPA-HQ-OW-2008-0517-0809	11/05/2009	Update on EPA's Clean Water Act Review of the Coalbed Methane (CBM) Extraction Sector - DCN 10062		Meeting/ Teleconference Materials	31		No	No	10062

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18.06	EPA-HQ-OW-2008-0517-0698	11/04/2009	Drilling Fluids Chosen to Enhance the Development of Marcellus Shale - DCN 10047		Meeting or Teleconference Materials	1		No	No	10047
18.06	EPA-HQ-OW-2008-0517-0786	11/03/2009	A Hybrid Treatment Process for high TDS Oil-Field Produced Water - DCN 07148		Meeting or Teleconference Materials	1		No	No	07148
18.06	EPA-HQ-OW-2008-0517-0695	11/04/2009	The Investigation of Induced Gas Flotation (IGF) Performance at Elevated Temperatures and High Total Dissolved Solids (TDS) Produced Water - DCN 10044	Produced water is a major source of oily wastewater in oilfield sites. The volume and characteristics of this formation water differs in different parts of the world regarding the various geological specifications of the earth. However the crude oil desalting process and unit operation also impact the quality and quantity of the produced water. In the present study, the possibility of application of an innovative rotor/stator mechanical induced gas flotation(IGF) system was investigated for a somehow abnormal produced water in the Persian Gulf region	Meeting or Teleconference Materials	19		No	No	10044
18.06	EPA-HQ-OW-2008-0517-0801	11/05/2009	Regulations and Impediments for Treatment and Beneficial Use of CBM Produced Water - DCN 10053		Meeting/ Teleconference Materials	14		No	No	10053
18.06	EPA-HQ-OW-2008-0517-0697	11/04/2009	Obtaining Water to Develop Natural Gas Wells in the Marcellus Shale of Pennsylvania - DCN 10046		Meeting/ Teleconference Materials	20		No	No	10046

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18.06	EPA-HQ-OW-2008-0517-0694	11/04/2009	A New Generation of Tracers for Surface Water and Groundwater Flow - DCN 10043	EnviroGene's nanoparticle DNA-based tracers utilize novel polymer technology co-developed with the University of Nottingham and the University of Milan. The polymer is biocompatible (minimal toxicity) and biodegradable. As the tracers are DNA based, large numbers of unique tracers are available.	Meeting or Teleconference Materials	1		No	No	10043
18.06	EPA-HQ-OW-2008-0517-0796	11/04/2009	Analytical Characterization of Flowback Waters in the Field - DCN 10042	As the development of unconventional gas sources increases, larger amounts of fresh water are needed in fracturing operations and more flowback water is being produced. Water use in various gas shale plays is becoming an issue due to limited availability of water resources, transportation issues, contamination concerns and regulatory pressures. Operators and services companies, therefore, increasingly seek ways to reuse the flowback water generated from fracturing operations so as to minimize the environmental and economical impact. Frequently, the additives	Meeting or Teleconference Materials	12		No	No	10042
18.06	EPA-HQ-OW-2008-0517-0842	11/03/2009	Pretreatment Option (Membranes) for Water Based E&P Wastes - DCN 07707	This study focused primarily on produced water and spent water based drilling fluids. Reliable forecasts show that continued exploitation of unconventional resources would dramatically increase water based E&P production. Industry disposal and handling costs of water based wastes are estimated to be about 50 billion dollars yearly.	Meeting Material	27		No	No	07707
18.06	EPA-HQ-OW-2008-0517-0844	10/05/2009	Drilling & Production - Reverse Osmosis Treatment of CBM Produced Water Continues to Evolve - DCN 07705		Report	6		Yes	No	07705
18.06	EPA-HQ-OW-2008-0517-0711	09/01/2011	CBM Detailed Study Report - DCN 09999		Report	91		No	No	09999

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18.06	EPA-HQ-OW-2008-0517-0798		An Innovative Approach to Managing Produced Water and Frac Flowback in the Marcellus Shale - DCN 10049		Meeting or Teleconference Materials	31		No	No	10049
18.06	EPA-HQ-OW-2008-0517-0679	12/21/2004	Technical Review and Analysis of Kuipers' / NPRC Documents Related to the Management of CBNG Produced Water in the Powder River Basin - DCN 10025		Report	71		No	No	10025
18.06	EPA-HQ-OW-2008-0517-0649	09/01/2003	Mult-Seam Well Technology: Implications for Powder River Basin Coalbed Methane Production - DCN 07356	Discusses the evolution of the Powder River Basin for coalbed methane production and its potential.	Publication; Other Governmental	123		No	No	07356
18.06	EPA-HQ-OW-2008-0517-0650	02/10/2009	Coalbed Methane Proved Reserves and Production - DCN 07357	Table of CBM production by state by year.	Publication; Other Governmental	10		No	No	07357
18.06	EPA-HQ-OW-2008-0517-0651	10/29/2010	Natural Gas Gross Withdrawals and Production - DCN 07358	Table of production of natural gas by year and by type of withdrawal	Publication; Other Governmental	1		No	No	07358

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18.06	EPA-HQ-OW-2008-0517-0653	11/04/2010	Major Natural Gas Transportation Corridors - DCN 07360	Details the natural gas delivery network throughout the U.S.	Publication; Other Governmental	8		No	No	07360
18.06	EPA-HQ-OW-2008-0517-0656	11/11/2010	State CBM Production MCF - DCN 07364	Graph of Wyoming CBM Production from 1978 to 2010	Publication; Other Governmental	1		No	No	07364
18.06	EPA-HQ-OW-2008-0517-0658	10/01/2006	A Guide to Practical Management of Produced Water from Onshore Oil and Gas Operations in the United States - DCN 10000		Publication; Other Governmental	316		No	No	10000
18.06	EPA-HQ-OW-2008-0517-0659	10/01/1995	Development Document for Final Effluent Limitations Guidelines and Standards for the Coastal Subcategory of the Oil and Gas Extraction Point Source Category - DCN 10001		Publication; USEPA	640		No	No	10001
18.06	EPA-HQ-OW-2008-0517-0790	08/27/2010	Memorandum to Public Record: Subject, Reverse Osmosis for Produced Water Treatment - DCN 10002		Letter, Memorandum, Email	12		No	No	10002

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18.06	EPA-HQ-OW-2008-0517-0791	08/30/2010	Memorandum to Public Record: Subject, Ion Exchange for Produced Water Treatment - DCN 10003		Letter, Memorandum, Email	10		No	No	10003
18.06	EPA-HQ-OW-2008-0517-0660	01/01/2006	Observations on a Montana Water Quality Proposal - DCN 10004		Publication; USEPA	34		No	No	10004
18.06	EPA-HQ-OW-2008-0517-0799		Deep Shale Natural Gas: Abundant, Affordable, and Water Efficient - DCN 10051		Meeting or Teleconference Materials	21		No	No	10051
18.06	EPA-HQ-OW-2008-0517-0800	11/05/2009	Opportunities, Challenges, and Research Needs for Beneficial Use of CBM Produced Water - DCN 10052		Meeting/ Teleconference Materials	24		No	No	10052
18.06	EPA-HQ-OW-2008-0517-0678	09/01/2009	Produced Water Volumes and Management Practices in the United States - DCN 10024	This report provides a current estimate for the volume of produced water generated from oil and gas production in the United States. The volume estimate represents a compilation of data obtained from numerous state oil and gas agencies and several federal	Publication; Other Governmental	65		No	No	10024

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18.06	EPA-HQ-OW-2008-0517-0638	02/04/2003	Coalbed Methane (CBM) in Montana: Problems and Solutions - DCN 07343		Report	13		No	No	07343
18.06	EPA-HQ-OW-2008-0517-0797	11/04/2009	Marcellus Shale Water Management - DCN 10048		Meeting/ Teleconference Materials	11		No	No	10048
18.06	EPA-HQ-OW-2008-0517-0644	07/16/2010	Rockies Express Pipeline - DCN 07351	Details the ownership, location, and capacity of the pipeline.	Publication; Copyrighted Material	1	http://www.kne.com/business/gas_pipelines/rockies_express/ (Accessed November 11, 2010)	Yes	No	07351
18.06	EPA-HQ-OW-2008-0517-0693	11/03/2009	A Hybrid Treatment Process for high TDS Oil-Field Produced Water - DCN 10041		Meeting/ Teleconference Materials	1		No	No	10041
18.06	EPA-HQ-OW-2008-0517-0635	05/31/2002	A Comparison of Coalbed Methane Product Water Quality Versus Surface Water Quality in the Powder River Basin of Wyoming, and An Assessment of the Use of Standard Aquatic Toxicity Testing Organisms for Evaluating the Potential Effects of Coalbed Methane Product Waters - DCN 07399	Study conducted for the Wyoming Department of Environmental Quality (WYDEQ)	Study	149		No	No	07399

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18.06	EPA-HQ-OW-2008-0517-0787	08/29/2001	Let's Talk Technical, Montana's CBM EIS Status - DCN 07366	Presentation from the August 29th Montana Petroleum Association's Annual Meeting.	Speech	4		No	No	07336
18.06	EPA-HQ-OW-2008-0517-0636	03/10/2004	Powder River Biological Survey and Implications for Coalbed Methane Development - DCN 07340	Study conducted for the Power River Basin Resource Council	Study	7		No	No	07340
18.06	EPA-HQ-OW-2008-0517-0637	07/01/2007	New tools enable CBM horizontal drilling - DCN 07341		Publication; Copyrighted Material	3	< http://www.epmag.com/archives/features/536.htm >. (Accessed November 1, 2010)	Yes	No	07341
18.06	EPA-HQ-OW-2008-0517-0795	10/22/2010	Memorandum to Public Record: Subject, Notes from the 16th Annual International Petroleum & Biofuels Environmental Conference, 3 - 5 November 2009, Houston, TX - DCN 10040		Letter, Memorandum, Email	27		No	No	10040
18.06	EPA-HQ-OW-2008-0517-0788	11/10/2010	Memorandum to James Covington, U.S. EPA: Subject, Review of Prospective but Non-Producing Coalbed Methane Basins - DCN 07346	Describes possible new CBM basins with potential for strong development or large scale pilot work where current activity is limited	Letter, Memorandum, Email	20		No	No	07346

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18.06	EPA-HQ-OW-2008-0517-0667	01/01/2006	Technical Review of Proposed Changes in Montana Water Quality Standards for Coal Bed Natural Gas Produced Water - DCN 10011		Publication; Other Governmental	54		No	No	10011
18.06	EPA-HQ-OW-2008-0517-0681	12/07/2005	Petition to Amend Wyoming Water Quality Rule, Chapter 2, Appendix H - DCN 10028		Other	26		No	No	10028
18.06.1	EPA-HQ-OW-2008-0517-0680	09/01/2003	Chemical and Physical Hydrogeology of Coal, Mixed Coal-Sandstone and Sandstone Aquifers from Coal-Bearing Formations in the Alberta Plains Region, Alberta - DCN 10026		Publication; Copyrighted Materials	389	Alberta Energy and Utilities Board /Alberta Geological Survey; Earth Sciences Report 2003-04. ISBN 0-7785-1517-6	Yes	No	10026
18.06.1	EPA-HQ-OW-2008-0517-0676	12/01/2006	U.S. Geological Survey and Bureau of Land Management Cooperative Coalbed Methane Project in the Powder River Basin, Wyoming - DCN 10022		Fact/Data Sheet	6		No	No	10022
18.06.1	EPA-HQ-OW-2008-0517-0677	05/20/2009	1993 - 2006 Coalbed Natural Gas (CBNG) Regional Groundwater Monitoring Report: Powder River Basin, Wyoming - DCN 10023	This report presents and interprets the monitoring well data from the Bureau of Land Management's (BLM's) deep monitoring well network in the PRB. These data were collected from 111 monitoring wells from 1993 through 2006. The BLM deep monitoring well net	Publication; Other Governmental	137		No	No	10023

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18.06.1	EPA-HQ-OW-2008-0517-0794	11/01/2005	Oil and Gas Produced Water Research Projects at USGS - DCN 10027		Meeting/ Teleconference Materials	32		No	No	10027
18.06.1	EPA-HQ-OW-2008-0517-0843	11/01/2000	Water Produced with Coal-Bed Methane - DCN 07342	References Cited: Gas Research Institute, 1995, Atlas of gas-related produced water for 1990. Topical Report GRI-95/0016	Report	2	USGS Fact Sheet FS-156-00	No	No	07342
18.06.2	EPA-HQ-OW-2008-0517-0675	10/01/2002	High pH RO for Wastewater Treatment - DCN 10021		Publication; Copyrighted Materials	7	http://www.pollutionengineering.com	Yes	No	10021
18.06.2	EPA-HQ-OW-2008-0517-0668	10/01/2008	Emerging Trends in Desalination: A Review - DCN 10012		Publication Copyrighted Material	96	Published November 2008 by the National Water Commission, Canberra Australia. Waterlines report No 9 - October 2008.	Yes	No	10012
18.06.2	EPA-HQ-OW-2008-0517-0669	04/01/1993	Large Water System Byproducts Treatment and Disposal Cost Document - DCN 10013		Publication; USEPA	139		No	No	10013

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18.06.2	EPA-HQ-OW-2008-0517-0792	07/27/2010	Memorandum to Public Record: Subject, Notes from 29 January 2010 Teleconference with Gary Beers, Colorado Department of Public Health and Environment, on the Colorado General NPDES Permit for Produced Water Treatment Facilities (COG840000) - DCN 10014		Letter, Memorandum, Email	2		No	No	10014
18.06.2	EPA-HQ-OW-2008-0517-0670	07/01/2003	Desalting Handbook for Planners, Third Edition. July 2003 - DCN 10015	This Handbook was first published by the Office of Water Research and Technology and the Bureau of Reclamation in 1972. A second edition was published by the Bureau of Reclamation in 1977.	Publication; Other Governmental	310		No	No	10015
18.06.2	EPA-HQ-OW-2008-0517-0671	08/01/1999	Water Treatment Estimation Routine (Water) User Manual - DCN 10016	As with anything else, water treatment cost estimates are difficult to get a handle on without somewhere to begin. This document and the spreadsheet program it describes are just that - a place to begin.	Publication; Other Governmental	139		No	No	10016
18.06.2	EPA-HQ-OW-2008-0517-0672	02/07/2008	CBM-DTC Toolbox.xls - DCN 10017	The Coalbed Methane-Demineralization Treatment Cost (CBM-DTC) toolbox has been developed to predict the costs associated with treating Powder River Basin (PRB) coalbed methane (CBM) waters based on influent water characteristics, effluent water requirement.	Data	1		No	No	10017
18.06.2	EPA-HQ-OW-2008-0517-0673	01/01/1987	Water Treatment Plant Waste Management - DCN 10018		Publication; Copyrighted Materials	481	AWWA & AWWARF	Yes	No	10018

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18.06.2	EPA-HQ-OW-2008-0517-0665	09/01/2001	Membrane Concentrate Disposal: Practices and Regulation - DCN 10009	The project objective was to provide the membrane utility industry with a valuable and useful reference source focusing on characterizing and documenting membrane concentrate and backwash disposal practices and regulations.	Publication; Other Governmental	266		No	No	10009
18.06.2	EPA-HQ-OW-2008-0517-0793	07/27/2010	Memorandum to Public Record: Subject, Summary of EMIT Water Discharge Technology (an Exterran Company) held on 18 February 2010 - DCN 10020		Letter, Memorandum, Email	2		No	No	10020
18.06.2	EPA-HQ-OW-2008-0517-0664	03/01/2007	SPARRC User's Manual - DCN 10008	The U.S. Environmental Protection Agency (EPA) developed the Software Program to Ascertain Radionuclide Residual Concentrations (SPARRC) to estimate quantities and concentrations of radium and uranium in water treatment plant residuals for selected treatment.	Publication; USEPA	65		No	No	10008
18.06.2	EPA-HQ-OW-2008-0517-0707	01/01/2005	Rejection of emerging organic micropollutants in nanofiltration-reverse osmosis membrane applications - DCN 10075	The rejection of emerging trace organics by a variety of commercial reverse osmosis (RO), nanofiltration (NF), and ultralow-pressure RO (ULPRO) membranes was investigated using TFC-HR, NF-90, NF-200, TFC-SR2, and XLE spiral membrane elements (Koch Membrane	Publication; Copyrighted Materials	9	Water Environ Res. 2005 Jan-Feb;77(1):40-8.	Yes	No	10075
18.06.2	EPA-HQ-OW-2008-0517-0708	09/01/2007	Identification and Characterization of Typical Drinking Water Treatment Residuals - DCN 10076	This document is the first of three EPA documents that summarize the major technical and engineering issues related to the management of drinking water treatment residuals. EPA developed these three documents to support the Drinking Water Treatment effluent.	Publication; USEPA	29		No	No	10076

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18.06.2	EPA-HQ-OW-2008-0517-0709	12/01/2000	Technologies and Costs for Removal of Arsenic from Drinking Water - DCN 10077		Publication; USEPA	284		No	No	10077
18.06.2	EPA-HQ-OW-2008-0517-0710	04/01/1996	Technology Transfer Handbook: Management of Water Treatment Plant Residuals - DCN 10078		Publication; USEPA	306		No	No	10078
18.06.2	EPA-HQ-OW-2008-0517-0671	08/01/1999	Attachment to Water Treatment Estimation Routine (Water) User Manual - DCN 10016A1		Data	1		No	No	10016A1
18.06.2	EPA-HQ-OW-2008-0517-0672	02/07/2008	CBM-DTC TOOLBOX USER'S MANUAL - DCN 10017A1	The Coalbed Methane-Demineralization Treatment Cost (CBM-DTC) toolbox User's Manual.	Publication; Other Governmental	22		No	No	10017A1
18.06.2	EPA-HQ-OW-2008-0517-0672	05/01/2008	Toolbox to Evaluate Treatment Technologies for PRB CBM Water - DCN 10017A2	The Coalbed Methane-Demineralization Treatment Cost (CBM-DTC) toolbox Master's Thesis.	Publication; Other Governmental	187		No	No	10017A2

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18.06.2	EPA-HQ-OW-2008-0517-0674	01/01/2005	Dow Liquid Separations, DOWEX™ Ion Exchange Resins Practical Guidelines - DCN 10019		Fact/Data Sheet	9		No	No	10019
18.06.2	EPA-HQ-OW-2008-0517-0663	11/01/2009	An Integrated Framework for Treatment and Management of Produced Water: Technical Assessment of Produced Water Treatment Technologies 1st Edition - DCN 10007	This report presents a comprehensive literature review and technical assessment to evaluate existing and emerging technologies that have been used for treatment of produced water or novel technologies that could be tested and considered in the future.	Report	158		No	No	10007
18.06.2	EPA-HQ-OW-2008-0517-0662	03/31/2008	Seawater desalination in Australia and the Perth experience—a sustainable solution - DCN 10006		Meeting/ Teleconference Materials	11		No	No	10006
18.06.2	EPA-HQ-OW-2008-0517-0661	12/01/2004	Committee Report: Current Perspectives on Residuals Management for Desalting Membranes - DCN 10005		Publication; Copyrighted Materials	17	Journal AWWA 96:12:73 December 2004	Yes	No	10005
18.06.2	EPA-HQ-OW-2008-0517-0639	01/01/2005	Agency Focus on Desalination: The Underground Injection Control (UIC) Program Outlook - DCN 07344		Other	1		No	No	07344

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18.06.2	EPA-HQ-OW-2008-0517-0666	01/01/2008	Produced water treatment by nanofiltration and reverse osmosis membranes - DCN 10010	Produced water, water that is co-produced during oil and gas manufacturing, represents the largest source of oily wastewaters. Given high oil and gas prices, oil and gas production from non-conventional sources such as tar sands, oil shale and coal bed methane.	Publication; Copyrighted Materials	9	Journal of Membrane Science 322 (2008) 162-170.	Yes	No	10010
18.07	EPA-HQ-OW-2008-0517-0648	03/02/2009	Suncor 40-F 2008 - DCN 07355	Suncor's 40-F financial filing with the SEC	Form	100		No	No	07355
18.07	EPA-HQ-OW-2008-0517-0641	07/20/2010	Memorandum to James Covington, U.S. EPA: Subject, Technical/Economic Profiles of Major Producing Coalbed Methane Basins in the United States - DCN 07347	Outlines San Juan, Powder River, Appalachian, Raton, Black Warrior, Unita-Piceance, Cherokee/Forest City, Arkoma basins in terms of resource potential, development/production history, market/access/environmental characteristics	Other	40		No	No	07347
18.07	EPA-HQ-OW-2008-0517-0642	03/04/2009	BP America 20-F 2008 - DCN 07348	BP America's 20-F 2008 financial filings with the US SEC.	Form	199		No	No	07348
18.07	EPA-HQ-OW-2008-0517-0643	03/12/2009	GeoMet 10-K 2008 - DCN 07350	Geomet's 10-K financial filing with the US SEC.	Form	104		No	No	07350

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18.07	EPA-HQ-OW-2008-0517-0645	09/21/2009	OGJ Special Report: OGJ 150/100 - DCN 07352	A special report on the 2008 earnings and production of US oil and gas producers	Publication; Copyrighted Material	98	Oil & Gas Journal 107.35(2009): 22-33	Yes	No	07352
18.07	EPA-HQ-OW-2008-0517-0647	08/22/2008	Table of Small Business Size Standards Matched to North American Industry Classification System Codes - DCN 07354	List of small business size standards matched to industries described in the North American Industry Classification System (NAICS), as modified by the Office of Management and Budget in 2007. The latest NAICS codes are referred to as NAICS 2007	Publication; Other Governmental	44		No	No	07354
18.07	EPA-HQ-OW-2008-0517-0652	11/11/2010	Natural Gas Prices - DCN 07359	Tables of wellhead prices; U.S. and by state	Publication; Other Governmental	11		No	No	07359
18.07	EPA-HQ-OW-2008-0517-0654	09/28/2010	Oil and Gas Lease Equipment and Operating Costs 1994 Through 2009 - DCN 07361	Documents trends in the costs of equipment and operating CBM wells in 4 major CBM basins	Publication; Other Governmental	16		No	No	07361
18.07	EPA-HQ-OW-2008-0517-0655	04/01/2010	Annual Energy Outlook 2010 - DCN 07362	Presents long-term projections of energy supply, demand, and prices through 2035	Economic Analysis	231		No	No	07362

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18.07	EPA-HQ-OW-2008-0517-0657	08/04/2010	Industry Center - Major Integrated Oil & Gas - DCN 07365	Company index identifying majors	Publication; Copyrighted Material	2	http://biz.yahoo.com/ic/120_cl_all.html (Accessed November 11, 2010)	Yes	No	07365
18.07	EPA-HQ-OW-2008-0517-0646	08/04/2010	Integrated Oil/Gas - DCN 07353	Market capitalization, sales, and employee data for major oil and gas companies	Publication; Copyrighted Material	2	http://www.reuters.com/sectors/industries/rankings?industryCode=6&view=size&page=-1&sortBy=mktcap&sortdir=DESC (Accessed	Yes	No	07353
18.08	EPA-HQ-OW-2008-0517-0632	07/23/2010	Updated CBM Literature Review Database - DCN 07311		Data	1		No	No	07311
18.08	EPA-HQ-OW-2008-0517-0640	09/25/2009	CBM Lit Review Database_092509.mdb - DCN 07345	Database containing references cited in the Environmental Assessment Considerations section of the CBM Detailed Study Report.	Data	0		No	No	07345
18.08	EPA-HQ-OW-2008-0517-0634	05/25/2002	Effects of turbidity on prey consumption by prairie stream fishes - DCN 07338		Publication; Copyrighted Material	6	Transactions of the American Fisheries Society 131(2002): 1203-1208	Yes	No	07338