



User Guide to the Docket for the Proposed Effluent Limitation Guidelines & Standards for the Oil & Gas Extraction Point Source Category (40 CFR Part 435)

EPA Docket Number EPA-HQ-OW-2014-0598 (www.regulations.gov)

April 2015

DCN SGE01032

1.0 OVERVIEW

Under the Clean Water Act (CWA), EPA establishes technology-based national regulations, termed “effluent limitations guidelines and standards,” to reduce pollutant discharges from categories of industrial facilities to waters of the United States. Under the CWA, EPA similarly establishes technology-based regulations, termed “pretreatment standards,” to reduce pollutant discharges from industrial facilities to waters of the United States.

This document provides information on the docket supporting the Proposed Effluent Limitations Guidelines and Standards for the Oil and Gas Extraction Point Source Category. See the Federal Register Notice presenting EPA’s proposed regulations for the Oil and Gas Extraction Point Source Category, 80 Federal Register 18557 (7 April 2015). EPA has prepared a *subject outline* of the documents included in this docket to help you locate documents that address related topics or subjects. The subject outline for the docket is provided in Attachment 1. Attachment 2 is a complete record index listing for all of the documents supporting the proposed rulemaking for the Oil and Gas Extraction Point Source Category sorted by subject outline number. Attachment 3 is a crosswalk between DCN, citation, and EPA docket number for all documents supporting the Proposed Effluent Limitations Guidelines and Standards for the Oil and Gas Extraction Point Source Category. Attachment 4 lists the references cited in the Federal Register Notice for this proposed rulemaking by DCN and EPA Docket Number.

2.0 BACKGROUND INFORMATION ON THE DOCKET

What is the Docket and How Can I Gain to Access It?

Docket ID No. EPA-HQ-OW-2014-0598 is the official docket for EPA’s Proposed Effluent Limitations Guidelines and Standards for the Oil and Gas Extraction Point Source Category. The official docket consists of the documents specifically referenced, any public comments received, and other related information supporting this action.

The official public docket is the collection of electronic and hard copy materials that is available for public viewing at the Water Docket in the EPA Docket Center, (EPA/DC), located in the EPA Headquarters Library, EPA West, Room Number 3334, 1301 Constitution Ave., NW, Washington, DC. An electronic version of the public docket is available through a federal-wide electronic docket management system located at www.regulations.gov (Regulations.gov). You may use the Regulations.gov website to view public comments, access a listing of the contents of the official docket, and access those documents in the public docket that are available electronically.

What Materials are Included in the Docket?

EPA’s dockets, specific to regulatory actions, contain items that are collected and developed during the development of a rulemaking effort. For the Oil and Gas Extraction Point Source Category proposed rule, the docket includes information collected on the oil and gas industry, unconventional oil and gas wastewater characterization, and unconventional oil and gas wastewater management practices; correspondence and meeting summaries with industry (e.g., site visits), vendors, and other stakeholders; and analyses conducted to support the proposed rule.

Certain documents are not available in the electronic version of the public docket. These documents include but are not limited to copyright-protected material; physical objects such as maps, aerial photographs, colored charts; and information that have been claimed as confidential. Although not all docket materials may be available electronically, you may still access any of the non-confidential publicly-available docket materials at the EPA Docket Center.

Although it is a part of the official docket, Confidential Business Information (CBI) or other information whose disclosure is restricted by statute is not included in the publicly-available docket materials. Some documents are classified as CBI because entities providing the information specifically claimed certain information (e.g., operating or financial data) as CBI. Other documents are classified as CBI because release of these documents could indirectly reveal information claimed as confidential.

In support of this proposed rule, EPA conducted site visits, conference calls, and meetings with industry representatives, UOG operators, CWT facilities, and Native American tribal groups. Information in the site visit reports, conference call notes, and meeting notes may be claimed as CBI. The CBI documents are not available for public viewing. However, in an effort to make as much information available as possible, EPA has prepared “sanitized” versions of the reports. These sanitized versions, which are available for public viewing, have all CBI redacted from the text. This allows the public to view the non-CBI information within the reports.

3.0 ACCESSING INFORMATION IN THE DOCKET

How do I Find Documents in the Docket?

Water Docket in the EPA Docket Center

The official public docket is the collection of electronic and hard copy materials that is available for public viewing at the Water Docket in the EPA Docket Center, (EPA/DC), located in the EPA Headquarters Library, EPA West, Room Number 3334, 1301 Constitution Ave., NW, Washington, DC. The Public Reading Room is open from 8:30 a.m. to 4:30 p.m., Monday through Friday, excluding legal holidays. The telephone number for the Public Reading Room is (202) 566-1744, and the telephone number for the Water Docket is (202) 566-2426. You can also contact the Water Docket via e-mail: OW-Docket@epa.gov.

Regulations.gov

You will find instructions for using Regulations.gov on its Internet home page (<http://www.regulations.gov/#!/home>). Regulations.gov provides limited electronic search capabilities. If you know the Document ID Number (e.g., EPA-HQ-OW-2014-0598-0001) of the document you wish to view, you can type that number directly into the field beneath the “SEARCH for: Rules, Comments, Adjudications or Supporting Documents” heading and click Search.

If you do not know the specific Document ID Number, you can input the docket identification number (EPA-HQ-OW-2014-0598) in the field beneath the “SEARCH for: Rules, Comments, Adjudications or Supporting Documents” heading and click Search. You will now

see a listing of the contents of the official docket in the public record. The listing includes the Document Title (e.g., “Technical Development Document for Proposed Effluent Limitations Guidelines and Standards for Oil and Gas Extraction – DCN SGE00704”), Document ID Number (e.g., EPA-HQ-OW-2014-0598-0683), Date Posted (e.g., “04/07/2015”), Document Type (e.g., “Supporting & Related Material”), and other information.

You have several options to narrow your search within the docket listing by using the filters under the “Filter Results By...” heading. For example, you can specify the Document Type (e.g., Proposed Rule; Supporting & Related Material; Public Submission).

How are Documents Organized in the EPA-HQ-OW-2014-0598 Docket?

Each document in the docket has two document identification numbers. One is the Regulations.gov Document ID Number (e.g., EPA-HQ-OW-2014-0598-0683) that was assigned when EPA added the document to the official docket. The last four digits are the unique consecutively assigned Regulations.gov Document ID. The second is EPA’s internal document control number (DCN) that was assigned during the development of the proposed rulemaking (e.g., DCN SGE00704). In documents prepared for the docket, EPA typically identified references by their DCN. The DCN appears at the end of the document titles in the **Document Title** field listed in Regulations.gov (e.g., “Technical Development Document for Proposed Effluent Limitations Guidelines and Standards for Oil and Gas Extraction – DCN SGE00704”).

What is the Docket EPA-HQ-OW-2014-0598 Subject Outline?

EPA prepared a *subject outline* of the documents included in EPA-HQ-OW-2014-0598 to help you locate documents that address related topics or subjects. The subject outline for EPA-HQ-OW-2014-0598 is provided in Attachment 1.

What is the Docket EPA-HQ-OW-2014-0598 Record Index?

The docket EPA-HQ-OW-2014-0598 *record index* is a list of documents in the docket, sorted by subject outline section, available as Attachment 2 to this document. The record index summarizes certain information for each document, including the subject outline section, Regulations.gov Document ID Number, EPA DCN, document title, author, and abstract. EPA assigned each document to a subject outline section during the development of the proposed rulemaking.

The record index for the docket includes the fields shown in Table 1:

Table 1. Definitions of Fields in the Docket Record Index

Field Name	Description
Subject Outline Section	Section number from docket subject outline.
EPA Docket Number (Regulations.gov Document ID Number)	Unique document number assigned when EPA added the document to the official docket. The Document ID Number includes the Docket Number followed by a consecutive document number.
Title	Title of document.
Abstract	Additional description of document.
Author	Author of document.

Table 1. Definitions of Fields in the Docket Record Index

Field Name	Description
Date	Date of publication, issue, edition, or version. Actual date of meeting or telephone call.
Copyrighted	(Yes/No) – Materials that are copyright protected (e.g., books and other published material). These documents are not available through Regulations.gov but are only available in hard copy at the EPA Docket Center.
CBI	(Yes/No) – Materials that are claimed to be Confidential Business Information. These documents are not available through Regulations.gov or in hard copy at the EPA Docket Center.
DCN	Unique document control number (DCN) assigned during the development of the proposed rulemaking.

How do I Use the Subject Outline to Find Documents in the Docket?

Review the subject outline to determine which section may contain the documents of interest. Then, locate documents for that section in the record index and note their Regulations.gov Document ID Number. Documents available electronically can be accessed through Regulations.gov. Other documents can be reviewed at the Water Docket in the EPA Docket Center in Washington, DC. See information on the Water Docket above. You may also be able to locate copyright protected materials (e.g., books) at an academic or public library.

4.0 FURTHER INFORMATION

The primary contact regarding questions or comments on Docket ID No. EPA-HQ-OW-2014-0598 and the Proposed Effluent Limitations Guidelines and Standards for the Oil and Gas Extraction Point Source Category is provided below:

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**ATTACHMENT 1: SUBJECT OUTLINE FOR THE PROPOSED EFFLUENT LIMITATION GUIDELINES
AND STANDARDS FOR THE OIL AND GAS EXTRACTION POINT SOURCE CATEGORY**

EPA-HQ-OW-2014-0598

1.0 INDUSTRY DESCRIPTION

Includes information from stakeholders, literature, and regulations on treatment technologies, pollutants, and regulatory status; does not include information on economics or environmental impacts (see subject outline sections 4.0 and 5.0, respectively)

1.1 Industry Profile

Correspondence and general information from trade associations, industry, and others; company reports; industry statistics

1.2 Industry Regulatory Status

Relevant state regulations, permits, and other regulations applicable to the industry

1.3 Pollutant Research

Characteristics of fracturing fluid and unconventional oil and gas extraction wastewater including flow rates, volumes, and constituent concentrations

1.4 Treatment Technologies

Description of treatment technologies, including vendor information

1.5 Other Literature

Process chemistry, toxicology information, pollution and environmental concerns, and newspaper and related press articles

1.6 Public Meetings and Stakeholder Meeting Materials

Information gathered during public meetings and discussions with stakeholders in support of the proposed rule

2.0 TECHNICAL DATA

2.1 Industry-Submitted Data

2.1.1 Monitoring Data

Long-term monitoring data submittals

2.1.2 Treatment Data

Pilot- and bench-scale studies or treatment performance data submitted by operators

2.1.3 Other Submissions

Other industry and industry trade association technical data submissions, discharge data, treatment data, and performance data specific to unconventional oil and gas extraction not included elsewhere

2.2 Site Visits

Final drafts of site visit reports, including information gathered during the site visit and any planning and/or follow-up phone calls.

2.3 Supplementary Data

Material which cannot be easily filed in one of the other background support components, but which is helpful or essential to describe the industry or its current status, such as the rationale for the development of regulations

3.0 TECHNICAL DATA INTERPRETATION

Includes evaluations for subcategorization options, pollutants of concern, technology options, and best management practices; also includes other aggregate facility data and analysis, summaries, calculations, and conclusions based on the data from more than one facility used to develop or reject options; includes supporting memoranda

4.0 ECONOMIC BACKGROUND AND DATA INTERPRETATION

Includes references for Section X, “Description of the Oil and Gas Industry” of the preamble to the proposed rule, the Profile of the Oil and Gas Industry, and other economic documents

5.0 ENVIRONMENTAL IMPACT BACKGROUND

Includes references for Section XV, “Environmental Impacts” of the preamble to the proposed rule which are summarized in the annotated bibliography for that section

6.0 PROPOSED RULEMAKING PACKAGE MATERIALS

Includes the *Federal Register* Notice and Technical Development Document

**ATTACHMENT 2: RECORD INDEX SORTED BY SUBJECT OUTLINE NUMBER FOR ALL
DOCUMENTS SUPPORTING THE PROPOSED EFFLUENT LIMITATION GUIDELINES AND
STANDARDS FOR THE OIL AND GAS EXTRACTION POINT SOURCE CATEGORY**

EPA-HQ-OW-2014-0598

Table 2. Record Index Sorted by Subject Outline Number for All Documents Supporting the Proposed Effluent Limitation Guidelines and Standards for the Oil and Gas Extraction Point Source Category

Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.1	EPA-HQ-OW-2014-0598-0447	Fracking & Associated Media Composition in Colorado - DCN SGE00006.A03	A presentation on fracking and associated media composition in CO.	Havics, Andrew	1/1/2011	TRUE	FALSE	SGE00006.A03
1.1	EPA-HQ-OW-2014-0598-0288	Modern Shale Development in the United States: A Primer DCN SGE00010	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.	GWPC	4/1/2009	FALSE	FALSE	SGE00010
1.1	EPA-HQ-OW-2014-0598-0303	Marcellus Shale Gas Development and Water Resource Issues DCN SGE00064	Presentation about water resource use and drilling processes in Marcellus	Williams, John	6/28/2011	FALSE	FALSE	SGE00064
1.1	EPA-HQ-OW-2014-0598-0309	Hydraulic Fracturing Operations— Well Construction and Integrity Guidelines - DCN SGE00086	API guidance document HF1 for hydraulic fracturing operations and well construction. Covers general principals, casing guidance, cementing and casing wells, well logging and other testing, well construction guidelines, perforating, and hydraulic fracturing	API	10/1/2009	TRUE	FALSE	SGE00086
1.1	EPA-HQ-OW-2014-0598-0327	Tight Gas Sandstones: Is it Truly Unconventional? - DCN SGE00114	An article discussing the differences between tight sands, CBM, shale, and conventional gas. The author concludes that tight sands are more like conventional reservoirs than CBM and shale.	Van Dyke, Staffan	10/8/2010	TRUE	FALSE	SGE00114

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.1	EPA-HQ-OW-2014-0598-0355	Shale Gas Plays, Lower 48 States - DCN SGE00153	A map of shale gas plays in the Lower 48 States.	EIA	5/9/2011	FALSE	FALSE	SGE00153
1.1	EPA-HQ-OW-2014-0598-0356	Major Tight Gas Plays, Lower 48 States - DCN SGE00155	A map of tight gas plays in the Lower 48 States.	EIA	6/6/2010	FALSE	FALSE	SGE00155
1.1	EPA-HQ-OW-2014-0598-0377	Produced Water Volumes and Management Practices in the United States - DCN SGE00182	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 sources.	Clark, C.E.; Veil, J.A.	9/1/2009	FALSE	FALSE	SGE00182
1.1	EPA-HQ-OW-2014-0598-0382	NPDES Glossary - DCN SGE00199	A glossary of words for NPDES.	USEPA	3/23/2004	FALSE	FALSE	SGE00199
1.1	EPA-HQ-OW-2014-0598-0532	Waterless Fracturing Technology DCN SGE00213	A presentation that shows the advantages of using LPG as a fracturing fluid in place of water	Lestz, Robert	11/9/2011	FALSE	FALSE	SGE00213
1.1	EPA-HQ-OW-2014-0598-0420	Characterizing Pivotal Sources of Methane Emissions from Unconventional Natural Gas Production DCN SGE00291	A document that summarizes survey responses from industry to support estimates of methane emissions from upstream natural gas production.	Shires, Terrie; Lev-On, Mairiam	9/21/2012	FALSE	FALSE	SGE00291
1.1	EPA-HQ-OW-2014-0598-0548	Water Acquisition and Wastewater Disposal in Ohio's Utica Shale Plays DCN	Discusses Water Acquisition and Wastewater Disposal in Ohio's Utica Shale Play	Graig Wilson	10/29/2012	TRUE	FALSE	SGE00298.A02

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		SGE00298.A02						
1.1	EPA-HQ-OW-2014-0598-0548	Disposal Wells: An Assessment of Available Wells and Facilities 3rd Water Management for Shale Plays DCN SGE00298.A03	Discusses the current capacity of underground injection wells in the Marcellus, new wells required for future Marcellus drilling, and pending permit applications.	Skoff, Dale	10/29/2012	FALSE	FALSE	SGE00298.A03
1.1	EPA-HQ-OW-2014-0598-0548	Transporting and Storing Water for Hydraulic Fracturing - DCN SGE00298.A13	This presentation provides an overview of water and wastewater transportation costs in the Bakken shale play.	Poeckes, Drew	10/29/2012	FALSE	FALSE	SGE00298.A13
1.1	EPA-HQ-OW-2014-0598-0548	Maximizing Efficiency and Safety When Moving Water DCN SGE00298.A14	This presentation discusses a basic overview of wastewater transportation and storage associated with shale gas.	Ryan Mastowski	10/31/2012	FALSE	FALSE	SGE00298.A14
1.1	EPA-HQ-OW-2014-0598-0548	Water Management for Shale Plays An Overview of the Bakken Shale - DCN SGE00298.A17	This presentation provides a basic overview of the current activity in the Bakken shale play.	Warlick, Don	10/29/2012	FALSE	FALSE	SGE00298.A17
1.1	EPA-HQ-OW-2014-0598-0548	Water Management for Shale Plays An Overview of the Niobrara Shale - DCN SGE00298.A18	This presentation provides a basic overview of the current activity in the Niobrara shale play.	Warlick, Don	10/29/2012	FALSE	FALSE	SGE00298.A18
1.1	EPA-HQ-OW-2014-0598-0560	2012 Tight Oil Water Management Summit Conference Materials DCN SGE00305	This memorandum provides the conference materials from the 2012 Tight Oil Water Management Summit Conference as attachments.	Ruminski, Brent	11/28/2012	FALSE	FALSE	SGE00305

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.1	EPA-HQ-OW-2014-0598-0608	Compatibility of Produced and Flowback Water With Various Fracturing Chemicals-Completion Fluid Design DCN SGE00311.A11	This presentation summarizes compatibility issues with wastewater, fracturing fluid, and the formation during hydraulic fracturing.	Kalpakci, Bayram	11/28/2012	FALSE	FALSE	SGE00311.A11
1.1	EPA-HQ-OW-2014-0598-0608	Outline Fayetteville Shale - DCN SGE00311.A12	This presentation provides an overview of Southwestern Energy's activity in the Fayetteville shale gas formation.	Mazoch, Mark	11/28/2012	FALSE	FALSE	SGE00311.A12
1.1	EPA-HQ-OW-2014-0598-0425	Review of Emerging Resources: U.S. Shale Gas and Shale Oil Plays DCN SGE00330	This report provides detailed information on shale plays across the country including typical well costs.	EIA	7/1/2011	FALSE	FALSE	SGE00330
1.1	EPA-HQ-OW-2014-0598-0427	New Albany Shale Gas Research Project - DCN SGE00332	This paper discusses the New Albany shale play as a prospective new region for development.	Perry, Kent; Salehi, Iraj		FALSE	FALSE	SGE00332
1.1	EPA-HQ-OW-2014-0598-0790	U.S. Bakken DCN SGE00334	This presentation provides general well cost information on Bakken shale wells	Johnson, Dana		FALSE	FALSE	SGE00334
1.1	EPA-HQ-OW-2014-0598-0434	Annual Energy Outlook 2012 with Projections to 2035 - DCN SGE00347	This report provides projections for the energy sector through 2035.	EIA	6/1/2012	FALSE	FALSE	SGE00347
1.1	EPA-HQ-OW-2014-0598-0459	WV/NPIDES Permit No, WV0023124 Accepting Oil and Gas Wastewater - DCN SGE00380	This letter documents SGE operators discharging wastewater to a POTW located in the Marcellus.	WV DEP	8/11/2009	FALSE	FALSE	SGE00380

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.1	EPA-HQ-OW-2014-0598-0694	Feasibility of Using Alternative Water Sources for Shale Gas Well Completions — A Preliminary Guidance Document on Current Practices in the Barnett Report No. 08122-05.03 DCN SGE00410	This report investigates the feasibility of using water sources other than surface water as base fluid for fracturing.	Jean Nicot et al	2/22/2010	FALSE	FALSE	SGE00410
1.1	EPA-HQ-OW-2014-0598-0562	The Utica Reservoir DC DCN SGE00428.A01	A presentation on the Utica shale that discusses it's potential and geographic location.	Arthur, Mike	4/24/2013	FALSE	FALSE	SGE00428.A01
1.1	EPA-HQ-OW-2014-0598-0502	Converting Fresh Water Regulatory Challenges into Opportunities - DCN SGE00431	A presentation that provides Devon Energy's activity in the Permian Basin.	Kuhnert, Nathan	4/24/2013	FALSE	FALSE	SGE00431
1.1	EPA-HQ-OW-2014-0598-0404	Water Disposal Regulations: Evaluating Long-Term Regulatory Changes to Enable the Integration of New Policies into Water Disposal, Recycling, and Handling Strategy DCN SGE00439	Evaluating Long-Term Regulatory Changes to Enable the Integration of New Policies into Water Disposal, Recycling, and Handling Strategy presentation	Nemaha Water	1/1/2013	TRUE	FALSE	SGE00439
1.1	EPA-HQ-OW-2014-0598-0504	Testimony of Brian P Barger RE: HB 59 on Behalf of Patriot Water Treatment, LLC - DCN SGE00469	Testimony of Brian P Barger RE: HB 59 on Behalf of Patriot Water Treatment, LLC	Barger, Brian		FALSE	FALSE	SGE00469

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.1	EPA-HQ-OW-2014-0598-0505	GreenHunter Water Acquires Barging Terminal in Wheeling, Ohio County, West Virginia - DCN SGE00474	GreenHunter Water Acquires Barging Terminal press release	Green-Hunter Water, LLC	3/14/2013	TRUE	FALSE	SGE00474
1.1	EPA-HQ-OW-2014-0598-0506	HydroRecovery About Us Company Info - DCN SGE00476	HydroRecovery About Us Company Info	Hydro Recovery	5/20/2013	TRUE	FALSE	SGE00476
1.1	EPA-HQ-OW-2014-0598-0507	Gas Well Drilling Brine Treatment Facility Opens in Fairmont - AOP Clearwater LLC is set to begin operation of its gas well drilling brine recycling facility in Fairmont - DCN SGE00478	Gas Well Drilling Brine Treatment Facility Opens in Fairmont	Kasey, Pam	11/19/2009	FALSE	FALSE	SGE00478
1.1	EPA-HQ-OW-2014-0598-0508	Power Forecast 2012 Williston Basin Oil and Gas Related Electrical Load Growth Forecast - DCN SGE00479	Power Forecast 2012 Williston Basin Oil and Gas Related Electrical Load Growth Forecast Report	Kadramas, Lee & Jackson, Inc.	10/1/2012	FALSE	FALSE	SGE00479
1.1	EPA-HQ-OW-2014-0598-0510	Waste Reduction: A Greener Alternative for Treating Drilling Muds - DCN SGE00481	Waste Reduction: A Greener Alternative for Treating Drilling Muds data sheet	McCutch-eon Enterprise, Inc.	1/1/2013	FALSE	FALSE	SGE00481
1.1	EPA-HQ-OW-2014-0598-0511	WM Environmental Services: Oilfield Solutions in the Marcellus Shale - DCN SGE00484	WM Environmental Services: Oilfield Solutions in the Marcellus Shale presentation	Davis, Jim	4/1/2012	FALSE	FALSE	SGE00484

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.1	EPA-HQ-OW-2014-0598-0512	Consent Order Issued Under the Water Pollution Control Act West Virginia Code, Chapter 22, Article 11 DCN SGE00485	Consent Order Issued Under the Water Pollution Control Act West Virginia Code, Chapter 22, Article 11	WV DEP	5/9/2011	FALSE	FALSE	SGE00485
1.1	EPA-HQ-OW-2014-0598-0513	Assumptions to the Annual Energy Outlook 2013 - DCN SGE00486	EIA's raw assumptions for the 2013 AEO.	EIA	5/1/2013	FALSE	FALSE	SGE00486
1.1	EPA-HQ-OW-2014-0598-0514	Annual Energy Outlook 2013 with Projections to 2040 - DCN SGE00487	EIA's full report for the 2013 AEO.	EIA	4/1/2013	FALSE	FALSE	SGE00487
1.1	EPA-HQ-OW-2014-0598-0516	Marcellus & Utica Shale Services - DCN SGE00490	This webpage describes the services Advanced Waste Services provides, including: wastewater treatment, centralized wastewater treatment & disposal, on-site treatment, drilling mud & sludge processing, and well pad field services.	Advanced Waste Services	10/22/2013	TRUE	FALSE	SGE00490
1.1	EPA-HQ-OW-2014-0598-0522	Arkansas Oil and Gas Commission Online Production and Well Information - DCN SGE00499	A spreadsheet containing data about wells in Arkansas.	AOGC	1/1/2013	FALSE	FALSE	SGE00499
1.1	EPA-HQ-OW-2014-0598-0571	North America Rotary Rig Count Pivot Table - DCN SGE00502	This is a spreadsheet containing number and types of oil rigs by location and changes through time.	Baker Hughes	11/8/2013	FALSE	FALSE	SGE00502

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.1	EPA-HQ-OW-2014-0598-0572	U.S. Onshore Well Count - DCN SGE00503	This is a spreadsheet containing rig and well counts by basin in the U.S.	Baker Hughes	10/11/2013	FALSE	FALSE	SGE00503
1.1	EPA-HQ-OW-2014-0598-0573	North America Rotary Rig Count (Jan 2000 - Current) - DCN SGE00504	This is a spreadsheet containing counts and types of land and offshore rigs in the U.S. and Canada.	Baker Hughes	11/15/2013	FALSE	FALSE	SGE00504
1.1	EPA-HQ-OW-2014-0598-0576	Handling Produced Water from Hydraulic Fracturing - DCN SGE00507	This is a review article on produced water handling.	Boschee, Pam	2/1/2012	TRUE	FALSE	SGE00507
1.1	EPA-HQ-OW-2014-0598-0579	The Evolution of Class II Salt Water Disposal (SWD) Wells as Part of the Shale Revolution - DCN SGE00511	A presentation on disposal options for Class II salt wastewater.	Casey, Greg	1/23/2013	FALSE	FALSE	SGE00511
1.1	EPA-HQ-OW-2014-0598-0585	Quantifying Drilling Efficiency - DCN SGE00516	A paper discussing methods of measuring drilling efficiency.	Cochener, John	6/28/2010	FALSE	FALSE	SGE00516
1.1	EPA-HQ-OW-2014-0598-0587	COGIS - Production Data Inquiry DCN SGE00518	Searchable online production database.	COGCC		TRUE	FALSE	SGE00518
1.1	EPA-HQ-OW-2014-0598-0609	CBI_DI Desktop@ December 2011 Download - DCN SGE00520	Nationwide database of oil and gas wells. This is proprietary data and is being treated as CBI.	Drilling-Info, Inc.	1/5/2012	FALSE	FALSE	SGE00520
1.1	EPA-HQ-OW-2014-0598-0592	Eureka Resources Announces Plans for New Wastewater Treatment Plant - DCN SGE00524	An article on a CWT's website confirming construction of a new CWT that includes evaporation/condensation along with crystallization for treating Marcellus shale	Eureka Resources	1/7/2013	TRUE	FALSE	SGE00524

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
			wastewater.					
1.1	EPA-HQ-OW-2014-0598-0666	OGB Well Records Database - DCN SGE00526	Screen shot of the Geological Survey of Alabama State Oil and Gas Board (OGB) Well Database interface.	AL Geological Survey - State Oil & Gas Board	6/7/2013	FALSE	FALSE	SGE00526
1.1	EPA-HQ-OW-2014-0598-0594	Comparisons and Contrasts of Shale Gas and Tight Gas Developments, North American Experience and Trends SPE-SAS 245 - DCN SGE00527	This paper presents a comparison of development of shale gas and tight gas reservoirs in North America. This paper focuses on operations challenges, technologies, and experience associated with shale and tight gas projects.	Georgi, Dan	4/8/2012	TRUE	FALSE	SGE00527
1.1	EPA-HQ-OW-2014-0598-0596	Water Utilization, Water Efficiency, and Reuse - DCN SGE00530	This presentation describes water usage needs and concerns.	Ham-montree, Jimmie	4/11/2012	FALSE	FALSE	SGE00530
1.1	EPA-HQ-OW-2014-0598-0597	Natural Gas Drilling in the Marcellus Shale NPDES Program Frequently Asked Questions - DCN SGE00531	Frequently Asked Questions for the NPDES Program	Hanlon, James	3/16/2011	FALSE	FALSE	SGE00531
1.1	EPA-HQ-OW-2014-0598-0598	Water Resource Reporting and Water Footprint from Marcellus Shale Development in West Virginia and Pennsylvania - DCN SGE00532	This report documents water withdrawals, fluid injections, and waste recovery and disposal in West Virginia and Pennsylvania.	Hansen; et al	10/30/2013	TRUE	FALSE	SGE00532

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.1	EPA-HQ-OW-2014-0598-0599	Unconventional Resource Development and Hydraulic Fracturing - DCN SGE00533	This presentation gives an overview of the industry.	Heffernan, Kevin	10/25/2012	FALSE	FALSE	SGE00533
1.1	EPA-HQ-OW-2014-0598-0600	Denver Julesberg Basin - DCN SGE00534	This webpage describes High Sierra's current and historical activities and facilities in the Denver Julesberg Basin.	High Sierra Energy, LP	10/22/2013	TRUE	FALSE	SGE00534
1.1	EPA-HQ-OW-2014-0598-0602	California Class II Underground Injection Control Program Review - DCN SGE00537	A review of the Underground Injection Control Program in California.	Horsley Witten Group	6/1/2011	FALSE	FALSE	SGE00537
1.1	EPA-HQ-OW-2014-0598-0043	The Future of Natural Gas: An Interdisciplinary MIT Study - DCN SGE00547	This series of studies explores the future role of natural gas as an energy source in the U.S.	MIT	6/6/2011	FALSE	FALSE	SGE00547
1.1	EPA-HQ-OW-2014-0598-0518	Injection Well Data - DCN SGE00549	A database containing injection well data for the state of Michigan.	MDEQ	1/1/2013	FALSE	FALSE	SGE00549
1.1	EPA-HQ-OW-2014-0598-0046	Well Information Report Search - DCN SGE00551	A spreadsheet containing data about wells in Mississippi.	Mississippi Oil and Gas Board	6/4/2013	FALSE	FALSE	SGE00551
1.1	EPA-HQ-OW-2014-0598-0051	Basic Subscription Services - Well Index - DCN SGE00557	Well index and data for North Dakota.	ND Industrial Commission	1/1/2014	FALSE	FALSE	SGE00557
1.1	EPA-HQ-OW-2014-0598-0056	Oil & Gas Facility Summary - DCN SGE00568	A series of tables summarizing oil and gas facility information for facilities in PA.	PA DEP	1/1/2010	FALSE	FALSE	SGE00568

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.1	EPA-HQ-OW-2014-0598-0063	Outlook for Domestic Unconventional Resources - DCN SGE00575	A presentation describing trends, opportunities, and risks involved in developing unconventional gas resources in the U.S.	Petroleum Equipment Suppliers Association	10/1/2012	FALSE	FALSE	SGE00575
1.1	EPA-HQ-OW-2014-0598-0340	FracFocus Database - DCN SGE00585	This is a Microsoft Access database that contains data aggregated from FracFocus reports back to 2011.	USEPA	1/1/2014	FALSE	FALSE	SGE00585
1.1	EPA-HQ-OW-2014-0598-0075	Water Issues Dominate Oil and Gas Production - DCN SGE00592	A newsletter focusing on water issues in oil and gas production.	US DOE	1/1/2013	FALSE	FALSE	SGE00592
1.1	EPA-HQ-OW-2014-0598-0076	Drilling Sideways - A Review of Horizontal Well Technology and Its Domestic Application - DCN SGE00593	A report reviewing horizontal drilling technology and application.	US EIA	4/1/1993	FALSE	FALSE	SGE00593
1.1	EPA-HQ-OW-2014-0598-0077	Schematic Geology of Natural Gas Resources - DCN SGE00594	A schematic of the geology of natural gas resources.	US EIA	1/27/2010	FALSE	FALSE	SGE00594
1.1	EPA-HQ-OW-2014-0598-0078	Drilling Productivity Report: For Key Tight Oil and Shale Gas Regions - DCN SGE00595	Productivity report for six key tight oil and shale gas regions.	US EIA	10/1/2013	FALSE	FALSE	SGE00595
1.1	EPA-HQ-OW-2014-0598-0676	Analysis of Centralized Waste Treatment Facilities (CWTs) Accepting UOG Wastewater - DCN SGE00596	Memorandum summarizing information available for UOG extraction wastewater management at CWT facilities	ERG	1/1/2015	FALSE	FALSE	SGE00596
1.1	EPA-HQ-OW-2014-	Local Limits Development	This is a collection of appendices to the Local	USEPA	7/1/2004	FALSE	FALSE	SGE00602

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0082	Guidance Appendices - DCN SGE00602	Limits Development Guidance.					
1.1	EPA-HQ-OW-2014-0598-0091	Overview of Hydraulic Fracturing Wastewater Research: Wastewater Treatment and Related Modeling - DCN SGE00614	A presentation on hydraulic fracturing wastewater research at a workshop for wastewater treatment and related modeling.	USEPA	4/18/2013	FALSE	FALSE	SGE00614
1.1	EPA-HQ-OW-2014-0598-0097	Water Resources and Shale Gas/Oil Production in the Appalachian Basin - Critical Issues and Evolving Developments - DCN SGE00622	This paper summarizes critical issues and developments related to the impact of shale gas/oil production on water resources in the Appalachian Basin.	USGS	9/1/2013	FALSE	FALSE	SGE00622
1.1	EPA-HQ-OW-2014-0598-0099	Hydraulic Fracturing in the State of Michigan Technology Technical Report - DCN SGE00624	Seven reports prepared to provide a solid foundation of information on hydraulic fracturing in the state of Michigan, for decision makers and stakeholders.	University of Michigan	9/3/2013	TRUE	FALSE	SGE00624
1.1	EPA-HQ-OW-2014-0598-0542	Impact of Shale Gas Development on Regional Water Quality - DCN SGE00627	A review paper on the impact of shale gas development on regional water quality, including risks of gas migration, contaminant transport, wastewater discharge, and accidental spills.	Vidic, Radisav; Brantley, S.L.; Vandebossche, J.M.; Yoxthimer, D.; Abad, J.D.	5/17/2013	TRUE	FALSE	SGE00627
1.1	EPA-HQ-OW-2014-	The Marcellus Shale Gas Play: Geology,	This presentation describes the geology, development,	Williams, John		FALSE	FALSE	SGE00632

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0102	Development, and Water Resource Impact Mitigation - DCN SGE00632	and impact on water-resources of hydraulic fracturing in the Marcellus shale.					
1.1	EPA-HQ-OW-2014-0598-0104	Talisman Marcellus Operations Overview - DCN SGE00636	Overview of the Talisman Marcellus operations including, information on the number of wells and wastewater volumes, wastewater management, handling, and storage, and wastewater quality.	U.S. EPA	7/23/2012	FALSE	FALSE	SGE00636
1.1	EPA-HQ-OW-2014-0598-0105	Produced Fluid Generation And Injection Well Disposal Considerations - DCN SGE00637.A03	A presentation which discusses injection well disposal of produced water.	Yoxith-eimer, David	3/27/2013	FALSE	FALSE	SGE00637.A03
1.1	EPA-HQ-OW-2014-0598-0105	Collaboration Case Study DCN SGE00637.A04	A presentation which describes water management practices and potential for collaboration.	Richie, Chance	1/1/2013	FALSE	FALSE	SGE00637.A04
1.1	EPA-HQ-OW-2014-0598-0760	Produced Water Reuse Initiative: Examining the Costs of Pipeline vs. Trucking to Determine if There is an Economic Benefit to Using Pipelines as the Primary Form of Transport DCN SGE00638.A09	A presentation discussing the infrastructure needs for handling produced water.	Thompson, Tommy	10/30/2013	FALSE	FALSE	SGE00638.A09
1.1	EPA-HQ-OW-2014-	Download Production - DCN SGE00643	Searchable online production database.	WY OGCC	1/1/2013	TRUE	FALSE	SGE00643

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0543							
1.1	EPA-HQ-OW-2014-0598-0544	OCD Permitting: Well Search - DCN SGE00644	Searchable online production database.	NM EMNRD	1/1/2014	TRUE	FALSE	SGE00644
1.1	EPA-HQ-OW-2014-0598-0160	Unconventional E&P \$8 Billion of US Water Services Market - DCN SGE00708	Online article on how water management issues in the U.s. exploration and production operation industry is resulting in \$8 billion in spending for water services.	Environmental Leader	11/11/2013	TRUE	FALSE	SGE00708
1.1	EPA-HQ-OW-2014-0598-0161	Flowback Water Driving Flurry of Activity in Water Treatment - DCN SGE00709	Online article discussing how flowback water from hydrofracking is resulting in interest/demonstrations by water treatment technology companies.	Natural Gas Europe	5/22/2012	TRUE	FALSE	SGE00709
1.1	EPA-HQ-OW-2014-0598-0163	Cana Water Reuse Projects Help Devon Overcome Drought - DCN SGE00711	Online article on Devon, OK's hydraulic fracturing flowback water reuse project in the Cana-Woodford Shale.	Devon Energy	2/17/2014	TRUE	FALSE	SGE00711
1.1	EPA-HQ-OW-2014-0598-0632	Spud Data Report - DCN SGE00712	Unconventional gas SPUD data report file for 1/2004 - 12/2013.	PA DEP	2/21/2014	FALSE	FALSE	SGE00712
1.1	EPA-HQ-OW-2014-0598-0164	Chesapeake Officials Show Off Their New Water Recycling Facility - DCN SGE00713	Online news article (freepressstandard.com) on Chesapeake Energy's new water recycling facility.	McIntire, Carol	2/14/2014	TRUE	FALSE	SGE00713
1.1	EPA-HQ-OW-2014-0598-0168	Horizontal or Slant Wells in Kansas - DCN SGE00720	Listing and information related to horizontal or slant wells in Kansas.	Kansas Geological Survey	2/8/2014	FALSE	FALSE	SGE00720

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.1	EPA-HQ-OW-2014-0598-0685	Information about Underground Injection for Disposal Wells in New York State DCN SGE00726	Information about underground injection for disposal wells in New York State	Biddle, Lisa	11/13/2013	FALSE	FALSE	SGE00726
1.1	EPA-HQ-OW-2014-0598-0172	Iron Eagle Opens Water Recycling Facility to Serve Oil and Gas Industry - DCN SGE00729	CWT company brochure	Iron Eagle	10/3/2014	FALSE	FALSE	SGE00729
1.1	EPA-HQ-OW-2014-0598-0173	Aspen Fluid Logistics: Industrial Wastewater Recycling DCN SGE00730	CWT company website	Aspen Fluid Logistics	4/15/2014	TRUE	FALSE	SGE00730
1.1	EPA-HQ-OW-2014-0598-0179	Water Recycling: The Cure for Drillers' Drinking Problem? DCN SGE00738	An article describing Chesapeake Energy's wastewater management practices in OH. Chesapeake was the largest Utica shale producer when this article was written.	Livingston, Doug	3/1/2013	TRUE	FALSE	SGE00738
1.1	EPA-HQ-OW-2014-0598-0630	Letter from Thomas P. O'Farrell (EPA) to Constance B. Harriman (Steptoe & Johnson) about applicability of 40 CFR 435 Subpart C to CBM operations. DCN SGE00761	Letter from Letter from Thomas P. O'Farrell (EPA's Industrial Technology Division) to Constance B. Harriman (Steptoe & Johnson) about the applicability of 40 CFR 435 Subpart C to CBM production facilities.	USEPA	6/1/1989	FALSE	FALSE	SGE00761
1.1	EPA-HQ-OW-2014-0598-0201	Tribal Unconventional Oil and Gas Operations and Wastewater Management Call	Call summary from call between Lisa Biddle (EPA) and Jeff Hunt (BIA) about tribal UOG operations and	USEPA	5/29/2014	FALSE	FALSE	SGE00764

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Summary DCN SGE00764	wastewater management					
1.1	EPA-HQ-OW-2014-0598-0206	Demand for revocation of Chief's Orders for drilling waste disposal facilities DCN SGE00772	Letter from Terry Lodge to OH DNR with an attached list of CWT facilities permitted in OH to accept oil and gas wastewater.	Lodge, Terry	6/3/2014	FALSE	FALSE	SGE00772
1.1	EPA-HQ-OW-2014-0598-0210	Drilling Productivity Report: Bakken DCN SGE00778	Productivity report for Bakken formation.	USEPA	6/1/2014	FALSE	FALSE	SGE00778
1.1	EPA-HQ-OW-2014-0598-0610	Profile of the Oil and Gas Extraction (OGE) Sector, with Focus on Unconventional Oil and Gas (UOG) Extraction DCN SGE00932	Industry profile for the UOG extraction industry.	Abt	1/1/2015	FALSE	FALSE	SGE00932
1.1	EPA-HQ-OW-2014-0598-0730	Assumptions to the Annual Energy Outlook 2014 - DCN SGE00988	Assumptions used in determining EIA's Annual Energy Outlook for 2014.	US EIA	4/1/2014	FALSE	FALSE	SGE00988
1.1	EPA-HQ-OW-2014-0598-0731	Annual Energy Outlook 2014 with Projections to 2040 - DCN SGE00989	EIA's 2014 Annual Energy Outlook Report. Including U.S. tight oil production information, market trends, and comparisons with other projections.	US EIA	4/1/2014	FALSE	FALSE	SGE00989
1.1	EPA-HQ-OW-2014-0598-0732	Assessment of Undiscovered Oil and Gas Resources of the Permian Basin Province of West Texas and Southeast New Mexico, 2007 -	USGS assessment of undiscovered oil and gas resources in the Permian Basin Province of West Texas and Southeast New Mexico.	USGS	2/1/2008	FALSE	FALSE	SGE00991

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		DCN SGE00991						
1.1	EPA-HQ-OW-2014-0598-0733	Woodbine Formation - DCN SGE00992	USGS screen shot of Mineral Resources On-line Spatial Data for the Woodbine Formation.	USGS	10/21/2014	FALSE	FALSE	SGE00992
1.1	EPA-HQ-OW-2014-0598-0734	Buda Formation - DCN SGE00993	USGS screen shot of Mineral Resources On-line Spatial Data for the Buda Limestone Formation.	USGS	10/21/2014	FALSE	FALSE	SGE00993
1.2	EPA-HQ-OW-2014-0598-0375	Secondary Drinking Water Regulations: Guidance for Nuisance Chemicals - DCN SGE00174	An article of Frequently Asked Questions that describes the Secondary Drinking Regulations set by the EPA.	USEPA	9/29/2011	FALSE	FALSE	SGE00174
1.2	EPA-HQ-OW-2014-0598-0378	Drinking Water Treatment Wastes - DCN SGE00185	Website about drinking water standards for radioactive materials.	USEPA	1/1/2011	FALSE	FALSE	SGE00185
1.2	EPA-HQ-OW-2014-0598-0408	Introduction to the National Pretreatment Program - DCN SGE00249	Document number EPA-833-B-11-001. EPA's introduction to the national pretreatment program including an overview of the program; information on pretreatment standards, POTW program responsibilities, industrial user responsibilities; and information on haul	USEPA	6/1/2011	FALSE	FALSE	SGE00249
1.2	EPA-HQ-OW-2014-0598-0409	Salt Brine from Gas Wells Agreement - DCN SGE00252	A memo describing the chemical composition requirement of salt brine to be used for road salt in West Virginia.	WV DEP	7/30/2010	FALSE	FALSE	SGE00252

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.2	EPA-HQ-OW-2014-0598-0410	Michigan Oil and Gas Regulations - DCN SGE00254	Rules and regulations for oil and gas operators in Michigan.	MDEQ	4/1/2006	FALSE	FALSE	SGE00254
1.2	EPA-HQ-OW-2014-0598-0533	Roadspreading of Brine for Dust Control and Road Stabilization DCN SGE00255	Guidelines for oil and gas operators to follow when using wastewater in road spreading.	PA DEP	7/1/2011	FALSE	FALSE	SGE00255
1.2	EPA-HQ-OW-2014-0598-0419	In Fracking's Wake: New Rules are Needed to Protect Our Health and Environment from Contaminated Wastewater - DCN SGE00286	A detailed report that provides information on wastewater management options for shale gas operators.	Hammer, Rebecca Hammer, Rebecca; VanBriesen, Jeanne; Levine, Larry	5/1/2012	TRUE	FALSE	SGE00286
1.2	EPA-HQ-OW-2014-0598-0789	Compilation of Publicly Available Sources of Voluntary Management Practices for Oil and Gas Exploration & Production (E&P) Wastes As They Address Pits, Tanks, and Land Application DCN SGE00294	Review of sources that report on the best management practices (BMPs) for handling oil and gas wastes. Includes a list of sources and a summary of the BMPs.	USEPA/ ORCR	8/9/2012	FALSE	FALSE	SGE00294
1.2	EPA-HQ-OW-2014-0598-0421	Fact Sheet for NPDES Permit Renewal, Warren Water Pollution Control Facility, 2011 - 2012 DCN SGE00295	NPDES permit fact sheet for Warren Water Pollution Control Facility discharge into waters of the state of OH.	Warren Water Pollution Control Facility	12/1/2011	FALSE	FALSE	SGE00295
1.2	EPA-HQ-OW-2014-	PA DEP, Oil and Gas Management DCN	This presentation gives an overview of Marcellus	Eichler, Alan	10/29/2012	FALSE	FALSE	SGE00298.A06

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0548	SGE00298.A06	activity in PA in respect to wastewater management.					
1.2	EPA-HQ-OW-2014-0598-0548	Marcellus and Utica Shale Plays: Water Issues in the Ohio River Basin DCN SGE00298.A09	This presentation provides information on Marcellus and Utica activity within the Ohio River Basin.	Jason Heath	10/29/2012	FALSE	FALSE	SGE00298.A09
1.2	EPA-HQ-OW-2014-0598-0548	Statutory and Regulatory Review Pennsylvania, West Virginia, and Ohio DCN SGE00298.A16	This presentation provides information on statutory and regulatory requirements in the Marcellus region.	Slagel, Gary E.	10/29/2012	FALSE	FALSE	SGE00298.A16
1.2	EPA-HQ-OW-2014-0598-0608	Regulatory Update—Oklahoma Water Rights Permitting and Water Planning DCN SGE00311.A08	This presentation provides an overview of water sourcing regulations in Oklahoma.	Julie Cunningham	11/28/2012	FALSE	FALSE	SGE00311.A08
1.2	EPA-HQ-OW-2014-0598-0515	WV0116441 Reserved Environmental Services Ohio County - DCN SGE00488	Stormwater discharge permit for a CWT in WV that accepts oil and gas wastewater for reuse only.	Patel, Yogesh	9/25/2012	FALSE	FALSE	SGE00488
1.2	EPA-HQ-OW-2014-0598-0517	Letter to PA DEP (Permit ID: PA0026255) - DCN SGE00493	This letter certifies that the Allegheny Valley Joint Sewage Authority did not accept any oil and gas exploration produced wastewater.	Allegheny Valley Joint Sewage Authority	3/29/2011	FALSE	FALSE	SGE00493
1.2	EPA-HQ-OW-2014-0598-0581	Letter to U.S. EPA Region 3 - DCN SGE00494	This letter certifies that the Allegheny Valley Joint Sewage Authority does not accept any oil and gas exploration produced wastewater and wishes to be removed from the list of	Allegheny Valley Joint Sewage Authority	10/3/2011	FALSE	FALSE	SGE00494

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
			those required to provide wastewater treatment monitoring data.					
1.2	EPA-HQ-OW-2014-0598-0519	Letter to PA DEP (Permit ID: PA0027014) - DCN SGE00495	This letter confirms that Altoona Water Authority will stop receiving gas well drilling wastewater.	Altoona Water Authority	4/6/2011	FALSE	FALSE	SGE00495
1.2	EPA-HQ-OW-2014-0598-0577	Request for Information - Permit ID: PA0028428 - DCN SGE00508	This letter confirms that Brockway Area Sewage Authority does not accept any wastewater from Marcellus shale gas drilling operations.	Brockway Area Sewage Authority	3/31/2011	FALSE	FALSE	SGE00508
1.2	EPA-HQ-OW-2014-0598-0582	Short-Term High-Intensity Monitoring Program - DCN SGE00513	This response letter includes a report from the short term high intensity monitoring program which monitored the impacts of Utica Shale formation wastewater on the facility's discharge.	City of Watertown POTW	3/11/2010	FALSE	FALSE	SGE00513
1.2	EPA-HQ-OW-2014-0598-0583	Letter to U.S. EPA Region 3 - DCN SGE00514	This letter certifies that Clairton Municipal Authority will not accept any oil and gas exploration production wastewater at their facility.	Clairton Municipal Authority	9/30/2011	FALSE	FALSE	SGE00514
1.2	EPA-HQ-OW-2014-0598-0586	COGCC Underground Injection Control and Seismicity in Colorado - DCN SGE00517	A short history and summary of Colorado's UIC program.	COGCC	1/19/2011	FALSE	FALSE	SGE00517
1.2	EPA-HQ-OW-2014-0598-0590	Patriot Water Treatment, LLC and City of Warren vs. Chris Korleski and	A court decision resolving the conflict between Patriot Water Treatment and the City of Warren with the	Environmental Review Appeals	7/3/2012	FALSE	FALSE	SGE00522

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Scott Nally, Director of Environmental Protection: 2012 Decision - DCN SGE00522	Ohio EPA over language in the permit to install.	Commission, State of Ohio				
1.2	EPA-HQ-OW-2014-0598-0603	Letter to U.S. EPA Region 3 - DCN SGE00538	This letter certifies that Johnstown Redevelopment Authority will not accept any oil and gas exploration production wastewater at their Dornick Point Sewage Treatment Plant.	Johnstown Redevelopment Authority	9/30/2011	FALSE	FALSE	SGE00538
1.2	EPA-HQ-OW-2014-0598-0604	Letter to U.S. EPA Region 3 Pretreatment Program NPDES No. PA0026034 - DCN SGE00539	This letter responds to EPA comments on the Authority's 2011 annual pretreatment report. The letter reminds EPA that Johnstown Redevelopment Authority will not accept any oil and gas exploration production wastewater, and therefore expects violations to decrease.	Johnstown Redevelopment Authority	12/19/2012	FALSE	FALSE	SGE00539
1.2	EPA-HQ-OW-2014-0598-0605	Letter to McCutcheon Enterprises, Inc. - DCN SGE00540	This letter notifies McCutcheon Enterprises, Inc. that they are no longer allowed to discharge shale gas extraction wastewater to Kiski Valley Water Pollution Control Authority's treatment plant after May 19, 2011.	Kiski Valley Water Pollution Control Authority	4/21/2011	FALSE	FALSE	SGE00540
1.2	EPA-HQ-OW-2014-	Wheeling Fined for Taking Frack Water -	A news article about the fines the WV DEP assigned	Macormac, Zach	10/15/2011	TRUE	FALSE	SGE00543

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0606	DCN SGE00543	to the city of Wheeling for handling wastewater.					
1.2	EPA-HQ-OW-2014-0598-0044	Environmentalists Say Oil-Drilling Sewage is Polluting Pittsburgh's Drinking Water - DCN SGE00548	A news article reporting on the lawsuit between Clean Water Action and Three Rivers Waterkeeper against the Municipal Authority of the City of McKeesport.	McCauley, Erin	7/21/2011	TRUE	FALSE	SGE00548
1.2	EPA-HQ-OW-2014-0598-0048	2009 Annual Pretreatment New Castle Sanitation Authority Report PA0027511 - DCN SGE00554	Annual Pretreatment Report for New Castle Sanitation Authority for 2009.	New Castle	4/6/2010	FALSE	FALSE	SGE00554
1.2	EPA-HQ-OW-2014-0598-0049	New Discharge Notification: SPDES Permit NY 002 5984 to Watertown, NY POTW - DCN SGE00555	This response letter includes a report from the short term high intensity monitoring program which monitored the impacts of Utica Shale formation wastewater on the facility's discharge.	New York State Department of Environmental Control	3/11/2010	FALSE	FALSE	SGE00555
1.2	EPA-HQ-OW-2014-0598-0100	Hydraulic Fracturing of Natural Gas Wells in Michigan - DCN SGE00558	A short paper discussing five concerns about horizontal drilling and deep fracturing in Michigan.	Office of Geological Survey	5/31/2011	FALSE	FALSE	SGE00558
1.2	EPA-HQ-OW-2014-0598-0669	Utica/Point Pleasant Shale Cumulative Permitting Activity through 12/07/2013 - DCN SGE00561	A spreadsheet detailing permitting activities for wells in the Utica Shale.	Ohio Department of Natural Resources (OHDNR)	12/6/2013	FALSE	FALSE	SGE00561
1.2	EPA-HQ-OW-2014-0598-0052	Chapter 3745-3 Pretreatment Rules - DCN SGE00562	Pretreatment Rules	OH EPA	10/31/2013	FALSE	FALSE	SGE00562

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.2	EPA-HQ-OW-2014-0598-0053	Letter to Ohio Department of Natural Resources (OH DNR) - Brine Disposal Pursuant to ORC Section 1509.22 - DCN SGE00563	A letter forewarning POTWs that the Ohio EPA will deny permit applications that include acceptance of brine from oil/gas operations.	OH EPA	5/16/2011	FALSE	FALSE	SGE00563
1.2	EPA-HQ-OW-2014-0598-0054	Wastewater Permit-to-Install (PTI) Program - DCN SGE00564	A website index of resources regarding the Ohio wastewater permit-to-install program.	OH EPA	1/11/2014	FALSE	FALSE	SGE00564
1.2	EPA-HQ-OW-2014-0598-0057	DEP Calls on Natural Gas Drillers to Stop Giving Treatment Facilities Wastewater - DCN SGE00569	A press release describing the history and rationale behind the Pennsylvania governor's call for treatment plants to stop accepting wastewater from natural gas drilling operations.	PA DEP	4/19/2011	FALSE	FALSE	SGE00569
1.2	EPA-HQ-OW-2014-0598-0058	General Permit WMGR123 Processing and Beneficial Use Of Oil and Gas Liquid Waste - DCN SGE00570	Permit information including definitions, requirements, and contact information.	PA DEP	3/14/2012	FALSE	FALSE	SGE00570
1.2	EPA-HQ-OW-2014-0598-0059	NPDES Permit No. PA0028207 - DCN SGE00571	Permit to discharge from the Reynoldsville STP.	PA DEP	7/17/2012	FALSE	FALSE	SGE00571
1.2	EPA-HQ-OW-2014-0598-0060	Return of NPDES Application No. PA0026310 A-2 (Clearfield Municipal Authority WWTP) - DCN SGE00572	This letter acknowledges receipt of a letter from the Clearfield Municipal Authority WWTP stating a cessation of brine receiving.	PA DEP	4/3/2012	FALSE	FALSE	SGE00572

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.2	EPA-HQ-OW-2014-0598-0061	NPDES Permit No. PA0027511 (New Castle Sanitation Authority) - DCN SGE00573	Permit to discharge from the New Castle WWTP.	PA DEP	2/6/2013	FALSE	FALSE	SGE00573
1.2	EPA-HQ-OW-2014-0598-0070	Regulatory Regimes for Recycling Produced and Frac Flowback Water - DCN SGE00583	This paper provides general considerations and key information regarding the current state of regulation of recycling produced water, to aid state review.	Romo, Carlos	3/26/2012	TRUE	FALSE	SGE00583
1.2	EPA-HQ-OW-2014-0598-0072	West Virginia Follow-Up and Supplemental Review - DCN SGE00586	This document reviews of the West Virginia exploration and production waste regulatory program based on the Interstate Oil and Gas Compact Commission guidelines.	State Review of Oil and Natural Gas Environmental Regs	1/1/2003	FALSE	FALSE	SGE00586
1.2	EPA-HQ-OW-2014-0598-0081	Small Entity Compliance Guide: Centralized Waste Treatment Effluent Limitations Guidelines and Pretreatment Standards (40 CFR 437). EPA 821-B-01-003 - DCN SGE00601	A guide to aid small regulated discharging entities to comply with national regulations.	USEPA	6/1/2001	FALSE	FALSE	SGE00601
1.2	EPA-HQ-OW-2014-0598-0084	Hydraulic Fracturing Research Study - DCN SGE00604	A fact sheet on EPA's interest in hydraulic fracturing.	USEPA	6/1/2010	FALSE	FALSE	SGE00604
1.2	EPA-HQ-OW-2014-0598-0088	UIC Program Primacy - DCN SGE00611	An EPA webpage detailing the UIC Program Primacy.	USEPA	8/1/2012	FALSE	FALSE	SGE00611

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.2	EPA-HQ-OW-2014-0598-0092	Radionuclides in Drinking Water: Waste Disposal Options - DCN SGE00615	A website describing disposal options for waste streams.	USEPA	1/13/2014	FALSE	FALSE	SGE00615
1.2	EPA-HQ-OW-2014-0598-0094	Flowback and Produced Wastewater from Hydraulic Fracturing Operations to Publicly Owned Treatment Works (POTWs) in Region 2 - DCN SGE00618	A list of POTW facilities by state which accept wastewater from hydraulic fracturing operations.	USEPA	3/12/2012	FALSE	FALSE	SGE00618
1.2	EPA-HQ-OW-2014-0598-0095	Active Permitted Class IID Wells in New York - DCN SGE00619	A table of active permitted class IID wells in New York.	USEPA		FALSE	FALSE	SGE00619
1.2	EPA-HQ-OW-2014-0598-0541	Administrative Order for Compliance and Request for Information, EPA Docket No. CWA-03-2011-0272DN - DCN SGE00620	An administrative order and information request.	USEPA	9/28/2011	FALSE	FALSE	SGE00620
1.2	EPA-HQ-OW-2014-0598-0760	Examining the Fresh Water Availability And Permitting of Source Water In the Brakken Region of North Dakota DCN SGE00638.A06	A presentation on regulation and permitting of water usage in North Dakota.	Patch, Jon	10/29/2013	FALSE	FALSE	SGE00638.A06
1.2	EPA-HQ-OW-2014-0598-0760	Oil and Gas Well Construction Regulation of Fresh Water Sources in	A presentation discussing the regulation of water resources in Colorado.	Rein, Kevin	10/29/2013	FALSE	FALSE	SGE00638.A08

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Colorado DCN SGE00638.A08						
1.2	EPA-HQ-OW-2014-0598-0125	Fact Sheet To Permit Number Co0048739 Bopco, L.P., Yellow Creek Water Management Facility Rio Blanco County - DCN SGE00660	A factsheet providing supplemental information about permit number CO0048739, including information about the receiving stream, facility, performance history, effluent limitations, and terms and conditions.	Colorado Department of Public Health	1/10/2011	FALSE	FALSE	SGE00660
1.2	EPA-HQ-OW-2014-0598-0184	Franklin Township WWTP Fact Sheet/Statement of Basis DCN SGE00746	Fact Sheet/Statement of Basis for the Franklin Twp POTW (NPDES PA0046426)	Franklin Township Sewer Authority	6/2/2008	FALSE	FALSE	SGE00746
1.2	EPA-HQ-OW-2014-0598-0185	Franklin Township Sewer Authority and Wastewater Treatment Plant Consent Order and Agreement with Clean Streams DCN SGE00747	Consent Order and Agreement between Franklin Twp and Clean Streams	PA DEP	12/4/2008	FALSE	FALSE	SGE00747
1.2	EPA-HQ-OW-2014-0598-0193	Fact Sheet for NPDES Permit No. PA0023213 (Borough of Ridgway) DCN SGE00755	Fact sheet about the Ridgway POTW NPDES Permit.	PA DEP	10/1/2011	FALSE	FALSE	SGE00755
1.2	EPA-HQ-OW-2014-0598-0209	CDPS General Permit for Discharges Associated with Produced-Water Treatment Facilities DCN SGE00775	General Permit for CO discharges associated with produced water, specifically including limits for radioactivity	Kieler, Janet	1/30/2012	FALSE	FALSE	SGE00775
1.2	EPA-HQ-OW-2014-	Brockway Area Sewer Authority -	Brockway Area Sewer Authority - PA0028428 -	PA DEP	11/1/2012	FALSE	FALSE	SGE00931

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0324	PA0028428 - Final Permit 2012 DCN SGE00931	Final Permit 2012					
1.2	EPA-HQ-OW-2014-0598-0363	Revised Draft: Supplemental Generic Environmental Impact Statement (SGEIS) on the Oil, Gas, and Solution Mining Regulatory Program: Information Requests DCN SGE00951	Revised draft of the supplemental generic environmental impact statement on the oil, gas, and solution mining regulatory program.	NYSDEC	9/7/2011	FALSE	FALSE	SGE00951
1.2	EPA-HQ-OW-2014-0598-0369	AOGCC Data Extract Zip File DCN SGE00959	A database with information from the Alaska Oil and Gas Conservation Commission on UOG disposal wells.	AOGCC	4/8/2014	FALSE	FALSE	SGE00959
1.2	EPA-HQ-OW-2014-0598-0725	AOGCC Data Extract File Table Description DCN SGE00960	Printout of Alaska Oil and Gas Conservation Commission AOGCC_DataExtract. Mdb.	AOGCC	4/8/2014	FALSE	FALSE	SGE00960
1.2	EPA-HQ-OW-2014-0598-0621	Sampling and Analysis Plan Part II Quality Assurance Project Plan DCN SGE00979	Sampling and Analysis Plan Part II Quality Assurance Project Plan	PA DEP	4/3/2013	FALSE	FALSE	SGE00979
1.2	EPA-HQ-OW-2014-0598-0371	U.S. EPA letter to PA DEP about PA DEP's Request that Marcellus Shale drillers stop sending wastewater to POTWs DCN SGE00982	U.S. EPA letter to PA DEP about PA DEP's Request that Marcellus Shale drillers stop sending wastewater to POTWs	Garvin, Shawn	5/12/2011	FALSE	FALSE	SGE00982
1.2	EPA-HQ-OW-2014-0598-0726	Ohio Revised Code Title 15, Chapter 1509: Division of Oil and	Ohio Revised Code Title 15; Chapter 1509 text.	Ohio	9/10/2012	FALSE	FALSE	SGE00983

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Gas Resources Management DCN SGE00983						
1.2	EPA-HQ-OW-2014-0598-0729	Municipal Authority of the City of McKeesport Analysis of Gas Well Wastewaters as Required Under the PA DEP Administrative Order Dated October 23, 2008 (file 1) DCN SGE00986	The analysis of gas well wastewaters performed by the Municipal Authority of the City of McKeesport as required under the PA DEP Administrative Order dated October 23, 2008.	Rost, Joseph	8/12/2010	FALSE	FALSE	SGE00986
1.2	EPA-HQ-OW-2014-0598-0752	Municipal Authority of the City of McKeesport Analysis of Gas Well Wastewaters as Required Under the PA DEP Administrative Order Dated October 23, 2008 (File 2) DCN SGE00987	City of McKeesport analysis results of gas well wastewaters.	Joseph Rost	11/29/2010	FALSE	FALSE	SGE00987
1.2	EPA-HQ-OW-2014-0598-0623	Wheeling POTW Analysis 4 DCN SGE00996	Correspondence between PA DEP, Water Pollution Control Div. of City of Wheeling, and Liquid Assets Disposal, Inc. Includes photos of discharge, flow limitations, treatment of chloride and analytical screening results, and a surcharge invoice calculation.	Andrew J. Kicinski	5/27/2007	FALSE	FALSE	SGE00996

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.2	EPA-HQ-OW-2014-0598-0624	Clean Water Act Section 308 Request for Information DCN SGE00997	Letter requesting Waynesburg Borough provide information regarding oil and gas wastewater that is accepted by the Waynesburg wastewater treatment plant.	Borough of Waynesburg	3/31/2009	FALSE	FALSE	SGE00997
1.2	EPA-HQ-OW-2014-0598-0624	Clean Water Act Section 308 Request for Information - Attachment 1: Acceptance Records DCN SGE00997.A01	Attachment 1, acceptance records.	Borough of Waynesburg	3/31/2009	FALSE	FALSE	SGE00997.A01
1.2	EPA-HQ-OW-2014-0598-0624	Clean Water Act Section 308 Request for Information - Attachment 4: Sampling Summary DCN SGE00997.A04	Borough of Waynesburg sampling data summary table.	Borough of Waynesburg	1/1/2009	FALSE	FALSE	SGE00997.A04
1.2	EPA-HQ-OW-2014-0598-0735	Wheeling POTW Discharge Requirements DCN SGE00999	Wheeling POTW Permit WV0023230 discharge and sewage sludge limitations and monitoring requirements.	McClung, Lisa A.	6/8/2008	FALSE	FALSE	SGE00999
1.2	EPA-HQ-OW-2014-0598-0737	Authorization To Discharge Under the National Pollutant Discharge Elimination System Discharge Requirements for Publicly Owned Treatment Works (POTWs) DCN SGE01002	NPDES Permit for Reynoldsville Sewage Authority; NPDES Permit No. PA0028207.	Reynoldsville Sewage Authority	7/17/2012	FALSE	FALSE	SGE01002

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.2	EPA-HQ-OW-2014-0598-0739	Permitted Commercial Oil Disposal Facilities DCN SGE01004	Permitted commercial oil disposal facilities in WY, CO, OK, TX.	WY DEQ	3/19/2014	FALSE	FALSE	SGE01004
1.2	EPA-HQ-OW-2014-0598-0742	Development Document for Final Effluent Limitations Guidelines and Standards for Synthetic-Based Drilling Fluids and Other Non-Aqueous Drilling Fluids in the Oil and Gas Extraction Point Source Category DCN SGE01006	Development Document for Final Effluent Limitations Guidelines and Standards for Synthetic-Based Drilling Fluids and other Non-Aqueous Drilling Fluids in the Oil and Gas Extraction Point Source Category.	US EPA	12/1/2000	FALSE	FALSE	SGE01006
1.2	EPA-HQ-OW-2014-0598-0707	Draft Regulation and Licensing of Technologically Enhanced Naturally Occurring Radioactive Material Chapter 33-10-23 DCN SGE01019	Chapter 33-10-23, Regulation and licensing of Technologically Enhanced Naturally Occurring Radioactive Material.	North Dakota		FALSE	FALSE	SGE01019
1.2	EPA-HQ-OW-2014-0598-0643	Memorandum: Districts' Pretreatment Program for Oil Production DCN SGE01026	Memo on the LA County Sanitation District's pretreatment program for oil production.	SDLAC	6/14/2013	FALSE	FALSE	SGE01026
1.2	EPA-HQ-OW-2014-0598-0550	Regulations Designed to Protect State Oil and Gas Water Resources DCN SGE01077	Ground Water Protection Council (GWPC) Report on Regulations Designed to Protect State Oil and Gas Water Resources. Includes background, evolution of oil and gas regulations, element	GWPC	1/1/2014	TRUE	FALSE	SGE01077

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
			reviews and findings, key messages and considerations.					
1.2	EPA-HQ-OW-2014-0598-0646	WV/NPDES Permit No, WV0023302 Accepting Oil and Gas Wastewater - DCN SGE01113	This letter documents SGE operators discharging wastewater to a POTW (Clarksburg) located in the Marcellus.	WVDEP	7/23/2009	FALSE	FALSE	SGE01113
1.2	EPA-HQ-OW-2014-0598-0647	WV/NPDES Permit No, WV0023230 Accepting Oil and Gas Wastewater - DCN SGE01114	This letter documents SGE operators discharging wastewater to a POTW (Wheeling) located in the Marcellus.	WVDEP	8/11/2009	FALSE	FALSE	SGE01114
1.3	EPA-HQ-OW-2014-0598-0002	Contaminant Characterization of Effluent from PA Brine Treatment Josephine Facility DCN SGE00002	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.	Volz, Conrad; Ferrar, Kyle; Michanowicz, D	3/25/2011	FALSE	FALSE	SGE00002
1.3	EPA-HQ-OW-2014-0598-0002	Contaminant Characterization of Effluent from PA Brine Treatment Josephine Facility_Abtract DCN SGE00002.A01	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.	Volz, Conrad; Ferrar, Kyle; Michanowicz, D	3/25/2011	FALSE	FALSE	SGE00002.A01
1.3	EPA-HQ-OW-2014-0598-0447	Comparison of Hydraulic Fracture Fluid Composition with Produced Formation Water Quality Following	A presentation on the comparison of hydraulic fracturing fluids composition with produced formation water following fracturing , focusing on the	McElreath, Debra	1/1/2011	FALSE	FALSE	SGE00006.A04

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Fracturing: Implications for Fate and Transport - DCN SGE00006.A04	implications for fate and transport.					
1.3	EPA-HQ-OW-2014-0598-0447	Flow of Gas and Water in Hydraulically Fractured Shale Gas Reservoirs - DCN SGE00006.A11	A presentation on flow of gas and water in hydraulically fractured shale gas reservoirs.	He, Zhong	3/28/2011	FALSE	FALSE	SGE00006.A11
1.3	EPA-HQ-OW-2014-0598-0747	Produced Water Reuse and Recycling Challenges and Opportunities Across Major Shale Plays DCN SGE00007.A10	A presentation on produced water reuse and recycling challenges and opportunities across major shale plays.	Mantell, Matthew	3/29/2011	FALSE	FALSE	SGE00007.A10
1.3	EPA-HQ-OW-2014-0598-0747	A Water Chemistry Perspective on Flowback Reuse with Several Case Studies DCN SGE00007.A11	A presentation on a water chemistry perspective on flowback reuse, focusing on case studies.	Minnich, Keith	3/30/2011	FALSE	FALSE	SGE00007.A11
1.3	EPA-HQ-OW-2014-0598-0747	Mid-Continent Water Management for Stimulation Operations - DCN SGE00007.A14	A presentation on mid-continent water management for stimulation operations.	Tipton, Steven	3/30/2011	FALSE	FALSE	SGE00007.A14
1.3	EPA-HQ-OW-2014-0598-0747	Toolbox Available to Treat Flowback and Produced Waters - DCN SGE00007.A15	A presentation on a toolbox used to treat flowback and produced waters.	Haggstrom, Johanna	1/1/2011	TRUE	FALSE	SGE00007.A15
1.3	EPA-HQ-OW-2014-0598-0747	Williams Fork, Piceance Basin: Flowback Water Reuse – Quality and Quantity - DCN SGE00007.A17	A presentation on flowback water reuse at Williams Fork in the Piceance Basin, focusing on quality and quantity.	Cooper, Jill	3/30/2011	FALSE	FALSE	SGE00007.A17

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.3	EPA-HQ-OW-2014-0598-0747	Wastewater from Gas Development: Chemical Signatures in the Monongahela Basin - DCN SGE00007.A23	A presentation on wastewater from gas development and chemical signatures in the Monongahela Basin.	Ziemkiewicz, Paul	3/30/2011	FALSE	FALSE	SGE00007.A23
1.3	EPA-HQ-OW-2014-0598-0299	Marcellus Shale Wastewater Issues in Pennsylvania - Current and Emerging Treatment and Disposal Technologies - DCN SGE00046	Article discusses wastewater generated by drilling, chemistry of the wastewater, fracking additives, TDS concentrations, and management options	Abdalla, C.; Drohan, J.; Blunk, K.; Edson, J.	4/1/2011	TRUE	FALSE	SGE00046
1.3	EPA-HQ-OW-2014-0598-0307	Cost Effective Recovery of Low-TDS Frac Flowback Water for Reuse - DCN SGE00070	Document about the possibility of using low TDS fracturing flowback water in a cost effective manner.	Acharya, Harish R.	6/1/2011	FALSE	FALSE	SGE00070
1.3	EPA-HQ-OW-2014-0598-0312	A White Paper Describing Produced Water from Production of Crude Oil, Natural Gas, and Coal Bed Methane DCN SGE00093	Report discusses produced water in various oil and gas operations, common constituents, volumes, and impacts of produced water. Also discusses produced water management and reuse options and regulations.	Veil, John A.; Puder, Markus G.; Elcock, Deborah; Redweik, Robert J. Jr.	1/1/2004	FALSE	FALSE	SGE00093
1.3	EPA-HQ-OW-2014-0598-0313	Water-Related Issues Associated with Gas Production in the Marcellus Shale - DCN SGE00095	Report discusses additives use, flowback quality and quantity, regulations, on-site treatment, green technologies, alternate water sources, and water well testing.	URS	3/25/2011	FALSE	FALSE	SGE00095

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.3	EPA-HQ-OW-2014-0598-0773	Is there a Basin-Centered Gas Accumulation in the Cotton Valley Group Sandstones, Gulf Coast Basin, U.S.A. DCN SGE00111	The paper reporting background information on the geology of the Cotton Valley sandstones including average water production rates.	Barterger, Charles	10/1/2001	FALSE	FALSE	SGE00111
1.3	EPA-HQ-OW-2014-0598-0793	Identifying and Remediating High Water Production Problems in Basin-Centered Formations DCN SGE00112	A report investigating historical produced water flow rates and composition of Wyoming tight gas reservoirs.	R.L. Billingsley	9/30/2005	FALSE	FALSE	SGE00112
1.3	EPA-HQ-OW-2014-0598-0774	Gas, Oil, and Water Production from the Wasatch Formation, Greater Natural Buttes Field, Uinta Basin, Uinta Basin, Utah DCN SGE00119	An article examining gas, water, and oil production rates of tight gas wells in Utah. It discusses trends observed over five years.	Nelson, Philip	1/1/2009	FALSE	FALSE	SGE00119
1.3	EPA-HQ-OW-2014-0598-0527	Evaluation of Water Production in Tight Gas Sands in the Cotton Valley Formation in the Caspiana, Elm Grove and Frierson Fields DCN SGE00121	A paper investigates the reason for high water production rates in parts of the Cotton Valley Formation (tight sands).	Ozobeme, Charles	1/1/2006	FALSE	FALSE	SGE00121
1.3	EPA-HQ-OW-2014-0598-0344	Oil and Gas Production Wastes - DCN SGE00136	A webpage that describes how radioactive materials end up in oil and gas waste including how much, types, health effects, and disposal options.	USEPA	8/23/2011	FALSE	FALSE	SGE00136

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.3	EPA-HQ-OW-2014-0598-0374	NIOSH Health Hazard Evaluation Report - DCN SGE00170	A report that investigates the potential exposure to NORM for employees working in the Hot Springs National Park (Arkansas).	NIOSH	9/1/2005	FALSE	FALSE	SGE00170
1.3	EPA-HQ-OW-2014-0598-0387	NORM Removal from Hydrofracturing Water - DCN SGE00234	Naturally occurring radioactive material (NORM), particularly 226Ra, is often found in hydrofracturing flowback water and produced water (both referred to as “frac” water) from shale gas wells.	Silvia, James; Mathis, Hope; Kostedt, Vi, William; Watkins, Vicki	11/13/2011	FALSE	FALSE	SGE00234
1.3	EPA-HQ-OW-2014-0598-0788	NYSDEC SGEIS Information Requests DCN SGE00243	A report that provides detailed underlying sampling data for 19 locations in Marcellus Shale. Detailed flowback volumes are also reported. Sampling data includes VOC results.	ALL Consulting	9/16/2010	FALSE	FALSE	SGE00243
1.3	EPA-HQ-OW-2014-0598-0548	Treatment of Coal Mine Drainage (CMD) for Beneficial Reuse DCN SGE00298.A01	Discusses potential for operators to treat CMD for beneficial reuse in hydraulic fracturing in the Marcellus.	Kozora, Charles	10/29/2012	FALSE	FALSE	SGE00298.A01
1.3	EPA-HQ-OW-2014-0598-0548	Assessing Specific Shale Plays - Niobrara - DCN SGE00298.A05	This presentation describes current activity in the Niobrara shale play.	Dhanasekar , Ashwin	10/29/2012	FALSE	FALSE	SGE00298.A05
1.3	EPA-HQ-OW-2014-0598-0560	Analyzing How Produced Water Reacts with Frac Fluids to Asses it's Compatibility with the	This presentation analyzes source water quality criteria for fracturing Bakken shale oil wells including the potential use of Bakken	Michael McKimmy	10/29/2012	FALSE	FALSE	SGE00305.A02

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Fluid and Formation DCN SGE00305.A02	wastewater and groundwater as fracturing base fluid.					
1.3	EPA-HQ-OW-2014-0598-0608	Best Practices for Preventing and Monitoring Spills and Leaks From Frac Water Containments to Avoid Surface Damage DCN SGE00311.A09	This presentation provides a summary of risks associated with handling shale gas wastewater.	Keith White	11/28/2012	FALSE	FALSE	SGE00311.A09
1.3	EPA-HQ-OW-2014-0598-0422	Evaluation of Potential Impacts of Hydraulic Fracturing Flowback Fluid Additives on Microbial Processes in Publicly-Owned Treatment Works (POTWs) DCN SGE00313	This document analyzes the potential effects of discharging Marcellus flowback to a POTW.	Gradient	12/31/2009	FALSE	FALSE	SGE00313
1.3	EPA-HQ-OW-2014-0598-0451	Study of the Potential Impacts of Hydraulic Fracturing on Drinking Water Resources DCN SGE00320	This report summarizes the progress of EPA's study on the potential impacts of hydraulic fracturing on drinking water resources	USEPA	12/1/2012	FALSE	FALSE	SGE00320
1.3	EPA-HQ-OW-2014-0598-0423	Water Management Planning in the Eagle Ford Shale Play - DCN SGE00321	This presentation provides general information on wastewater management and includes typical fracturing volumes for various shale plays.	Arthur, J. Daniel	8/24/2011	FALSE	FALSE	SGE00321
1.3	EPA-HQ-OW-2014-0598-0431	Hydraulic Fracturing Regulatory Processes in Louisiana - DCN SGE00343	This presentation provides actual water usage for fracturing in the Haynesville shale play of LA.	Welsh, James		FALSE	FALSE	SGE00343

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.3	EPA-HQ-OW-2014-0598-0432	Geochemical evaluation of flowback brine from Marcellus gas wells in Pennsylvania, USA - DCN SGE00344	This journal article compares Marcellus wastewater to ancient brines.	Haluszczak , Lara O.	10/2/2012	TRUE	FALSE	SGE00344
1.3	EPA-HQ-OW-2014-0598-0433	Wastewater Generation and Disposal from Natural Gas Wells in Pennsylvania - DCN SGE00345	This report analyzes wastewater volumes generated in the Marcellus and projects future capacity of disposal practices.	Lewis, Aurana	5/1/2012	FALSE	FALSE	SGE00345
1.3	EPA-HQ-OW-2014-0598-0435	Bakken Water Opportunities Assessment - Phase 1 - DCN SGE00350	This report describes wastewater volumes, wastewater characteristics, and wastewater management in the Bakken shale play.	Stepan, Daniel et al.	4/1/2010	FALSE	FALSE	SGE00350
1.3	EPA-HQ-OW-2014-0598-0437	Post-frac Flowback Analysis and Reuse Implications DCN SGE00357	This presentation provides some general pollutant concentration data for various shale plays.	Cramer, John	12/7/2011	FALSE	FALSE	SGE00357
1.3	EPA-HQ-OW-2014-0598-0438	Treatment of Flow Back and Produced Water from the Hydraulic Fracturing of Oil – Shale - DCN SGE00358	This presentation provides treatment performance data for electrocoagulation along with flowback pollutant concentrations for various shale plays.	Ecolotron Water Recovery Systems	1/1/2012	TRUE	FALSE	SGE00358
1.3	EPA-HQ-OW-2014-0598-0439	Key Considerations for Frac Flowback / Produced Water Reuse and Treatment DCN SGE00359	This presentation provides TDS concentrations for various shale plays around the country.	Kimball, Robert	5/1/2012	FALSE	FALSE	SGE00359
1.3	EPA-HQ-OW-2014-	Current NETL Water Management R&D	This presentation provides pollutant concentrations for	Pike, Bill		FALSE	FALSE	SGE00360

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0791	Efforts Drilling Engineering Association Quarterly Forum DCN SGE00360	the Woodford, Marcellus, and Bakken Shale plays.					
1.3	EPA-HQ-OW-2014-0598-0697	Feasibility and Design Approach for Automated Classification and Segregation of Early Flowback Water for Reuse in Shale-Gas Hydraulic Fracturing Report No. 08122-05.06 DCN SGE00413	This report investigates the design of a wastewater management system to segregate early flowback water for reuse.	Peter Galusky, et al	7/21/2011	FALSE	FALSE	SGE00413
1.3	EPA-HQ-OW-2014-0598-0498	Characterization of Flowback Waters from the Marcellus and the Barnett Shale Regions Report No. 08122-05.09 - DCN SGE00414	This report investigates the characterization of flowback waters from the Marcellus and Barnett.	Hayes, Thomas; Severin, Blaine F.	3/16/2012	FALSE	FALSE	SGE00414
1.3	EPA-HQ-OW-2014-0598-0501	Water Requirements and Sustainable Sources in the Barnett Shale - DCN SGE00422	A presentation that provides information on Devon Energy's evaporation/condensation treatment operation in the Barnett including detailed data on distillate recovery as a function of influent TDS.	Werline, James	3/29/2011	FALSE	FALSE	SGE00422
1.3	EPA-HQ-OW-2014-0598-0564	Materials for the Mississippi Lime Production &	A memorandum containing conference materials the Mississippi Lime	Camp, Meghan	6/26/2013	FALSE	FALSE	SGE00442

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Produced Water Congress 2013 DCN SGE00442	Production & Produced Water Congress of 2013.					
1.3	EPA-HQ-OW-2014-0598-0564	Case Study: Design, Implementation and Operation of an Effective Water Transfer System in the Mississippi Lime DCN SGE00442.A01	Case Study: Design, Implementation and Operation of an Effective Water Transfer System in the Mississippi Lime presentation	Black, Galyn	6/26/2013	FALSE	FALSE	SGE00442.A01
1.3	EPA-HQ-OW-2014-0598-0565	Radioactivity in Marcellus Shale Challenge for Regulators and Water Treatment Plants DCN SGE00457	Radioactivity in Marcellus Shale Challenge for Regulators and Water Treatment Plants	Resnikoff, Marvin		FALSE	FALSE	SGE00457
1.3	EPA-HQ-OW-2014-0598-0509	Energy Water Conservation & Recycling 33rd Annual Governor's Water Conference - DCN SGE00480	Energy Water Conservation & Recycling 33rd Annual Governor's Water Conference presentation	Luedecke, Richard	11/13/2012	FALSE	FALSE	SGE00480
1.3	EPA-HQ-OW-2014-0598-0569	Shale Gas Development Impacts on Surface Water Quality in Pennsylvania DCN SGE00483	Shale Gas Development Impacts on Surface Water Quality in Pennsylvania	Olmstead, Meuhlenbachs, Shih, Chu, Krupnick	3/11/2013	FALSE	FALSE	SGE00483
1.3	EPA-HQ-OW-2014-0598-0523	Balancing Environmental Risks with Recycling of Produced Water - DCN SGE00500	A technical presentation at the 2013 Ground Water Protection Council, focused on produced water recycling benefits, risks, and regulatory challenges.	Arthur, JD; et al	9/22/2013	TRUE	FALSE	SGE00500

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.3	EPA-HQ-OW-2014-0598-0570	Modeling of Frac Flowback and Produced Water Volume from Wattenberg Oil and Gas Field - DCN SGE00501	A journal article which describes models for predicting frac flowback and produced water volumes for different types of oil and gas wells. Water production data from the Colorado Oil and Gas Conservation Commission and Noble Energy Inc. were used for both	Bai, Bing; Goodwin, Stephen; Carlson, Ken	5/29/2013	TRUE	FALSE	SGE00501
1.3	EPA-HQ-OW-2014-0598-0607	Field Sampling Plan: Characterization of Naturally Occurring Radioactive Materials in the Oil and Gas Field - DCN SGE00544	This plan describes efforts to obtain samples from potential sources of naturally occurring radioactive material and technologically enhanced radioactive material related to the oil and gas exploration activities.	Marcellus Shale Coalition	11/4/2013	FALSE	FALSE	SGE00544
1.3	EPA-HQ-OW-2014-0598-0050	Current and Projected Water Use in the Texas Mining and Oil and Gas Industry - DCN SGE00556	This is a study of water use in the mining industry in Texas.	Nicot, Jean-Philippe	2/1/2011	FALSE	FALSE	SGE00556
1.3	EPA-HQ-OW-2014-0598-0668	2011 Utica Shale Production - DCN SGE00559	A spreadsheet detailing oil, gas, and brine production volume by well in the Utica Shale.	Ohio Department of Natural Resources (OHDNR)	1/1/2012	FALSE	FALSE	SGE00559
1.3	EPA-HQ-OW-2014-0598-0763	2012 Utica Shale Production - DCN SGE00560	A spreadsheet detailing oil, gas, and brine production volume by well in the Utica Shale.	Ohio Department of Natural Resources	1/1/2013	FALSE	FALSE	SGE00560

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
				(OHDNR)				
1.3	EPA-HQ-OW-2014-0598-0055	Trihalomethane Speciation and the Relationship to Elevated Total Dissolved Solid Concentrations Affecting Drinking Water Quality at Systems Utilizing the Monongahela River as a Primary Source During the 3rd and 4th Quarters of 2008 - DCN SGE00567	This report describes measurements of DBPs in Pennsylvania surface waters.	PA DEP	1/1/2008	FALSE	FALSE	SGE00567
1.3	EPA-HQ-OW-2014-0598-0067	Wastewater Management and Marcellus Shale Gas Development: Trends, Drivers, and Planning Implications - DCN SGE00579	This paper examines wastewater management practices and trends and analyzes the tracking and transport of shale gas liquid waste streams originating in Pennsylvania.	Rahm, Brian	3/15/2013	TRUE	FALSE	SGE00579
1.3	EPA-HQ-OW-2014-0598-0079	Biosolids Generation, Use, and Disposal in the United States - DCN SGE00599	This report describes biosolid generation, use, disposal, treatment, and trends.	USEPA	9/1/1993	FALSE	FALSE	SGE00599
1.3	EPA-HQ-OW-2014-0598-0093	Summary of the Technical Workshop on Wastewater Treatment and Related Modeling - DCN SGE00616	This document summarizes the April 18, 2013 Workshop studying potential impacts of hydraulic fracturing on drinking water resources.	USEPA	7/1/2013	FALSE	FALSE	SGE00616
1.3	EPA-HQ-OW-2014-	Energy-Water-Nexus. Information on the	A report to congress on produced water.	US GAO	1/1/2012	FALSE	FALSE	SGE00623

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0098	Quantity, Quality, and Management of Water Produced During Oil and Gas Production - DCN SGE00623						
1.3	EPA-HQ-OW-2014-0598-0103	Oil and Gas Produced Water Management and Surface Drinking Water Sources in Pennsylvania - DCN SGE00633	This study evaluates produced water management in Pennsylvania from 2006 to 2011 to determine whether surface water discharges were sufficient t cause salt or bromide loads that would negatively affect drinking water sources.	Wilson, Jessica; VanBriesen , Jeanne	12/1/2012	TRUE	FALSE	SGE00633
1.3	EPA-HQ-OW-2014-0598-0105	Reuse of Produced Water For Hydraulic Fracturing - DCN SGE00637.A05	A presentation on water quality and treatment technology for reuse.	Vidic, Radisav	1/1/2013	FALSE	FALSE	SGE00637.A05
1.3	EPA-HQ-OW-2014-0598-0760	2013 Produced Water Reuse Initiative Conference Material DCN SGE00638	This memorandum provides the conference materials from the 2013 Produced Water Reuse Initiative Conference as attachments.	Ruminski, Brent	1/21/2014	FALSE	FALSE	SGE00638
1.3	EPA-HQ-OW-2014-0598-0760	Water Infrastructure Analysis and Optimization DCN SGE00638.A01	A presentation describing model output analysis for water infrastructure needs.	Carlson, Ken; Goodwin, Stephen; Ellerbroek, David	10/29/2013	FALSE	FALSE	SGE00638.A01
1.3	EPA-HQ-OW-2014-0598-0760	H2OForward Service - Sustainable Development of Completions - DCN	A presentation which discusses produced water recycling treatment options.	Walter, Dale	10/29/2013	TRUE	FALSE	SGE00638.A11

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		SGE00638.A11						
1.3	EPA-HQ-OW-2014-0598-0106	Oil & Gas Water Use in Texas: Update to the 2011 Mining Water Use Report - DCN SGE00639	A report that analyzes water consumption for hydraulic fracturing in Texas.	Tinker, Scott	9/1/2012	FALSE	FALSE	SGE00639
1.3	EPA-HQ-OW-2014-0598-0107	Predictions Of Produced Water Quality And Quantity For Spatially-Distributed Wells In Niobrara Formation - DCN SGE00640	A report that looks at UOG wastewater generation from Niobrara shale wells.	Mingazetdinov, Ildus	10/1/2012	FALSE	FALSE	SGE00640
1.3	EPA-HQ-OW-2014-0598-0108	Geographical, Geological, and Hydrogeological Attributes of Formations in the Footprint of the Eagle Ford Shale - DCN SGE00641	A report that analyzes water consumption for hydraulic fracturing in Texas.	Nicot, Jean-Philippe	2/1/2013	FALSE	FALSE	SGE00641
1.3	EPA-HQ-OW-2014-0598-0109	Life Cycle Analysis of Water Use and Intensity of Oil and Gas Recovery in Wattenberg field, Colorado - DCN SGE00642	A journal article that summarizes Noble Energy's water use and generation for hydraulic fracturing in the Codell-Niobrara formation.	Goodwin, Stephan et al.	5/7/2012	FALSE	FALSE	SGE00642
1.3	EPA-HQ-OW-2014-0598-0167	A Technical and Economical Study of Completion Techniques in Five Emerging. U.S. Shale Plays - DCN	Thesis: Technical and economic study report on completion techniques in five emerging U.S. Gas Shale Plays. Study summarizes literature	Agrawal, Archana	12/1/2009	FALSE	FALSE	SGE00719

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		SGE00719	review of geologic paramters effecting completion techniques, different completion methods, development of economic mod					
1.3	EPA-HQ-OW-2014-0598-0628	Analysis of Hydraulic Fracturing Fluid Data from the FracFocus Chemical Disclosure Registry 1.0 - DCN SGE00721	Report evaluating hydraulic fracturing fluid data reported in the FracFocus Registry. Includes discussion of methology for extracting and analyzing the data and presents results of data on base fluids, proppants, and chemicals.	USEPA	3/1/2015	FALSE	FALSE	SGE00721
1.3	EPA-HQ-OW-2014-0598-0169	Water Management in Shale Gas Plays - DCN SGE00722	IHS white paper on water management in shale gas plays. Includes information on process flow including water treatment, transportation, and disposal and cost optimization modeling.	IHS, Inc	8/1/2014	TRUE	FALSE	SGE00722
1.3	EPA-HQ-OW-2014-0598-0629	Hydrogen Sulfide ToxFAQs - DCN SGE00723	A report that presents information on hydrogen sulfide and its effects on human health.	ATSDR	7/1/2006	FALSE	FALSE	SGE00723
1.3	EPA-HQ-OW-2014-0598-0170	Characterization of Organics in the Marcellus Shale Flowback and Produced Waters - DCN SGE00725	Master's thesis about organic constituents in Marcellus Shale wastewater.	Wolford, Robert	8/1/2011	TRUE	FALSE	SGE00725
1.3	EPA-HQ-	2013 Quarterly	A spreadsheet detailing oil,	Ohio	1/1/2014	TRUE	FALSE	SGE00727

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	OW-2014-0598-0171	Horizontal Shale Production: 3rd Quarter - DCN SGE00727	gas, and brine production volume by well in the Utica Shale.	Department of Natural Resources				
1.3	EPA-HQ-OW-2014-0598-0651	2013 Quarterly Horizontal Shale Production: 4th Quarter DCN SGE00737	A spreadsheet detailing oil, gas, and brine production volume by well in the Utica Shale.	Ohio Department of Natural Resources		TRUE	FALSE	SGE00737
1.3	EPA-HQ-OW-2014-0598-0204	The Environmental Behaviour of Radium: Revised Edition DCN SGE00769	Report about radium that includes the following information: radium properties, radium in the environment, environmental pathways, dose assessment, mitigation and remediation issues, and case studies.	IAEA	3/1/2014	TRUE	FALSE	SGE00769
1.3	EPA-HQ-OW-2014-0598-0207	RE: Public Records Request - Frack Waste - Solids and Fluids - Norm DCN SGE00773 Tenorm	Response from Ohio Department of Health to a public data request containing radioactive constituent results of Utica cuttings, drilling fluid, flowback, and produced waters.	Helmer, Stephen	1/21/2014	FALSE	FALSE	SGE00773
1.3	EPA-HQ-OW-2014-0598-0208	Water Quality Literature Review and Field Monitoring of Active Shale Gas Wells. Phase I: Assessing Environmental Impacts of Horizontal Gas Well Drilling Operations	WV DEP Final Report on the water quality literature review and field monitoring of active shale gas wells. Includes results of the literature review, water and waste stream monitoring including the plan, data analysis, and results.	Ziemkiewicz, Paul	2/15/2013	FALSE	FALSE	SGE00774

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		DCN SGE00774						
1.3	EPA-HQ-OW-2014-0598-0633	Uinta Water Management DCN SGE00777	PowerPoint presentation from Water Management for Shale Plays Conference (May 2014) about Uinta water management practices.	Johnson, Tommy and Harry, David	5/28/2014	FALSE	FALSE	SGE00777
1.3	EPA-HQ-OW-2014-0598-0212	Hydraulic Fracturing Fluid DCN SGE00780	List of fracking chemicals	Exxon-Mobile	1/1/2014	TRUE	FALSE	SGE00780
1.3	EPA-HQ-OW-2014-0598-0213	What Chemicals Are Used DCN SGE00781	List of fracking chemicals	FracFocus	1/1/2014	TRUE	FALSE	SGE00781
1.3	EPA-HQ-OW-2014-0598-0634	About TENORM DCN SGE00795	EPA webpage on TENORM including why EPA is concerned, what EPA is doing, and TENORM producing industries.	USEPA	8/30/2012	FALSE	FALSE	SGE00795
1.3	EPA-HQ-OW-2014-0598-0636	Fate of Priority Pollutants in Publicly Owned Treatment Works Final Report DCN SGE00803	Final report on the fate of priority pollutants in publicly owned treatment works.	USEPA	9/30/1982	FALSE	FALSE	SGE00803
1.3	EPA-HQ-OW-2014-0598-0329	Letter to Lee McDonnell, PA DEP informing NPDES of testing as part of the permit application - DCN SGE00935	Conventional and unconventional pollutants must be tested by existing dischargers as part of the permit application process.	Capacasa, Jon M.	8/28/2013	FALSE	FALSE	SGE00935
1.3	EPA-HQ-OW-2014-0598-0329	Toxic Screening Analysis Spreadsheet - DCN SGE00935.A01	Toxic Screening Analysis Spreadsheet	U.S. EPA R3	8/28/2013	FALSE	FALSE	SGE00935.A01
1.3	EPA-HQ-	An Investigation of	Investigation report of	NYSDEC	4/1/1999	FALSE	FALSE	SGE00949

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	OW-2014-0598-0612	Naturally Occurring Radioactive Materials (NORM) in Oil and Gas Wells in New York State. NYSDEC DCN SGE00949	naturally occurring radioactive materials (NORM) in oil and gas wells in New York State. Report includes background and procedures for selecting sampling and survey locations, a presentation and analysis of results, and discussion.					
1.3	EPA-HQ-OW-2014-0598-0364	Otsego County, Utica Water Analysis DCN SGE00953	Utica water analysis from residential wells and surface waters compared to Ross Utica flowback analysis.	Sulkey, Aaron		FALSE	FALSE	SGE00953
1.3	EPA-HQ-OW-2014-0598-0724	USGS Produced Water Database screen shot Accessed on November 25, 2013 DCN SGE00955	Web page on USGS national produced waters geochemical database v2.0 (provisional).	USGS	11/25/2013	FALSE	FALSE	SGE00955
1.3	EPA-HQ-OW-2014-0598-0366	U.S. Geological Survey National Produced Waters Geochemical Database v2.0 (PROVISIONAL) DCN SGE00956	Documentation on USGS's national produced waters geochemical database v2.0 (provisional).	USGS	4/4/2014	FALSE	FALSE	SGE00956
1.3	EPA-HQ-OW-2014-0598-0670	2013 Quarterly Horizontal Shale Production: 1st Quarter DCN SGE00964	A spreadsheet detailing oil, gas, and brine production volume by well in the Utica Shale.	Ohio Department of Natural Resources	1/1/2014	FALSE	FALSE	SGE00964
1.3	EPA-HQ-OW-2014-0598-0671	2013 Quarterly Horizontal Shale Production: 2nd Quarter DCN SGE00965	A spreadsheet detailing oil, gas, and brine production volume by well in the Utica Shale.	Ohio Department of Natural Resources	1/1/2014	FALSE	FALSE	SGE00965

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.3	EPA-HQ-OW-2014-0598-0620	PA DEP TENORM Study - Update 2nd Quarter 2014 DCN SGE00978	Presentation providing the 2nd quarter 2014 update on the PA DEP TENORM Study, July 2014.	PA DEP	7/1/2014	FALSE	FALSE	SGE00978
1.3	EPA-HQ-OW-2014-0598-0743	Composition and Properties of Drilling and Completion Fluids. 6th edition DCN SGE01009	Composition and Properties of Drilling and Completion Fluids, Sixth Edition.	Caen, R., Darley, H.C.H., and G. R. Gray.	1/1/2011	TRUE	FALSE	SGE01009
1.3	EPA-HQ-OW-2014-0598-0389	Technologically Enhanced Naturally Occurring Radioactive Materials (TENORM) Study Report DCN SGE01028	Study of radioactivity exposure to workers who work with oil and gas extraction wastewater	PA DEP	1/1/2015	FALSE	FALSE	SGE01028
1.3	EPA-HQ-OW-2014-0598-0389	APPENDIX A ADDITIONAL GEOLOGICAL INFORMATION – DCN SGE01028.A01 GEOLOGY OF MARCELLUS SHALE AND OTHER PENNSYLVANIA SHALE FORMATIONS DCN SGE01028.A01	Additional geological information for Marcellus shale and other shale formations in Pennsylvania. Includes rock formation sample analyses.	PA DEP	1/1/2015	FALSE	FALSE	SGE01028.A01
1.3	EPA-HQ-OW-2014-0598-0389	APPENDIX B FIELD INSTRUMENTATION QC DOCUMENTATION DCN SGE01028.A02	Field instrumentation quality control documentation.	PA DEP Protection	1/1/2015	FALSE	FALSE	SGE01028.A02
1.3	EPA-HQ-	APPENDIX C	Gamma spectroscopy	PA DEP	1/1/2015	FALSE	FALSE	SGE01028.A03

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	OW-2014-0598-0389	GAMMA SPECTROSCOPY ANALYTICAL RESULTS DCN SGE01028.A3	analytical results for drill cuttings, proppant sand, flowback solids and fluids, produced waters, POTW solids and fluids, CWT effluent, ZLD solids and effluent, landfill leachate and bulking solids, and background.					
1.3	EPA-HQ-OW-2014-0598-0389	APPENDIX D TOTAL AND REMOVABLE ALPHA/BETA SURFACE RADIOACTIVITY RESULTS DCN SGE01028.A04	Total and removable alpha/beta surface radioactivity results for well sites.	PA DEP	1/1/2015	FALSE	FALSE	SGE01028.A04
1.3	EPA-HQ-OW-2014-0598-0389	APPENDIX E GROSS GAMMA RADIATION SURVEY FIGURES DCN SGE01028.A05	Gross gamma radiation survey figures for well sites.	PA DEP	1/1/2015	FALSE	FALSE	SGE01028.A05
1.3	EPA-HQ-OW-2014-0598-0389	APPENDIX F XRF ANALYTICAL ANALYSES RESULTS DCN SGE01028.A06	Solid and Liquid XRF analytical analysis results.	PA DEP	1/1/2015	FALSE	FALSE	SGE01028.A06
1.3	EPA-HQ-OW-2014-0598-0389	APPENDIX G T-TEST OUTPUT FILES DCN SGE01028.A07	T-test output files.	PA DEP	1/1/2015	FALSE	FALSE	SGE01028.A07
1.3	EPA-HQ-OW-2014-0598-0389	Appendix H Radon Monitor-Sample Analytical Analyses	Radon monitoring analytical analysis reports.	PA DEP	1/1/2015	FALSE	FALSE	SGE01028.A08

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Reports DCN SGE01028.A08						
1.3	EPA-HQ-OW-2014-0598-0389	APPENDIX I FILTERED VERSUS UNFILTERED LIQUID SAMPLE COMPARISON DCN SGE01208.A09	Evaluation of the effects of laboratory filtering on sample activity for CWT, ZLD, POTW, and produced water samples from well sites.	PA DEP	1/1/2015	FALSE	FALSE	SGE01028.A09
1.3	EPA-HQ-OW-2014-0598-0389	APPENDIX J MICROSHIELD® OUTPUT FILES DCN SGE01028.A10	Microshield output files for the following scenarios: wastewater truck driver with 3,800 gallons at the DOT limit, solid waste roll-off at the DOT limit, and solid waste container on Day 1, 3, 10, 21, and 28.	PA DEP	1/1/2015	FALSE	FALSE	SGE01028.A10
1.3	EPA-HQ-OW-2014-0598-0389	Appendix K Laboratory Data Report DCN SGE01028.A11	Screen shot of the Appendix K Lab Data Report Screen for 2900-RE-DEP4478.	PA DEP	1/1/2015	FALSE	FALSE	SGE01028.A11
1.3	EPA-HQ-OW-2014-0598-0389	APPENDIX L PEER REVIEW COMMENT AND RESOLUTION DOCUMENT DCN SGE01028.A12	Peer review comment and resolution table for the PA TENORM Study Report.	PA DEP	1/1/2015	FALSE	FALSE	SGE01028.A12
1.4	EPA-HQ-OW-2014-0598-0447	Contaminant Characterization of Effluent from Pennsylvania Brine Treatment Inc., Josephine Facility: Implications for Disposal of Oil and Gas Flowback Fluids	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.	Volz, Conrad; et al		FALSE	FALSE	SGE00006.A02

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		from Brine Treatment Plants DCN SGE00006.A02						
1.4	EPA-HQ-OW-2014-0598-0747	Characterization of Marcellus Shale and Barnett Shale Flowback Waters and Technology Development for Water Reuse DCN SGE00007.A13	A presentation on characterization of Marcellus and Barnett Shale flowback waters and technology development for water reuse.	Hayes, Tom	3/30/2011	FALSE	FALSE	SGE00007.A13
1.4	EPA-HQ-OW-2014-0598-0747	Treatment of Shale Gas Produced Water for Discharge - DCN SGE00007.A18	A presentation on the treatment of shale gas produced water for discharge.	Alleman, David	3/30/2011	TRUE	FALSE	SGE00007.A18
1.4	EPA-HQ-OW-2014-0598-0292	Water Management Technologies Used by Marcellus Shale Gas Producers - DCN SGE00011	A report on water management technologies used by Marcellus Shale gas producers.	Veil, John	7/1/2010	FALSE	FALSE	SGE00011
1.4	EPA-HQ-OW-2014-0598-0311	Optimizing Fracturing Fluids from Flowback Water DCN SGE00091	An article about the design and procedures of reusing flowback and produced water as hydraulic fracturing fluids.	Rimassa, Shawn; Howard, Paul; Blow, Kristel; Schlumberger	6/1/2009	TRUE	FALSE	SGE00091
1.4	EPA-HQ-OW-2014-0598-0314	Advanced Membrane Filtration Technology for Cost Effective Recovery of Fresh Water from Oil & Gas Produced Brine - DCN SGE00099	The main objective of the document is to conduct a cost analysis of a mobile RO unit in the Barnett shale play. The document also investigates the basics of produced water	Burnett, David	7/1/2006	FALSE	FALSE	SGE00099

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
			management and the potential for desalination of produced brine.					
1.4	EPA-HQ-OW-2014-0598-0315	Produced Water Management and Beneficial Use - DCN SGE00100	The report evaluates a number of water management options available to CBM operators from a cost-effective and environmentally-sound point of view.	Brown, Terry	1/1/2009	FALSE	FALSE	SGE00100
1.4	EPA-HQ-OW-2014-0598-0772	Marcellus Shale (Pennsylvania/New York) DCN SGE00102	Gives brief background on the Marcellus shale and then describes the company's mobile evaporation treatment system	Foutainuail Wastewater Mgmt	1/1/2011	TRUE	FALSE	SGE00102
1.4	EPA-HQ-OW-2014-0598-0316	An Overview of Deionization Technology - DCN SGE00103	Gives principles of operation of ion exchange.	Aqua Tech	11/30/2011	TRUE	FALSE	SGE00103
1.4	EPA-HQ-OW-2014-0598-0317	Cabot Gas Well Treated with 100% Reused Frac Fluid - DCN SGE00105	A case study on treating wastewater onsite and reusing for fracturing without dilution.	Papso, John	1/1/2010	TRUE	FALSE	SGE00105
1.4	EPA-HQ-OW-2014-0598-0325	Total Water Management for the Oil & Gas Industry - DCN SGE00108	A background on technology offered by Siemens for both the oil and gas industry in wastewater management. Contains a page that specifically describes wastewater treatment for the shale gas industry and lists four mobile treatment units.	Siemens	1/1/2011	TRUE	FALSE	SGE00108

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.4	EPA-HQ-OW-2014-0598-0326	Water Reuse: An Integrated Approach to Managing the World's Water Resources. Chapter 9. Removal of Dissolved Constituents with Membranes - DCN SGE00109	A textbook chapter covering the basic operation of reverse osmosis, electro dialysis, and evaporation. Specific information covered includes energy usage, design constraints, advantages, and disadvantages.	Asano, Takashi	1/1/2007	TRUE	FALSE	SGE00109
1.4	EPA-HQ-OW-2014-0598-0723	An Integrated Water Treatment Technology Solution for Sustainable Water Resource Management in the Marcellus Shale - DCN SGE00110	A report investigating sustainable solutions for wastewater from the Marcellus Shale. A life cycle analysis is presented on the AltelaRain 4000 evaporation system.	Bruff, Matthew	6/30/2011	FALSE	FALSE	SGE00110
1.4	EPA-HQ-OW-2014-0598-0526	Applying Membranes to Produced Water Treatment: High Recovery Reverse Osmosis Treatment Process DCN SGE00117	A presentation discussing an advanced water treatment system designed by CDM for natural gas wastewater. The system includes an RO and thermal distillation and evaporation unit to accomplish zero liquid discharge	Kimball, Bob	11/1/2008	FALSE	FALSE	SGE00117
1.4	EPA-HQ-OW-2014-0598-0328	Dewvaporation Desalination 5,000-Gallon-Per-Day Pilot Plant - DCN SGE00124	A case study on an evaporation/distillation treatment technology for industrial wastewater treatment (10,000 to 45,000 mg/L TDS).	Beckman, James	6/1/2008	FALSE	FALSE	SGE00124
1.4	EPA-HQ-OW-2014-	Process Water Recycling	A data/fact sheet from Provaris that gives	Provaris		FALSE	FALSE	SGE00125

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0337	Technologies - DCN SGE00125	background information on membrane technologies.					
1.4	EPA-HQ-OW-2014-0598-0338	Application of Electrodialysis Reversal Process to Remediate a Brine-Impacted Aquifer - DCN SGE00126	A case study on utilizing EDR to treat brackish water from an aquifer.	Reed, A.; Reed Jr. A	1/1/2002	FALSE	FALSE	SGE00126
1.4	EPA-HQ-OW-2014-0598-0339	Wastewater Technology Fact Sheet: Chemical Precipitation - DCN SGE00127	A fact sheet that describes advantages, disadvantages, additive chemicals, costs, and targeted pollutants.	USEPA	9/1/2000	FALSE	FALSE	SGE00127
1.4	EPA-HQ-OW-2014-0598-0688	Ion Exchange - DCN SGE00129	Article gives some general background information on ion exchange and then provides approximate costs (both capital and O&M) as a function of the unit size.	Water Research Foundation		FALSE	FALSE	SGE00129
1.4	EPA-HQ-OW-2014-0598-0341	Underground Injection Control Program - DCN SGE00132	A webpage that describes background on underground injection, provides technical documents on underground injection, and case studies on underground injection.	USEPA	7/1/2011	FALSE	FALSE	SGE00132
1.4	EPA-HQ-OW-2014-0598-0345	Underground Injection Well Inventory 2010 - DCN SGE00138	A data sheet that breaks down the number of injection wells by state and category.	USEPA	1/1/2010	FALSE	FALSE	SGE00138
1.4	EPA-HQ-OW-2014-0598-0346	Offsite Commercial Disposal of Oil and Gas Exploration and Production Waste: Availability, Options,	A report that provides state-by-state summaries of the types of offsite commercial disposal facilities available for oil and gas wastes	Veil, John, Puder, M.	8/1/2006	FALSE	FALSE	SGE00139

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		and Costs - DCN SGE00139	including detailed cost information by company.					
1.4	EPA-HQ-OW-2014-0598-0347	Water Treatment Technology Fact Sheet: Crystallization - DCN SGE00140	A data/fact sheet that describes crystallization process description, technical capabilities, technical limitations, and costs.	ALL Consulting	1/1/2011	FALSE	FALSE	SGE00140
1.4	EPA-HQ-OW-2014-0598-0349	Water Treatment Technology Fact Sheet: Electrodialysis - DCN SGE00141	A data/fact sheet that describes electro dialysis process description, technical capabilities, technical limitations, and costs.	ALL Consulting	1/1/2011	FALSE	FALSE	SGE00141
1.4	EPA-HQ-OW-2014-0598-0350	Water Treatment Technology Fact Sheet: Ion Exchange - DCN SGE00142	A data/fact sheet that describes ion exchange process description, technical capabilities, technical limitations, and costs.	ALL Consulting	1/1/2011	FALSE	FALSE	SGE00142
1.4	EPA-HQ-OW-2014-0598-0351	Water Treatment Technology Fact Sheet: Thermal Evaporation Distillation - DCN SGE00144	A data/fact sheet that describes thermal evaporation/distillation process description, technical capabilities, technical limitations, and costs.	ALL Consulting	1/1/2011	FALSE	FALSE	SGE00144
1.4	EPA-HQ-OW-2014-0598-0352	Technology Data Sheet: MULTIFLO TM Technology, a Transportable Water Treatment Solution for Shale Gas Exploration - DCN SGE00145	A data sheet that describes a chemical precipitation unit designed for the shale gas industry by Veolia Water.	Veolia Water	1/1/2011	FALSE	FALSE	SGE00145

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.4	EPA-HQ-OW-2014-0598-0775	Sustainable Water Management for Marcellus Shale Development DCN SGE00146	A presentation that describes the challenges of Marcellus wastewater management.	Vidic, Radisav D.	1/1/2010	FALSE	FALSE	SGE00146
1.4	EPA-HQ-OW-2014-0598-0354	EVRAS Evaporation Reduction and Solidification - DCN SGE00149	A fact sheet that describes the technical capabilities of the EVRAS, an evaporation/crystallization technology produced by Intervras.	Intervras Technologies, LLC	1/1/2011	FALSE	FALSE	SGE00149
1.4	EPA-HQ-OW-2014-0598-0357	Why So Many Drilling Companies Rely on Flottweg Decanters for Drilling Mud Control - DCN SGE00156	A fact sheet that describes what mud decanters are used for and how they work including technical data of specific models offered by the company.	Flottweg Separation Tech	1/1/2011	FALSE	FALSE	SGE00156
1.4	EPA-HQ-OW-2014-0598-0358	EVRAS Evaporation Technology - DCN SGE00160	A teleconference call with a sales manager from INTERVRAS discussing a crystallization/evaporation wastewater treatment technology for shale gas operators.	Adams, Andy	9/26/2011	FALSE	FALSE	SGE00160
1.4	EPA-HQ-OW-2014-0598-0359	Siemens Reverse Osmosis Technology - DCN SGE00161	A teleconference call with engineers from Siemens discussing reverse osmosis as a wastewater treatment technology for shale gas operators.	Alexander, Jerry	9/28/2011	FALSE	FALSE	SGE00161
1.4	EPA-HQ-OW-2014-0598-0360	Higgins™ Loop Technology - DCN SGE00162	A teleconference call with a sales manager from EMIT Water Technologies discussing the Higgins™	Beagle, Douglas	9/26/2011	FALSE	FALSE	SGE00162

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
			Loop Ion Exchange unit as a wastewater treatment technology for shale gas operators.					
1.4	EPA-HQ-OW-2014-0598-0361	GPRI Reverse Osmosis Research - DCN SGE00163	A teleconference call with a researcher from Global Petroleum Research Institute discussing reverse osmosis as a wastewater treatment technology for shale gas operators.	Burnett, David	9/26/2011	FALSE	FALSE	SGE00163
1.4	EPA-HQ-OW-2014-0598-0372	Severn Trent: Higgins Loop™ - DCN SGE00164	A teleconference call with an engineer from Severn Trent discussing the Higgins Loop™ as a wastewater treatment technology for shale gas operators.	Dennis, Rich	9/26/2011	FALSE	FALSE	SGE00164
1.4	EPA-HQ-OW-2014-0598-0373	Drake Water Technologies: Ionflo - DCN SGE00165	A teleconference call with the inventor of an ion exchange technology called IONFLO. The discussion included limitations, costs, energy consumption, and advantages of the ion exchange technology.	Drake, Ron	9/26/2011	FALSE	FALSE	SGE00165
1.4	EPA-HQ-OW-2014-0598-0528	Physiochemical Processes: For Water Quality Control - DCN SGE00166	A textbook that discusses various wastewater treatment technologies. Discussions include basic principles and process descriptions. Sometimes descriptions are math intensive.	Weber, Walter	1/1/1972	TRUE	FALSE	SGE00166
1.4	EPA-HQ-	Wastewater	A textbook that describes	Metcalf	1/1/2003	TRUE	FALSE	SGE00167

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	OW-2014-0598-0529	Engineering: Treatment and Reuse - DCN SGE00167	various wastewater treatment technologies from an engineering perspective and in reuse applications.	and Eddy				
1.4	EPA-HQ-OW-2014-0598-0376	The Electrodialysis Alternative for Produced Water Management - DCN SGE00175	Article on electrodialysis as an economical separation process in the treatment of brackish water and as a treatment for the processing of produced waters with weak to moderate levels of TDS.	Hayes, Tom	9/1/2004	FALSE	FALSE	SGE00175
1.4	EPA-HQ-OW-2014-0598-0530	Water Treatment: Principles and Design - DCN SGE00177	A textbook that provides technical information on various wastewater treatment technologies: ion exchange, reverse osmosis, and other less advanced treatment technologies.	Crittenden, John	1/1/2005	TRUE	FALSE	SGE00177
1.4	EPA-HQ-OW-2014-0598-0546	Water Quality & Treatment: A Handbook of Community Water Supplies - DCN SGE00178	A textbook that provides technical information on various wastewater treatment technologies.	American Water Works Association (AWWA)	1/1/2005	TRUE	FALSE	SGE00178
1.4	EPA-HQ-OW-2014-0598-0379	25 PA Code Chapter 95 40 PA.B.4835 - DCN SGE00187	A PA regulation setting a wastewater treatment standard for TDS at 500 mg/L for the natural gas sector.	PA DEP	8/21/2010	FALSE	FALSE	SGE00187
1.4	EPA-HQ-OW-2014-0598-0380	Precipitation Softening - DCN SGE00189	An article reporting background on chemical precipitation including basic chemical reactions,	General Electric	1/1/2011	TRUE	FALSE	SGE00189

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
			advantages, disadvantages, applications, and typical effluent data.					
1.4	EPA-HQ-OW-2014-0598-0449	Development Document for Effluent Limitation Guidelines and Standards for the Centralized Waste Treatment Industry - Final (EPA 821-R-00-020) - DCN SGE00195	A development document for the CWT point source category including subcategories A (metal bearing wastewater), B (oily wastewater), C (organic waste), and D (combination of A, B, and C).	USEPA	8/1/2000	FALSE	FALSE	SGE00195
1.4	EPA-HQ-OW-2014-0598-070	Technical Support Document for the 2004 Effluent Guidelines Program Plan DCN SGE00197	EPA's Technical Support Document for the 2004 Effluent Guidelines Program Plan. Includes information on the public comments to the preliminary 2004/2005 plan, results of the annual review, data sources used, results of detailed reviews, and industries ides.	USEPA	8/1/2004	FALSE	FALSE	SGE00197
1.4	EPA-HQ-OW-2014-0598-0381	Technical Support Document for the 2008 Effluent Guidelines Program Plan - DCN SGE00198	EPA's Technical Support Document for the 2008 Effluent Guidelines Program Plan. Includes information on the public comments to the preliminary 2008 plan, the effluent limitations guidelines process, methodology, data sources and data limitations.	USEPA	8/1/2008	FALSE	FALSE	SGE00198
1.4	EPA-HQ-	212 Resources	Barry explained the system	Mertz,	10/14/2011	FALSE	FALSE	SGE00227

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	OW-2014-0598-0384	VACOM Technology - DCN SGE00227	design overview of the VACOM, characteristics of the concentrated brine, Energy usage, and ball park costs for evaporation in general.	Barry				
1.4	EPA-HQ-OW-2014-0598-0385	Fountain Quail NOMAD Evaporator - DCN SGE00228	Jaime and Brent Discussed the NOMAD evaporator (mechanical vapor compression). Jaime provided general information on energy usage, water recovery, and required pretreatment for the NOMAD evaporator.	Roman, Jaime	10/26/2011	FALSE	FALSE	SGE00228
1.4	EPA-HQ-OW-2014-0598-0386	GE Power and Water Wastewater Treatment Technologies - DCN SGE00230	A teleconference between Mark Wilson and Brent Ruminski. The discussion covered general shale gas industry background including NORM, wastewater management, and trucking. Wilson also provided his thoughts on evaporation and crystallization technologies.	Wilson, Mark	11/10/2011	FALSE	FALSE	SGE00230
1.4	EPA-HQ-OW-2014-0598-0766	Evaluation of Brackish Groundwater Treatment for Use in Hydraulic Fracturing of the Bakken Play, North Dakota DCN SGE00236	A pilot-scale, reverse osmosis (RO) treatment project was conducted to evaluate the feasibility of brackish groundwater treatment as a freshwater source for hydraulically fracturing the Bakken oil	Kurz, Bethany	11/13/2011	FALSE	FALSE	SGE00236

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
			play of North Dakota.					
1.4	EPA-HQ-OW-2014-0598-0388	The Real Cost of ZLD for Shale Gas Frac Water in the Marcellus Shale Play - DCN SGE00238	In the Marcellus Shale play in particular, both surface and underground disposal of the frac water are not options, and re-use of the brine in further fracturing operations is limited. Zero liquid discharge is the apparent long-term solution to the problem.	Shaw, William	11/13/2011	FALSE	FALSE	SGE00238
1.4	EPA-HQ-OW-2014-0598-0411	Selection of EDR Desalting Technology Rather Than MF/RO for the City of San Diego Water Reclamation Project - DCN SGE00261	A case study of an Electrodialysis reversal unit treating municipal wastewater. The document includes basic economics of the project and treatment effectiveness data.	Kiernan, John; von Gottberg, Antonia	8/1/1998	TRUE	FALSE	SGE00261
1.4	EPA-HQ-OW-2014-0598-0412	An Integrated Framework for Treatment and Management of Produced Water: Technical Assessment of Produced Water Treatment Technologies 1st Edition - DCN SGE00264	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.	Colorado School of Mines	11/1/2009	FALSE	FALSE	SGE00264
1.4	EPA-HQ-OW-2014-0598-0413	Memorandum to Public Record: Subject, Ion Exchange for Produced Water Treatment - DCN	PG Environmental memorandum to EPA summarizing information and literature data on ion exchange as a treatment	Hanson, Paul	8/30/2010	FALSE	FALSE	SGE00265

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		10003 - DCN SGE00265	technology for produced water.					
1.4	EPA-HQ-OW-2014-0598-0534	Water Technology Brief #2008-1: Thermal Distillation Technology for Management of Produced Water and Frac Flowback Water DCN SGE00267	Paper describing a thermal distillation technology included in Argonne National Laboratory's Produced Water Management Information System as well as a second thermal technology successfully used to treat flowback water from a hydraulic fracturing job.	Veil, John A.	5/13/2008	FALSE	FALSE	SGE00267
1.4	EPA-HQ-OW-2014-0598-0416	Drake Process Technology Scope and Pricing Summary Based on Na+ Removal - Calendar Year 2007 - DCN SGE00271	A fact sheet on the cost of the Drake Water Technologies Ion Exchange Unit.	Drake Water Technologies, LLC	1/1/2007	FALSE	FALSE	SGE00271
1.4	EPA-HQ-OW-2014-0598-0418	Produced Water Pretreatment for Water Recovery and Salt Production - DCN SGE00285	A detailed report that investigates wastewater treatment technologies for shale gas wastewater.	Silva, James	1/26/2012	FALSE	FALSE	SGE00285
1.4	EPA-HQ-OW-2014-0598-0548	Water Management Strategy DCN SGE00298.A07	This presentation provides examples of different wastewater management strategies in various shale plays.	Zamora, Frank	10/29/2012	FALSE	FALSE	SGE00298.A07
1.4	EPA-HQ-OW-2014-0598-0548	Assessing Specific Shale Plays Utica Play - DCN SGE00298.A08	This presentation provides information on the Marcellus and Utica shale plays in respect to	Hughes, Stephen	10/29/2012	TRUE	FALSE	SGE00298.A08

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
			wastewater management.					
1.4	EPA-HQ-OW-2014-0598-0548	Water Issues Related to the Bakken in North Dakota - DCN SGE00298.A10	This presentation provides current activity in the Bakken shale play in respect to source water and wastewater management.	Landenberger, James	10/29/2012	TRUE	FALSE	SGE00298.A10
1.4	EPA-HQ-OW-2014-0598-0548	Production and Frac Water Recycling Trends and Future Requirements DCN SGE00298.A11	This presentation summarizes wastewater management trends in the Marcellus and introduces an activated carbon filtration treatment unit from Lewis Environmental.	Tom Lewis	10/29/2012	TRUE	FALSE	SGE00298.A11
1.4	EPA-HQ-OW-2014-0598-0548	AltelaRain DCN SGE00298.A12	This presentation provides the history of Altela, Inc, who offers an evaporation/condensation unit for produced waters.	Matthew Bruff	10/29/2012	FALSE	FALSE	SGE00298.A12
1.4	EPA-HQ-OW-2014-0598-0548	The application of Chlorine dioxide in Frac Water Treatment Using Multi Stream Reuse Water Sources DCN SGE00298.A15	This presentation provides an overview of chlorine dioxide as a treatment technology to treat shale gas wastewater.	Sam Eltomi	10/29/2012	TRUE	FALSE	SGE00298.A15
1.4	EPA-HQ-OW-2014-0598-0548	Shale Conference: Eagle Ford, Barnett, and Permian Plays DCN SGE00298.A19	This presentation gives an overview of water management in the Eagle Ford and Barnett formations.	Robert Sloan	10/29/2012	FALSE	FALSE	SGE00298.A19
1.4	EPA-HQ-OW-2014-0598-0548	212 Resources - DCN SGE00298.A20	This presentation provides an overview of 212 Resources, a wastewater treatment company that	Meril, Les	10/29/2012	FALSE	FALSE	SGE00298.A20

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
			offers evaporation/condensation services to shale operators at centralized locations.					
1.4	EPA-HQ-OW-2014-0598-0548	Innovative Water Management Strategies for Future Marcellus Development - DCN SGE00298.A21	This presentation discusses a new treatment technology, offered by Epiphany Solar Water Systems, that crystallizes produced water directly at shale gas well using concentrated solar technology.	Pettengill, Ron	10/29/2012	TRUE	FALSE	SGE00298.A21
1.4	EPA-HQ-OW-2014-0598-0548	Storing Water On-site to Reduce Transportation Costs and Maximize Efficiencies DCN SGE00298.A22	This presentation summarizes the services provided by Greenhunter Energy. The company provides trucking, storage, and wastewater treatment for shale gas operators in various formations.	Jonathan Hoopes	10/29/2012	FALSE	FALSE	SGE00298.A22
1.4	EPA-HQ-OW-2014-0598-0548	Ecosphere 3rd Water Management for Shale Plays - DCN SGE00298.A23	This presentation provides information on a treatment technology vendor (Ecosphere), which offers mobile advanced oxidation treatment services to shale gas operators.	Cathey, Robie	10/29/2012	FALSE	FALSE	SGE00298.A23
1.4	EPA-HQ-OW-2014-0598-0548	Water Infrastructure Versus Mobile Options for Treating and Disposing Fracking and Produced Water - DCN SGE00298.A24	This presentation summarizes the services provided by High Sierra Energy, a wastewater treatment service provider for shale gas operators.	Themaat, Johan	10/29/2012	FALSE	FALSE	SGE00298.A24
1.4	EPA-HQ-	How Operators Are	This presentation provides	Tom	10/29/2012	FALSE	FALSE	SGE00305.A01

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	OW-2014-0598-0560	Implementing Comprehensive Water Management Systems From Transport To Treatment To Re-Use To Save Millions On Wells Costs DCN SGE00305.A01	basic information of wastewater treatment technologies that may potentially treat tight oil wastewater.	Sheffield				
1.4	EPA-HQ-OW-2014-0598-0560	Identifying the Recycling and Treatment Criteria that Must be Met to Avoid Scaling and Enable Successful Reuse - DCN SGE00305.A03	This presentation discusses reuse of flowback and produced waters and illustrates how wastewater within a given formation will eventually need to be disposed of or discharged.	Cheung, Timothy	10/29/2012	FALSE	FALSE	SGE00305.A03
1.4	EPA-HQ-OW-2014-0598-0560	Water Re-Use: No Silver Bullets DCN SGE00305.A04	This presentation explains how there is no single wastewater management strategy for operators.	Smith, Anthony	10/29/2012	FALSE	FALSE	SGE00305.A04
1.4	EPA-HQ-OW-2014-0598-0560	Flowback Treatment and Reuse Strategies for Tight Oil Formations DCN SGE00305.A05	This presentation examines treatment and reuse strategies for various tight oil formations.	Yoxth-eimer, Dave	10/29/2012	FALSE	FALSE	SGE00305.A05
1.4	EPA-HQ-OW-2014-0598-0560	Quantifying the Total Costs of Recycling Water in Tight Oil Plays to Determine How A Treatment Program Will Affect Overall Well Economics - DCN SGE00305.A06	This presentation compares the cost of wastewater management in the Bakken and Niobrara shale plays.	Winner, Phil	10/29/2012	FALSE	FALSE	SGE00305.A06
1.4	EPA-HQ-	Comparing the Latest	This presentation provides	Horn,	10/29/2012	FALSE	FALSE	SGE00305.A07

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	OW-2014-0598-0560	Innovations in Treatment Technology Based on Water Quality and Cost per Barrel DCN SGE00305.A07	some cost data for water and wastewater storage tanks and discusses the oxidation treatment technology offered by Ozonix®.	Aaron				
1.4	EPA-HQ-OW-2014-0598-0560	Examining Water Storage Options to Improve Efficiencies and Minimize Costs in Fracturing Operations DCN SGE00305.A08	This presentation provides detailed cost data for various water and wastewater storage tanks.	Steve Tipton	10/29/2012	FALSE	FALSE	SGE00305.A08
1.4	EPA-HQ-OW-2014-0598-0560	Evaluating the Most Cost Effective Strategies for Disposing of Water DCN SGE00305.A09	This presentation provides detailed cost data for various water and wastewater storage tanks.	Steve Tipton	10/29/2012	FALSE	FALSE	SGE00305.A09
1.4	EPA-HQ-OW-2014-0598-0560	How An Operator Is Developing A Systematic Sourcing Strategy To Guarantee Water Availability At Minimal Costs DCN SGE00305.A10	This presentation provides information on Consol Energy's unconventional oil and gas wastewater management.	Katharine Fredriksen	10/29/2012	FALSE	FALSE	SGE00305.A10
1.4	EPA-HQ-OW-2014-0598-0693	2012 International Water Conference Materials DCN SGE00306	This memorandum provides the conference materials from the 2012 International Water Conference as attachments.	ERG	12/10/2012	FALSE	FALSE	SGE00306
1.4	EPA-HQ-OW-2014-0598-0693	Overview of Produced Water and EOR Water Treatment DCN SGE00306.A01	This presentation provides general information on shale gas wastewater quality and treatment of oil and gas wastewater.	Avijit Dey	11/4/2012	FALSE	FALSE	SGE00306.A01

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1.4	EPA-HQ-OW-2014-0598-0693	Treatment of Flowback – Shale Plays DCN SGE00306.A02	This presentation summarizes pilot test results of a treating Marcellus shale gas flowback using Nanofiltration called VSep.	Mark Galimberti	11/4/2012	FALSE	FALSE	SGE00306.A02
1.4	EPA-HQ-OW-2014-0598-0693	Field Operation Results for Treatment of Frac Water with AquaTech's MoVap a Mobile Industrial Distillation DCN SGE00306.A03	This presentation summarizes pilot test results of treating Marcellus shale gas wastewater using a mobile evaporation/condensation treatment unit from AquaTech called MoVap.	Kozora, Chuck	11/4/2012	FALSE	FALSE	SGE00306.A03
1.4	EPA-HQ-OW-2014-0598-0693	Shale Gas Produced Water Pretreatment for Barium and Radium Removal DCN SGE00306.A04	This presentation investigates the economics of shale gas wastewater pretreatment for barium and radium removal prior to evaporation/condensation treatment.	Silva, James	11/4/2012	FALSE	FALSE	SGE00306.A04
1.4	EPA-HQ-OW-2014-0598-0693	Opportunities for Treatment and Reuse of Acid Mine Drainage and Produced Water in Oil and Gas Shale DCN SGE00306.A05	This presentation summarizes bench test results of treating Marcellus shale gas produced water using Nanofiltration.	Timothy S. Keizer	11/4/2012	FALSE	FALSE	SGE00306.A05
1.4	EPA-HQ-OW-2014-0598-0693	Sequential Precipitation - Fractional Crystallization Treatment of Marcellus Shale Flowback and Production	This presentation investigates the economics of treating Marcellus shale gas wastewater chemical precipitation followed by fractional crystallization.	Keister, Timothy	11/4/2012	FALSE	FALSE	SGE00306.A06

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		Wastewaters - DCN SGE00306.A06						
1.4	EPA-HQ-OW-2014-0598-0608	2012 Shale Gas Water Management Conference Materials DCN SGE00311	This memorandum provides the conference materials from the 2012 Shale Gas Water Management Conference.	Ruminski, Brent	12/31/2012	FALSE	FALSE	SGE00311
1.4	EPA-HQ-OW-2014-0598-0608	Sustainable Development of Completions - DCN SGE00311.A01	This presentation provides information on the treatment technology Electrocoagulation to treat wastewater prior to be reused in fracturing.	Dale, Walter	11/28/2012	TRUE	FALSE	SGE00311.A01
1.4	EPA-HQ-OW-2014-0598-0608	Improved control of SRB's in Hydraulic Fracture Fluid Using Chlorine Dioxide DCN SGE00311.A02	This presentation provides information on treating a blend of shale gas wastewater and freshwater with chlorine dioxide prior to reuse in fracturing.	Roy Walter	11/28/2012	TRUE	FALSE	SGE00311.A02
1.4	EPA-HQ-OW-2014-0598-0608	Examining Techniques and Chemistries For Managing Bacteria, Scaling And Corrosion - DCN SGE00311.A03	This presentation provides information on advanced oxidation treatment of shale gas wastewater. This technology has been applied in West Texas (Permian basin) and Marcellus.	Horn, Aaron	11/28/2012	FALSE	FALSE	SGE00311.A03
1.4	EPA-HQ-OW-2014-0598-0608	Examining Innovative Primary Treatment Technologies for Removing Hydrocarbon and Solids from Flowback and Produced Water When Residual	This presentation provides an overview of treatment considerations for shale gas wastewater prior to reuse in fracturing. It also discusses wastewater management over the course field development.	Kuijvenhoven, Cor	11/28/2012	TRUE	FALSE	SGE00311.A04

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Polymer is Present for Unconventional Gas Production DCN SGE00311.A04						
1.4	EPA-HQ-OW-2014-0598-0608	CBI_Recycling Economics: Flowback & Produced Water Treatment Overview DCN SGE00311.A05	CBI_This presentation provides an overview of GE's mobile evaporation/condensation unit designed to treat shale gas wastewater.	Joeseph Tinto	11/28/2012	TRUE	TRUE	SGE00311.A05
1.4	EPA-HQ-OW-2014-0598-0608	Develop a water delivery and recycle system to support LINN Energy's Granite Wash Horizontal frac (drilling) program located in Wheeler County and Hemphill County, Texas Panhandle DCN SGE00311.A06	This presentation provides an overview of Linn Energy's wastewater management including some detailed cost information on chemical treatment.	Schilling, Dan	11/28/2012	FALSE	FALSE	SGE00311.A06
1.4	EPA-HQ-OW-2014-0598-0608	The Economics of Water Management - DCN SGE00311.A07	This presentation provides an overview of Pioneer Natural Resource's wastewater management in the Eagle Ford formation.	Dunkel, Michael	11/28/2012	FALSE	FALSE	SGE00311.A07
1.4	EPA-HQ-OW-2014-0598-0608	An Evaluation of Current Water Issues in Unconventional Oil and Gas And Best Practices to Reduce Costs & Improve Productivity in	This presentation provides a summary of 212 Resource's shale gas wastewater treatment using evaporation/condensation.	Leslie Merrill	11/28/2012	FALSE	TRUE	SGE00311.A10

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Flowback & Produced Water DCN SGE00311.A10						
1.4	EPA-HQ-OW-2014-0598-0608	Fresh Water Sourcing and Recycling Economics DCN SGE00311.A13	This presentation provides an overview of Heckman Water Resources and reuse opportunities in the Eagle Ford.	Dewitt Dees	11/28/2012	FALSE	FALSE	SGE00311.A13
1.4	EPA-HQ-OW-2014-0598-0424	Salt Water Disposal Terms and Data - DCN SGE00329	This fact sheet provides information on underground injection wells in TX.	City of Fort Worth		FALSE	FALSE	SGE00329
1.4	EPA-HQ-OW-2014-0598-0426	Game Changing Technology for Treating and Recycling Frac Water - DCN SGE00331	This paper addresses an advanced oxidation and precipitation water treatment process employed as an on-the-fly fluid pretreatment during hydraulic fracturing operations.	Ely, John W.; Horn, Aaron; Cathey, Robbie; Fraim, Michael; Jakhete, Sanjeev	10/30/2011	TRUE	FALSE	SGE00331
1.4	EPA-HQ-OW-2014-0598-0428	Breakthrough Mobile Water Treatment Converts 75% of Fracturing Flowback Fluid to Fresh Water and Lowers CO2 Emissions - DCN SGE00333	This journal article provides information on an advanced oxidation treatment technology that is deployed in the Woodford shale play.	Horn, Aaron	3/23/2009	TRUE	FALSE	SGE00333
1.4	EPA-HQ-OW-2014-0598-0794	Woodford Growing Revenues by Farming to Oily Shale DCN SGE00335	This article provides general well cost and treatment cost in the Woodford shale play.	Kulkarni, Pramod	1/1/2012	FALSE	FALSE	SGE00335
1.4	EPA-HQ-OW-2014-	Costs for Drilling The Eagle Ford DCN	This article provides a breakdown of well cost in	Cowan, Trey	6/20/2011	FALSE	FALSE	SGE00337

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0795	SGE00337	the Eagle Ford shale play.					
1.4	EPA-HQ-OW-2014-0598-0429	Susquehanna River Basin Commission: Water Withdrawals & Consumptive Use for Natural Gas Industry - DCN SGE00339	This document provides water use, generation, and management information on Marcellus operators within the SRBC.	SRBC	10/18/2011	FALSE	FALSE	SGE00339
1.4	EPA-HQ-OW-2014-0598-0430	Water Management Practices Used by Fayetteville Shale Gas Producers - DCN SGE00341	This report provides a summary of wastewater management practices used by operators in the Fayetteville shale play.	Veil, John A.	6/1/2011	FALSE	FALSE	SGE00341
1.4	EPA-HQ-OW-2014-0598-0695	Feasibility Assessment of Early Flowback Water Recovery for Reuse in Subsequent Well Completions Report No. 08122-05.07 DCN SGE00411	This report investigates the feasibility of reusing flowback in fracturing.	Peter Galusky et al	10/24/2011	FALSE	FALSE	SGE00411
1.4	EPA-HQ-OW-2014-0598-0696	Field Assessment of Anti-Fouling Polymeric Membrane Coatings for Treatment of Barnett Shale Flow-Back Produced Water Report No. 08122-05.05 DCN SGE00412	This report investigates the feasibility of using RO to treat produced water.	Xiaofei Huang et al	3/31/2011	FALSE	FALSE	SGE00412
1.4	EPA-HQ-OW-2014-0598-0499	Evaluation of the Aqua Pure Mechanical Vapor Recompression System in the Treatment of Shale Gas Flowback Water Report No. 08122-	This report provides information on evaporation/condensation as a treatment technology for flowback.	Hayes, Thomas; et al	3/12/2012	FALSE	FALSE	SGE00415

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		05.11 - DCN SGE00415						
1.4	EPA-HQ-OW-2014-0598-0500	Taking a Proactive Approach to Water Recycling in the Barnett Shale - DCN SGE00421	A presentation that examines Devon Energy's wastewater management in the Barnett using a evaporation/condensation treatment plant.	Eqing, Jay	2/29/2008	FALSE	FALSE	SGE00421
1.4	EPA-HQ-OW-2014-0598-0563	FracWater Treatment for Recycling: Options and Alternatives; Their Benefits and Limitations DCN SGE00429	A presentation that provides wastewater treatment costs for reuse.	Miller, Frank		FALSE	FALSE	SGE00429
1.4	EPA-HQ-OW-2014-0598-0564	Permitted Commercial Oil Disposal Facilities - DCN SGE00442.A02	Development of Cost Effective Systems for Handling Produced Water presentation	Colwell, Cecil; Maybe, Chuck	3/28/2013	FALSE	FALSE	SGE00442.A02
1.4	EPA-HQ-OW-2014-0598-0564	Re-Using Produced Water - DCN SGE00442.A03	Mississippi Lime Production & Produced Water Congress 2013 Re-Using Produced Water presentation	Dees, John	6/27/2013	FALSE	FALSE	SGE00442.A03
1.4	EPA-HQ-OW-2014-0598-0564	How Operators are Minimizing Costs Associated with Gathering and Transporting Produced Water from Wells to Disposal Plants DCN SGE00442.A04	How Operators are Minimizing Costs Associated with Gathering and Transporting Produced Water from Wells to Disposal Plants presentation	Garwood, Dan	6/27/2013	FALSE	FALSE	SGE00442.A04
1.4	EPA-HQ-OW-2014-	Examining Water Production Volumes	Examining Water Production Volumes and	Murray, Kyle E.	6/1/2013	FALSE	FALSE	SGE00442.A06

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0564	and Produced Water Quality in the Mississippi Lime to Develop Appropriate Management Strategies - DCN SGE00442.A06	Produced Water Quality in the Mississippi Lime to Develop Appropriate Management Strategies presentation					
1.4	EPA-HQ-OW-2014-0598-0564	Outlining Water Storage Options for Fracturing Operations to Highlight Economic Options DCN SGE00442.A08	Outlining Water Storage Options for Fracturing Operations to Highlight Economic Options presentation	Tipton, Steven	6/26/2013	FALSE	FALSE	SGE00442.A08
1.4	EPA-HQ-OW-2014-0598-0564	Re-Using Produced Water DCN SGE00442.A10	This presentation discussed the benefits of reusing produced water.	Forrest, Dorn	6/27/2013	FALSE	FALSE	SGE00442.A10
1.4	EPA-HQ-OW-2014-0598-0566	CleanWave Water Treatment Services Accelerate Winter Drilling Operations, Eliminate Over 1,000 Truck Tips and Realize Over \$250,000 in Water Management Savings in Remote Land Operations DCN SGE00462	CleanWave Water Treatment Services Accelerate Winter Drilling Operations, Eliminate Over 1,000 Truck Tips and Realize Over \$250,000 in Water Management Savings in Remote Land Operations	Halliburton	9/1/2010	TRUE	FALSE	SGE00462
1.4	EPA-HQ-OW-2014-0598-0665	El Paso Corporation completes first natural gas well using all four CleanSuite technologies DCN SGE00463	El Paso Corporation completes first natural gas well using all four CleanSuite technologies	Halliburton	12/1/2012	TRUE	FALSE	SGE00463
1.4	EPA-HQ-OW-2014-	Halliburton helped Permian Basin	Halliburton helped Permian Basin operator save more	Halliburton	12/1/2013	TRUE	FALSE	SGE00464

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0567	operator save more than \$500,000 and 8,000,000 gallons of water DCN SGE00464	than \$500,000 and 8,000,000 gallons of water					
1.4	EPA-HQ-OW-2014-0598-0503	Water Use for Shale-Gas Production in Texas, U.S. - DCN SGE00465	Water Use for Shale-Gas Production in Texas, U.S.	Nicot, Jean-Philippe; Scanlon, Bridget	3/2/2012	FALSE	FALSE	SGE00465
1.4	EPA-HQ-OW-2014-0598-0568	Treatment Enables High-TDS Water Use as Base Fluid for Hydraulic Fracturing DCN SGE00477	Treatment Enables High-TDS Water Use as Base Fluid for Hydraulic Fracturing Technology Update	Lord, Paul	6/1/2013	FALSE	FALSE	SGE00477
1.4	EPA-HQ-OW-2014-0598-0520	From Pilot Study to Daily Processing: Warren, Ohio's Documentary to Hydraulic Fracturing Water Treatment - DCN SGE00497	A presentation which describes a pilot program for brine water treatment and regulation.	Angelo, Tom	1/1/2013	FALSE	FALSE	SGE00497
1.4	EPA-HQ-OW-2014-0598-0591	The Technologies of Eureka Resources: Wastewater Distillation - DCN SGE00523	Describes the wastewater treatment services provided by Eureka Resources, LLC in compliance with Pennsylvania Department of Environmental Protection. Distillation technology for removing TDS is discussed.	Eureka Resources	5/30/2013	TRUE	FALSE	SGE00523
1.4	EPA-HQ-OW-2014-0598-0105	Sustainable Water Management DCN SGE00637.A01	A presentation which describes treatment and recycling options.	Shannon, Daniel	1/1/2013	TRUE	FALSE	SGE00637.A01
1.4	EPA-HQ-OW-2014-	Utilizing Ultraviolet Light to Minimize	A presentation which describes the use of	Sinnott, Joseph	1/1/2013	FALSE	FALSE	SGE00637.A02

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0105	Biocide Usage During Stimulation Operations DCN SGE00637.A02	ultraviolet light in treatment technology.					
1.4	EPA-HQ-OW-2014-0598-0105	Forced Crystallization within Turbulent Liquid Flow Streams... or crystals without crystallizers DCN SGE00637.A06	A presentation which describes a treatment technology study.	Kepler, Doug	1/1/2013	FALSE	FALSE	SGE00637.A06
1.4	EPA-HQ-OW-2014-0598-0105	The Evolution of Treatment Technologies in the Marcellus Shale DCN SGE00637.A07	Presentation discussing treatment technologies in the Marcellus Shale.	Schappell, Quay	1/1/2013	FALSE	FALSE	SGE00637.A07
1.4	EPA-HQ-OW-2014-0598-0760	Produced Water Reuse Initiative 2013: Comparing the Most Effective Produced Water Treatment Technologies to Date to Derive if an Economical Method has been Found DCN SGE00638.A02	A presentation on produced water treatment technologies.	Gopsill, Eric	10/29/2013	FALSE	FALSE	SGE00638.A02
1.4	EPA-HQ-OW-2014-0598-0760	Strategies for Sustainable Water Transport Lessons Learned in the Marcellus Applied to the Niobrara - DCN SGE00638.A12	A presentation that discusses water transportation and treatment options. An email from the author confirming that the presentation is not CBI is also included.	Wilkerson, Tommy	10/30/2013	FALSE	FALSE	SGE00638.A12
1.4	EPA-HQ-OW-2014-0598-0110	Vendor Profile: 212 Resources - DCN SGE00645	A profile of the company 212 resources, which provides water and	ALL Consulting	1/1/2011	TRUE	FALSE	SGE00645

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
			hydrocarbon reclamation technologies to the natural gas sector.					
1.4	EPA-HQ-OW-2014-0598-0111	Vendor Profile: Aquatech - DCN SGE00646	A profile of the company Aquatech, which provides water purification technologies for industrial and infrastructure markets, with a focus on desalination, water reuse, and zero liquid discharge.	ALL Consulting	1/1/2011	TRUE	FALSE	SGE00646
1.4	EPA-HQ-OW-2014-0598-0112	Vendor Profile: Ecosphere Technologies, Inc. - DCN SGE00647	A profile of the water engineering and services company Ecosphere Technologies, Inc.	ALL Consulting	1/1/2011	TRUE	FALSE	SGE00647
1.4	EPA-HQ-OW-2014-0598-0113	Vendor Profile: Aqua-Pure Ventures, Inc, Fountain Quail Water Management LLC - DCN SGE00648	A profile of the water treatment service company Fountain Quail Water Management LLC, which uses Aqua-Pure evaporator technology.	ALL Consulting	1/1/2011	TRUE	FALSE	SGE00648
1.4	EPA-HQ-OW-2014-0598-0114	Vendor Profile: GeoPure Hydrotechnologies - DCN SGE00649	A profile of the commercial stage, full service provider GeoPure Hydrotechnologies, which focuses on contaminated water recycling and purification rather than disposal.	ALL Consulting	1/1/2011	TRUE	FALSE	SGE00649
1.4	EPA-HQ-OW-2014-0598-0115	Vendor Profile: INTEVRAS Technologies, LLC - DCN SGE00650	A profile of the industrial waste water treatment company INTEVRAS Technologies LLC, which focuses on waste water	ALL Consulting	1/1/2011	TRUE	FALSE	SGE00650

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
			reduction, crystallization, and freshwater extraction using evaporative reduction and solidification.					
1.4	EPA-HQ-OW-2014-0598-0116	Vendor Profile: MI SWACO - DCN SGE00651	A profile of the supplier/engineering designer of drilling fluid systems MI SWACO.	ALL Consulting	1/1/2011	TRUE	FALSE	SGE00651
1.4	EPA-HQ-OW-2014-0598-0117	Vendor Profile: Veolia Water Solutions & Technologies - DCN SGE00652	A profile of the water and wastewater treatment company NA Water Systems, a technical subsidiary of Veolia Water Solutions and Technology.	ALL Consulting	1/1/2011	TRUE	FALSE	SGE00652
1.4	EPA-HQ-OW-2014-0598-0118	Electro Coagulation for Treatment of Industrial Effluents and Hydrogen Production - DCN SGE00653	A chapter about the benefits of using electro coagulation as a treatment method.	Ali, Ehsan; Yaakob, Zahira	1/1/2012	TRUE	FALSE	SGE00653
1.4	EPA-HQ-OW-2014-0598-0119	Purification of Brackish Water Using Hybrid CDI-EDI Technology - DCN SGE00654	A paper and presentation on a new class of technology using capacitance based de-ionizer: EWP X3.	Atlas, Robert	1/1/2006	TRUE	FALSE	SGE00654
1.4	EPA-HQ-OW-2014-0598-0120	H2prO HMS Water Management Service - DCN SGE00655	An overview of the H2prO HMS Water Management Service which treats produced and flowback water for reuse with a nonchemical electrocoagulation process.	Baker Hughes	1/1/2012	TRUE	FALSE	SGE00655
1.4	EPA-HQ-OW-2014-	Water Treatment Solutions Using	A fact sheet on Bosque's mobile water recycler unit.	Bosque Systems	1/1/2013	TRUE	FALSE	SGE00656

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0121	Electro Coagulation - DCN SGE00656						
1.4	EPA-HQ-OW-2014-0598-0122	Oil and Gas Produced Water Treatment Technologies - DCN SGE00657	A technical brief on oil and gas produced water treatment technologies, including: vibratory enhanced membrane process, high efficiently reverse osmosis, non-pressure driven membrane processes, membrane distillation, forward osmosis, and ion exchange.	Brant, Jonathan		TRUE	FALSE	SGE00657
1.4	EPA-HQ-OW-2014-0598-0123	Design of a Mobile Wastewater Treatment System for Hydraulic Fracturing Waste - DCN SGE00658	A report on a mobile-scale system to treat contaminated water produced by hydraulic fracturing of share rock. The system uses a process which features electrochemical oxidation/electrocoagulation , dissolved air flotation, and reverse osmosis.	Panu, Marc	4/19/2013	TRUE	FALSE	SGE00658
1.4	EPA-HQ-OW-2014-0598-0124	Desalination Technology Could Clean Up Wastewater from Coal-bed Methane Production - DCN SGE00659	An introductory article which discusses the potential use of desalination technology in cleaning up coal-bed methane production wastewater.	Christen, Kris	2/1/2006	TRUE	FALSE	SGE00659
1.4	EPA-HQ-OW-2014-0598-0126	Zero Discharge Water Management for Horizontal Shale Gas Well Development - DCN SGE00661	This paper describes efforts to recover and convert the briny waste from fracturing flowback into suitable, partial replacement of the freshwater in fracturing	Hause, Jennifer	1/1/2010	TRUE	FALSE	SGE00661

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
			fluid.					
1.4	EPA-HQ-OW-2014-0598-0127	Membrane Distillation - DCN SGE00662	A website describing the membrane distillation method, installation, advantages and disadvantages, application, boundary conditions, effectiveness, support products, environmental issues, costs, comments, complexity, level of automation, and references.	Emis	2/1/2012	TRUE	FALSE	SGE00662
1.4	EPA-HQ-OW-2014-0598-0128	Water Desalination by Membrane Distillation - DCN SGE00663	A chapter about membrane distillation including the process, practical aspects, pretreatment and cleaning, and fouling.	Gryta, Marek	2/28/2011	TRUE	FALSE	SGE00663
1.4	EPA-HQ-OW-2014-0598-0129	Produced Water Treatment - DCN SGE00664	A fact sheet describing the LM-HT Produced Water Concentrators with options of additional modular stationary units.	Heartland Technologies	1/13/2014	TRUE	FALSE	SGE00664
1.4	EPA-HQ-OW-2014-0598-0130	Forward Osmosis Treatment of Drilling Mud and Fracturing Wastewater from Oil and Gas Operations - DCN SGE00665	A paper describing a study testing forward osmosis as a technology for treatment and reclamation of water from drilling waste.	Hickenbottom, Kerri	7/18/2012	TRUE	FALSE	SGE00665
1.4	EPA-HQ-OW-2014-0598-0131	Contaminated Water - DCN SGE00666	This website describes application of KmX's membrane distillation technology to water contaminated by hydraulic fracturing, bio-fuels, or	Kmx Corp.	1/22/2014	TRUE	FALSE	SGE00666

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
			chemical, pharmaceutical, and petrochemical facilities.					
1.4	EPA-HQ-OW-2014-0598-0133	Sustainable Desalination: Membrane Distillation Delivers Greener Clean Water - DCN SGE00668	A website article describing the development of a membrane distillation system.	Mendez, Enrique	11/28/2012	TRUE	FALSE	SGE00668
1.4	EPA-HQ-OW-2014-0598-0134	Membrane Technology for Produced Water in Lea County - DCN SGE00669	A final report on the effectiveness of membrane technology in the treatment of produced water in Lea County.	Nelson, Cecilia; Ghosh, Ashok	9/20/2011	TRUE	FALSE	SGE00669
1.4	EPA-HQ-OW-2014-0598-0135	Frac Water: Treating Flowback and Produced Water for Re-Use - DCN SGE00670	A website describing the produced water services Omni Water Solutions provides.	Omni Water Solutions	1/14/2014	TRUE	FALSE	SGE00670
1.4	EPA-HQ-OW-2014-0598-0136	EWS Petro P160 "Clean-Frac: Process and Equipment Description - DCN SGE00671	Description of the process and equipment used in Origin Oil's CLEAN-FRAC wastewater treatment system.	OriginOil	10/21/2013	TRUE	FALSE	SGE00671
1.4	EPA-HQ-OW-2014-0598-0137	Originoil's Clean-Frac: An Overview - DCN SGE00672	A white paper that presents OriginOil's CLEAN-FRAC design as a scalable and efficient system which uses electrocoagulation to treat oil and gas wastewater.	OriginOil	6/13/2013	TRUE	FALSE	SGE00672
1.4	EPA-HQ-OW-2014-0598-0138	Review on the Science and Technology of Water Desalination by Capacitive Deionization - DCN	This paper reviews the science and technology of capacitive deionization and describes the range of possible electrode materials	Porada, S.; Zhao, R.; van der Wal, A.; Presser, V.;	4/4/2013	TRUE	FALSE	SGE00673

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		SGE00673	and various approaches to the testing of materials and devices. The paper summarizes the range of options for designs.	Biesheuvel, P.M.				
1.4	EPA-HQ-OW-2014-0598-0139	Welcome to Purestream Technology - DCN SGE00674	This presentation describes the wastewater treatment, air emissions, renewable energy, and data tracking solutions offered by Purestream Technology.	Purestream	1/1/2011	TRUE	FALSE	SGE00674
1.4	EPA-HQ-OW-2014-0598-0140	A Working Model for Oil and Gas Produced Water Treatment - DCN SGE00675	This presentation describes the water treatment activities of Anticline Disposal LLC as a working model for the industry.	Shafter, Lee	10/14/2010	FALSE	FALSE	SGE00675
1.4	EPA-HQ-OW-2014-0598-0141	The DesEl System – Capacitive Deionization for the Removal of Ionic Contaminants from Water - DCN SGE00676	This paper presents the DesEl system as a potential solution to the production of deionized water and treatment of contaminants through desalination applications. Results from five test cases are discussed.	Shelp, Gene	1/1/2004	TRUE	FALSE	SGE00676
1.4	EPA-HQ-OW-2014-0598-0142	Water Recovery via Thermal Evaporative Processes for High Saline Frac Water Flowback - DCN SGE00677	This paper describes a study examining the thermal processes for water recovery and beneficial use of salt waste.	Tinto, Joseph; Solomon, Robert	11/1/2012	TRUE	FALSE	SGE00677
1.4	EPA-HQ-OW-2014-0598-0143	Solar and Waste Heat Desalination by Membrane Distillation - DCN SGE00678	A research and development report on solar and waste heat desalination by membrane distillation,	Walton, John	4/1/2004	TRUE	FALSE	SGE00678

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
			including overview of the technology, performance data, and results.					
1.4	EPA-HQ-OW-2014-0598-0144	Treating Hydraulic Fracturing Flowback Waters: Potential New Membrane Applications Webinar - DCN SGE00679	A webinar describing pressure and non-pressure driven membrane technologies for treating hydraulic fracture flowback waters.	Wickramasinghe, Ranil; Jones, Steven	12/11/2013	TRUE	FALSE	SGE00679
1.4	EPA-HQ-OW-2014-0598-0145	Treatment of Brackish Produced Water Using Carbon Aerogel-based Capacitive Deionization Technology - DCN SGE00680	This abstract describes a study testing capacitive deionization technology in laboratory and field scale experiments.	Xu, Pei	5/1/2008	TRUE	FALSE	SGE00680
1.4	EPA-HQ-OW-2014-0598-0146	Capacitive Deionization in Mine Water Recycling - DCN SGE00681	This article describes the use of capacitive deionization technology in mine water recycling.	Janin, Amelie	1/22/2014	TRUE	FALSE	SGE00681
1.4	EPA-HQ-OW-2014-0598-0147	AltelaRain System ARS-4000 - DCN SGE00682	A brochure for the ARS-4000 AltelaRain System.	ALTELA	1/1/2011	FALSE	FALSE	SGE00682
1.4	EPA-HQ-OW-2014-0598-0148	Water Treatment Technology Fact Sheet: Reverse Osmosis - DCN SGE00683	A factsheet describing the reverse osmosis process, technical capabilities, and technical limitations.	ALL Consulting	1/1/2011	TRUE	FALSE	SGE00683
1.4	EPA-HQ-OW-2014-0598-0149	The Sweet Spot of Forward Osmosis: Treatment of Produced Water, Drilling Wastewater, and Other Complex and Difficult	This paper reviews successful development and demonstration of forward osmosis membrane treatment systems, via bench-scale, pilot, and	Coday, Bryan	11/6/2013	TRUE	FALSE	SGE00684

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Liquid Streams - DCN SGE00684	demonstration studies on treatment of oil and gas waste streams.					
1.4	EPA-HQ-OW-2014-0598-0152	MoTreat: Mobile Water Pre-Treatment System - DCN SGE00687	A fact sheet on the MoTreat mobile solution to treat flowback and produced water on-site.	AquaTech	1/1/2011	TRUE	FALSE	SGE00687
1.4	EPA-HQ-OW-2014-0598-0153	MoVap: Mobile Water Distillation System - DCN SGE00688	A fact sheet on the MoVap mobile solution to treat flowback water on-site.	AquaTech	1/1/2011	TRUE	FALSE	SGE00688
1.4	EPA-HQ-OW-2014-0598-0154	Frac Water Reclamation System Reduces Operator's Water Cost - DCN SGE00689	A performance report which describes how the M-I SWACO Frac Water Reclamation system reduced costs.	M-I SWACO	1/1/2009	TRUE	FALSE	SGE00689
1.4	EPA-HQ-OW-2014-0598-0155	A Guide to Practical Management of Produced Water from Onshore Oil and Gas Operations in the United States (DE-PS26-04NT15460-02) DCN SGE00690	A report that focuses on technologies and practices used to manage UOG wastewater.	ALL Consulting	10/1/2006	FALSE	FALSE	SGE00690
1.4	EPA-HQ-OW-2014-0598-0156	Summary of the Technical Workshop on Water Acquisition Modeling: Assessing Impacts Through Modeling and Other Means - DCN SGE00691	This document summarizes the June 4, 2013 technical workshop on wastewater treatment and related modeling.	USEPA	6/4/2013	FALSE	FALSE	SGE00691
1.4	EPA-HQ-OW-2014-0598-0627	100 Percent Frac Water Recycling - Strategy & Focus	A presentation from a technical conference providing information about	Ecosphere Energy Services,	4/13/2011	FALSE	FALSE	SGE00706

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Ozonix® - DCN SGE00706	an AOP treatment technology vendor.	LLC				
1.4	EPA-HQ-OW-2014-0598-0684	Minimum Effective Dose: A Study of Flowback and Produced Fluid Treatment for Use as Hydraulic Fracturing Fluid - DCN SGE00707	This paper was prepared for presentation at the American Association of Petroleum Geologists “Geosciences Technology Workshop” in San Antonio, TX,	Horn, Aaron	3/18/2013	TRUE	FALSE	SGE00707
1.4	EPA-HQ-OW-2014-0598-0162	Key Shale Gas Water Management Strategies: An Economic Assessment Tool - DCN SGE00710	Paper analyzing the total life cycle water management costs per frac comparing options and costs of water supply and water transportation; cost and options for disposal, re-use, and recycling; and impact of water quality on frac chemical costs and performance costs.	Slu, James et al.	9/11/2013	TRUE	FALSE	SGE00710
1.4	EPA-HQ-OW-2014-0598-0165	Zero Discharge Water Management for Horizontal Shale Gas Well Development DCN SGE00714	Final report on zero discharge water management for horizontal shale gas well development. Report presents results of research on dissolved solids removal, salts removal, PDU, and filtration without pretreatment.	Ziemkiewicz, Paul	6/1/2012	FALSE	FALSE	SGE00714
1.4	EPA-HQ-OW-2014-0598-0174	Pretreatment Targets for Salt Recovery from Marcellus Shale Gas Produced Water DCN	Paper on produced water treatment using chemical addition.	Silva, James	11/16/2013	FALSE	FALSE	SGE00731

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		SGE00731						
1.4	EPA-HQ-OW-2014-0598-0175	Recovering Valuable Byproducts from Oil and Gas Wastes DCN SGE00732	Paper on drilling fluid wastewater treatment and management.	Huffmyer, Russell; Gehucheten, John	11/16/2013	FALSE	FALSE	SGE00732
1.4	EPA-HQ-OW-2014-0598-0176	Waste Management - Paper #2-24 DCN SGE00733	Working paper of the NPC North American Resource Development Study. Report on waste management in oil and gas exploration and production. Includes background on drilling wastes and a description of waste management techniques.	National Petroleum Council (NPC)	9/15/2011	FALSE	FALSE	SGE00733
1.4	EPA-HQ-OW-2014-0598-0182	Notice of Final 2010 Effluent Guidelines Program Plan DCN SGE00744	Federal Register Notice of Final 2010 ELG Program Plan	USEPA	10/26/2011	FALSE	FALSE	SGE00744
1.4	EPA-HQ-OW-2014-0598-0183	Municipal Authority of the City of McKeesport: Headworks Loading Analysis for Natural Gas Drilling Wastewater Pollutants DCN SGE00745	Report about the McKeesport POTW treatment practices and capabilities.	KLH Engineers, Inc.	3/1/2011	FALSE	FALSE	SGE00745
1.4	EPA-HQ-OW-2014-0598-0186	Clairton Municipal Authority POTW Pass-Through Analysis Appendices - DCN SGE00748	Pass-through analysis completed for the Clairton POTW analyzing whether or not there is the potential for pass-through from UOG related wastewaters that	PG Environmental, LLC	8/19/2009	FALSE	FALSE	SGE00748

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
			were sent to the POTW.					
1.4	EPA-HQ-OW-2014-0598-0187	Clarksburg Response to Clean Water Act Section 308 Request for Information DCN SGE00749	Clarksburg POTW's response to a 308 request sent by EPA R3.	City of Clarksburg	3/2/2009	FALSE	FALSE	SGE00749
1.4	EPA-HQ-OW-2014-0598-0188	Waynesburg Response to Clean Water Act Section 308 Request for Information DCN SGE00750	Waynesburg POTW's response to a 308 request sent by EPA R3.	Borough of Waynesburg	3/31/2009	FALSE	FALSE	SGE00750
1.4	EPA-HQ-OW-2014-0598-0189	Authority of the Borough of Charleroi Administrative Order DCN SGE00751	Correspondence about an Administrative Order between Charleroi POTW and PA DEP.	Chester Engineers	11/21/2008	FALSE	FALSE	SGE00751
1.4	EPA-HQ-OW-2014-0598-0190	Produced and Flowback Water Recycling and Reuse DCN SGE00752	Article about reuse and recycle of UOG wastewater discussing the economics, limitations and technology.	Boschee, Pam	2/1/2014	FALSE	FALSE	SGE00752
1.4	EPA-HQ-OW-2014-0598-0191	The Science of Marcellus Shale DCN SGE00753	Article about the characteristics of Marcellus shale gas wastewater and management options, including a discussion about the Brockway POTW.	Keister, Timothy	1/29/2010	FALSE	FALSE	SGE00753
1.4	EPA-HQ-OW-2014-0598-0192	A Critical Review of the Risks to Water Resources from Unconventional Shale Gas Development and Hydraulic Fracturing in the United States DCN SGE00754	Article about the potential risks that shale gas operations pose to water resources.	Vengosh, Avner; Jackson, Robert; Warner, Nathaniel; Darrah, Thomas;	2/18/2014	TRUE	FALSE	SGE00754

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
				Kondash, Andrew				
1.4	EPA-HQ-OW-2014-0598-0194	Local Limits Analysis for Borough of Ridgway. DCN SGE00756	Local limits analysis for the Ridgway POTW.	Hill Engineering, Inc.	1/9/2014	FALSE	FALSE	SGE00756
1.4	EPA-HQ-OW-2014-0598-0195	Technical Evaluation of the Impact of Oil and Gas Well Wastewaters on the Municipal Authority of the City of McKeesport DCN SGE00757	Technical evaluation of McKeesport POTW.	KLH Engineers, Inc.	11/1/2008	FALSE	FALSE	SGE00757
1.4	EPA-HQ-OW-2014-0598-0196	Technical Evaluation of the Impact of Oil and Gas Well Wastewaters on the Clairton Municipal Authority Wastewater Treatment Facility DCN SGE00758	Technical evaluation of Clairton POTW.	KLH Engineers, Inc.	2/1/2009	FALSE	FALSE	SGE00758
1.4	EPA-HQ-OW-2014-0598-0197	City of Wheeling: Headworks Loading Analysis DCN SGE00759	Headworks loading technical analysis of Wheeling POTW.	KLH Engineers, Inc.	11/1/2006	FALSE	FALSE	SGE00759
1.4	EPA-HQ-OW-2014-0598-0631	Fate of Priority Toxic Pollutants in Publicly Owned Treatment Works, Final Report DCN SGE00765	Report about the occurrence and fate of 129 priority toxic pollutants in 40 POTWs and a supplemental study conducted at 10 additional POTWs.	USEPA	7/1/1982	FALSE	FALSE	SGE00765
1.4	EPA-HQ-OW-2014-	Email Correspondence between WV DEP and	Email correspondence between John Lockhart	Lockhart, John	6/3/2014	FALSE	FALSE	SGE00766

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0202	EPA DCN SGE00766	(WVDEP) and Lisa Biddle (EPA) about the status of POTWs accepting UOG wastewater in WV.					
1.4	EPA-HQ-OW-2014-0598-0203	Letter from WV DEP to City of Follansbee about POTWs Accepting Oil and Gas Wastewater DCN SGE00767	Letter from Scott Mandirola (WV DEP) to John Destefano (City of Follansbee) about the acceptance of oil and gas wastewater by POTWs without approved pretreatment programs	West Virginia Department of Environmental Protection (WV DEP)	12/15/2010	FALSE	FALSE	SGE00767
1.4	EPA-HQ-OW-2014-0598-0205	UIC Disposal Well Data for Illinois Email Correspondence between IL Office of Oil and Gas Resource Management and EPA DCN SGE00770	Email correspondence between Doug Shutt (IL) and Lisa Biddle (EPA) about the number of underground injection wells in IL.	Shutt, Doug	5/30/2014	FALSE	FALSE	SGE00770
1.4	EPA-HQ-OW-2014-0598-0216	Borough of California Response to 308 Request for Information - DCN SGE00787	Responses to questions in 308 request issued by U.S. EPA Region 3	Borough of California	3/18/2009	FALSE	FALSE	SGE00787
1.4	EPA-HQ-OW-2014-0598-0758	Wheeling Effluent Data DCN SGE01000	Effluent data associated with the Wheeling POTW for 2006 and 2007, among other attachments (e.g., Headworks Loading Analysis)	Wheeling POTW	4/1/2007	FALSE	FALSE	SGE01000
1.4	EPA-HQ-OW-2014-0598-0391	Water Treatment Technology Fact Sheet: UV Light DCN SGE01033	ALL Consulting Water Treatment Technology Fact Sheet on UV Light.	All Consulting		FALSE	FALSE	SGE01033

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.4	EPA-HQ-OW-2014-0598-0392	SRB Treatment DCN SGE01034	Atg UV Technology web page on Sulfate Reducing Bacteria (SRB) treatment.	Atg UV Technology	1/29/2015	FALSE	FALSE	SGE01034
1.4	EPA-HQ-OW-2014-0598-0393	Case Study CSDIO001 DCN SGE01035	Bosque Systems LLC web page with a DIONIX Water Treatment case study.	Bosque Systems, LLC	1/1/2013	FALSE	FALSE	SGE01035
1.4	EPA-HQ-OW-2014-0598-0394	Water Treatment Solutions Using Chlorine Dioxide: DIONIX DCN SGE01036	Bosque Systems LLC flyer on water treatment solutions using the DIONIX system.	Bosque Systems, LLC	1/1/2013	FALSE	FALSE	SGE01036
1.4	EPA-HQ-OW-2014-0598-0395	About ClO2 DCN SGE01037	PureLine web page about ClO2 (chlorine dioxide).	PureLine	1/1/2014	FALSE	FALSE	SGE01037
1.4	EPA-HQ-OW-2014-0598-0396	CG Series DCN SGE01038	PureLine web page about GC Series. The CG Series uses two precursors to generate large volumes of ClO2 (chlorine dioxide) on site.	PureLine	1/1/2014	FALSE	FALSE	SGE01038
1.4	EPA-HQ-OW-2014-0598-0397	Pure 3 Series DCN SGE01039	PureLine web page about Pure 3 Series. The Pure 3 generator applies to situations that require large volumes of ClO2 (chlorine dioxide) in short bursts.	PureLine	1/1/2014	FALSE	FALSE	SGE01039
1.4	EPA-HQ-OW-2014-0598-0398	Chlorine Dioxide Generation Equipment DCN SGE01040	Sabre Energy Services LLC web page on their chlorine dioxide generation equipment.	Sabre Energy Services, LLC	1/1/2011	FALSE	FALSE	SGE01040
1.4	EPA-HQ-OW-2014-0598-0399	Wastewater Technology Fact Sheet: Ultraviolet Disinfection DCN	EPA 832-F-99-064 Wastewater Technology Fact Sheet on ultraviolet disinfection.	US EPA	9/1/1999	FALSE	FALSE	SGE01041

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		SGE01041						
1.4	EPA-HQ-OW-2014-0598-0400	Successfully Sterilizing the Sulfate Bacteria With Ultraviolet Radiation in Produced-Water Treatment in Daqing Oilfield DCN SGE01042	Article on successfully sterilizing the sulfate bacteria with ultraviolet radiation in produced-water treatment in Daqing Oilfield, includes procedures and results.	Wang, J. et al	1/1/2005	FALSE	FALSE	SGE01042
1.4	EPA-HQ-OW-2014-0598-0402	Efficiency of Oil/Water Separation Controlled by Gas Bubble Size and Fluid Dynamics within the Separation Vessel DCN SGE01044	Exteran Technical Paper on the efficiency of oil/water separation control by gas bubble size and fluid dynamics within the separation vessel. Looking at gas flotation within the oil and gas industry.	Lee, D et al	1/1/2007	FALSE	FALSE	SGE01044
1.4	EPA-HQ-OW-2014-0598-0403	Advanced technologies in water and wastewater treatment DCN SGE01048	Article on three emerging technologies: membrane filtration, advanced oxidation processes, and UV irradiation. Includes information on their basic principles, main applications, advantages and disadvantages, and new developments.	Zhou, H and D. Smith	1/1/2002	TRUE	FALSE	SGE01048
1.4	EPA-HQ-OW-2014-0598-0468	Produced Water Management Technology Descriptions Fact Sheet - Ion Exchange DCN SGE01049	DOE web page for the Produced Water Management Technology Descriptions Fact Sheet on ion exchange.	NETL	1/1/2011	FALSE	FALSE	SGE01049

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.4	EPA-HQ-OW-2014-0598-0469	High Recovery Reverse Osmosis for Treatment of Produced Water DCN SGE01050	Paper on high recovery reverse osmosis (RO) for treatment of gas field produced waters. Includes test method of treatment and a comparison of the ZLD process with more conventional brine disposal methods for produced water residuals.	Kimball, Bob	1/1/2010	FALSE	FALSE	SGE01050
1.4	EPA-HQ-OW-2014-0598-0474	CleanStream® Service Capabilities DCN SGE01057	Multi-chem presentation on their CleanStream® mobile bacteria control using UV technology to eliminate the need for biocides.	Halliburton Multi-Chem	1/1/2013	FALSE	FALSE	SGE01057
1.4	EPA-HQ-OW-2014-0598-0475	CleanStream® Water Treatment Service Frequently Asked Questions DCN SGE01058	CleanStream® Water Treatment Service Frequently Asked Questions.	Halliburton Multi-Chem	1/1/2014	FALSE	FALSE	SGE01058
1.4	EPA-HQ-OW-2014-0598-0476	Oil Field Case Study: Disinfecting Water for Well Fracturing with Chlorine Dioxide DCN SGE01059	Sabre Energy Services LLC web page Case Studies. Oil Field Case Study: Disinfecting water for well fracturing with chloride dioxide.	Sabre Energy Services, LLC	1/1/2011	FALSE	FALSE	SGE01059
1.4	EPA-HQ-OW-2014-0598-0477	Oil Field Case Study: Maximizing Frac Water Reuse with Chlorine Dioxide DCN SGE01060	Sabre Energy Services LLC web page Case Studies. Oil Field Case Study: Maximizing frac water reuse with chlorine dioxide.	Sabre Energy Services, LLC	1/1/2011	FALSE	FALSE	SGE01060
1.4	EPA-HQ-OW-2014-0598-0478	DiKlor® - Sodium Chlorite Solution DCN SGE01061	Sabre Energy Services LLC web page on DiKlor® - Sodium Chlorite Solution.	Sabre Oxidation	1/1/2011	FALSE	FALSE	SGE01061

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
			Includes information on the product.					
1.4	EPA-HQ-OW-2014-0598-0485	Capacitive Deionization (CBI) DCN SGE01080	Presentation on capacitive deionization (CDI) technology for treating produced water.	Fajt, James	11/11/2012	FALSE	TRUE	SGE01080
1.4	EPA-HQ-OW-2014-0598-0551	Membrane Distillation: A Comprehensive Review DCN SGE01081	Article addressing membrane characteristics, membrane-related heat and mass transfer concepts, fouling and the effects of operating conditions for membrane distillation.	Alkhudhiri, A., Darwish, N., Hilal, N.	9/16/2011	FALSE	FALSE	SGE01081
1.4	EPA-HQ-OW-2014-0598-0486	Technical Summary Radial Deionization DCN SGE01082	Description of a low-cost produced water desalination system.	Atlantis Technologies	2/6/2015	FALSE	FALSE	SGE01082
1.4	EPA-HQ-OW-2014-0598-0748	Refract: Purifying Oil and Gas Produced Water with Membrane Distillation DCN SGE01085	The website for the startup company Refrakt.	Winglee, J., Panny, M., Smith, V., Chow, D.	2/6/2015	FALSE	FALSE	SGE01085
1.4	EPA-HQ-OW-2014-0598-0489	Membrane Capacitive Deionization DCN SGE01086	Article presenting pilot-plant experimental data for salt removal in MCDI as function of inlet ionic strength and flow rate.	Biesheuvel, P.M., van der Wal, A.	9/26/2009	FALSE	FALSE	SGE01086
1.4	EPA-HQ-OW-2014-0598-0490	Ion-Exchange Membrane Capacitive Deionization: A New Strategy for Brackish Water Desalination DCN SGE01087	Article discussing research for membrane capacitive deionization using electrodes made from single walled carbon nanotubes (SWCNTs) together with cation- and anion-exchange membranes.	Li, H., Zou, L.	5/14/2011	TRUE	FALSE	SGE01087

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.4	EPA-HQ-OW-2014-0598-0709	CleanStream® System Sterilizes Water, Reduces Chemical Footprint and Saves 'Green' by Going Green DCN SGE01116	A case history from Multi-Chem, a Halliburton company, about their water management solutions, specifically their CleanStream® System	Halliburton	1/1/2014	TRUE	FALSE	SGE01116
1.4	EPA-HQ-OW-2014-0598-0654	Controlling Bacteria in Recycled Production Water for Completion and Workover Operations - DCN SGE01118	SPE Production & Operations 25:2. Society of Petroleum Engineers. SPE 123450.	Tischler, Woodworth, Burton, Richards	5/1/2010	TRUE	FALSE	SGE01118
1.4	EPA-HQ-OW-2014-0598-0655	Improved Process Provides More Effective Ultraviolet Light Disinfection of Fracturing Fluids - DCN SGE01119	SPE Americas E&P Health, Safety, Security, and Environmental Conference, 21-23 March, Houston, Texas, USA. Society of Petroleum Engineers: SPE 142217.	Crane, Brady; Neal, Greg; and Warren, Wesley	3/1/2011	TRUE	FALSE	SGE01119
1.4	EPA-HQ-OW-2014-0598-0656	Case History: Challenges Using Ultraviolet Light to Control Bacteria in Marcellus Completions - DCN SGE01120	PE Eastern Regional Meeting, 17-19 August, Columbus, Ohio, USA. Society of Petroleum Engineers: SPE 149445.	Rodvelt, Gary; Yeager, Valerie; Hyatt, Martin	8/17/2011	TRUE	FALSE	SGE01120
1.5	EPA-HQ-OW-2014-0598-0446	Brush Run Spill Report DCN SGE00001	A frac water spill at Brush Run (Range Resources) violation reported on 10/7/09 involving a fish kill and failure to properly notify.	Miller, Bryon	10/8/2009	FALSE	FALSE	SGE00001
1.5	EPA-HQ-OW-2014-	Brush Run Lab Spill Samples - DCN	Laboratory samples from a frac water spill at Brush	Unknown		FALSE	FALSE	SGE00001.A01

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0446	SGE00001.A01	Run (Range Resources) measuring concentrations of contaminants at various sample locations.					
1.5	EPA-HQ-OW-2014-0598-0753	Agenda 1 - Technical Workshop for HF Study DCN SGE00004	An agenda for Technical Workshops for the Hydraulic Fracturing Study, focusing on Chemical & Analytical Methods.	USEPA	2/25/2011	FALSE	FALSE	SGE00004
1.5	EPA-HQ-OW-2014-0598-0753	HF Fluid Considerations in Marcellus Shale Completions DCNSGE00004.A01 DCN SGE00004.A01	A presentation on hydraulic fracturing fluid considerations in Marcellus Shale completions.	Degner, Dennis	2/24/2011	FALSE	FALSE	SGE00004.A01
1.5	EPA-HQ-OW-2014-0598-0753	High Rate HF in Non-Marcellus Unconventional Shales DCN SGE00004.A02	A presentation on high rate hydraulic fracturing additives in non-Marcellus unconventional shales.	McCurdy, Rick	2/24/2011	FALSE	FALSE	SGE00004.A02
1.5	EPA-HQ-OW-2014-0598-0753	Cross-link and Linear Gel Composition DCN SGE00004.A03	A presentation on crosslinked and linear gel composition in fracturing fluids.	Hodge, Richard		FALSE	FALSE	SGE00004.A03
1.5	EPA-HQ-OW-2014-0598-0753	Old vs. New Trends in HF Chemicals DCN SGE00004.A04	A presentation on old versus new trends in hydraulic fracturing (HF) chemicals.	Tuck, Denise, Halliburton	2/24/2011	FALSE	FALSE	SGE00004.A04
1.5	EPA-HQ-OW-2014-0598-0753	Unconventional Fracturing Fluids: What, Where, Why? DCN SGE00004.A05	A presentation on unconventional fracturing fluids compared to conventional frac fluids.	Gupta, Satya	1/1/2010	TRUE	FALSE	SGE00004.A05
1.5	EPA-HQ-OW-2014-0598-0753	Produced Formation Water Sample Results from Shale Plays DCN SGE00004.A06	A presentation on produced formation water sample results from shale plays	Coleman, Nancy		FALSE	FALSE	SGE00004.A06

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.5	EPA-HQ-OW-2014-0598-0753	Trace Metal Geochemistry and Mobility in the Marcellus Formation DCN SGE00004.A07	A presentation on trace metal geochemistry and mobility in the Marcellus Shale formation.	Bank, Tracy		FALSE	FALSE	SGE00004.A07
1.5	EPA-HQ-OW-2014-0598-0753	Fracture Fluid Additives and Formation Degradations DCN SGE00004.A08	A presentation on fracture fluid additives and formation degradations	King, George		FALSE	FALSE	SGE00004.A08
1.5	EPA-HQ-OW-2014-0598-0753	What Can You Expect or Not – Chemical Breakdown and Degradation DCN SGE00004.A09	A presentation on sources of constituents and the presence of salts, organics, metals, and others.	Tuck, Denise, Halliburton	2/24/2011	FALSE	FALSE	SGE00004.A09
1.5	EPA-HQ-OW-2014-0598-0753	Evaluating Interactions of Fracturing Fluids and Degradation Products with Radionuclides Contained in Organic-rich Solid-phase Host Materials DCN SGE00004.A10	A presentation on evaluating interactions of fracturing fluids and degradation products with radionuclides contained in organic-rich solid-phase host materials	Szabo, Zoltan		FALSE	FALSE	SGE00004.A10
1.5	EPA-HQ-OW-2014-0598-0753	Chemical and Isotopic Tracers of Natural Gas and Formation Waters in Fractured Shales DCN SGE00004.A11	A presentation on the chemical and isotopic tracers of natural gas and formation waters in fractured shales.	McIntosh, J.; Schlegel, et al.	2/24/2011	FALSE	FALSE	SGE00004.A11
1.5	EPA-HQ-OW-2014-0598-0753	Distinguishing the Source of Natural Gas Accumulations with a Combined Gas and Co-Produced Formation	A presentation on a case study from the Appalachian Basin about distinguishing the source of natural gas accumulations with a	Osborn, Stephen	2/24/2011	FALSE	FALSE	SGE00004.A12

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Water Geochemical Approach: A Case Study from the Appalachian Basin DCN SGE00004.A12	combined gas and co-produced formation water geochemical approach.					
1.5	EPA-HQ-OW-2014-0598-0753	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 SGE00004.A13	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.	Baldassare, Fred, Echelon Appl. Geo. Cons.	2/24/2011	FALSE	FALSE	SGE00004.A13
1.5	EPA-HQ-OW-2014-0598-0753	Tracing Fracturing Fluid Movement with Chemical and Gamma-Emitting Tracers with Verification by Microseismic Recording DCN SGE00004.A14	A presentation on tracking fracture fluids movement with chemical and gamma-emitting tracers with verification by microseismic recording.	King, George		FALSE	FALSE	SGE00004.A14
1.5	EPA-HQ-OW-2014-0598-0753	Designing a Water Quality Program for Shale Exploration DCN SGE00004.A15	A presentation on designing a water quality program, including baseline water testing, frac fluid testing, and water quality monitoring.	Blake, Uni		FALSE	FALSE	SGE00004.A15
1.5	EPA-HQ-OW-2014-0598-0753	Elucidating Water Contamination by Fracturing Fluids and Formation Waters from Gas Wells:	A presentation on elucidating water contamination by fracturing fluids and formation waters from gas wells and	Vengosh, Avner, et al.	2/1/2011	FALSE	FALSE	SGE00004.A16

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		Integrating Isotopic and Geochemical Fingerprints DCN SGE00004.A16	integrating isotopic and geochemical tracers.					
1.5	EPA-HQ-OW-2014-0598-0753	Isotopic Tracing of Groundwater Contamination: Techniques, Applications, and Practical Considerations DCN SGE00004.A17	A presentation on isotopic tracers of groundwater contamination, including information on techniques, applications, and considerations.	Lawson, Michael	2/24/2011	FALSE	FALSE	SGE00004.A17
1.5	EPA-HQ-OW-2014-0598-0753	Inorganic Geochemistry of Pennsylvania Marcellus Flowback Waters DCN SGE00004.A18	A presentation on the inorganic geochemistry of Pennsylvania Marcellus flowback waters.	Kirby, Carl, Bucknell Univ.	2/24/2011	FALSE	FALSE	SGE00004.A18
1.5	EPA-HQ-OW-2014-0598-0753	Quality Assurance, Quality Control and Method Performance Considerations for Chemical Testing: Samples Impacted by Hydraulic Fracturing Fluids DCN SGE00004.A19	A presentation on quality assurance and quality control and method performance considerations for chemical testing, focusing on samples impacted by hydrofracking fluids.	Thal, David		FALSE	FALSE	SGE00004.A19
1.5	EPA-HQ-OW-2014-0598-0753	Supercritical Water Oxidation TOC Analysis DCN SGE00004.A20	A presentation on determining the total organic carbon (TOC) in samples using supercritical water oxidation TOC analysis	McLeroy, Keith		FALSE	FALSE	SGE00004.A20
1.5	EPA-HQ-	Practical Quantization	A presentation on field and	Bagawan-	2/24/2011	FALSE	FALSE	SGE00004.A21

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	OW-2014-0598-0753	Limits, Method Detection Limits, Interferences and Dilution Challenges in Fracturing Fluid Analyses DCN SGE00004.A21	analytical challengers, focusing on practical quantization limits, method detection limits, interferences and dilution challenges.	doss, Kesavalu				
1.5	EPA-HQ-OW-2014-0598-0753	Radiochemical Analytical Challenges with Hydraulic Fracturing Fluids DCN SGE00004.A22	A presentation on radiochemical analytical challenges with hydrofrac fluids.	Romanko, Terry		FALSE	TRUE	SGE00004.A22
1.5	EPA-HQ-OW-2014-0598-0753	Analytical Challenges of Radionuclides in Brines DCN SGE00004.A23	A presentation on the analytical challenges of precise Ra measurements in brine.	Szabo, Zoltan		FALSE	FALSE	SGE00004.A23
1.5	EPA-HQ-OW-2014-0598-0447	Agenda 3 - Technical Workshop for HF Study - DCN SGE00006	An agenda for Technical Workshops for the Hydraulic Fracturing Study, focusing on Fate & Transport.	USEPA	3/28/2011	FALSE	FALSE	SGE00006
1.5	EPA-HQ-OW-2014-0598-0447	A Simple Approach Identifying Contaminants of Most Concern to Underground Drinking Water Supplies from Hydraulic Fracturing Operations - DCN SGE00006.A01	A presentation on a simple approach for identifying contaminants of most concern to underground drinking water supplies from hydraulic fracturing operations.	Palmer, Carl; Mattson, Earl	3/28/2011	FALSE	FALSE	SGE00006.A01
1.5	EPA-HQ-OW-2014-0598-0447	Fate and Transport of Select Hydraulic Fracturing Compounds of Potential Concern -	A presentation on the fate and transport of select compounds of interest in fracking fluids.	McGrath, Angus, Stantec	3/28/2011	FALSE	FALSE	SGE00006.A05

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		DCN SGE00006.A05						
1.5	EPA-HQ-OW-2014-0598-0447	Fate and Transport of Select Hydraulic Fracturing Compounds of Potential Concern: Where do we go from here - DCN SGE00006.A06	A presentation on a summary with followup information to the "fate and transport of HF compounds of potential concern" presentation.	McGrath, Angus		FALSE	FALSE	SGE00006.A06
1.5	EPA-HQ-OW-2014-0598-0447	Fate and Transport Evaluation of Potential Release Scenarios during Hydraulic Fracturing Operations - DCN SGE00006.A07	A presentation on considerations for fate and transport evaluation of potential release scenarios during hydraulic fracturing (HF) operations.	Deeley, George	3/28/2011	FALSE	FALSE	SGE00006.A07
1.5	EPA-HQ-OW-2014-0598-0447	A Protocol to Characterize Flowback Water Contamination of Shallow Waters from Shale Gas Development - DCN SGE00006.A08	A presentation on a protocol to identify flowback water contamination to drinking waters.	Siegel, Donald; Kight, Melody		FALSE	FALSE	SGE00006.A08
1.5	EPA-HQ-OW-2014-0598-0447	Rock Failure and Stimulated Volume in Hydraulic Fracturing - DCN SGE00006.A09	A presentation on rock failure, stimulated volume, and permeability enhancement in gas shale HF.	Ghassemi, Ahmad		FALSE	FALSE	SGE00006.A09
1.5	EPA-HQ-OW-2014-0598-0447	Fracture Growth in Layered and Discontinuous Media - DCN SGE00006.A10	A presentation on fracture growth in layered and discontinuous media.	Warpinski, Norman		TRUE	FALSE	SGE00006.A10
1.5	EPA-HQ-OW-2014-0598-0447	Characterizing Mechanical and Flow Properties using	A presentation on characterizing mechanical and flow properties using	Cramer, David	3/28/2011	FALSE	FALSE	SGE00006.A12

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Injection Falloff Tests - DCN SGE00006.A12	injection falloff tests.					
1.5	EPA-HQ-OW-2014-0598-0447	Role of Induced and Natural Imbibition in Fracturing Fluid Transport and Fate in Gas Shales - DCN SGE00006.A13	A presentation on the role of induced and natural imbibition in frac fluid transport and fate in gas shales.	Byrnes, Alan		FALSE	FALSE	SGE00006.A13
1.5	EPA-HQ-OW-2014-0598-0447	Modeling Versus the Real World of Hydraulic Fracturing - DCN SGE00006.A14	A presentation on modeling versus the real world of hydraulic fracturing (HF).	Tuck, Denise	1/1/2011	TRUE	FALSE	SGE00006.A14
1.5	EPA-HQ-OW-2014-0598-0447	Modeling Philosophies and Application - DCN SGE00006.A15	A presentation on modeling philosophies and application.	Havics, Andrew, pH2, LLC/QEP A	1/1/2011	TRUE	FALSE	SGE00006.A15
1.5	EPA-HQ-OW-2014-0598-0447	Modeling Drinking Water Related Human Health Risks from Hydraulic Fracturing Additives - DCN SGE00006.A16	A presentation on modeling drinking water related human health risks from hydraulic fracturing (HG) additives	Sharma, Manu, Gradient	3/29/2011	TRUE	FALSE	SGE00006.A16
1.5	EPA-HQ-OW-2014-0598-0747	Agenda 4 - Technical Workshop for HF Study DCN SGE00007	An agenda for Technical Workshops for the Hydraulic Fracturing Study, focusing on Water Resources Management.	USEPA	3/29/2011	FALSE	FALSE	SGE00007
1.5	EPA-HQ-OW-2014-0598-0747	How are Appropriate Water Sources for Hydraulic Fracturing Determined? Pre-development Conditions and	A presentation on determining appropriate water sources for hydraulic fracturing and pre-development conditions and management of	Hanson, Gary		FALSE	FALSE	SGE00007.A01

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Management of Development Phase Water Usage - DCN SGE00007.A01	development phase water usage.					
1.5	EPA-HQ-OW-2014-0598-0747	Water Requirements for Shale Gas Activities in the Marcellus and Fayetteville Shale - DCN SGE00007.A02	A presentation on water requirements for shale gas activities in the Marcellus and Fayetteville shale.	Veil, John		FALSE	FALSE	SGE00007.A02
1.5	EPA-HQ-OW-2014-0598-0747	Fresh, Brackish or Saline Water for Hydraulic Fracturing? What are the Options? - DCN SGE00007.A03	A presentation on water options for hydraulic fracs: fresh, brackish, or saline.	Godsey, William		FALSE	FALSE	SGE00007.A03
1.5	EPA-HQ-OW-2014-0598-0747	Water Management Analysis of Hydraulic Fracturing using System Dynamic Models - DCN SGE00007.A04	A presentation on water management analysis of hydraulic fracturing using system dynamic models	Palmer, Carl; Mattson, Earl; Cafferty, Kara	3/29/2011	FALSE	FALSE	SGE00007.A04
1.5	EPA-HQ-OW-2014-0598-0747	Water Requirements and Sustainable Sources in the Barnett Shale - DCN SGE00007.A05	A presentation on water requirements and sustainable sources in the Barnett Stale.	Werline, James	3/29/2011	FALSE	FALSE	SGE00007.A05
1.5	EPA-HQ-OW-2014-0598-0747	An Overview of Current and Projected Shale and Tight Gas Water Use in Texas: Implication for Local Water Resources - DCN SGE00007.A06	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.	Jean-Philippe Nicot	3/29/2011	FALSE	FALSE	SGE00007.A06

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.5	EPA-HQ-OW-2014-0598-0747	Water Demand and Supply in the Eagle Ford Shale - DCN SGE00007.A07	A presentation on the Eagle Ford Shale (TX) water supply and demand.	Jester, Stephen		FALSE	FALSE	SGE00007.A07
1.5	EPA-HQ-OW-2014-0598-0747	Enabling Fracturing Operations with Zero Fresh Water Withdrawals - DCN SGE00007.A08	A presentation on enabling zero fresh water withdrawal in shale gas operations.	Rao, Vikram	3/29/2011	FALSE	FALSE	SGE00007.A08
1.5	EPA-HQ-OW-2014-0598-0747	Sustaining Louisiana's Fresh Water Aquifers - A Case Study in Bringing Community and Industry Together - DCN SGE00007.A09	A presentation on sustaining Louisiana's freshwater aquifers, focusing on a case study about bringing community and industry together.	Welsh, James	5/28/2009	FALSE	FALSE	SGE00007.A09
1.5	EPA-HQ-OW-2014-0598-0747	Shale Frac Sequential Flowback Analyses and Reuse Implications - DCN SGE00007.A12	A presentation on shale frac sequential flowback analyses and reuse implications.	Blauch, Matthew	3/30/2011	FALSE	FALSE	SGE00007.A12
1.5	EPA-HQ-OW-2014-0598-0747	A Closed Loop System Using a Brine Reservoir to Replace Fresh Water as the Frac Fluid Source - DCN SGE00007.A16	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.	King, George	3/29/2011	FALSE	FALSE	SGE00007.A16
1.5	EPA-HQ-OW-2014-0598-0747	Novel and Emerging Technologies for Produced Water Treatment - DCN SGE00007.A19	A presentation on novel and emerging technologies for produced water treatment.	Xu, Pei; Cath, Tzahi; Drewes, Jorg	3/30/2011	FALSE	FALSE	SGE00007.A19
1.5	EPA-HQ-OW-2014-0598-0747	Hydraulic Fracturing & Safe Drinking Water - DCN SGE00007.A20	A presentation on hydraulic fracturing and safe drinking water.	GWPC	3/30/2011	FALSE	FALSE	SGE00007.A20

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.5	EPA-HQ-OW-2014-0598-0747	Simple Modeling of the Disposition of Fluids On-Site in a Pit DCN SGE00007.A21	A presentation on simple modeling of the disposition of fluids on-site in a pit.	Havics, Andrew	1/1/2011	TRUE	FALSE	SGE00007.A21
1.5	EPA-HQ-OW-2014-0598-0747	Underground Injection Wells for Produced Water Disposal - DCN SGE00007.A22	A presentation on underground injection wells for produced water disposal.	McCurdy, Rick		FALSE	FALSE	SGE00007.A22
1.5	EPA-HQ-OW-2014-0598-0524	PADEP Calls on Natural Gas Drillers to Stop Giving Treatment Facilities Wastewater - DCN SGE00009	An article from the PADEP about their call to stop natural gas drillers from giving treatment facilities wastewater.	Gresh, Katy, PADEP	4/19/2011	FALSE	FALSE	SGE00009
1.5	EPA-HQ-OW-2014-0598-0294	Ambient Aquatic Life Water Quality Criteria for Chloride 1988 - DCN SGE00013	A US EPA report about the ambient aquatic life water quality criteria for chloride dated 1988.	USEPA/O W	2/1/1988	FALSE	FALSE	SGE00013
1.5	EPA-HQ-OW-2014-0598-0297	EPA Briefing to the SEAB Natural Gas Subcommittee to Examine Fracking Issues DCN SGE00029	EPA gives overview of plan of attack for fracking issues and tentative meeting dates.	USEPA	5/19/2011	FALSE	FALSE	SGE00029
1.5	EPA-HQ-OW-2014-0598-0525	Answers to Unanswered Questions from Water Use and Water Re-use/Recycling in Marcellus Shale Gas Exploration and Production DCN SGE00038	Penn State Cooperative Extension Marcellus Shale Educational Webinar Series: Answers to Unanswered Questions	Yoxth-eimer, Dave; Gaudlip, Tony	10/21/2010	FALSE	FALSE	SGE00038
1.5	EPA-HQ-OW-2014-	Water Use and Water Reuse/Recycling in	Presentation from "Marcellus Shale	Yoxth-eimer,	10/1/2010	FALSE	FALSE	SGE00042

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0545	Marcellus Shale Gas Exploration and Production DCN SGE00042	Educational Webinar Series".	Dave; Gaudlip, Tony				
1.5	EPA-HQ-OW-2014-0598-0749	Water Used for Hydraulic Fracturing: Amounts, Sources, Reuse, and Disposal DCN SGE00051	Presentation discussing background about hydraulic fracturing and water usage, reuse, treatment and disposal.	Alleman, David	5/5/2011	TRUE	FALSE	SGE00051
1.5	EPA-HQ-OW-2014-0598-0771	Monitoring Water Quality to Determine Potential Impacts From Hydraulic Fracturing DCN SGE00053	Presentation discussing chemicals and compounds used in hydraulic fracturing and monitoring impacts from fracking.	Jehn, Paul	5/5/2011	FALSE	FALSE	SGE00053
1.5	EPA-HQ-OW-2014-0598-0778	Hydraulic Fracturing and State Water Quality Monitoring DCN SGE00054	Presentation discusses state oil and gas regulations compared to well construction regulations, environmental challenges with drinking water programs, and surface and groundwater stresses.	Lee, Joseph J.	5/5/2011	FALSE	FALSE	SGE00054
1.5	EPA-HQ-OW-2014-0598-0779	Chemical Analysis of Residual Waste Annual Report by the Generator DCN SGE00057	A chemical review form for XTO Energy	PA DEP	2/9/2011	FALSE	FALSE	SGE00057
1.5	EPA-HQ-OW-2014-0598-0780	Marcellus Shale Technology DCN SGE00059	Presentation about Marcellus drilling practices.	Frantz, Joseph H. Jr	5/3/2011	FALSE	FALSE	SGE00059
1.5	EPA-HQ-OW-2014-0598-0781	Environmentally Friendly Drilling Systems Program DCN SGE00061	Presentation about the Environmentally Friendly Drilling (EFD) program.	Haut, Richard C.	6/28/2011	FALSE	FALSE	SGE00061

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.5	EPA-HQ-OW-2014-0598-0301	Draft Plan to Study the Potential Impacts of Hydraulic Fracturing on Drinking Water Resources DCN SGE00063	Presentation outlining a study of the impacts of hydraulic fracturing on drinking water.	USEPA /ORD	6/28/2011	FALSE	FALSE	SGE00063
1.5	EPA-HQ-OW-2014-0598-0305	Water Management Associated with Hydraulic Fracturing - DCN SGE00068	Document provides information about hydraulic fracturing processes overall and specifically about water management.	American Petroleum Institute (API)	6/1/2010	TRUE	FALSE	SGE00068
1.5	EPA-HQ-OW-2014-0598-0792	Trip Report for Field Visit to Fayetteville Shale Gas Wells DCN SGE00071	Document discusses the drilling processes used in the Fayetteville Shale and additional notes after a field visit.	Veil, J.A.	8/9/2007	FALSE	FALSE	SGE00071
1.5	EPA-HQ-OW-2014-0598-0782	Real-World Solutions in Fluid Management: Supply, Storage, Treatment, Recycling, and Disposal Workshop DCN SGE00074	Presentation at the North East Shale Gas Symposium; Hot Topic #1	Hatch	5/19/2011	FALSE	FALSE	SGE00074
1.5	EPA-HQ-OW-2014-0598-0782	Real-World Solutions in Fluid Management: Supply, Storage, Treatment, Recycling, and Disposal Workshop DCN SGE00075	Presentation at the North East Shale Gas Symposium; Hot Topic #2	Hatch	5/19/2011	FALSE	FALSE	SGE00075
1.5	EPA-HQ-OW-2014-0598-0784	Real-World Solutions in Fluid Management: Supply, Storage, Treatment, Recycling,	Presentation at the North East Shale Gas Symposium; Hot Topic #3	Hatch	5/19/2011	FALSE	FALSE	SGE00076

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		and Disposal Workshop DCN SGE00076						
1.5	EPA-HQ-OW-2014-0598-0785	Frac Water Treatment Process DCN SGE00078	A description of the Salt Water Solutions three step process of treating frac water.	Salt Water Solutions, LLC	6/1/2011	TRUE	FALSE	SGE00078
1.5	EPA-HQ-OW-2014-0598-0308	Environmental Protection for Onshore Oil and Gas Production Operations and Leases DCN SGE00081	API recommended practice 51 R for domestic onshore oil and gas operations. Discusses good practices for lease roads, producing, injection/disposal wells, lease gathering and system lines, production and water handling facilities, and good neighbor guidelines.	API	7/1/2009	FALSE	FALSE	SGE00081
1.5	EPA-HQ-OW-2014-0598-0786	API Introduction and API HF Standards for the Oil and Natural Gas Industry DCN SGE00083	A presentation on API Hydraulic Fracturing Standards for the Oil and Natural Gas Industry.	Miller, David L.; Meadows, Stephanie	7/1/2011	FALSE	FALSE	SGE00083
1.5	EPA-HQ-OW-2014-0598-0750	Naturally Occurring Radioactive Materials (NORM) in Produced Water and Oil-Field Equipment An Issue for the Energy Industry DCN SGE00088	A document discussing NORM in produced water and oil field equipment.	Zielinski, Robert; Otton, James	9/1/1999	FALSE	FALSE	SGE00088
1.5	EPA-HQ-OW-2014-0598-0787	USGS Produced Waters Database figures DCN SGE00089	Selected figures from the USGS produced waters database about concentrations of select contaminants in produced	USGS	4/30/2002	FALSE	FALSE	SGE00089

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
			water.					
1.5	EPA-HQ-OW-2014-0598-0310	Preliminary Revised Draft: Supplemental Generic Environmental Impact Statement on the Oil, Gas, and Solution Mining Regulatory Program - DCN SGE00090	A preliminary revised draft discussing an EIS on oil, gas, and solution mining. Focuses on "Well Permit Issuance for Horizontal Drilling And High-Volume Hydraulic Fracturing to Develop the Marcellus Shale and Other Low-Permeability Gas Reservoirs".	Leff, Eugene	9/30/2009	FALSE	FALSE	SGE00090
1.5	EPA-HQ-OW-2014-0598-0342	Comparison of Three Methods to Measure Acidity of Coal-Mine Drainage - DCN SGE00133	A study that analyzes the Standard Methods 2310 for measuring the acidity of mine drainage.	Means, Brent; Hilton, Tiff	1/1/2004	FALSE	FALSE	SGE00133
1.5	EPA-HQ-OW-2014-0598-0343	The Next Generation of Tools and Actions to Restore Water Quality in the Chesapeake Bay - DCN SGE00135	A report that outlines current water quality problems within the Chesapeake Bay as well as different strategy options that can be used to correct these problems.	USEPA	11/24/2009	FALSE	FALSE	SGE00135
1.5	EPA-HQ-OW-2014-0598-0448	General College Chemistry DCN SGE00179	A textbook of basic chemistry.	Keenan, Charles	1/1/1957	TRUE	FALSE	SGE00179
1.5	EPA-HQ-OW-2014-0598-0531	Handling and treatment of brine and hydraulic fracturing fluids produced by natural gas and oil wells. DCN SGE00200	A webpage of a company that treats brine from oil and gas operations.	Hart Resource Technologies	1/1/2009	TRUE	FALSE	SGE00200

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.5	EPA-HQ-OW-2014-0598-0383	Shale Gas Produced Water Treatment Catalog - DCN SGE00225	Selecting a suitable water treatment technology for produced water in the shale gas industry is a complex and dynamic consideration that is contingent upon a full understanding of interrelated parameters such as, location, water quality and quantity, cost	ALL Consulting	11/18/2011	FALSE	FALSE	SGE00225
1.5	EPA-HQ-OW-2014-0598-0405	The Economic Impact of the Value Chain of a Marcellus Shale Well - DCN SGE00239	A presentation that gives detailed cost information on all aspects of a Marcellus shale gas well.	Hefley, William; Seydor, Shaun	8/1/2011	TRUE	FALSE	SGE00239
1.5	EPA-HQ-OW-2014-0598-0406	Radium Content of Oil and Gas-Field Produced Waters in the Northern Appalachian Basin (USA): Summary and Discussion of Data DCN SGE00241	Radium activity data for produced water from oil and gas operations in PA and NY. When available, TDS, gross alpha, and gross beta particles data was included.	Rowan, E.; Engle, C.; Kraemer	1/1/2011	FALSE	FALSE	SGE00241
1.5	EPA-HQ-OW-2014-0598-0776	Sampling and Analysis of Water Streams Associated with the Development of Marcellus Shale Gas DCN SGE00242	A report that provides flowback volume data versus time and constituent concentration data versus time for horizontal and vertical Marcellus wells in PA and NY.	Hayes, Thomas	12/31/2009	FALSE	FALSE	SGE00242
1.5	EPA-HQ-OW-2014-0598-0414	The Economics of Powder River Basin Coalbed Methane Development - DCN SGE00268	As with any resource assessment, technical and economic results are the product of the assumptions and methodology used. In	Bank, Gregory; Kuuskraa, Vello	1/1/2006	FALSE	FALSE	SGE00268

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
			this study, key assumptions as well as cost and price data and economic methodologies employed are provided in attached Appendices.					
1.5	EPA-HQ-OW-2014-0598-0415	Water co-produced with coalbed methane in the Powder River Basin, Wyoming: preliminary compositional data - DCN SGE00269	"Production of water and natural gas from coal beds (coalbed methane, CBM) has increased dramatically over the past ten years and the gas currently accounts for about 6% of the total produced in the United States.	Rice, C.A., Bullock, J.H.	1/1/2000	FALSE	FALSE	SGE00269
1.5	EPA-HQ-OW-2014-0598-0761	Marcellus Initiative: 2012 Shale Gas Water Management Conference Materials DCN SGE00273	This memo provides a the conference materials from the 2012 Shale Gas Water Management Conference materials. Presentations are included as attachments.	Camp, Meghan	4/9/2012	FALSE	FALSE	SGE00273
1.5	EPA-HQ-OW-2014-0598-0761	The What, Why, Which and How of Water Reclamation in the Marcellus Shale DCN SGE00273.A01	A presentation that provides current wastewater management practices in the Marcellus. The presentation also explains what technologies currently look promising for reuse applications.	Rick McCurdy	3/28/2012	FALSE	FALSE	SGE00273.A01
1.5	EPA-HQ-OW-2014-0598-0761	Examining How WPX Energy Has Successfully Located Water Sources and Cost Effectively	A presentation that looks at alternative freshwater management practices to reduce trucking including the use of temporary	Auman, Heath	3/28/2012	FALSE	FALSE	SGE00273.A02

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Attained Freshwater for Fracing DCN SGE00273.A02	pipelines instead of trucking.					
1.5	EPA-HQ-OW-2014-0598-0761	Article 7 Natural Gas Rule DCN SGE00273.A03	A presentation that discusses freshwater requirements, produced/flowback water volumes, and regulatory requirements within the Delaware River Basin.	William Muszynski	3/28/2012	FALSE	FALSE	SGE00273.A03
1.5	EPA-HQ-OW-2014-0598-0761	Regulating Shale Gas Development in the Susquehanna River Basin--What's New? DCN SGE00273.A04	A presentation describing what the Susquehanna River Basin does regulate and does not regulate. It also discusses current water withdrawal requirements.	Paula Ballaron	3/28/2012	FALSE	FALSE	SGE00273.A04
1.5	EPA-HQ-OW-2014-0598-0761	How to Get the Water You Need DCN SGE00273.A05	A presentation that describes the water withdrawal regulatory requirements in the Marcellus Shale. States discussed include PA, OH, and WV.	James Elliott	3/28/2012	FALSE	FALSE	SGE00273.A05
1.5	EPA-HQ-OW-2014-0598-0761	Water Management in the Ohio River Basin DCN SGE00273.A06	A presentation that provides an over view of the ORSANCO and the Ohio River Basin. Topics include water withdrawals and surface water quality monitoring,	Peter Tennant	3/28/2012	FALSE	FALSE	SGE00273.A06
1.5	EPA-HQ-OW-2014-0598-0761	Marcellus Shale Erosion, Sediment & Stormwater Best Management Practices	A presentation on stormwater management at natural gas extraction sites. The presentation includes	Crescent Services, LLC	3/28/2012	FALSE	FALSE	SGE00273.A07

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Compliance & Reporting DCN SGE00273.A07	examples of best management practices and examples of poor management.					
1.5	EPA-HQ-OW-2014-0598-0761	Marcellus Water Beneficial Reuse Strategy DCN SGE00273.A08	A presentation that provides an overview of Talisman Energy's wastewater management strategy. The discussion includes flow charts of wastewater management associated with shale gas.	Webb, Christie	3/28/2012	FALSE	FALSE	SGE00273.A08
1.5	EPA-HQ-OW-2014-0598-0761	On-site Field Analysis of Hydraulic Fracturing Flowback and Produced Waters DCN SGE00273.A09	A presentation that provides background on sampling and methods for hydraulic fracturing wastewater. The presentation includes TDS, barium, and pH results for Marcellus, Barnett, and eagle ford shale plays.	Scott Tucker	3/28/2012	FALSE	FALSE	SGE00273.A09
1.5	EPA-HQ-OW-2014-0598-0761	Flowback and Produced Water Treatment Overview: Thermal Solutions for Shale Gas Wastewaters DCN SGE00273.A10	A presentation that describes the overall water and wastewater management process associated with shale gas. More detail is provided on evaporation treatment processes. Detailed water quality and volume overtime for one well is provided.	Joeseeph Tinto	3/28/2012	TRUE	TRUE	SGE00273.A10
1.5	EPA-HQ-OW-2014-0598-0761	Re-use: Treatment Technologies DCN SGE00273.A11	A presentation on the proposed CWT in the Eagle Ford Shale play. The facility	Ritts, Dean	3/28/2012	FALSE	FALSE	SGE00273.A11

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
			is currently under design so exact details are not provided although the technology may include clarification, coagulation, dissolved gas flotation, and filtration.					
1.5	EPA-HQ-OW-2014-0598-0761	Strategic Decision-Making for Water Management Applied to Unconventional Gas DCN SGE00273.A12	A presentation that discusses Golder Associate's decision making tool for shale gas wastewater management.	Tekla Taylor	3/28/2012	FALSE	FALSE	SGE00273.A12
1.5	EPA-HQ-OW-2014-0598-0761	Project to Develop Flowback Water Reuse Guidelines for Hydraulic Fracturing Operations DCN SGE00273.A13	A presentation that describes wastewater reuse practices for hydraulic factors. Topics discussed include specific water quality criteria for fracturing fluid.	Keith Minnich	3/20/2012	FALSE	FALSE	SGE00273.A13
1.5	EPA-HQ-OW-2014-0598-0761	Chemical Additives and GreenFrac™ Overview DCN SGE00273.A14	A presentation on the use of green chemicals in hydraulic fracturing. First, an overview of common additives used by formation is provided with concentration details. Then a comparison is made between GreenFrac and common chemical additives.	Rick McCurdy	3/28/2012	FALSE	FALSE	SGE00273.A14
1.5	EPA-HQ-OW-2014-0598-0761	Trucking, Piping: a Comprehensive Approach to Water Transportation DCN SGE00273.A15	A presentation that provides an overview of Anadarko's water and wastewater management. The focus of the presentation is on	Matthew Peloquin	3/29/2012	FALSE	FALSE	SGE00273.A15

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
			trucking and transportation.					
1.5	EPA-HQ-OW-2014-0598-0761	Questions about Water Tracking for Marcellus Producers DCN SGE00273.A16	A presentation that discusses what wastewater tracking should include and why.	Kieth, Charles	3/28/2012	FALSE	FALSE	SGE00273.A16
1.5	EPA-HQ-OW-2014-0598-0761	Evaluating Water Storage Options Available & How They Can be Integrated Into the Overall Logistical Water Framework DCN SGE00273.A17	A presentation that discusses Anadarko's water storage.	Rane Wilson	3/29/2012	FALSE	FALSE	SGE00273.A17
1.5	EPA-HQ-OW-2014-0598-0761	Shale Gas Water Management DCN SGE00273.A18	A presentation that provides a comparison between a large scale centralized source water management system and conventional trucking in Lycoming County, PA.	Kepler, Doug	3/29/2012	FALSE	FALSE	SGE00273.A18
1.5	EPA-HQ-OW-2014-0598-0761	Regulatory Update DCN SGE00273.A19	A presentation from an industry perspective that describes difficulties in regulatory requirements associated with shale gas development.	Slagel, Gary E.		FALSE	FALSE	SGE00273.A19
1.5	EPA-HQ-OW-2014-0598-0761	Minimizing Risk with Water Storage and Transportation DCN SGE00273.A20	A presentation that discusses the risk of wastewater transportation and storage.	Burket, Brill	3/29/2012	FALSE	FALSE	SGE00273.A20
1.5	EPA-HQ-OW-2014-0598-0761	Examining The Regulations and Restrictions Set by the DEP to Determine the	A presentation that describes the PA DEP regulatory requirements for shale gas wastewater. A list	Kline, Jim	3/28/2012	FALSE	FALSE	SGE00273.A21

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Operational Feasibility of Disposal - DCN SGE00273.A21	of facilities approved to accept wastewater for treatment is also provided including the technology used and capacity.					
1.5	EPA-HQ-OW-2014-0598-0548	3rd Water Management for Shale Plays Conference Materials DCN SGE00298	This memo contains the presentations as attachments that ERG obtained from the 3rd Water Management for Shale Plays Conference in Pittsburgh, PA	Ruminski, Brent	12/31/2012	FALSE	FALSE	SGE00298
1.5	EPA-HQ-OW-2014-0598-0548	Air Pollution Emissions at Flowback/Produced Wastewater Treatment Plants DCN SGE00298.A04	This presentation describes how to estimate air pollution at wastewater treatment plants.	Ritts, Dean	10/29/2012	FALSE	FALSE	SGE00298.A04
1.5	EPA-HQ-OW-2014-0598-0720	2012 Shale Gas Water Management Conference Notes DCN SGE00310	This memo summarizes information from the 2012 Shale Gas Water Management Conference.	Ruminski, Brent	11/27/2012	FALSE	FALSE	SGE00310
1.5	EPA-HQ-OW-2014-0598-0720	PA DEP Oil and Gas Management DCN SGE00310.A01	This presentation discusses oil and gas mining, clean water discharges, air quality emissions, waste storage and disposal, environment cleanup, radiation protection, watersheds, and water supplies.	PA DEP		FALSE	FALSE	SGE00310.A01
1.5	EPA-HQ-OW-2014-0598-0720	PA DEP Oil and Gas Management DCN SGE00310.A02	This presentation presents a statutory and regulatory review of shale oil drilling in Pennsylvania, West Virginia, and Ohio.	Slagel, Gary		FALSE	FALSE	SGE00310.A02

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.5	EPA-HQ-OW-2014-0598-0720	PA DEP Oil and Gas Management DCN SGE00310.A03	This presentation discusses water issues in the Ohio River Basin regarding drilling in the Marcellus & Utica shale plays.	Orsanco		FALSE	FALSE	SGE00310.A03
1.5	EPA-HQ-OW-2014-0598-0720	Production & Frac Water Recycling Trends and Future Requirements DCN SGE00310.A04	This presentation discusses how zero discharge technology will positively impact Marcellus and Utica shale drilling exploration, provide needed water management and recycling solutions, and reduce cost and environmental impact.	Lewis, Tom		FALSE	FALSE	SGE00310.A04
1.5	EPA-HQ-OW-2014-0598-0720	Production & Frac Water Recycling Trends and Future Requirements DCN SGE00310.A05	This presentation discusses water acquisition and wastewater disposal in Ohio's Utica Shale Play	Wilson, Craig	10/1/2012	TRUE	FALSE	SGE00310.A05
1.5	EPA-HQ-OW-2014-0598-0720	Production & Frac Water Recycling Trends and Future Requirements DCN SGE00310.A06	This presentation discusses an overview of the Marcellus and Utica shale plays, the impact of evolving regulations on water management, flowback/produced water treatment, recycle and disposal options, and future produced water generation and treatment.	Hughes, Stephen	10/29/2012	FALSE	FALSE	SGE00310.A06
1.5	EPA-HQ-OW-2014-0598-0720	Production & Frac Water Recycling Trends and Future Requirements DCN	This presentation discusses drilling in the Bakken play and what to expect for growth, EPA's evaluation	Warlick, Don	10/29/2012	FALSE	FALSE	SGE00310.A07

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		SGE00310.A07	and oversight of water management issues, and fluids and water management and oversight in the Marcellus play that is being applied to Bakken.					
1.5	EPA-HQ-OW-2014-0598-0720	Water Issues Relative to the Bakken in North Dakota DCN SGE00310.A08	This presentation presents a Bakken overview, project levels of activity, current water practices, reasons for growing concerns, and question on implications/opportunities.	Landenberger, James	10/29/2012	FALSE	FALSE	SGE00310.A08
1.5	EPA-HQ-OW-2014-0598-0720	Water Management for Shale Plays An Overview of the Niobrara Shale DCN SGE00310.A11	This presentation presents summarizes water management in the Niobrara shale, such as more focused oversight and environmental concern and EPA and state entities and regional and water-focused organizations continuing to oversee water management issues.	Warlick, Don	10/29/2012	FALSE	FALSE	SGE00310.A09
1.5	EPA-HQ-OW-2014-0598-0720	Assessing Specific Plays - Niobrara DCN SGE00310.A10	This presentation discusses water management in the Niobrara shale play.	Dhanasekar , Ashwin; Carlson, Ken		FALSE	FALSE	SGE00310.A10
1.5	EPA-HQ-OW-2014-0598-0720	Shale Water Conference DCN SGE00310.A11	This presentation fracking water use and regulations in Texas.	Green Hunter Energy Inc.		FALSE	FALSE	SGE00310.A11
1.5	EPA-HQ-OW-2014-0598-0720	212 Resources DCN SGE00310.A12	This presentation discusses methods for treating wastewater for the oil and gas industry.	212 Resources		FALSE	FALSE	SGE00310.A12

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.5	EPA-HQ-OW-2014-0598-0720	Innovative Water Strategies for Marcellus Development - DCN SGE00310.A13	This presentation presents a joint venture pilot study for water management.	Pettengil, Ron; Owsiany, John		TRUE	FALSE	SGE00310.A13
1.5	EPA-HQ-OW-2014-0598-0720	Water Management Strategy Recycling Water DCN SGE00310.A15	This presentation discusses water management strategies in recycling water in shale operations.	Zamora, Frank		FALSE	FALSE	SGE00310.A14
1.5	EPA-HQ-OW-2014-0598-0720	Storing Water On-Site to Reduce Transportation Costs and Maximize Efficiencies Infocast 3rd Water Management for Shale Plays DCN SGE00310.A15	This presentation discusses water storage on-site to reduce transportation costs and maximize efficiencies.	Green Hunter Energy Inc.		FALSE	FALSE	SGE00310.A15
1.5	EPA-HQ-OW-2014-0598-0720	3rd Water Management for Shale Plays DCN SGE00310.A16	This presentation discusses a thermal desalination water treatment process.	Bruff, Matthew	10/29/2012	FALSE	FALSE	SGE00310.A16
1.5	EPA-HQ-OW-2014-0598-0720	Solving the World's Water Challenges DCN SGE00310.A17	This presentation discusses challenges in the oil & gas industry and water treatment, water treatment strategy, technology overview, oil & gas applications, case studies, environmental impact, and industry recognition.	EcoSphere	10/1/2012	FALSE	FALSE	SGE00310.A17
1.5	EPA-HQ-OW-2014-0598-0720	The Application of Chlorine Dioxide in Frac Water Treatment	This presentation discusses application of chlorine dioxide in frac water	Sabre Energy Services,	10/1/2012	TRUE	FALSE	SGE00310.A18

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Using Multi Stream Re-use Water Sources DCN SGE00310.A18	treatment using multi stream re-use water sources	LLC				
1.5	EPA-HQ-OW-2014-0598-0720	Air Pollutant Emissions at Flowback/Produced Wastewater Treatment Plants DCN SGE00310.A19	This presentation discusses key air regulations in effect, air permitting issues, and steps in preparing an emissions estimate for a wastewater treatment plant.	Ritts, Dean		FALSE	FALSE	SGE00310.A19
1.5	EPA-HQ-OW-2014-0598-0720	Treatment of Coal Mine Drainage (CMD) for Beneficial Reuse A Case Study on the Gilberton Power Plant DCN SGE00310.A20	This presentation presents a case study of treating CMD for beneficial reuse at the Gilberton Power Plant.	Aquatech International		FALSE	FALSE	SGE00310.A20
1.5	EPA-HQ-OW-2014-0598-0720	Maximizing Efficiency and Safety When Moving Water DCN SGE00310.A21	This presentation discusses solutions for maximizing efficiency and safety in water management.	Mastowski, Ryan	10/31/2012	FALSE	FALSE	SGE00310.A21
1.5	EPA-HQ-OW-2014-0598-0720	Water Infrastructure versus Mobile Options for Treating and Disposing Water DCN SGE00310.A22	This presentation discusses types of shale water and advantages and disadvantages of mobile solutions and infrastructure solutions for treating and disposing of water.	High Sierra Energy, LP	10/31/2012	FALSE	FALSE	SGE00310.A22
1.5	EPA-HQ-OW-2014-0598-0720	The Tutorial Disposal Wells: An Assessment of Available Wells and Facilities DCN SGE00310.A23	This presentation discusses facility availability and limitations of brine disposal wells, forecast for additional wells, identifying targeted areas and formations, permitting overview, public concerns, and cost	Skoff, Dale	10/29/2012	FALSE	FALSE	SGE00310.A23

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
			comparison to other available options.					
1.5	EPA-HQ-OW-2014-0598-0720	Transporting and Storing Water for Hydraulic Fracturing DCN SGE00310.A24	This presentation discusses the options for transporting and storing water for hydraulic fracturing.	Poeckes, Drew		FALSE	FALSE	SGE00310.A24
1.5	EPA-HQ-OW-2014-0598-0436	Life-Cycle Analysis of Shale Gas and Natural Gas - DCN SGE00354	This report examines the life cycle of shale wells in various plays in terms of air emissions.	Clark, C.E.; et al	12/1/2012	FALSE	FALSE	SGE00354
1.5	EPA-HQ-OW-2014-0598-0440	New Subsidiary Alanco Energy Services, Inc. To Provide Produced Water Disposal Services to Natural Gas Industry - DCN SGE00363	This website provides general information on AES's new CWT located in Colorado.	Alanco Energy Services, Inc.	4/9/2012	TRUE	FALSE	SGE00363
1.5	EPA-HQ-OW-2014-0598-0441	Alanco Energy Services, Inc. Commences Commercial Operation of New Colorado Oil & Gas Produced Water Treatment Facility - DCN SGE00364	This website provides the general location of AEA's new CWT in Colorado.	Alanco Energy Services, Inc.	8/15/2012	TRUE	FALSE	SGE00364
1.5	EPA-HQ-OW-2014-0598-0442	Eagle Ford Shale (South Texas) - DCN SGE00365	This website provides general location information for a CWT that uses evaporation/distillation in the Eagle Ford shale play.	Fountain Quail Water Management, LLC	1/28/2013	TRUE	FALSE	SGE00365
1.5	EPA-HQ-OW-2014-0598-0443	Clarion Altela Environmental Services CAES	This website provides location information for a CWT that uses	CAES	1/28/2013	TRUE	FALSE	SGE00366

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Overview - DCN SGE00366	evaporation/distillation to treat shale gas wastewater in the Marcellus.					
1.5	EPA-HQ-OW-2014-0598-0444	CARES McKean - DCN SGE00367	This website provides location information for a CWT that uses evaporation/distillation to treat shale gas wastewater in the Marcellus.	CARES	1/28/2013	TRUE	FALSE	SGE00367
1.5	EPA-HQ-OW-2014-0598-0445	Key Documents About Mid-Atlantic Oil and Gas Extraction - DCN SGE00368	This EPA website provides a list of CWTs and POTWs that have accepted shale gas wastewater.	USEPA	1/9/2013	FALSE	FALSE	SGE00368
1.5	EPA-HQ-OW-2014-0598-0445	Key Documents About Mid-Atlantic Oil and Gas Extraction - Attachment 1: Supporting Technical Documents DCN SGE00368.A01	East Resources Management LLC: Generator Chemical Analysis of Residual Waste Annual Report (dated 2/2011) for drilling fluids. DCN includes supporting laboratory and sampling documentation.	USEPA	2/10/2010	FALSE	FALSE	SGE00368.A01
1.5	EPA-HQ-OW-2014-0598-0452	Anticline Disposal, LLC - DCN SGE00369	This website provides general information about a CWT in Wyoming.	Anticline Disposal, LLC	1/28/2013	TRUE	FALSE	SGE00369
1.5	EPA-HQ-OW-2014-0598-0453	Silo Facility Sheet - DCN SGE00371	This fact sheet provides location data on R360's CWT located in Wyoming.	R360 Environmental		TRUE	FALSE	SGE00371
1.5	EPA-HQ-OW-2014-0598-0454	Red Desert: Facilities - DCN SGE00374	This website provides general treatment information and the location for a CWT located in Wyoming.	Red Dessert	1/28/2013	TRUE	FALSE	SGE00374

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.5	EPA-HQ-OW-2014-0598-0455	Sionix to Build Bakken Water Treatment Plant - DCN SGE00375	This article provides information on a proposed CWT in the Bakken shale play of North Dakota including general location information.	Rigzone	8/30/2011	TRUE	FALSE	SGE00375
1.5	EPA-HQ-OW-2014-0598-0456	SRWR: Our Services - DCN SGE00376	This website provides general information on SRWR's proposed CWT that is expected to begin operations in 2013 in Somerset, PA.	Somerset Regional Water Resources	1/28/2013	TRUE	FALSE	SGE00376
1.5	EPA-HQ-OW-2014-0598-0770	Exploration and Production Waste Disposal Database DCN SGE00377	This database contains location and cost information on oil and gas wastewater management companies throughout the country.	Veil, John; Puder, Markus	6/28/2006	FALSE	FALSE	SGE00377
1.5	EPA-HQ-OW-2014-0598-0457	DRBC Proposed Natural Gas Development Regulations Comments of Waste Management - DCN SGE00378	This letter provides information on Waste Management's CWT located in the Marcellus.	Waste Mgmt	4/14/2011	FALSE	FALSE	SGE00378
1.5	EPA-HQ-OW-2014-0598-0458	The Future is NOW for Water Recycling in the Niobrara - DCN SGE00379	This website provides general location information for High Sierra's CWTs located in the Niobrara.	Wyoming Energy	11/6/2012	TRUE	FALSE	SGE00379
1.5	EPA-HQ-OW-2014-0598-0460	List of Currently Active Class II Underground Injection Control Well as of January 2012 - DCN SGE00382	This file contains disposal and EOR injection well API numbers active in Colorado.	COGCC	1/1/2012	FALSE	FALSE	SGE00382

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1.5	EPA-HQ-OW-2014-0598-0461	Kansas Wells - DCN SGE00383	This database contains all Kansas oil and gas wells including UIC wells.	Kansas Geological Survey	12/19/2012	FALSE	FALSE	SGE00383
1.5	EPA-HQ-OW-2014-0598-0462	Oil and Gas Well Database Abbreviations - DCN SGE00384	This file provides definitions for codes used in the Kansas well database.	Kansas Geological Survey	4/3/2004	FALSE	FALSE	SGE00384
1.5	EPA-HQ-OW-2014-0598-0463	Produced Fluid Disposal Wells By Field - DCN SGE00385	This file contains well records for active disposal wells in Louisiana.	Louisiana Department of Natural Resources	7/19/2012	FALSE	FALSE	SGE00385
1.5	EPA-HQ-OW-2014-0598-0464	UIC Well Class Type - DCN SGE00386	This file contains well class codes definitions for the active LA UIC well file.	Louisiana Department of Natural Resources	12/31/2012	FALSE	FALSE	SGE00386
1.5	EPA-HQ-OW-2014-0598-0465	Status Code Description - DCN SGE00387	This file contains well status codes definitions for the active LA UIC well file.	Louisiana Department of Natural Resources	12/31/2012	FALSE	FALSE	SGE00387
1.5	EPA-HQ-OW-2014-0598-0466	Oil and Gas Permits - DCN SGE00388	This excel file contains Missouri oil and gas wells including UIC wells.	Missouri Department of Natural Resources	5/31/2013	FALSE	FALSE	SGE00388
1.5	EPA-HQ-OW-2014-0598-0467	UIC Wells - DCN SGE00389	This online searchable database provides all Montana oil and gas wells with results exportable to excel.	MT Board of Oil and Gas Conservation	1/1/2012	FALSE	FALSE	SGE00389
1.5	EPA-HQ-OW-2014-0598-0698	Well Type Definitions - DCN SGE00391	This file contains well type definitions for the North Dakota online searchable database.	NDIC	2/4/2013	FALSE	FALSE	SGE00391
1.5	EPA-HQ-OW-2014-	Well Status Definitions - DCN SGE00392	This file contains well status definitions for the North	NDIC	2/4/2013	FALSE	FALSE	SGE00392

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0699		Dakota online searchable database.					
1.5	EPA-HQ-OW-2014-0598-0700	Well Data - DCN SGE00393	This database contains all Nebraska oil and gas wells including UIC wells.	NOGCC	12/20/2012	FALSE	FALSE	SGE00393
1.5	EPA-HQ-OW-2014-0598-0701	Data Dictionary - DCN SGE00394	This file contains code definitions for Nebraska's oil and gas database.	NOGCC	1/1/2012	FALSE	FALSE	SGE00394
1.5	EPA-HQ-OW-2014-0598-0712	Ohio Oil & Gas Well Database: Risked Based Data Management System (RBDMS) - DCN SGE00397	This database contains all Ohio oil and gas wells including UIC wells.	Ohio Department of Natural Resources	1/1/2012	FALSE	FALSE	SGE00397
1.5	EPA-HQ-OW-2014-0598-0667	Well Status Codes - DCN SGE00398	This file contains well status code definitions for the Ohio oil and gas database.	Ohio Department of Natural Resources	2/4/2013	FALSE	FALSE	SGE00398
1.5	EPA-HQ-OW-2014-0598-0764	All Wells Database - DCN SGE00399	This database contains all New Mexico oil and gas wells including UIC wells.	Petroleum Recovery Research Center	12/13/2013	FALSE	FALSE	SGE00399
1.5	EPA-HQ-OW-2014-0598-0765	Injection Data - DCN SGE00400	This excel data file contains all of South Dakota's UIC wells.	SD DENR	10/31/2012	FALSE	FALSE	SGE00400
1.5	EPA-HQ-OW-2014-0598-0497	Explanation of Database Fields and Terms - DCN SGE00401	This file contains code definitions for the South Dakota oil and gas database.	SD DENR	12/31/2012	FALSE	FALSE	SGE00401
1.5	EPA-HQ-OW-2014-0598-0702	Injection & Disposal Query Criteria - DCN SGE00402	This online searchable database provides UIC well records by type (i.e., disposal, EOR).	TXRCC	1/1/2012	FALSE	FALSE	SGE00402

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1.5	EPA-HQ-OW-2014-0598-0703	Well Information Search - DCN SGE00403	This online searchable database provides all Utah oil and gas wells with results exportable to excel.	Utah Department of Natural Resources	1/1/2012	TRUE	FALSE	SGE00403
1.5	EPA-HQ-OW-2014-0598-0704	Well Header Data 111412 - DCN SGE00405	This database contains all Wyoming oil and gas wells including UIC wells.	WOGC	11/14/2012	FALSE	FALSE	SGE00405
1.5	EPA-HQ-OW-2014-0598-0561	Status Codes for Well Files - DCN SGE00406	This file contains code definitions for the Wyoming oil and gas database.	WOGC	2/4/2013	FALSE	FALSE	SGE00406
1.5	EPA-HQ-OW-2014-0598-0638	Oil and Gas Well Search - DCN SGE00407	This online searchable database provides all West Virginia oil and gas wells with results exportable to excel.	WVDEP	1/1/2012	FALSE	FALSE	SGE00407
1.5	EPA-HQ-OW-2014-0598-0562	Notes on Penn State Webinar: The Utica Reservoir DCN SGE00428	Notes from a shale webinar series, 4/28/13	ERG	6/5/2013	FALSE	FALSE	SGE00428
1.5	EPA-HQ-OW-2014-0598-0564	Opening Remarks Mississippi Lime Production & Produced Water 2013 DCN SGE00442.A05	Opening Remarks Mississippi Lime Production & Produced Water 2013 presentation	Harpham, Stephen	6/26/2013	FALSE	FALSE	SGE00442.A05
1.5	EPA-HQ-OW-2014-0598-0564	Optimizing Pressure Drawdown to Improve Oil Recovery DCN SGE00442.A07	Optimizing Pressure Drawdown to Improve Oil Recovery presentation	Petroriver Oil	6/27/2013	FALSE	FALSE	SGE00442.A07
1.5	EPA-HQ-OW-2014-0598-0564	It Should be Easy Stimulated Hydrocarbon Pore Volume DCN SGE00442.A09	It Should be Easy Stimulated Hydrocarbon Pore Volume presentation	Unruh, Don	6/27/2013	FALSE	FALSE	SGE00442.A09

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1.5	EPA-HQ-OW-2014-0598-0574	Hydraulic Fracturing Radiological Concerns for Ohio - DCN SGE00505	A summary of radiological concerns for hydraulic fracturing wastewater handling in Ohio.	Belcher, Melissa	6/13/2013	FALSE	FALSE	SGE00505
1.5	EPA-HQ-OW-2014-0598-0575	Wastewater Wasteland: An Investigation of Flowback Fluid Disposal in NY - DCN SGE00506	This paper cautions residents of New York about the dangers of wastewater.	Bissell, Alex		TRUE	FALSE	SGE00506
1.5	EPA-HQ-OW-2014-0598-0578	Predicting Chlorine Decay and THM Formation in Water Supply Systems - DCN SGE00509	This paper presents a review of the work undertaken to improve understanding of the mechanisms of chlorine decay and THM formation.	Brown, Daniel	1/29/2011	TRUE	FALSE	SGE00509
1.5	EPA-HQ-OW-2014-0598-0580	Red Desert Water Plant Opens Today - DCN SGE00512	A press release announcing the opening of a water reclamation facility in Wyoming.	Casper Star-Tribune	10/6/2010	TRUE	FALSE	SGE00512
1.5	EPA-HQ-OW-2014-0598-0584	Groups Reach Settlement with McKeesport in Gas Drilling Wastewater Dumping Case - DCN SGE00515	This press release describes a court settlement in which the City of McKeesport agrees to end acceptance of discharge wastewater from Marcellus Shale gas drilling operations.	Clean Water Action	5/1/2012	FALSE	FALSE	SGE00515
1.5	EPA-HQ-OW-2014-0598-0588	Radioactivity - DCN SGE00519	This paper describes radioactivity as pertains to waste streams from the Marcellus shale and communicates a recommendation from the town of Dryden.	Davies, Peter		FALSE	FALSE	SGE00519

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.5	EPA-HQ-OW-2014-0598-0595	The Politics and Business of Unconventional Energy: Pennsylvania: Data Show More Marcellus Wastewater, More Mnjections - DCN SGE00528	A newspaper article describing options for handling increased wastewater.	Gilmer, Ellen	2/22/2013	TRUE	FALSE	SGE00528
1.5	EPA-HQ-OW-2014-0598-0042	Letter to Michael Krancer, Secretary of the Pennsylvania Department of Environmental Protection - DCN SGE00545	A letter to the secretary of the PA DEP from the president of the Marcellus Shale Coalition, expressing commitment to meet the call to halt delivery of wastewater to treatment plants.	Klaber, Kathryn	4/20/2011	FALSE	FALSE	SGE00545
1.5	EPA-HQ-OW-2014-0598-0062	TENORM Study: 3rd Quarter 2013 Update - DCN SGE00574	A presentation describing sampling for technologically enhanced naturally occurring radioactive material.	PA DEP	1/1/2013	FALSE	FALSE	SGE00574
1.5	EPA-HQ-OW-2014-0598-0064	Oil, Gas Wells Face Waste Hurdle: Sewage Plants Ordered by DEP to Curb Processing Wastewater from Drilling - DCN SGE00576	A newspaper article describing PA DEP's order for nine sewage plants to curb processing wastewater from oil and gas drilling sites.	Pittsburgh Business Times	10/31/2008	TRUE	FALSE	SGE00576
1.5	EPA-HQ-OW-2014-0598-0065	Polar Bear Water Treatment Company Website - DCN SGE00577	A homepage for the Polar Bear Water Treatment, LLC.	Polar Bear Water Treatment	10/22/2013	FALSE	FALSE	SGE00577
1.5	EPA-HQ-OW-2014-	Purestream Services Will Begin	A press release announcing that Purestream Services	Purestream Services	8/27/2013	TRUE	FALSE	SGE00578

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0066	Commercial Operations to Treat Eagle Ford Shale Produced and Frac Flow-back Water in Gonzalez County, Texas - DCN SGE00578	will begin treating produced and flow-back water from the Eagle Ford Shale formation.					
1.5	EPA-HQ-OW-2014-0598-0068	Corralling Wastewater: Treatment company sets up shop in Kay Arena - DCN SGE00580	A news article describing plans for a new wastewater treatment plant.	Wells, Randy	1/31/2012	TRUE	FALSE	SGE00580
1.5	EPA-HQ-OW-2014-0598-0069	Gas Wastewater Treatment Facility to Begin Operations - DCN SGE00582	A news article describing plans to open a new wastewater treatment facility.	Reuther, Mike	8/21/2013	TRUE	FALSE	SGE00582
1.5	EPA-HQ-OW-2014-0598-0071	Marcellus Water Treatment - DCN SGE00584	A company website describing water treatment of Marcellus shale water.	Shallenberger Construction	10/28/2013	TRUE	FALSE	SGE00584
1.5	EPA-HQ-OW-2014-0598-0074	Solutions - DCN SGE00588	A description of TerrAqua Resource Management service offerings.	TerrAqua Resource Mgmt	10/28/2013	FALSE	FALSE	SGE00588
1.5	EPA-HQ-OW-2014-0598-0080	Development Document for the Final Effluent Limitations Guidelines and Standards for the Metal Products and Machinery Point Source Category - DCN SGE00600	This development document contains background, industry description, data collection, site visits, wastewater characteristics, pollutant parameters, treatment technologies, long-term averages and trends, cost analysis, and non-water quality impacts.	USEPA	12/1/2000	FALSE	FALSE	SGE00600

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.5	EPA-HQ-OW-2014-0598-0085	Record of Communication for Calls on Pretreatment with Morgan City, LA and Region 6 on Shreveport, LA - DCN SGE00605	A record of two phone calls regarding historical POTWs violations.	USEPA	2/23/2010	FALSE	FALSE	SGE00605
1.5	EPA-HQ-OW-2014-0598-0086	Radium - DCN SGE00606	EPA webpage on Radium, including properties, exposure, and health effects.	USEPA	3/6/2012	FALSE	FALSE	SGE00606
1.5	EPA-HQ-OW-2014-0598-0096	Development Document for Interim Final Effluent Limitations Guidelines and Proposed New Source Performance Standards for the Oil and Gas Extraction Point Source Category - DCN SGE00621	This development document presents the findings of an extensive study of the Oil and Gas Extraction Industry for the purpose of developing effluent limitations guidelines, for existing point sources and standards of performance for new sources.	USEPA	9/1/1976	FALSE	FALSE	SGE00621
1.5	EPA-HQ-OW-2014-0598-0105	3rd Shale Play Water Management Marcellus and Utica Conference Materials DCN SGE00637	A memo containing a table of presentations on Mississippi Lime Produced Water.	ERG	7/18/2013	FALSE	FALSE	SGE00637
1.5	EPA-HQ-OW-2014-0598-0760	Examining All Associated Costs With Storing Water In Tanks Vs. Pits to Determine Which Is The Cheaper And Safer Storage Option DCN SGE00638.A03	A presentation discussing water storage options.	Kostelecky, Joe	10/30/2013	FALSE	FALSE	SGE00638.A03
1.5	EPA-HQ-	Storage: Pits Vs. Tanks	A presentation discussing	Mason,	10/30/2013	FALSE	FALSE	SGE00638.A04

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	OW-2014-0598-0760	DCN SGE00638.A04	water storage options.	Scott				
1.5	EPA-HQ-OW-2014-0598-0760	Produced Water Challenge and an Integrated Planning Solution DCN SGE00638.A05	A presentation discussing planning needs and costs for handling produced water.	Murphy, Tom	10/30/2013	FALSE	FALSE	SGE00638.A05
1.5	EPA-HQ-OW-2014-0598-0760	Slickwater vs. Crosslink Gels: Identifying Which Frac Fluid Works Better with Produced Water (Recycling Case Study) DCN SGE00638.A07	A presentation comparing two water recycling techniques.	Patton, Mark	10/29/2013	FALSE	FALSE	SGE00638.A07
1.5	EPA-HQ-OW-2014-0598-0760	An Integrated Framework for Treatment and Management of Produced Water - DCN SGE00638.A10	A presentation describing a decision support tool for flowback and produced water.	Tzahi, Cath	10/29/2013	TRUE	FALSE	SGE00638.A10
1.5	EPA-HQ-OW-2014-0598-0132	Development and Use of High-TDS Recycled Produced Water for Crosslinked-Gel-Based Hydraulic Fracturing - DCN SGE00667	This paper describes use of treated produced water as the base fluid for crosslinked-gel-based hydraulic fracturing.	Lord, LeBas	2/4/2013	TRUE	FALSE	SGE00667
1.5	EPA-HQ-OW-2014-0598-0150	Produced Water Recycling Oasis flourishes in Wyoming - DCN SGE00685	This article describes a water reclamation facility recycling produced water in Wyoming.	Global Water Intelligence	2/1/2011	TRUE	FALSE	SGE00685
1.5	EPA-HQ-OW-2014-0598-0157	Gas Shales Database - DCN SGE00694	This is a publically available database of shale wells located in Oklahoma.	Oklahoma Geological Survey	1/1/2014	TRUE	FALSE	SGE00694

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.5	EPA-HQ-OW-2014-0598-0177	Produced and Flowback Water Recycling and Reuse: Economics, Limitations, and Technology DCN SGE00734	Article about UOG wastewater recycling and reuse throughout the U.S.	Boschee, Pam	2/1/2014	FALSE	FALSE	SGE00734
1.5	EPA-HQ-OW-2014-0598-0178	Recommended Best Management Practices for Marcellus Shale Gas Development in Maryland - DCN SGE00735	Report about best management practices for shale gas development in Maryland, including discussion of the use of POTWs as a disposal method.	Eshelman, Keith; Elmore, Andrew	2/18/2013	FALSE	FALSE	SGE00735
1.5	EPA-HQ-OW-2014-0598-0198	Hydraulic Fracturing & Water Stress: Water Demand by the Numbers DCN SGE00760	A report on hydraulic fracturing fluid volumes by region in respect to water stress.	Freyman, Monika	2/1/2014	TRUE	FALSE	SGE00760
1.5	EPA-HQ-OW-2014-0598-0200	Oil and Gas Reporting – Electronic (OGRE) Public Reporting Data Dictionary, v1.0 DCN SGE00763	Data dictionary for PA DEP waste reports and oil and gas production reports	Pennsylvania Department of Environmental Protection (PA DEP)	1/15/2014	TRUE	FALSE	SGE00763
1.5	EPA-HQ-OW-2014-0598-0706	2014 Water Management for Shale Plays West Presentations DCN SGE00768	2014 Water Management for Shale Plays West Presentations	ERG	7/18/2014	FALSE	FALSE	SGE00768
1.5	EPA-HQ-OW-2014-	E&P Infrastructure vs. Third-Party Services	E&P Infrastructure vs. Third-Party Services	Robart, Alexander	5/30/2014	TRUE	TRUE	SGE00768.A01

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0706	Regional Economic & Environmental Factors DCN SGE00768.A01	Regional Economic & Environmental Factors					
1.5	EPA-HQ-OW-2014-0598-0706	Removing Boron and Benzene from Produced Water DCN SGE00768.A02	Removing Boron and Benzene from Produced Water	Goltz, Bob	5/30/2014	FALSE	FALSE	SGE00768.A02
1.5	EPA-HQ-OW-2014-0598-0706	Analyzing AB32 And California's Environmental Quality Act (CEQA) To Realize Requirements and Navigate Between Regulatory Demands for Cyclic Steam Injection Project DCN SGE00768.A03	Analyzing AB32 And California's Environmental Quality Act (CEQA) To Realize Requirements and Navigate Between Regulatory Demands for Cyclic Steam Injection Project	Poole, Bob	5/30/2014	FALSE	FALSE	SGE00768.A03
1.5	EPA-HQ-OW-2014-0598-0706	Examining The Successful Implementation Of An Innovative Partnership With a Producer And County Government to Deliver Treated Residential Water For Re-Use In Stream Generation DCN SGE00768.A04	Examining The Successful Implementation Of An Innovative Partnership With a Producer And County Government to Deliver Treated Residential Water For Re-Use In Stream Generation	Poole, Bob	5/30/2014	FALSE	FALSE	SGE00768.A04
1.5	EPA-HQ-OW-2014-0598-0706	Basic Stormwater Management: Leveraging Innovation DCN SGE00768.A05	Basic Stormwater Management: Leveraging Innovation	Giles, Brent		TRUE	FALSE	SGE00768.A05
1.5	EPA-HQ-OW-2014-	Air Pollution Emissions at	Air Pollution Emissions at Flowback/Produced	Ritts, Dean	1/1/2014	FALSE	FALSE	SGE00768.A06

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0706	Flowback/Produced Wastewater Treatment Plants DCN SGE00768.A06	Wastewater Treatment Plants					
1.5	EPA-HQ-OW-2014-0598-0706	Seismicity Concerns for Underground Injection DCN SGE00768.A07	Seismicity Concerns for Underground Injection	Onyskiw, Denise	5/30/2014	FALSE	FALSE	SGE00768.A07
1.5	EPA-HQ-OW-2014-0598-0706	Water Management Strategies in the Niobrara Shale & Piceance Basins DCN SGE00768.A08	Water Management Strategies in the Niobrara Shale & Piceance Basins	Wolfe, Dick	5/28/2014	FALSE	FALSE	SGE00768.A08
1.5	EPA-HQ-OW-2014-0598-0706	Water Disposal – An Assessment of Disposal Wells and Facilities DCN SGE00768.A09	Water Disposal – An Assessment of Disposal Wells and Facilities	Peterson, Eric	5/30/2014	FALSE	TRUE	SGE00768.A09
1.5	EPA-HQ-OW-2014-0598-0706	Relationship between the Shale Oil & Gas Industry and High Quality Water Cycle DCN SGE00768.A10	Relationship between the Shale Oil & Gas Industry and High Quality Water Cycle	Nochowicz, Georgi		TRUE	FALSE	SGE00768.A10
1.5	EPA-HQ-OW-2014-0598-0706	SB 4 Interim Well Stimulation Treatment Regulations Text of Proposed Regulations DCN SGE00768.A11	Chapter 4 Development, Regulation, and Conservation of Oil and Gas Resources	Harris, John; Williams, Paul		FALSE	FALSE	SGE00768.A11
1.5	EPA-HQ-OW-2014-0598-0706	Water Management for California Shale Plays California Legal and Regulatory Issues DCN SGE00768.A12	Water Management for California Shale Plays California Legal and Regulatory Issues	Harris, John; Williams, Paul	5/28/2014	FALSE	FALSE	SGE00768.A12

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.5	EPA-HQ-OW-2014-0598-0706	North Dakota Regulatory Update DCN SGE00768.A13	North Dakota Regulatory Update	Wirtz, Jaret	5/28/2014	FALSE	FALSE	SGE00768.A13
1.5	EPA-HQ-OW-2014-0598-0706	Uinta Water Management DCN SGE00768.A14	Uinta Water Management Strategies	Johnson, Tommy; Harry, David	5/28/2014	FALSE	FALSE	SGE00768.A14
1.5	EPA-HQ-OW-2014-0598-0706	C7 Produced Water Recycling Pipeline DCN SGE00768.A15	C7 Produced Water Recycling Pipeline	Davidson, Keith	5/30/2014	FALSE	FALSE	SGE00768.A15
1.5	EPA-HQ-OW-2014-0598-0706	Zero Liquid Discharge Capability, Experience, and Overview DCN SGE00768.A16	Zero Liquid Discharge Capability, Experience, and Overview	Sampson, Dan		FALSE	FALSE	SGE00768.A16
1.5	EPA-HQ-OW-2014-0598-0706	Water Management in the Bakken DCN SGE00768.A17	Water Management in the Bakken	Royse, Ken		FALSE	FALSE	SGE00768.A17
1.5	EPA-HQ-OW-2014-0598-0706	Produced Water from Oil and Gas Development in Colorado DCN SGE00768.A18	Produced Water from Oil and Gas Development in Colorado	Rein, Kevin	5/28/2014	FALSE	FALSE	SGE00768.A18
1.5	EPA-HQ-OW-2014-0598-0706	Sustainable Water Treatment, Recycling & Disposal Practices in Shale Basins DCN SGE00768.A19	Sustainable Water Treatment, Recycling & Disposal Practices in Shale Basins	Bruff, Matthew	5/30/2014	FALSE	TRUE	SGE00768.A19
1.5	EPA-HQ-OW-2014-0598-0706	Storing Water On-Site to Maximize Environmental and Economic Efficiencies DCN SGE00768.A20	Storing Water On-Site to Maximize Environmental and Economic Efficiencies	Zaugg, Nathan	5/1/2014	FALSE	FALSE	SGE00768.A20
1.5	EPA-HQ-OW-2014-	Identifying Viable Water Sourcing	Identifying Viable Water Sourcing Alternatives	Nichols, Ken;	5/30/2014	TRUE	FALSE	SGE00768.A21

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0706	Alternatives Beyond Freshwater DCN SGE00768.A21	Beyond Freshwater	Atkinson, Lindsay				
1.5	EPA-HQ-OW-2014-0598-0706	Concerning Petitions to the State Engineer to Make Determinations of Nontributary Ground Water in the Case of Applications for Well Permits to be Issued Pursuant to Section 37-90-137(4) C.R.S DCN SGE00768.A22	Concerning Petitions to the State Engineer to Make Determinations of Nontributary Ground Water in the Case of Applications for Well Permits to be Issued Pursuant to Section 37-90-137(4) C.R.S	Wolfe, Dick	7/23/2010	FALSE	FALSE	SGE00768.A22
1.5	EPA-HQ-OW-2014-0598-0706	Water Sources and Demand for the Hydraulic Fracturing of Oil and Gas Wells in Colorado from 2010 through 2015 DCN SGE00768.A23	Water Sources and Demand for the Hydraulic Fracturing of Oil and Gas Wells in Colorado from 2010 through 2015	Wolfe, Dick		FALSE	FALSE	SGE00768.A23
1.5	EPA-HQ-OW-2014-0598-0706	Sovereign Authority of Decision Making for Water Resources Management... Who Has It? DCN SGE00768.A24	Sovereign Authority of Decision Making for Water Resources Management... Who Has It?	Smith, Robert	5/29/2014	TRUE	FALSE	SGE00768.A24
1.5	EPA-HQ-OW-2014-0598-0706	Water Management Infrastructure Investments: Decision Factors and Regional Economics DCN SGE00768.A25	Water Management Infrastructure Investments: Decision Factors and Regional Economics	Fletcher, Sarah	5/30/2014	TRUE	FALSE	SGE00768.A25
1.5	EPA-HQ-	Evaluating	Evaluating Characteristics	Tucker,	5/29/2014	FALSE	FALSE	SGE00768.A26

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	OW-2014-0598-0706	Characteristics of Source, Flowback, & Produced Water for Effective Water Treatment DCN SGE00768.A26	of Source, Flowback, & Produced Water for Effective Water Treatment	Scott				
1.5	EPA-HQ-OW-2014-0598-0706	Overview of PEA Authorities for Water Associated with Oil and Gas Extraction DCN SGE00768.A27	Overview of PEA Authorities for Water Associated with Oil and Gas Extraction	Wilson, Scott	5/30/2014	FALSE	FALSE	SGE00768.A27
1.5	EPA-HQ-OW-2014-0598-0706	Treating Produced Water to Generate Beneficial Reuse Byproducts DCN SGE00768.A28	Treating Produced Water to Generate Beneficial Reuse Byproducts	Hughes, Stephen	5/29/2014	FALSE	FALSE	SGE00768.A28
1.5	EPA-HQ-OW-2014-0598-0652	Oil and Gas Outlook in Indian Country DCN SGE00771	Report about oil and gas development on tribal lands, including a map of emerging oil and gas shale plays, shale basins, and Indian reservations.	Bureau of Indian Affairs		FALSE	FALSE	SGE00771
1.5	EPA-HQ-OW-2014-0598-0211	2014 A&WMA Oil and Gas Environmental Compliance Conference Presentations DCN SGE00779	Memo with 2014 A&WMA Oil & Gas Env. Compliance conference notes, 5/13-14.	ERG	7/9/2014	FALSE	FALSE	SGE00779
1.5	EPA-HQ-OW-2014-0598-0211	Copyright Information DCN SGE00779.A01	Air & Waste Management Association Copyright Publication Policy	A&WMA	5/3/2014	FALSE	FALSE	SGE00779.A01
1.5	EPA-HQ-OW-2014-	Air Permitting for Oil & Gas Facilities in	A&WMA Oil & Gas Environmental Compliance	Hopkins, Michael		TRUE	FALSE	SGE00779.A02

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0211	Ohio DCN SGE00779.A02	Conference Session 1A					
1.5	EPA-HQ-OW-2014-0598-0211	West Virginia's Air Quality General Permit for Oil and Natural Gas Production Facilities (G70-A) DCN SGE00779.A03	West Virginia's Air Quality General Permit for Oil and Natural Gas Production Facilities (G70-A)	Jennings, Laura	5/13/2014	TRUE	FALSE	SGE00779.A03
1.5	EPA-HQ-OW-2014-0598-0211	Air Quality Permitting of Natural Gas Drilling, Compression and Processing Facilities in Pennsylvania DCN SGE00779.A04	Air Quality Permitting of Natural Gas Drilling, Compression and Processing Facilities in Pennsylvania	PA DEP	5/13/2014	TRUE	FALSE	SGE00779.A04
1.5	EPA-HQ-OW-2014-0598-0211	Update on ORSANCO Water Quality Programs DCN SGE00779.A05	Update on ORSANCO Water Quality Programs	Bosquez, Ted	5/13/2014	TRUE	FALSE	SGE00779.A05
1.5	EPA-HQ-OW-2014-0598-0211	Secondary Containment: Regulations & BMPs DCN SGE00779.A06	Secondary Containment: Regulations & BMPs	Powell, Beth		TRUE	FALSE	SGE00779.A06
1.5	EPA-HQ-OW-2014-0598-0211	Pennsylvania Act 13 Issues & Concerns DCN SGE00779.A07	Pennsylvania Act 13 Issues & Concerns	Slagel, Gary		TRUE	FALSE	SGE00779.A07
1.5	EPA-HQ-OW-2014-0598-0211	Oil & Gas Exploration and Production Waste Regulations in Ohio DCN SGE00779.A09	Oil & Gas Exploration and Production Waste Regulations in Ohio	Maher, Thomas	5/13/2014	TRUE	FALSE	SGE00779.A09
1.5	EPA-HQ-OW-2014-0598-0211	Management of Oil and Gas Waste in Pennsylvania DCN SGE00779.A10	Management of Oil and Gas Waste in Pennsylvania	Socash, Stephen		TRUE	FALSE	SGE00779.A10

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.5	EPA-HQ-OW-2014-0598-0211	Evaluating Well Pad Permitting in the Appalachian Basin DCN SGE00779.A11	Evaluating Well Pad Permitting in the Appalachian Basin	Muscenti, Tom	5/13/2014	TRUE	FALSE	SGE00779.A11
1.5	EPA-HQ-OW-2014-0598-0211	GP 12.1/12.2 Air Permitting of Oil and Gas Well Site Production Operations in Ohio DCN SGE00779.A12	GP 12.1/12.2 Air Permitting of Oil and Gas Well Site Production Operations in Ohio	Schmelzle, John	5/13/2014	TRUE	FALSE	SGE00779.A12
1.5	EPA-HQ-OW-2014-0598-0211	NSPS Subpart OOOO Lessons Learned... and a Look Ahead DCN SGE00779.A13	NSPS Subpart OOOO Lessons Learned... and a Look Ahead	Woerner, Andy	5/13/2014	TRUE	FALSE	SGE00779.A13
1.5	EPA-HQ-OW-2014-0598-0211	Site Planning, Design & Restoration to Support Desired Land Use DCN SGE00779.A14	Site Planning, Design & Restoration to Support Desired Land Use	Daley, Jim	5/13/2014	TRUE	FALSE	SGE00779.A14
1.5	EPA-HQ-OW-2014-0598-0211	Erosion and Sediment Control for natural gas pipeline projects DCN SGE00779.A15	Erosion and Sediment Control for natural gas pipeline projects	Parker, Lauren	5/13/2014	TRUE	FALSE	SGE00779.A15
1.5	EPA-HQ-OW-2014-0598-0211	Successful Wetland Permitting for Oil and Gas Pipelines DCN SGE00779.A16	The State of the Law and a Primer of Proper Wetland Permit Application Preparation	Rinde, Jonathan		TRUE	FALSE	SGE00779.A16
1.5	EPA-HQ-OW-2014-0598-0211	Decreasing Costs of Waste Stream Analysis by Implementing a Testing Reduction Program and Utilizing Generator Knowledge DCN SGE00779.A17	Decreasing Costs of Waste Stream Analysis by Implementing a Testing Reduction Program and Utilizing Generator Knowledge	Allison, Megan	5/13/2014	TRUE	FALSE	SGE00779.A17

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.5	EPA-HQ-OW-2014-0598-0211	Act 2 and the PA DEP Spill Policy DCN SGE00779.A18	Act 2 and the PA DEP Spill Policy	Costa, Brenda		TRUE	FALSE	SGE00779.A18
1.5	EPA-HQ-OW-2014-0598-0211	Drilling Mud Evaluation DCN SGE00779.A19	Drilling Mud Evaluation	Silverman, Thomas	5/13/2014	TRUE	FALSE	SGE00779.A19
1.5	EPA-HQ-OW-2014-0598-0211	Aggregation of Air Emissions - What Does Adjacency Really Mean DCN SGE00779.A20	Aggregation of Air Emissions - What Does Adjacency Really Mean	Hennessey, Yvonne	5/14/2004	TRUE	FALSE	SGE00779.A20
1.5	EPA-HQ-OW-2014-0598-0211	Why Methane Matters DCN SGE00779.A21	Why Methane Matters	Hunt, Gary	5/13/2014	TRUE	FALSE	SGE00779.A21
1.5	EPA-HQ-OW-2014-0598-0211	OSHA and EPA Regulation of Release Prevention Programs for Oil and Gas Operations: A Primer and Update DCN SGE00779.A22	OSHA and EPA Regulation of Release Prevention Programs for Oil and Gas Operations: A Primer and Update	Kantorczyk , Todd	5/14/2014	TRUE	FALSE	SGE00779.A22
1.5	EPA-HQ-OW-2014-0598-0211	Air Permit Issues for Oil and Gas Operations: Unresolved EPA Rules and Recent Court Cases Affecting Air Permits DCN SGE00779.A23	Air Permit Issues for Oil and Gas Operations: Unresolved EPA Rules and Recent Court Cases Affecting Air Permits	Poffenberger, Clara	5/14/2014	TRUE	FALSE	SGE00779.A23
1.5	EPA-HQ-OW-2014-0598-0211	Disposal - Oil and Gas Environmental Compliance Conference DCN SGE00779.A24	Disposal - Oil and Gas Environmental Compliance Conference	Mastowski, Ryan	5/13/2014	TRUE	FALSE	SGE00779.A24

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.5	EPA-HQ-OW-2014-0598-0211	Water Treatment - Oil and Gas Environmental Compliance Conference DCN SGE00779.A25	Water Treatment - Oil and Gas Environmental Compliance Conference	Mastowski, Ryan	5/13/2014	TRUE	FALSE	SGE00779.A25
1.5	EPA-HQ-OW-2014-0598-0211	Managed Aquifer recharge Using Treated Coal Seam Gas Water DCN SGE00779.A26	Managed Aquifer recharge Using Treated Coal Seam Gas Water	Silverman, Thomas		TRUE	FALSE	SGE00779.A26
1.5	EPA-HQ-OW-2014-0598-0211	Risk Assessment of Aquifer Connectivity Associated with Well and Bore Integrity DCN SGE00779.A27	Risk Assessment of Aquifer Connectivity Associated with Well and Bore Integrity	Silverman, Thomas		TRUE	FALSE	SGE00779.A27
1.5	EPA-HQ-OW-2014-0598-0211	PBT Assessment of Hydraulic Fracturing Fluids from Coal Seam Gas Fields in Australia DCN SGE00779.A28	PBT Assessment of Hydraulic Fracturing Fluids from Coal Seam Gas Fields in Australia	EHS Support LLC		TRUE	FALSE	SGE00779.A28
1.5	EPA-HQ-OW-2014-0598-0211	Pennsylvania's Oil & Gas and Residual Waste Programs: Negotiating the Maze DCN SGE00779.A29	Pennsylvania's Oil & Gas and Residual Waste Programs: Negotiating the Maze	Meloy, Michael	5/14/2014	TRUE	FALSE	SGE00779.A29
1.5	EPA-HQ-OW-2014-0598-0211	The More Things Change. . . Assessing Social Risks in Industry Swing Periods DCN SGE00779.A30 The world's leading sustainability consultancy Assessing Social Risks	The More Things Change. . . Assessing Social Risks in Industry Swing Periods	Render, Jo	5/13/2014	TRUE	FALSE	SGE00779.A30

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		in Industry Swing Periods						
1.5	EPA-HQ-OW-2014-0598-0211	The Phase 0 Approach Best Practices – Building Blocks and Roadmap for an EMIS Strategy DCN SGE00779.A31	The Phase 0 Approach Best Practices – Building Blocks and Roadmap for an EMIS Strategy	Wilson, Brad	5/13/2014	TRUE	FALSE	SGE00779.A31
1.5	EPA-HQ-OW-2014-0598-0211	NSPS OOOO & Fracking Air Quality Rule Updates DCN SGE00779.A32	NSPS OOOO & Fracking Air Quality Rule Updates	Keatley, Robert	5/13/2014	TRUE	FALSE	SGE00779.A32
1.5	EPA-HQ-OW-2014-0598-0211	Inspecting Natural Gas Compressor Stations in Pennsylvania DCN SGE00779.A33	Inspecting Natural Gas Compressor Stations in Pennsylvania	Kuntz, Timothy	5/13/2014	TRUE	FALSE	SGE00779.A33
1.5	EPA-HQ-OW-2014-0598-0211	Hydraulic Fracturing (Fracking): Litigation Trends DCN SGE00779.A34	Hydraulic Fracturing (Fracking): Litigation Trends	McCall, Duke		TRUE	FALSE	SGE00779.A34
1.5	EPA-HQ-OW-2014-0598-0211	Perspectives on Enforcement & Compliance DCN SGE00779.A35	Perspectives on Enforcement & Compliance	Smith, Stephen	5/14/2014	TRUE	FALSE	SGE00779.A35
1.5	EPA-HQ-OW-2014-0598-0211	EPA's Energy Extraction National Enforcement Initiative DCN SGE00779.A36	EPA's Energy Extraction National Enforcement Initiative	Stewart, Andrew	5/14/2014	TRUE	FALSE	SGE00779.A36
1.5	EPA-HQ-OW-2014-0598-0211	Emerging Trends in Shale Energy Development DCN SGE00779.A37 Energy Development	Emerging Trends in Shale Energy Development	Yoxth-eimer, Dave	5/14/2014	TRUE	FALSE	SGE00779.A37

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.5	EPA-HQ-OW-2014-0598-0211	Oil and Gas Environmental Compliance Conference Welcome and Introduction DCN SGE00779.A38	Oil and Gas Environmental Compliance Conference Welcome and Introduction	Blinn, Leah	5/13/2014	TRUE	FALSE	SGE00779.A38
1.5	EPA-HQ-OW-2014-0598-0211	Management of TENORM Practical Assessment DCN SGE00779.A39	Management of TENORM Practical Assessment	Bosquez, Ted	5/13/2014	TRUE	FALSE	SGE00779.A39
1.5	EPA-HQ-OW-2014-0598-0214	Uranium DCN SGE00782	EPA webpage on Uranium, including properties, exposure, and health effects.	USEPA	10/1/2012	FALSE	FALSE	SGE00782
1.5	EPA-HQ-OW-2014-0598-0215	Thorium DCN SGE00783	EPA webpage on Thorium, including properties, exposure, and health effects.	USEPA	2/28/2014	FALSE	FALSE	SGE00783
1.5	EPA-HQ-OW-2014-0598-0217	Draft: Supplemental Generic Environmental Impact Statement (SGEIS) on the Oil, Gas, and Solution Mining Regulatory Program DCN SGE00788	A preliminary draft report discussing an EIS on oil, gas, and solution mining. Focuses on "Well Permit Issuance for Horizontal Drilling And High-Volume Hydraulic Fracturing to Develop the Marcellus Shale and Other Low-Permeability Gas Reservoirs".	NYSDEC	9/1/2009	FALSE	FALSE	SGE00788
1.5	EPA-HQ-OW-2014-0598-0635	Shale Revolution Revisits the Energized Fracture DCN SGE00799	Article on "energized" fracturing of horizontal wells using CO2 and N2 in place of slick water. Includes information on the technology, water issues, impact on average	Jacobs, Trent	6/30/2014	FALSE	FALSE	SGE00799

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
			completion costs, production benefits, and its use in Canada and the U.S.					
1.5	EPA-HQ-OW-2014-0598-0219	Occurrence and Consequences of Increased Bromide in Drinking Water Sources - DCN SGE00800	Elevated levels of brominated disinfectant by-products (DBPs) have been reported recently by some drinking water utilities.	McTigue, Nancy; Graf, Katherine; Brown, Richard	11/1/2014	FALSE	FALSE	SGE00800
1.5	EPA-HQ-OW-2014-0598-0686	Drilling Waste Management Information System - DCN SGE00801	The objective of applying drilling wastes to the land is to allow the soil's naturally occurring microbial population to metabolize, transform, and assimilate waste constituents in place.	Argonne National Laboratory	11/18/2011	FALSE	FALSE	SGE00801
1.5	EPA-HQ-OW-2014-0598-0020	America's New Energy Future: The Unconventional Oil and Gas Revolution and the US Economy. Volume 1: National Economic Contributions DCN SGE00864	This report offers an introduction to the unconventional oil and gas industry and its effect on the U.S. economy.	IHS, Inc	1/1/2012	FALSE	FALSE	SGE00864
1.5	EPA-HQ-OW-2014-0598-0323	Johnstown Redevelopment Authority (PA0026034) - Final Fact Sheet 2012 DCN SGE00930	Johnstown Redevelopment Authority Final Fact Sheet 2012	Lattner, Raymond E.	12/14/2011	FALSE	FALSE	SGE00930
1.5	EPA-HQ-OW-2014-0598-0353	Geochemical and Strontium Isotope Characterization of	Article on an investigation to determine using Sr isotopes to identify and	Campbell, E., et al	1/1/2012	TRUE	FALSE	SGE00948

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Produced Waters from Marcellus Shale Natural Gas Extraction DCN SGE00948	quantify the interaction of Marcellus Formation produced waters with other Appalachian Basin waters in the event of an accidental release.					
1.5	EPA-HQ-OW-2014-0598-0362	Northern Great Plains Water Consortium (NGPWC): Bakken Water Opportunities Assessment. North Dakota Petroleum Council Annual Meeting. (September) DCN SGE00950	Northern Great Plains Water Consortium Bakken water opportunities assessment presentation. Looked at potential to recycle frac flowback water in Bakken play. Includes discussion of Bakken water opportunities, project status, and information on flowback.	Harju, John	1/1/2009	FALSE	FALSE	SGE00950
1.5	EPA-HQ-OW-2014-0598-0365	Baseline Groundwater Quality Testing Needs in the Eagle Ford Shale Region April 2012 DCN SGE00954	Masters project discussing whether existing baseline groundwater quality data in the Eagle Ford shale region of southern Texas is adequate to provide a comparison to potential future contamination from oil and gas development.	Palacios, Virginia	4/1/2012	FALSE	FALSE	SGE00954
1.5	EPA-HQ-OW-2014-0598-0370	Advanced Well Stimulation Technologies in California: AN Independent Review of Scientific and Technical Information DCN SGE00966	California council on Science and Technology's independent review of advanced well stimulation technologies in California. Report includes information on advanced well stimulation technologies, historic and current	California Council on Science and Tech	8/28/2014	FALSE	FALSE	SGE00966

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
			applications, and prospective applications.					
1.5	EPA-HQ-OW-2014-0598-0614	Contractor Selected for Cleanup of Filter Socks in Noonan DCN SGE00968	News release on contractor selected for cleanup of filter socks in Noonan.	Glatt, Dave; Tillotson, Steve	4/8/2014	FALSE	FALSE	SGE00968
1.5	EPA-HQ-OW-2014-0598-0615	Bismarck Tribune Second dump site reported in Divide County DCN SGE00970	Article about second dump site reported in Divide County.	Donovan, Lauren	4/24/2014	FALSE	FALSE	SGE00970
1.5	EPA-HQ-OW-2014-0598-0616	Radiation Glossary 2013 DCN SGE00973	Web page on radiation glossary A-C	USEPA	3/27/2013	FALSE	FALSE	SGE00973
1.5	EPA-HQ-OW-2014-0598-0617	Development of Rapid Radiochemical Method for Gross Alpha and Gross Beta Activity Concentration in Flowback and Produced Waters from Hydraulic Fracturing Operations DCN SGE00974	Report: Development of Rapid Radiochemical Method for Gross Alpha and Gross Beta Activity Concentration in Flowback and Produced Waters from Hydraulic Fracturing Operations	USEPA	7/1/2014	FALSE	FALSE	SGE00974
1.5	EPA-HQ-OW-2014-0598-0618	Matrix Complications in the Determination of Radium Levels in Hydraulic Fracturing Flowback Water from Marcellus Shale DCN SGE00975 Hydraulic Fracturing Flowback Water from Marcellus Shale	One specific concern is the radioactivity content of associated "flowback" wastewater (FBW), which is enhanced with respect to naturally occurring radium (Ra) isotopes in horizontal drilling and hydraulic fracturing for natural gas mining.	Nelson, Andrew, et al	1/1/2014	TRUE	FALSE	SGE00975

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.5	EPA-HQ-OW-2014-0598-0619	Measuring Radiation DCN SGE00977	Web page discussing measuring radiation.	USNRC	6/28/2013	FALSE	FALSE	SGE00977
1.5	EPA-HQ-OW-2014-0598-0622	Trace Elements National Synthesis Project Radium Frequently Asked Questions DCN SGE00980	Web page presenting answers to radium frequently asked questions.	USGS	3/4/2014	FALSE	FALSE	SGE00980
1.5	EPA-HQ-OW-2014-0598-0728	EIA Glossary DCN SGE00984	Print out of the EIA Glossary of Terms for the letter "A"	EIA	2/10/2015	FALSE	FALSE	SGE00984
1.5	EPA-HQ-OW-2014-0598-0741	Commercial Recycling & Surface Disposal Facilities DCN SGE01005	Commercial Recycling & Surface Disposal Facilities permitted by the Railroad Commission of Texas.	Railroad Commission of Texas	7/22/2014	FALSE	FALSE	SGE01005
1.5	EPA-HQ-OW-2014-0598-0744	Title: Class II Disposal Well Inventory Update DCN SGE01012	Data extracted from EPA database on 7/29/14 on Class II disposal inventory in EPA direct implementation programs.	US EPA	7/29/2014	FALSE	FALSE	SGE01012
1.5	EPA-HQ-OW-2014-0598-0639	UIC Injection Volumes 2014 DCN SGE01014	Excel spreadsheet with UIC Injection Volumes 2014.	OKCC	10/29/2014	FALSE	FALSE	SGE01014
1.5	EPA-HQ-OW-2014-0598-0640	Well_Status DCN SGE01015	Table explaining options for understanding the status a well is in.	OKCC	1/1/2014	FALSE	FALSE	SGE01015
1.5	EPA-HQ-OW-2014-0598-0757	2014 Produced Water Reuse Initiative Conference Material Memo DCN SGE01017	Memo to record with conference materials for 2014 Produced Water Reuse Conference 10/29-30.	ERG	1/2/2014	FALSE	FALSE	SGE01017
1.5	EPA-HQ-OW-2014-	Regarding Managing Produced Water in the	EPA Region 8 presentation on the regulatory framework	Schmit, Ayn	10/29/2014	FALSE	FALSE	SGE01017.A01

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0757	Rockies DCN SGE01017.A01	for managing produced water in the Rockies to ensure utilization within Federal Guidelines.					
1.5	EPA-HQ-OW-2014-0598-0757	An Innovative Public-Private Partnership for Re-Use of Treated Residential Water In Steam Generation Project DCN SGE01017.A02	Santa Maria Energy presentation on a Public-Private Partnership for re-use of treated residential water. Details design and permitting of a joint project to delivery reclaimed water from a wastewater reclamation plant to a coal field and the benefits of t	Poole, Bob	10/30/2014	FALSE	FALSE	SGE01017.A02
1.5	EPA-HQ-OW-2014-0598-0757	Evaluating Strategies for Getting Flowback Water to the Quality Required for Reuse in Completions at the Volumes Needed to Make it Worthwhile DCN SGE01017.A03	Apache presentation evaluating strategies for treating flowback water to the quality required for re-use in completions. Includes information on upfront water treatment, results and costs, treatment observations, and mobile treatment options.	Smith, Daniel	10/29/2014	FALSE	FALSE	SGE01017.A03
1.5	EPA-HQ-OW-2014-0598-0757	Telling Our Story: Publicly Communicating Successful Water Management DCN SGE01017.A04	Encana presentation on publicly communicating water management issues for shale gas/fracking.	Hock, Doug	10/30/2014	FALSE	FALSE	SGE01017.A04
1.5	EPA-HQ-OW-2014-0598-0757	Reviewing Operators Strategies for Sourcing Large Volumes of Freshwater for	Anadarko Petroluem Corp. presentation on operator strategies for sourcing large volumes of freshwater for	Anglund, Erik	10/29/2014	FALSE	FALSE	SGE01017.A05

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Hydraulic Fracturing Operations in the Context of Competition from other Industries DCN SGE01017.A05	hydraulic fracturing operations when there is competition from other industries and water scarcity issues.					
1.5	EPA-HQ-OW-2014-0598-0757	Working Together to Minimize Impacts on Water Quality Colorado DCN SGE01017.A06	Colorado Department of Public Health and Environment, Water Quality Control Division presentation on minimizing the impacts of produced water on water quality in Colorado. Includes strategies for working together and how industry can help.	Duggan, Jogn	10/30/2014	FALSE	FALSE	SGE01017.A06
1.5	EPA-HQ-OW-2014-0598-0757	SPCC 101for Onshore Oil Production, Drilling and Workover Facilities DCN SGE01017.A07	EPA presentation providing an overview of the Spill Prevention, Control, and Countermeasure (SPCC) rule.	Payan, Melissa, and West, John	10/30/2014	FALSE	FALSE	SGE01017.A07
1.5	EPA-HQ-OW-2014-0598-0757	Produced Water Reuse Initiative 2014, Evaluating the Economics of Creating and Operating Your Own Disposal Well Vs. Using a Third Party to Determine the Most Cost-Effective Option DCN SGE01017.A08	Caerus Oil and Gas LLC presentation evaluating the economics of creating and operating your own disposal well for produced waters versus using a third party.	Rynearson, Michael A.	10/30/2014	FALSE	FALSE	SGE01017.A08

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.5	EPA-HQ-OW-2014-0598-0757	Technical Applications, Regulatory Framework and Political Dynamics of Oilfield Water Use and Reuse in California DCN SGE01017.A09	Santa Maria Energy presentation on technical applications, regulatory framework and political dynamics of oilfield water use and reuse in California. Includes comment water treatment, usage, and disposal practices in California oilfields.	Poole, Bob	10/29/2014	FALSE	FALSE	SGE01017.A09
1.5	EPA-HQ-OW-2014-0598-0757	Applying Cost-Effective Technology and Strategies for Reusing High TDS Water for Hydraulic Fracturing DCN SGE01017.A10	Colorado State Univ. presentation on cost effective technologies and strategies for reusing high TDS water for hydraulic fracturing.	Carlson, Ken	10/29/2014	FALSE	FALSE	SGE01017.A10
1.5	EPA-HQ-OW-2014-0598-0757	Using Real Time Water Quality Testing to Optimize Produced Water Recycling DCN SGE01017.A11	Hydrozonix presentation on using real time water quality testing to optimize produced water recycling, including the benefits, methods used, and examples of problems and solutions.	Patton, Mark	10/29/2014	FALSE	FALSE	SGE01017.A11
1.5	EPA-HQ-OW-2014-0598-0757	Presentation by Kieran Barrows of Laredo Petroleum DCN SGE01017.A12	Laredo Petroleum presentation exploring the design and operational similarities between historic water flooding, steam flooding, and offshore overboard produced water treatment. Includes case studies of recycle facilities and a discussion of Laredo's	Barrows, Kieran	10/30/2014	FALSE	FALSE	SGE01017.A12

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
			proc					
1.5	EPA-HQ-OW-2014-0598-0757	Designing an Overall Water Treatment Strategy That can Minimize the Cost of Recycling Produced Water for Reuse DCN SGE01017.A13	CAP Resources presentation on an overall water treatment strategy that can minimize the cost of recycling produced water for reuse.	Capper, Laura	10/29/2014	FALSE	FALSE	SGE01017.A13
1.5	EPA-HQ-OW-2014-0598-0757	Recycling Flowback and Produced Water for Use with Cross-linked Gel Fracs: Challenges and Solutions DCN SGE01017.A14	Noble Energy and Colorado State presentation on recycling of flowback and produced water in cross-linked shale fracs. Includes information on fluid alternatives, water system optimization, flowback and produced water quality, treatment challenges and case	Prior, Adam, and Carlson, Ken	10/29/2014	FALSE	FALSE	SGE01017.A14
1.5	EPA-HQ-OW-2014-0598-0757	Optimizing the Treatment of Produced Water and Flowback for Reuse or Disposal DCN SGE01017.A15	PureLine presentation on optimizing the treatment of produced water and flowback for reuse or disposal. Includes a discussion of the chemistry using their coagulation-flocculation-sedimentation process and results of bench-scale testing.	Wrenn, Brian	10/29/2014	FALSE	FALSE	SGE01017.A15
1.5	EPA-HQ-OW-2014-0598-0757	Produced Water Issues, Economics, and Trends: Developing Abundant, Affordable Clean Energy DCN	Domestic Energy Resources LLC presentation on produced water issues, economics, and trends. Includes discussion of the	Winner, Phillip	10/29/2014	FALSE	FALSE	SGE01017.A16

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		SGE01017.A16	need to address produced water, technologies in use, markets, and the economics.					
1.5	EPA-HQ-OW-2014-0598-0757	Water Management DCN SGE01017.A17	WPXEnergy presentation on hydraulic fracturing, their water management approach, technologies and optimization approaches, solids management, and their goals in recycling, reducing and improving their process/procedures.	Bittner, Tyler	10/30/2014	FALSE	FALSE	SGE01017.A17
1.5	EPA-HQ-OW-2014-0598-0757	Delivering a Colorado Update on Regulations Regarding Water Rights to Determine How They May Affect Operators Going Forward DCN SGE01017.A18	Colorado Department of Natural Resources presentation on the Colorado regulations regarding water rights and how they may affect shale gas operators moving forward.	Kosloff, Tracy	10/29/2014	FALSE	FALSE	SGE01017.A18
1.5	EPA-HQ-OW-2014-0598-0641	Radiological Dose And Risk Assessment of Landfill Disposal of Technologically Enhanced Naturally Occurring Radioactive Materials (TENORM) in North Dakota DCN SGE01018	Report on radiological dose and risk assessment of landfill disposal of technologically enhanced naturally occurring radioactive materials (TENORM) in North Dakota.	Harton, C; Smith, K.; Kamboj, S.; Quinn, J.	11/1/2014	FALSE	FALSE	SGE01018
1.5	EPA-HQ-OW-2014-0598-0642	Radiation Protection Health Effects DCN SGE01020	Web page on health effects, EPA's Radiation Protection Programs.	USEPA	8/7/2012	FALSE	FALSE	SGE01020
1.5	EPA-HQ-OW-2014-	B-43 Field - Well Completions DCN	List of well completions in the Fayetteville shale	AOGC	12/4/2014	FALSE	FALSE	SGE01021

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0649	SGE01021	formation.					
1.5	EPA-HQ-OW-2014-0598-0759	Distribution and Production of Oil and Gas Wells by State DCN SGE01022	Distribution of active oil and gas wells by state as of 2009.	EIA	1/7/2011	FALSE	FALSE	SGE01022
1.5	EPA-HQ-OW-2014-0598-0745	South Dakota Oil and Gas Development/Preparedness Executive Branch Work Groups: Summary of Findings DCN SGE01023	A report to governor of SD about oil and gas and fracturing	Office of Governor Dennis Gaugaard	9/1/2012	FALSE	FALSE	SGE01023
1.5	EPA-HQ-OW-2014-0598-0650	Haynesville Shale Wells DCN SGE01024	List of well completions in the Haynesville shale play in LA.	Louisiana Department of Natural Resources.	1/5/2014	FALSE	FALSE	SGE01024
1.5	EPA-HQ-OW-2014-0598-0708	Oil and Gas Produced Water Management and Beneficial Use in the Western United States DCN SGE01025	Science and Technology Program Report No. 157, Oil and Gas Produced Water Management and Beneficial Use in the Western United States.	US Dept of the Interior, BLM	9/1/2011	FALSE	FALSE	SGE01025
1.5	EPA-HQ-OW-2014-0598-0746	HPDI Data Coverage DCN SGE01027	Data on HPDI data coverage.	DI Desktop	1/6/2012	FALSE	FALSE	SGE01027
1.5	EPA-HQ-OW-2014-0598-0648	Overview of Exploration and Production Waste Volumes and Waste Management Practices in the United States DCN SGE01029	Report presenting an overview of exploration and production waste volumes and waste management practices in the U.S.	ICF Consulting	5/1/2000	FALSE	FALSE	SGE01029
1.5	EPA-HQ-	Oilfield Glossary DCN	Screen shot of the Oilfield	Schlum-	1/27/2015	FALSE	FALSE	SGE01030

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	OW-2014-0598-0390	SGE01030	Glossary web page.	berger				
1.5	EPA-HQ-OW-2014-0598-0401	WHO Seminar Pack for Drinking-Water Quality DCN SGE01043	Seminar materials on disinfectants and disinfection by-products. Includes information on the importance of disinfection for safe drinking water, key disinfectants and their properties, key by-products formed and their health risks.	World Health Organization		FALSE	FALSE	SGE01043
1.5	EPA-HQ-OW-2014-0598-0718	5th Annual Shale Play Water Mgmt 2014 – Southern States Conf Materials DCN SGE01046	5th Annual Shale Play Water Management 2014 – Southern States panel discussions.	ERG	11/19/2014	FALSE	FALSE	SGE01046
1.5	EPA-HQ-OW-2014-0598-0718	Expectation Management for Water Use in Oil and Gas DCN SGE01046.A01	Conference Proceedings, 2014 Shale Play Water Management Congress, explaining how a leading operator has proactively executed an overall water management program to maximize efficiency and comply with regulations.	Lindsey, Stephen	11/19/2014	FALSE	FALSE	SGE01046.A01
1.5	EPA-HQ-OW-2014-0598-0718	Determining the Minimum Treatment Levels Required for Production Efficiency: Stating the Lowest Acceptable Water Quality Levels for Effective Reuse in	Conference Proceedings, 2014 Shale Play Water Management Congress, discussing finding the balance between over-treating and effective reuse in completions and determining the target	Smith, Daniel	11/19/2014	FALSE	FALSE	SGE01046.A02

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Fracs DCN SGE01046.A02	specification of water quality needed to achieve optimal completion results.					
1.5	EPA-HQ-OW-2014-0598-0718	Reuse is Not a 4-Letter Word! DCN SGE01046.A03	Conference Proceedings, 2014 Shale Play Water Management Congress, evaluating the latest treatment technologies on cost, volume capacity and water quality achieved to identify cost-effective methods of recycling.	Mitchell, Robert	11/19/2014	TRUE	FALSE	SGE01046.A03
1.5	EPA-HQ-OW-2014-0598-0718	Designing an Overall Water Treatment Strategy That Can Minimize the Cost of Recycling Produced Water for Reuse DCN SGE01046.A04	Conference Proceedings, 2014 Shale Play Water Management Congress, discussing the design of an overall water treatment strategy that that can minimize the cost of recycling produced water for reuse.	Capper, Laura	11/19/2014	FALSE	FALSE	SGE01046.A04
1.5	EPA-HQ-OW-2014-0598-0718	Optimizing the Treatment of Produced Water and Flowback for Reuse or Disposal DCN SGE01046.A05	Conference Proceedings, 2014 Shale Play Water Management Congress, discussing how to optimize the treatment of produced water and flowback for reuse or disposal.	Wrenn, Brian	11/19/2014	FALSE	FALSE	SGE01046.A05
1.5	EPA-HQ-OW-2014-0598-0718	Identifying Best Practices for Decreasing Bacteria to Acceptable Levels for Reuse in Hydraulic Fracturing DCN	Conference Proceedings, 2014 Shale Play Water Management Congress, identifying the best practices for decreasing bacteria to acceptable levels	Hydro-zonix	11/19/2014	FALSE	FALSE	SGE01046.A06

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		SGE01046.A06	for reuse in hydraulic fracturing.					
1.5	EPA-HQ-OW-2014-0598-0718	Use of High-Voltage Plasma Discharges for the Treatment of Frac/Produced Water DCN SGE01046.A07	Conference proceedings, Shale Play Water Management 2014, discussing what is plasma; how to generate plasma in produced water; the goals of plasma treatment; spark discharge for produced water treatment; validation tests; and the cost of plasma treatment.	Cho, Young	11/19/2014	FALSE	FALSE	SGE01046.A07
1.5	EPA-HQ-OW-2014-0598-0718	How to Execute Successful Frac Water Remediation Within Shale Gas Water Management DCN SGE01046.A08	Conference proceedings, Shale Play Water Management 2014, discussing frac pit components, frac pit treatment methodologies (including a bioremediation case study at Southern OK Recycle Facility), and bioremediation benefits.	FlexChem	11/19/2014	FALSE	FALSE	SGE01046.A08
1.5	EPA-HQ-OW-2014-0598-0718	How to Optimally Locate and Design Frac Pits DCN SGE01046.A09	Conference proceedings, Shale Play Water Management 2014, discussing optimizing the location of frac pits/siting well pad; evaluating permanent vs. temporary frac pit options; selecting materials for pit lines; and location of frac pits on pad.	Foster, Veronica	11/19/2014	FALSE	FALSE	SGE01046.A09
1.5	EPA-HQ-	Detailing the Very	Conference proceedings,	Sims, P.E.,	11/19/2014	FALSE	FALSE	SGE01046.A10

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	OW-2014-0598-0718	Latest Regulations on the Construction of Open Pits for Produced Water Storage to Enable Effective Planning – Texas Regulations DCN SGE01046.A10	Shale Play Water Management 2014, discussing the Commission’s rule on water protection (Rule 8); big picture of the rule; authorized vs. permitted pits and below grade vs. above grade; non-commercial fluid recycle pit; and monitoring.	Michael				
1.5	EPA-HQ-OW-2014-0598-0718	Latest Regulations on Produced Water Storage DCN SGE01046.A11	Conference proceedings, Shale Play Water Management 2014, providing an update on the latest regulations on produced water storage in Oklahoma.	Baker, Tim; Mike Moore	11/19/2014	FALSE	FALSE	SGE01046.A11
1.5	EPA-HQ-OW-2014-0598-0718	New Water Storage and Pipeline Infrastructure Requirements to Assess Opportunities for Less Costly Containment DCN SGE01046.A12	Conference proceedings, Shale Play Water Management 2014, providing an update on the new water storage and pipeline infrastructure requirements to assess opportunities for less costly containment in Arkansas.	Bengal, Lawrence	11/19/2014	FALSE	FALSE	SGE01046.A12
1.5	EPA-HQ-OW-2014-0598-0718	Water Storage and Pipeline Infrastructure in Louisiana DCN SGE01046.A13	Conference proceedings, Shale Play Water Management 2014, providing an update on water pipeline infrastructure in Louisiana.	Louisiana Department of Natural Resources	11/19/2014	FALSE	FALSE	SGE01046.A13
1.5	EPA-HQ-OW-2014-	Mapping Available Water Resources in	Conference proceedings, Shale Play Water	Chamberlain, Alan	11/19/2014	FALSE	FALSE	SGE01046.A14

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0718	Nevada DCN SGE01046.A14	Management 2014, discussing issues with water resource management in Nevada.					
1.5	EPA-HQ-OW-2014-0598-0718	Identifying Suitable Water Sources to Maintain Water Supply for Hydraulic Fracturing During Drought Periods: Oklahoma Case Study DCN SGE01046.A15	Conference proceedings, Shale Play Water Management 2014, discussing water appropriation law in Oklahoma; identification of available water using OK comprehensive water plan – regional reports; and water mapping and drought tools.	Wilkins, Kent	11/20/2014	FALSE	FALSE	SGE01046.A15
1.5	EPA-HQ-OW-2014-0598-0718	Updates on Water Sourcing Regulations: A Texas Prospective DCN SGE01046.A16	Conference proceedings, Shale Play Water Management 2014, discussing updates on water sourcing regulations in Texas.	Sims, P.E., Michael	11/19/2014	FALSE	FALSE	SGE01046.A16
1.5	EPA-HQ-OW-2014-0598-0718	Updates on Water Sourcing Regulations: Oklahoma DCN SGE01046.A17	A presentation on updates to water sourcing regulations in Oklahoma.	OWRB		FALSE	FALSE	SGE01046.A17
1.5	EPA-HQ-OW-2014-0598-0718	Regulatory Updates on Water Sourcing to Save Time and Costs During Permitting and Effectively Plan for Evolving Restrictions DCN SGE01046.A18	Conference proceedings, Shale Play Water Management 2014, providing an update on the specifications of the latest water disposal regulations to understand what steps operators will need to take to cost-effectively comply in Arkansas.	Bengal, Lawrence	11/19/2014	FALSE	FALSE	SGE01046.A18

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.5	EPA-HQ-OW-2014-0598-0718	Water Sourcing in Louisiana DCN SGE01046.A19	Conference proceedings, Shale Play Water Management 2014, providing an update on the specifications of the latest water disposal regulations to understand what steps operators will need to take to cost-effectively comply in Louisiana.	Louisiana Department of Natural Resources	11/19/2014	FALSE	FALSE	SGE01046.A19
1.5	EPA-HQ-OW-2014-0598-0718	Evaluating the Results from the Latest Induced Seismicity Reports to Examine the Level of Seismicity Associated with Deep Water Disposal Wells: Arkansas – A Case Study DCN SGE01046.A20	Conference proceedings, Shale Play Water Management 2014, discussing the results from the latest induced seismicity reports to examine the level of seismicity associated with deep water disposal wells in Arkansas.	Ausbrooks, Scott; Steve Horton	11/19/2014	FALSE	FALSE	SGE01046.A20
1.5	EPA-HQ-OW-2014-0598-0718	Update on the Specifications of the Latest Water Disposal Regulations to Understand Steps to Take to Cost-Effectively Comply: A Texas Perspective DCN SGE01046.A21	Conference proceedings, Shale Play Water Management 2014, providing an update on the specifications of the latest water disposal regulations to understand what steps operators will need to take to cost-effectively comply in Texas.	Sims, P.E., Michael	11/19/2014	FALSE	FALSE	SGE01046.A21
1.5	EPA-HQ-OW-2014-0598-0718	Underground Injection Control Program UIC: 165:10-5-1 through 165:10-5-15 DCN	Conference proceedings, Shale Play Water Management 2014, providing an update on the	OK CC	11/19/2014	FALSE	FALSE	SGE01046.A22

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		SGE01046.A22	specifications of the latest water disposal regulations to understand what steps operators will need to take to cost-effectively comply in Oklahoma.					
1.5	EPA-HQ-OW-2014-0598-0718	Regulatory Updates on Water Disposal and Discharge to Budget for Future Projects and Ensure Compliance DCN SGE01046.A23	Conference proceedings, Shale Play Water Management 2014, discussing regulatory updates on water disposal and discharge to budget for future projects and ensure compliance in Arkansas.	Bengal, Lawrence	11/19/2014	FALSE	FALSE	SGE01046.A23
1.5	EPA-HQ-OW-2014-0598-0718	Water Disposal and Discharge in Louisiana DCN SGE01046.A24	Conference proceedings, Shale Play Water Management 2014, discussing regulatory updates on water disposal and discharge in water impoundments and pits in Louisiana.	Louisiana Department of Natural Resources	11/19/2014	FALSE	FALSE	SGE01046.A24
1.5	EPA-HQ-OW-2014-0598-0718	Best Practices for Negotiating with Landowners to Acquire More Local Water Supplies and Lower Transportation Costs DCN SGE01046.A25	Conference proceedings, Shale Play Water Management 2014, discussing basic concepts of negotiation as they apply to the oil and gas industry and the unique negotiation environments created as a result of oil and gas operations.	Oggero, George	11/20/2014	FALSE	FALSE	SGE01046.A25
1.5	EPA-HQ-OW-2014-	Reviewing an Online Water Sharing	Conference proceedings, Shale Play Water	Adler, Joshua	11/19/2014	FALSE	TRUE	SGE01046.A26

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0718	Exchange Between Operators for Overcoming Water Sourcing and Disposal Challenges, Maximizing Recycling, Enhancing Water Supply Chain Resilience and Minimizing Cost DCN SGE01046.A26	Management 2014, discussing ways for operators to overcome water sourcing and disposal challenges, maximize recycle, enhance water supply chain resilience, and minimize cost.					
1.5	EPA-HQ-OW-2014-0598-0718	Another Great Basis Water Resource Solution: Drill and Strike Oil DCN SGE01046.A27	Conference proceedings, Shale Play Water Management 2014, discussing Nevada drilling.	Cedar Strat	11/19/2014	FALSE	FALSE	SGE01046.A27
1.5	EPA-HQ-OW-2014-0598-0689	Opportunities, Challenges, and Research Needs for Beneficial Use of CBM Produced Water DCN SGE01051	Presentation on the current practices and challenges of managing CBM produced water. Includes discussion of its potential utilization and an integrated framework for the treatment of management of it.	Drewes, Jorg E	1/1/2009	FALSE	FALSE	SGE01051
1.5	EPA-HQ-OW-2014-0598-0470	Underground Injection Control Program Webinar Notes DCN SGE01052	Notes from Penn State Cooperative Extension Shale Webinar Series, January 22, 2015	ERG	3/26/2015	FALSE	FALSE	SGE01052
1.5	EPA-HQ-OW-2014-0598-0470	Underground Injection Control Program Webinar Slides DCN SGE01052.A01	Shale Webinar Series presentation on EPA's Underground Injection Control (UIC) Program. Includes an overview of the UIC program, UIC program	Johnson, Karen	1/22/2015	FALSE	FALSE	SGE01052.A01

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
			implementation in PA, and information on current oil and gas wells in PA.					
1.5	EPA-HQ-OW-2014-0598-0472	Unconventional Gas (Fracking) DCN SGE01054	Atg UV Technology web page on UV disinfection for unconventional gas recovery (fracking).	Atg UV Technology	2/3/2015	FALSE	FALSE	SGE01054
1.5	EPA-HQ-OW-2014-0598-0473	Water Recycling's New Reality DCN SGE01056	Halliburton article on recycling flowback and produced water in the Bakken well field.	Geiver, Luke	12/13/2013	FALSE	FALSE	SGE01056
1.5	EPA-HQ-OW-2014-0598-0480	International Water Conference 2014 DCN SGE01067	Memo with notes on presentations from the 2014 International Water Conference, 11/17-18.	ERG	2/9/2015	FALSE	FALSE	SGE01067
1.5	EPA-HQ-OW-2014-0598-0481	IWC Webinars 2014 DCN SGE01068	Memo with webinar materials, 2014 IWC webinar, 4/21	ERG	2/18/2015	FALSE	FALSE	SGE01068
1.5	EPA-HQ-OW-2014-0598-0481	Best of IWC Webinar: Frac Water DCN SGE01068.A01	Conference Proceedings from IWC 2013 discussing drilling fluid composition, example treatment data, well drilling fluid treatment drill cuttings treatment, drilling mud treatment, drilling wastewater treatment, and example treatment facility.	Huffmyer, Russell; John Van-Gehuchten; James Silva	1/1/2013	FALSE	FALSE	SGE01068.A01
1.5	EPA-HQ-OW-2014-0598-0481	Pretreatment Targets for Salt Recovery from Marcellus Shale Gas Produced Water DCN SGE01068.A02	Conference Proceedings from IWC 2013 discussing determining pretreatment target and extent of crystal treatment needed to reduce Ba and Ra levels in PA	Silva, James; Rachel Gettings; William Kostedt;	1/1/2013	FALSE	FALSE	SGE01068.A02

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
			Marcellus produced water using Aspen Plus/OLI crystallizer model.	Vicki Watkins				
1.5	EPA-HQ-OW-2014-0598-0481	Recovering Valuable Byproducts from Oil and Gas Wastes DCN SGE0168.A03	Conference Proceedings from IWC 2013 discussing recovery of valuable mud and wastewater components during treatment and disposal of oil and gas wells for sale and reuse.	Huffmyer; John Van Gehuchten	1/1/2013	FALSE	FALSE	SGE01068.A03
1.5	EPA-HQ-OW-2014-0598-0481	Prepared Discussion of: Recovering Valuable Byproducts from Oil and Gas Wastes DCN SGE0168.A04	Discussion of questions raised in the report "Recovering Valuable Byproducts from Oil and Gas Wastes: (see DCN SGE01068.A03).	Schubert, P.E., John	1/1/2013	FALSE	FALSE	SGE01068.A04
1.5	EPA-HQ-OW-2014-0598-0481	Pretreatment Targets for Salt Recovery from Marcellus Shale Gas Produced Water DCN SGE0168.A05	Discussion of methodology for defining pretreatment targets for Ba and Ra and showing that water and salt recovery from Marcellus produced water is economically attractive.	Silva, James; Rachel Gettings; William Kostedt; Vicki Watkins	1/1/2013	FALSE	FALSE	SGE01068.A05
1.5	EPA-HQ-OW-2014-0598-0481	Prepared Discussion of: Pretreatment Targets for Salt Recovery from Marcellus Shale Gas Produced Water DCN SGE0168.A06	Discussion of questions raised in the report "Pretreatment Targets for Salt Recovery from Marcellus Shale Gas Produced Water (see SGE01068.A02).	Penland, Jerry L.	1/1/2013	FALSE	FALSE	SGE01068.A06
1.5	EPA-HQ-OW-2014-0598-0762	WEFTEC 2014 Notes DCN SGE01069	Memo with conference notes from select sessions at 2014 WEFTEC Conference,	ERG	1/1/2015	FALSE	FALSE	SGE01069

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
			9/27-10/1					
1.5	EPA-HQ-OW-2014-0598-0762	Water Reuse in Upstream Oil and Gas DCN SGE0169.A01	Conference Proceedings at weftec 2014; Workshop 16 discussion on what is produced water and what are the issued for produced water.	Pankratz, Tom	9/28/2014	FALSE	FALSE	SGE01069.A01
1.5	EPA-HQ-OW-2014-0598-0762	Regulatory Issues Facing Water Management in the Oil and Gas Industry – A Case Study on Texas DCN SGE0169.A02	Conference Proceedings WEFTEC providing general comments on the new RRC recycling rules (permit by rule; multi-lease, multi-operator; no conflict with other agencies; common sense rules).	Halldorson, Brent; John Tintera	9/28/2014	FALSE	FALSE	SGE01069.A02
1.5	EPA-HQ-OW-2014-0598-0762	Treatment Strategy of Flowback and Produced Water from Unconventional Gas Production DCN SGE0169.A03	Conference Proceedings discussions on introduction; flowback and produced water; life cycle balances in a gas field; quality requirement for recycle and disposal; primary treatment; secondary treatment; tertiary treatment; and zero liquid discharge treatment.	Sun, Paul T.	3/1/2014	FALSE	FALSE	SGE01069.A03
1.5	EPA-HQ-OW-2014-0598-0762	Financial Considerations for Produced Water Management DCN SGE0169.A04	Conference Proceedings at WEFTEC 2014; Workshop 16 discussion on what are the financial considerations for produced water management.	Lucey, Jr., John T.	9/28/2014	FALSE	FALSE	SGE01069.A04
1.5	EPA-HQ-OW-2014-0598-0762	Conventional Alternatives for Treatment of Produced	Conference Proceedings at WEFTEC 2014; Workshop 16 discussion on treatment	Zaugg, Nathan	9/27/2014	FALSE	FALSE	SGE01069.A05

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		and Flowback Water in Oil Field Operations DCN SGE0169.A05	technologies (gun barrel tank, oil water separator, hydrocyclone, dissolved air flotation, walnut shell filter, conventional clarifier, electrocoagulation, and plate clarifier					
1.5	EPA-HQ-OW-2014-0598-0762	Treatment Technologies Part 2: Selection of Tertiary Treatments DCN SGE1069.A06	Conference Proceedings at WEFTEC 2014; Workshop 16 discussion on tertiary treatment technologies (filtration for suspended solids removal, ultrafiltration, resins for selective ion removal, membranes for desalination).	Johnson, Aaron M.	9/28/2014	FALSE	FALSE	SGE01069.A06
1.5	EPA-HQ-OW-2014-0598-0762	Oilfield Water Management: Assessing & Selecting the Optimal Water Management Solution DCN SGE0169.A07	Conference Proceedings at WEFTEC 2014; Workshop 16 discussion assessing and selecting the optimal water management solution.	Halldorson, Brent	9/28/2014	FALSE	FALSE	SGE01069.A07
1.5	EPA-HQ-OW-2014-0598-0762	Water Reuse and Integrated Infrastructure Development DCN SGE1069.A08	Conference Proceedings at WEFTEC 2014; Workshop 16 presentation on case studies in water reuse and integrated infrastructure development – Eagle Ford and DJ Basins.	Klempel, Dustin	9/28/2014	FALSE	FALSE	SGE01069.A08
1.5	EPA-HQ-OW-2014-0598-0762	Industrial Wastewater Treatment: Forward Osmosis Concentration achieving ZLD with	Conference Proceedings at WEFTEC 2014; technical session on forward osmosis membrane separation	Lampi, Keith	10/1/2014	FALSE	FALSE	SGE01069.A09

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Thermal Crystallization DCN SGE1069.A09	processes.					
1.5	EPA-HQ-OW-2014-0598-0762	Is Forward Osmosis Right for You DCN SGE1069.A10	Conference Proceedings at WEFTEC 2014; worksheet for determining if forward osmosis is the right technology for users.	Lampi, Keith	10/1/2014	FALSE	FALSE	SGE01069.A10
1.5	EPA-HQ-OW-2014-0598-0762	Case Study: Produced Water, Marcellus Shale DCN SGE1069.A11	Description of a comprehensive 4-month test by Oasys Water of the Membrane Brine Concentrator (MBCTM) System in the Marcellus Shale that successfully treated 60,000 gallons of high salinity produced water.	Oasys Water	1/1/2014	FALSE	FALSE	SGE01069.A11
1.5	EPA-HQ-OW-2014-0598-0762	Case Study: Produced Water, West Texas DCN SGE1069.A12	Description of Oasys Water's operation of the Membrane Brine Concentrator (MBCTM) System to treat high salinity produced water from the Permian Basin in Midland, Texas.	Oasys Water	1/1/2014	FALSE	FALSE	SGE01069.A12
1.5	EPA-HQ-OW-2014-0598-0711	Underground Injection Control Program Webinar Notes (Jan 2015) DCN SGE01070	Notes from the Webinar presentation of Karen Johnson for the Pennsylvania State University Extension Webinar Series on January 22, 2015	ERG	3/26/2015	FALSE	FALSE	SGE01070
1.5	EPA-HQ-	Underground Injection	Slides from the Webinar	Johnson,	1/22/2015	FALSE	FALSE	SGE01070.A01

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	OW-2014-0598-0711	Control Program Webinar Slides (Jan 2015) DCN SGE01070.A01	presentation of Karen Johnson for the Pennsylvania State University Extension Webinar Series on January 22, 2015.	Karen				
1.5	EPA-HQ-OW-2014-0598-0482	2 nd Emerging Shale Plays (2013) DCN SGE01071	ERG memorandum listing presentations from the 2 nd Energy Shale Plays Conference 2013.	ERG	2/5/2015	FALSE	FALSE	SGE01071
1.5	EPA-HQ-OW-2014-0598-0483	AICHe Webinar – Reuse and HF (12-4-2013) DCN SGE01072	Notes from AICHe/ISWS webinar on “Water Reuse Challenges and Hydraulic Fracturing”, 12/4/13	ERG	1/1/2015	FALSE	FALSE	SGE01072
1.5	EPA-HQ-OW-2014-0598-0484	2011 International Water Conference Notes DCN SGE01073	Notes from IWC Conference, 11/17/11	ERG	1/1/2015	FALSE	FALSE	SGE01073
1.5	EPA-HQ-OW-2014-0598-0484	Cabot Gas Well Treated with 100% Reused Frac Fluid DCN SGE01073.A01	Description of a fracture-stimulated Cabot two-stage 6,950-ft vertical well using a fracturing fluid consisting of 100% frac-fluid flowback.	Papso, John; Matt Blauch; Dave Grotten-thaler	1/1/2010	FALSE	FALSE	SGE01073.A01
1.5	EPA-HQ-OW-2014-0598-0484	Water Issues and Challenges Associated with Shale Gas Production DCN SGE01073.A02	Conference Proceedings from 2011 International Water Conference discussing an intro to produced water; water needs and production for different types of hydrocarbon; steps in shale gas production; well completion and hydraulic fracturing; and wastewater management.	Veil, John	11/13/2011	FALSE	FALSE	SGE01073.A02

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.5	EPA-HQ-OW-2014-0598-0484	NORM Removal from Hydrofracturing Water DCN SGE01073.A03	Conference Proceedings describing a study to screen a variety of adsorbents and ion exchange resins for their effectiveness in radium removal from certain frac waters.	Silva, James; Hope Matis; William Kostedt IV; Vicki Watkins	1/1/2011	FALSE	FALSE	SGE01073.A03
1.5	EPA-HQ-OW-2014-0598-0484	Discussion of: NORM Removal from Hydrofracturing Water DCN SGE01073.A04	Discussion following up on the paper "NORM Removal from Hydrofracturing Water" (see SGE01073.A03) discussing the problems associated with using RSC resin as the preferred pretreatment method for radium removal.	Penland, Jerry L.	1/1/2011	FALSE	FALSE	SGE01073.A04
1.5	EPA-HQ-OW-2014-0598-0484	Evaluation of Brackish Groundwater Treatment for Use in Hydraulic Fracturing of the Bakken Play, North Dakota DCN SGE01073.A05	Conference Proceedings describing a pilot-scale, reverse osmosis (RO) treatment project to evaluate the feasibility of brackish groundwater treatment as a freshwater source for hydraulically fracturing the Bakken oil play of North Dakota.	Kurz, Bethany; Daniel Stepan; John Harju; Brad Stevens; Robert Cowan	1/1/2011	FALSE	FALSE	SGE01073.A05
1.5	EPA-HQ-OW-2014-0598-0484	Prepared Discussion of: Evaluation of Brackish Groundwater Treatment for Use in Hydraulic Fracturing of the Bakken Play, North Dakota DCN	Discussion of questions on the report "Evaluation of Brackish Groundwater Treatment for Use in Hydraulic Fracturing of the Bakken Play, North Dakota" (see SGE01073.A05).	Schubert, P.E., John	1/1/2011	FALSE	FALSE	SGE01073.A06

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		SGE01073.A06						
1.5	EPA-HQ-OW-2014-0598-0484	The Real Cost of ZLD for Shale Gas Frac Water in the Marcellus Shale Play DCN SGE01073.A07	Conference Proceedings describing of the true costs of a complete zero liquid discharge (ZLD) solution for the Marcellus Shale frac water by focusing on the chemistry of frac water the physics required to transport, treat, evaporate, and crystallize.	Shaw, P.E., William A.	1/1/2011	FALSE	FALSE	SGE01073.A07
1.5	EPA-HQ-OW-2014-0598-0484	Marcellus Shale Post-frac Flowback Waters – Where is All the Salt Coming from and What are the Implications? DCN SGE01073.A08	Abstract of a paper presented at the 2009 SPE Eastern Regional Meeting discussing the geochemical and lithologic laboratory and field data to address the question of the concentration of dissolved salts in produced waters after hydraulic stimulation.	Blauch, M.E.; R.R. Myers; T.R. Moore; B.A. Lipinski; N.A. Houston	9/23/2009	FALSE	FALSE	SGE01073.A08
1.5	EPA-HQ-OW-2014-0598-0484	Fracture-Stimulation in the Marcellus Shale- Lessons Learned in Fluid Selection and Execution DCN SGE01073.A09	Abstract of a paper presented at the 2009 SPE Eastern Regional Meeting providing a look-back review of lessons learned from early exploration to the full-scale development phase of the Marcellus shale in Pennsylvania.	Houston, Nathan; Matt Blauch; Dalton Weather, III	9/23/2009	FALSE	FALSE	SGE01073.A09
1.5	EPA-HQ-OW-2014-0598-0484	Water and Wastewater Treatment for Natural Gas Well Development DCN SGE01073.A10	Presentation discussing how dealing with water issues of unconventional natural gas drilling is complex; each	Schubert, John; Joe Swearman	1/1/2011	FALSE	FALSE	SGE01073.A10

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
			shale play is different and may require different solution, critical elements are to accurately define problems and evaluation alternatives.					
1.5	EPA-HQ-OW-2014-0598-0549	WEFTEC 2012 Notes – DCN SGE01075	Memo with materials from 2012 WEFTEC Conference, 9/29-10/3.	ERG	1/1/2015	FALSE	FALSE	SGE01075
1.5	EPA-HQ-OW-2014-0598-0549	Contemporary Technologies for Shale-Gas Water and Environmental Management DCN SGE01075.A01	Summary of a set of back-to-back invited symposium sessions focusing on shale-gas environmental technologies and related considerations.	Water Environment Federation	1/1/2012	TRUE	FALSE	SGE01075.A01
1.5	EPA-HQ-OW-2014-0598-0549	Management of Soluble Organics in Produced and Flowback Waters with Swellable, Absorbent Glass DCN SGE01075.A02	Osorb®, an absorbent, nano-engineered glass, is being commercialized to remove soluble organics.	Edmiston, Paul; Justin Keener; Shawn McKee; Scott Buckwald; Gregory Hallahan; Michael Grossman	1/1/2012	TRUE	FALSE	SGE01075.A02
1.5	EPA-HQ-OW-2014-0598-0549	Liner Considerations At Unconventional Drilling Site Impoundments DCN SGE01075.A03	Conference Proceedings, WEFTEC 2012, discussing the liner considerations at unconventional drilling site impoundments.	Foster, P.E., Veronica	1/1/2012	TRUE	FALSE	SGE01075.A03
1.5	EPA-HQ-OW-2014-0598-0549	The Public Health Implications of Unconventional	Conference Proceedings, WEFTEC 2012, discussing the multiple pathways	Goldstein, Bernard D.; Jill Kriesky	1/1/2012	TRUE	FALSE	SGE01075.A04

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Natural Gas Drilling DCN SGE01075.A04	through which human health may be affected by shale gas drilling and reviewing the existing research literature on health impacts they pose.					
1.5	EPA-HQ-OW-2014-0598-0549	Hydraulic Fracturing in the Context of Sustainable Water Management DCN SGE01075.A05	Conference Proceedings, WEFTEC 2012, discussing the authors' efforts to develop a holistic picture of water resources sustainability and the alternative methods to achieve this sustainability; this concept is applied in this paper to hydraulic fracturing.	Smith, Ethan T.; Harry X. Zhang	1/1/2012	TRUE	FALSE	SGE01075.A05
1.5	EPA-HQ-OW-2014-0598-0549	Overview of Shale Gas Water Issues DCN SGE01075.A06	Conference Proceedings, WEFTEC 2012, describing, for shale gas processing, the water needs for making up the frac fluids for each well and how the necessary volume compares with other existing water uses in those regions and the steps in the shale gas pro	Veil, John A.	1/1/2012	TRUE	FALSE	SGE01075.A06
1.5	EPA-HQ-OW-2014-0598-0487	A Two-Interface Transport Model with Pore-Size Distribution for Predicting the Performance of Direct Contact Membrane Distillation (DCMD)	Article discussing the fundamental aspects of heat and mass transfer of direct contact membrane distillation.	Kim, Albert S.	11/6/2012	FALSE	FALSE	SGE01083

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		DCN SGE01083						
1.5	EPA-HQ-OW-2014-0598-0488	Desalination and Reuse of High-Salinity Shale Gas Produced Water: Drivers, Technologies, and Future Directions DCN SGE01084	Article reviewing the current state of practice for produced water management across the United States and discussing the interrelated regulatory, infrastructure, and economic drivers for produced water reuse.	Shaffer, D.L., et al.	7/25/2013	TRUE	FALSE	SGE01084
1.5	EPA-HQ-OW-2014-0598-0492	Class II Underground Injection Control Well Data for 2010–2013 by Geologic Zones of Completion, Oklahoma DCN SGE01089	Class II underground injection control well data for 2010–2013 by geologic zones of completion, Oklahoma.	Murray, Kyle	1/1/2014	FALSE	FALSE	SGE01089
1.5	EPA-HQ-OW-2014-0598-0494	Minimizing and Managing Potential Impacts of Injection Induced Seismicity from Class II Disposal Wells: Practical Approaches DCN SGE01091	Memo on distribution of final work product form the national UIC Technical Workgroup.	US EPA	2/1/2015	FALSE	FALSE	SGE01091
1.5	EPA-HQ-OW-2014-0598-0495	Fairmont Brine Processing Company Website DCN SGE01092	Company fact sheet on brine processing to recycle all flowback and produced fluids form the energy extract process.	Fairmont Brine Processing	1/1/2012	TRUE	FALSE	SGE01092
1.5	EPA-HQ-OW-2014-0598-0558	Brine Disposal Reservoirs in the Appalachian Basin: Injection Performance and Geological	Presentation describing a project undertaken to understand the geology and operational history for Class 2 brine disposal in the	Sminchak, Joel; Miller, John; Gupta,	2/9/2015	FALSE	FALSE	SGE01110

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Properties DCN SGE01110	Appalachian Basin to support safe, reliable, and environmentally responsible brine disposal in the region.	Neeraj				
1.5	EPA-HQ-OW-2014-0598-0559	Engineering firm ventures into wastewater, LNG DCN SGE01111	An article describing plans to construct a wastewater treatment facility between shale production sites	Litvak, Anya	12/2/2014	FALSE	FALSE	SGE01111
1.5	EPA-HQ-OW-2014-0598-0657	Water Management Overview, Chlorine Dioxide, Detail Case History – DCN SGE01121	Presented to Independent Oil and Gas Association, West Virginia. Available online at http://www.iogawv.com/resources/Docs/Baker%20Hughes%20Water%20Management%20IOGA%202013.pdf	McCutchan, Morgan	1/1/2013	FALSE	FALSE	SGE01121
1.6	EPA-HQ-OW-2014-0598-0470	Notes on Conference Call with 212 Resources – DCN SGE00244	Notes taken on a conference call between EPA, 212 Resources, and Eastern Research Group, Inc. The discussion includes details on 212 Resources evaporation technology.	Camp, Meghan; Bicknell, Betsy; Ruminski, Brent	1/9/2012	FALSE	FALSE	SGE00244
1.6	EPA-HQ-OW-2014-0598-0450	Notes on Conference Call with Reserved Environmental Services, LLC – DCN SGE00245	Notes taken on conference call between EPA, Reserved Environmental Services, LLC, and Eastern Research Group, Inc. The discussion included a description of Reserve's 100% recycling CWT plant for SGE operators.	Camp, Meghan; Bicknell, Betsy; Ruminski, Brent	2/1/2012	FALSE	FALSE	SGE00245
1.6	EPA-HQ-OW-2014-	Meeting with XTO Energy, Inc. about	Sanitized summary of a meeting EPA held with	USEPA	9/24/2012	FALSE	FALSE	SGE00276

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0659	Unconventional Oil and Gas Sanitized – DCN SGE00276	XTO in at EPA headquarters to discuss their operations in shale gas plays and other unconventional plays.					
1.6	EPA-HQ-OW-2014-0598-0536	Conference Call with North Star Disposal, Inc Regarding Underground Injection Operations in Ohio – DCN SGE00279	Summary of a meeting EPA held with North Star to discuss their underground injection operations where they dispose of shale gas wastewater.	USEPA	7/2/2012	FALSE	FALSE	SGE00279
1.6	EPA-HQ-OW-2014-0598-0538	Notes on Conference Call with BLX, Inc on 15 May 2012 DCN SGE00283	Summary of a meeting EPA held with BLX to discuss their shale gas operations in southwestern PA.	Camp, Meghan; Ruminski, Brent	6/11/2012	FALSE	FALSE	SGE00283
1.6	EPA-HQ-OW-2014-0598-0547	Talisman Meeting Notes DCN SGE00287	Notes on the meeting between EPA and Talisman Energy_CBI.	USEPA	1/1/2012	FALSE	TRUE	SGE00287
1.6	EPA-HQ-OW-2014-0598-0660	CBI_Meeting with XTO Energy, Inc. about Unconventional Oil and Gas DCN SGE00289.D1	CBI_Summary of a meeting EPA held with XTO in at EPA headquarters to discuss their operations in shale gas plays and other unconventional plays.	USEPA	7/18/2012	FALSE	TRUE	SGE00289
1.6	EPA-HQ-OW-2014-0598-0589	Notes for Shale Gas Industry Meeting Held on 29 February 2012 – DCN SGE00521	Notes on a technical meeting with EPA and members of the oil and gas industry which discussed economic and engineering topics for the Shale Gas Extraction rulemaking.	ERG	4/20/2012	FALSE	FALSE	SGE00521
1.6	EPA-HQ-OW-2014-0598-0047	Meeting Minutes from Mon River Recreation and Commerce	Minutes from the Mon River Recreation & Commerce Committee	Mon River Recreation and	12/12/2008	FALSE	FALSE	SGE00552

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Committee Meeting on Dec. 12, 2008 – DCN SGE00552	Meeting discussing Mon river water quality and possible state actions and planning for coping with effects of expanded drilling in the Marcellus shale.	Commerce Committee				
1.6	EPA-HQ-OW-2014-0598-0755	Conference Call with Quicksilver Resources, Inc. About Shale Gas Operations Sanitized DCN SGE00607	Notes from a conference call between US EPA, ERG, and Quicksilver Resources, Inc. about shale gas operations	USEPA	1/1/2012	FALSE	FALSE	SGE00607
1.6	EPA-HQ-OW-2014-0598-0090	Meeting with Industry Representatives about the Unconventional Oil and Gas Effluent Guideline Rulemaking – DCN SGE00613	Notes from a meeting with industry representatives about the unconventional oil and gas effluent guideline rulemaking.	USEPA	2/28/2013	FALSE	FALSE	SGE00613
1.6	EPA-HQ-OW-2014-0598-0151	Proceedings of the Technical Workshops for the Hydraulic Fracturing Study: Water Resources Management – DCN SGE00686	Proceedings of the Technical Workshops for the Hydraulic Fracturing Study: Water Resources Management	USEPA	5/1/2011	FALSE	FALSE	SGE00686
1.6	EPA-HQ-OW-2014-0598-0158	Conference Call with ConocoPhillips about shale gas operations DCN SGE00695	Notes on a meeting between EPA and ConocoPhillips to discuss their shale gas operations.	USEPA	11/5/2012	FALSE	FALSE	SGE00695
1.6	EPA-HQ-OW-2014-0598-0625	Meeting with IPAA about the Unconventional Oil and Gas Effluent Guideline Rulemaking DCN SGE00696	Meeting with IPAA about the Unconventional Oil and Gas Effluent Guideline Rulemaking.	USEPA	2/10/2013	FALSE	FALSE	SGE00696

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
1.6	EPA-HQ-OW-2014-0598-0626	Notes on Meeting with Lamnpipe Inc. on 8 February 2012 DCN SGE00699	This memorandum summarizes a call between EPA and Lamnpipe, Inc. on 8 February 2012.	ERG	3/7/2012	FALSE	FALSE	SGE00699
1.6	EPA-HQ-OW-2014-0598-0159	Notes on Meeting with Hydrozonix, LLC on 7 February 2014 – DCN SGE00705	A summary of a telephone conference between ERG and Hydrozonix about their advanced oxidation treatment technology.	ERG	3/7/2014	FALSE	FALSE	SGE00705
1.6	EPA-HQ-OW-2014-0598-0166	Meeting with Purestream Technology about Treatment Technologies Relevant to the Unconventional Oil and Gas Industry DCN SGE00717	Meeting summary for the November 8, 2013 meeting between EPA, ERG, and IPAA about treatment technologies relevant to the unconventional O&G industry.	USEPA	11/8/2013	FALSE	FALSE	SGE00717
1.6	EPA-HQ-OW-2014-0598-0705	Meeting with John Crane about Treatment Technologies DCN SGE00718	Notes from John Crane treatment technology call 2/11/14.	USEPA	2/24/2014	FALSE	FALSE	SGE00718
1.6	EPA-HQ-OW-2014-0598-0180	States Pretreatment Coordinators' Quarterly Conference Call DCN SGE00742	Notes from state pretreatment coordinator calls that UOG EPA client participates on.	USEPA	8/8/2012	FALSE	FALSE	SGE00742
1.6	EPA-HQ-OW-2014-0598-0181	States Pretreatment Coordinators' Bi-Monthly Conference Call DCN SGE00743	Notes from state pretreatment coordinator calls that UOG EPA client participates on.	USEPA	8/14/2013	FALSE	FALSE	SGE00743
1.6	EPA-HQ-OW-2014-0598-0199	Summary of EPA-State Pilot on Improving Regulatory Implementation DCN SGE00762	A memorandum summarizing a meeting from EPA's Technology Innovation Project Meeting with ECOS/ACWA, with	Biddle, Lisa	3/27/2015	FALSE	FALSE	SGE00762

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
			attendees from AK, OK, WY, CO, AL, WV, OH, and PA.					
1.6	EPA-HQ-OW-2014-0598-0673	Summary of EPA Outreach and Coordination with Indian Tribes for the Proposed Pretreatment Standards for Unconventional Oil and Gas Extraction Wastewater DCN SGE00785	Memorandum summarizing the EPA outreach and research activities associated tribal considerations for the proposed rulemaking	ERG	1/1/2015	FALSE	FALSE	SGE00785
1.6	EPA-HQ-OW-2014-0598-0218	Unconventional Drilling/Hydraulic Fracturing and Natural Radioactivity Webinar Notes DCN SGE00793	Notes from an EPA webinar about radiochemistry, specifically in the context of the UOG industry.	ERG	7/3/2014	FALSE	FALSE	SGE00793
1.6	EPA-HQ-OW-2014-0598-0218	Radiochemistry Webinars Environmental/Bioassay Radiochemistry Series Unconventional Drilling/Hydraulic Fracturing and Natural Radioactivity DCN SGE00793.A01	Presentation from Radiochemistry Webinars Environmental/Bioassay Radiochemistry Series: Unconventional Drilling/Hydraulic Fracturing and Natural Radioactivity.	Schultz, Michael; Nelson, Andrew		FALSE	FALSE	SGE00793.A01
1.6	EPA-HQ-OW-2014-0598-0767	List of Meetings EPA Participated in with Stakeholders and Industry Groups During the Development of the	A document listing the meetings EPA held with stakeholders related to this rulemaking	USEPA	3/31/2015	FALSE	FALSE	SGE00967

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Proposed Pretreatment Standards for Unconventional Oil and Gas Extraction DCN SGE00967						
1.6	EPA-HQ-OW-2014-0598-0645	Talisman – Sanitized Notes DCN SGE01064	Sanitized summary notes for meeting with Talisman Energy, Inc. about unconventional oil and gas	ERG	8/6/2012	FALSE	FALSE	SGE01064
1.6	EPA-HQ-OW-2014-0598-0754	Tribal Unconventional Oil and Gas Operations and Wastewater Management Call Summary – DCN SGE01123	A call summary about tribal unconventional oil and gas operations and wastewater management.	USEPA	5/29/2014	FALSE	FALSE	SGE01123
2.1.1	EPA-HQ-OW-2014-0598-0751	Pennsylvania Department of Environmental Protection’s Statewide Oil and Gas Waste Reports DCN SGE00188	ERG memorandum listing the oil and gas waste reports downloaded from the PA DEP on 12/22/2014.	O’Connell, James	12/31/2014	FALSE	FALSE	SGE00188
2.1.1	EPA-HQ-OW-2014-0598-0751	Statewide Data Downloads by Reporting Period – Attachment 1: Jan-Jun 2014 Waste (Unconventional wells) DCN SGE00188.A01	PA DEP Jan – Jun 2014 oil and gas waste report for unconventional wells.	PA DEP	12/22/2014	FALSE	FALSE	SGE00188.A01
2.1.1	EPA-HQ-OW-2014-0598-0751	Statewide Data Downloads by Reporting Period – Attachment 2: Jan-Dec 2013 Waste	PA DEP Jan – Jun 2014 oil and gas waste report for conventional wells.	PA DEP	12/22/2014	FALSE	FALSE	SGE00188.A02

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		(Conventional wells) DCN SGE00188.A02						
2.1.1	EPA-HQ-OW-2014-0598-0751	Statewide Data Downloads by Reporting Period – Attachment 3: Jan-Jun 2013 Waste (Unconventional wells) DCN SGE00188.A03	PA DEP Jan – Jun 2013 oil and gas waste report for unconventional wells.	PA DEP	12/22/2014	FALSE	FALSE	SGE00188.A03
2.1.1	EPA-HQ-OW-2014-0598-0751	Statewide Data Downloads by Reporting Period – Attachment 4: Jul-Dec 2013 Waste (Unconventional wells) DCN SGE00188.A04	PA DEP July – Dec 2013 oil and gas waste report for unconventional wells.	PA DEP	12/22/2014	FALSE	FALSE	SGE00188.A04
2.1.1	EPA-HQ-OW-2014-0598-0751	Statewide Data Downloads by Reporting Period – Attachment 5: Jan-Dec 2012 Waste (Conventional wells) DCN SGE00188.A05	PA DEP Jan – Dec 2012 oil and gas waste report for conventional wells.	PA DEP	12/22/2014	FALSE	FALSE	SGE00188.A05
2.1.1	EPA-HQ-OW-2014-0598-0751	Statewide Data Downloads by Reporting Period – Attachment 6: Jan-Jun 2012 Waste (Unconventional wells) DCN SGE00188.A06	PA DEP Jan – Jun 2012 oil and gas waste report for unconventional wells.	PA DEP	12/22/2014	FALSE	FALSE	SGE00188.A06
2.1.1	EPA-HQ-OW-2014-0598-0751	Statewide Data Downloads by Reporting Period – Attachment 7: Jul-Dec	PA DEP July – Dec 2012 oil and gas waste report for unconventional wells.	PA DEP	12/22/2014	FALSE	FALSE	SGE00188.A07

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		2012 Waste (Unconventional wells) DCN SGE00188.A07						
2.1.1	EPA-HQ-OW-2014-0598-0751	Statewide Data Downloads by Reporting Period – Attachment 8: Jan-Dec 2011 Waste (Annual O&G, without Marcellus) DCN SGE00188.A08	PA DEP Jan – Dec 2011 oil and gas waste report for Annual O&G without Marcellus.	PA DEP	12/22/2014	FALSE	FALSE	SGE00188.A08
2.1.1	EPA-HQ-OW-2014-0598-0751	Statewide Data Downloads by Reporting Period – Attachment 9: Jan-Jun 2011 Waste (Marcellus Only, 6 months) DCN SGE00188.A09	PA DEP Jan – Jun 2011 oil and gas waste report for Marcellus only.	PA DEP	12/22/2014	FALSE	FALSE	SGE00188.A09
2.1.1	EPA-HQ-OW-2014-0598-0751	Statewide Data Downloads by Reporting Period – Attachment 10: Jul-Dec 2011 Waste (Marcellus Only, 6 months) DCN SGE00188.A10	PA DEP July – Dec 2011 oil and gas waste report for Marcellus only.	PA DEP	12/22/2014	FALSE	FALSE	SGE00188.A10
2.1.1	EPA-HQ-OW-2014-0598-0751	Statewide Data Downloads by Reporting Period – Attachment 11: Jan-Dec 2010 Waste (Annual O&G, without Marcellus) DCN SGE00188.A11	PA DEP Jan – Dec 2010 oil and gas waste report for Annual O&G without Marcellus.	PA DEP	12/22/2014	FALSE	FALSE	SGE00188.A11

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
2.1.1	EPA-HQ-OW-2014-0598-0751	Statewide Data Downloads by Reporting Period – Attachment 12: Jul-Dec 2010 Waste (Marcellus Only, 6 months) DCN SGE00188.A12	PA DEP July – Dec 2010 oil and gas waste report for Marcellus only.	PA DEP	12/22/2014	FALSE	FALSE	SGE00188.A12
2.1.1	EPA-HQ-OW-2014-0598-0751	Statewide Data Downloads by Reporting Period – Attachment 13: Jul 2009-Jun 2010 Waste (Marcellus Only, 12 months) DCN SGE00188.A13	PA DEP July 2009 – Jun 2010 oil and gas waste report for Marcellus only.	PA DEP	12/22/2014	FALSE	FALSE	SGE00188.A13
2.1.1	EPA-HQ-OW-2014-0598-0751	Statewide Data Downloads by Reporting Period – Attachment 14: Jan-Dec 2009 Waste (Annual O&G, with Marcellus) DCN SGE00188.A14	PA DEP Jan – Dec 2009 oil and gas waste report for Annual O&G with Marcellus.	PA DEP	12/22/2014	FALSE	FALSE	SGE00188.A14
2.1.1	EPA-HQ-OW-2014-0598-0751	Statewide Data Downloads by Reporting Period – Attachment 15: Jan-Dec 2008 Waste (Annual O&G, with Marcellus) DCN SGE00188.A15	PA DEP Jan – Dec 2008 oil and gas waste report for Annual O&G with Marcellus.	PA DEP	12/22/2014	FALSE	FALSE	SGE00188.A15
2.1.1	EPA-HQ-OW-2014-	Statewide Data Downloads by	PA DEP Jan – Dec 2007 oil and gas waste report for	PA DEP	12/22/2014	FALSE	FALSE	SGE00188.A16

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0751	Reporting Period – Attachment 16: Jan-Dec 2007 Waste (Annual O&G, with Marcellus) DCN SGE00188.A16	Annual O&G with Marcellus.					
2.1.1	EPA-HQ-OW-2014-0598-0751	Statewide Data Downloads by Reporting Period – Attachment 17: Jan-Dec 2006 Waste (Annual O&G, with Marcellus) DCN SGE00188.A17	PA DEP Jan – Dec 2006 oil and gas waste report for Annual O&G with Marcellus.	PA DEP	12/22/2014	FALSE	FALSE	SGE00188.A17
2.1.1	EPA-HQ-OW-2014-0598-0751	Statewide Data Downloads by Reporting Period – Attachment 18: Jan-Dec 2005 Waste (Annual O&G, with Marcellus) DCN SGE00188.A18	PA DEP Jan – Dec 2005 oil and gas waste report for Annual O&G with Marcellus.	PA DEP	12/22/2014	FALSE	FALSE	SGE00188.A18
2.1.1	EPA-HQ-OW-2014-0598-0751	Statewide Data Downloads by Reporting Period – Attachment 19: Jan-Dec 2004 Waste (Annual O&G, with Marcellus) DCN SGE00188.A19	PA DEP Jan – Dec 2004 oil and gas waste report for Annual O&G with Marcellus.	PA DEP	12/22/2014	FALSE	FALSE	SGE00188.A19
2.1.1	EPA-HQ-OW-2014-0598-0751	Statewide Data Downloads by Reporting Period – Attachment 20: Jan-	PA DEP Jan – Dec 2003 oil and gas waste report for Annual O&G with Marcellus.	PA DEP	12/22/2014	FALSE	FALSE	SGE00188.A20

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Dec 2003 Waste (Annual O&G, with Marcellus) DCN SGE00188.A20						
2.1.1	EPA-HQ-OW-2014-0598-0751	Statewide Data Downloads by Reporting Period – Attachment 21: Jan-Dec 2002 Waste (Annual O&G, with Marcellus) DCN SGE00188.A21	PA DEP Jan – Dec 2002 oil and gas waste report for Annual O&G with Marcellus.	PA DEP	12/22/2014	FALSE	FALSE	SGE00188.A21
2.1.1	EPA-HQ-OW-2014-0598-0751	Statewide Data Downloads by Reporting Period – Attachment 22: Jan-Dec 2001 Waste (Annual O&G, with Marcellus) DCN SGE00188.A22	PA DEP Jan – Dec 2001 oil and gas waste report for Annual O&G with Marcellus.	PA DEP	12/22/2014	FALSE	FALSE	SGE00188.A22
2.1.1	EPA-HQ-OW-2014-0598-0751	Statewide Data Downloads by Reporting Period – Attachment 23: Jan-Dec 2000 Waste (Annual O&G, with Marcellus) DCN SGE00188.A23	PA DEP Jan – Dec 2000 oil and gas waste report for Annual O&G with Marcellus.	PA DEP	12/22/2014	FALSE	FALSE	SGE00188.A23
2.1.1	EPA-HQ-OW-2014-0598-0087	Discharge Monitoring Report Pollutant Loading Tool – DCN SGE00608	Screen shot of the EPA’s Discharge Monitoring Report Pollutant Tool Facility Search page.	USEPA	1/28/2013	FALSE	FALSE	SGE00608
2.1.1	EPA-HQ-OW-2014-	DMR Loading Tool Download for New	Data from the DMR Pollutant Loading Tool.	USEPA	11/22/2013	FALSE	FALSE	SGE00612

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0089	Castle POTW (NPDES No. PA0027511) – DCN SGE00612						
2.1.1	EPA-HQ-OW-2014-0598-0736	Clean Water Act Section 308 Request for Information – Attachment 5: DMR Records DCN SGE01001	DMR reports for the Municipal Authority of the Borough of Belle Vernon, PA.	Fayette Engineering Co., Inc.	3/13/2009	FALSE	FALSE	SGE01001
2.1.1	EPA-HQ-OW-2014-0598-0553	2009 XTO 23 N Buffalo Twp Armstrong, PA DCN SGE01096	Form 26R, Chemical Analysis of Residual Waste Annual Report by the Generator	PA DEP	2/9/2011	FALSE	FALSE	SGE01096
2.1.1	EPA-HQ-OW-2014-0598-0554	2010 Chief Oil & Gas 1 Somerset, PA DCN SGE01097	Letter with Chief's 26R submittal.	PA DEP	2/28/2011	FALSE	FALSE	SGE01097
2.1.1	EPA-HQ-OW-2014-0598-0690	2010 EQT Production Company 3 DCN SGE01098	Analytical data.	PA DEP	1/4/2011	FALSE	FALSE	SGE01098
2.1.1	EPA-HQ-OW-2014-0598-0691	2010 Great Oak Energy 1 Salem Twp Westmoreland, PA DCN SGE01099	Letter with Great Oak Energy's Form 26R.	PA DEP	2/28/2011	FALSE	FALSE	SGE01099
2.1.1	EPA-HQ-OW-2014-0598-0692	2010 Keystone Clearwater Solutions 1 Derry Twp Westmoreland, PA DCN SGE01100	Letter with Keystone Clearwater Solutions' Form 26R.	PA DEP	2/28/2011	FALSE	FALSE	SGE01100
2.1.1	EPA-HQ-OW-2014-0598-0714	2010 XTO 20 Ligonier Twp Westmoreland, PA DCN SGE01101	Form 26R, Chemical Analysis of Residual Waste Annual Report by the Generator	PA DEP	2/9/2011	FALSE	FALSE	SGE01101
2.1.1	EPA-HQ-OW-2014-	2010 Keystone Clearwater Solutions	Form 26R, Chemical Analysis of Residual Waste	PA DEP	2/28/2011	FALSE	FALSE	SGE01102

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0715	Derry Twp Westmoreland, PA DCN SGE01102	Annual Report by the Generator					
2.1.1	EPA-HQ- OW-2014- 0598-0716	XTO Brush Valley Twp Indiana, PA DCN SGE01103	Form 26R, Chemical Analysis of Residual Waste Annual Report by the Generator	PA DEP	2/9/2011	FALSE	FALSE	SGE01103
2.1.1	EPA-HQ- OW-2014- 0598-0717	XTO Center Twp Indiana, PA DCN SGE01104	Form 26R, Chemical Analysis of Residual Waste Annual Report by the Generator	PA DEP	2/9/2011	FALSE	FALSE	SGE01104
2.1.1	EPA-HQ- OW-2014- 0598-0719	XTO Fairfield Twp Westmoreland DCN SGE01105	Form 26R, Chemical Analysis of Residual Waste Annual Report by the Generator	PA DEP	2/9/2011	FALSE	FALSE	SGE01105
2.1.1	EPA-HQ- OW-2014- 0598-0555	XTO St Clair Twp Westmoreland, PA DCN SGE01106	Form 26R, Chemical Analysis of Residual Waste Annual Report by the Generator	PA DEP	2/9/2011	FALSE	FALSE	SGE01106
2.1.1	EPA-HQ- OW-2014- 0598-0556	XTO White Twp Indiana, PA DCN SGE01107	Form 26R, Chemical Analysis of Residual Waste Annual Report by the Generator	PA DEP	2/9/2011	FALSE	FALSE	SGE01107
2.1.1	EPA-HQ- OW-2014- 0598-0557	2010 Cabot Oil & Gas 1 Dimock County, Susquehanna, PA DCN SGE01108	Letter with Cabot Oil & Gas Corporation's Form 26R.	PA DEP	3/18/2010	FALSE	FALSE	SGE01108
2.2	EPA-HQ- OW-2014- 0598-0799	Site Visit Report Chesapeake Energy Corporation Marcellus Shale Gas Operations Sanitized DCN SGE00274	Sanitized version of site visit report for EPA's visit to Chesapeake Energy in the Marcellus play of northern PA.	USEPA	10/22/2012	FALSE	FALSE	SGE00274

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
2.2	EPA-HQ-OW-2014-0598-0799	PowerPoint Presentation of all Site Visit Pictures - Chesapeake_CBI DCN SGE00274.A02	CBI_A PowerPoint presentation of all site visit pictures from EPA's site visit with Chesapeake Energy.	Chesapeake Energy	10/22/2012	FALSE	TRUE	SGE00274.A02
2.2	EPA-HQ-OW-2014-0598-0535	Site Visit Report Citrus Energy Corporation Marcellus Shale Gas Operations – DCN SGE00275	Summary of a site visit EPA held with Citrus in Northern Pennsylvania to see their Marcellus operations.	USEPA	1/22/2012	FALSE	FALSE	SGE00275
2.2	EPA-HQ-OW-2014-0598-0537	Site Visit Report Anadarko Petroleum Corporation Marcellus Shale Gas Operations – DCN SGE00280	Summary of a site visit EPA held with Anadarko in Northern Pennsylvania to see their Marcellus operations.	USEPA	6/26/2012	FALSE	FALSE	SGE00280
2.2	EPA-HQ-OW-2014-0598-0664	CBI_Site Visit Report Chesapeake Energy Corporation Marcellus Shale Gas Operations DCN SGE00288.C2	CBI_ version of the Site Visit Report that documents EPA's visit to Chesapeake in the Northern Marcellus.	USEPA	1/1/2012	FALSE	TRUE	SGE00288
2.2	EPA-HQ-OW-2014-0598-0664	PowerPoint Presentation of all Site Visit Pictures – Chesapeake_CBI DCN SGE00288.A02	CBI_A PowerPoint presentation of all site visit pictures from EPA's site visit with Chesapeake Energy	Chesapeake Energy	10/22/2012	FALSE	TRUE	SGE00288.A02
2.2	EPA-HQ-OW-2014-0598-0539	Site Visit Report: US Gas Field Fluids Management (formerly Clean Streams) Marcellus Shale Gas Operation DCN SGE00299	This site visit report provides an overview of EPA's site visit to Clean Streams located in Williamsport, PA. Clean Streams operates a CWT that utilizes evaporation/condensation to treat Marcellus shale	USEPA	10/9/2012	FALSE	FALSE	SGE00299

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
			wastewater.					
2.2	EPA-HQ-OW-2014-0598-0540	Site Visit Report Eureka Resources, LLC Marcellus Shale Gas Operations – DCN SGE00300	This site visit report summarizes information collected during EPA’s site visit to Eureka Resources in Williamsport, PA. Eureka operates a CWT that utilizes evaporation/condensation to treat Marcellus wastewater and discharges to a local POTW.	USEPA	10/9/2012	FALSE	FALSE	SGE00300
2.2	EPA-HQ-OW-2014-0598-0661	CBI_Site Visit Report Southwestern Energy Fayetteville Shale Operations DCN SGE00489	CBI_A site visit report that summarizes Southwestern Energy’s operations in the Fayetteville Shale play in Arkansas.	USEPA	3/30/2015	FALSE	TRUE	SGE00489
2.2	EPA-HQ-OW-2014-0598-0661	PowerPoint Presentation of All Southwestern Energy Site Visit Pictures DCN SGE00489.A01	CBI_A slideshow of all the pictures taken during the Southwestern Energy site visit.	USEPA	3/30/2015	FALSE	TRUE	SGE00489.A01
2.2	EPA-HQ-OW-2014-0598-0662	Site Visit Report Southwestern Energy Fayetteville Shale Operations – DCN SGE00625	A site visit report that summarizes Southwestern Energy’s operations in the Fayetteville Shale play in Arkansas.	USEPA	3/30/2015	FALSE	FALSE	SGE00625
2.2	EPA-HQ-OW-2014-0598-0662	PowerPoint Presentation of All Southwestern Energy Site Visit Pictures DCN SGE00625.A01	CBI_A slideshow of all the pictures taken during the Southwestern Energy site visit.	USEPA	3/30/2015	FALSE	TRUE	SGE00625.A01
2.2	EPA-HQ-OW-2014-	Site Visit Report Chesapeake Energy	Sanitized version of site visit report for EPA’s visit	USEPA	10/22/2012	FALSE	FALSE	SGE00635

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0713	Corporation Marcellus Shale Gas Operations Sanitized DCN SGE00635	to Chesapeake Energy in the Marcellus play of northern PA.					
2.2	EPA-HQ-OW-2014-0598-0713	PowerPoint Presentation of all Site Visit Pictures – Chesapeake_CBI DCN SGE00635.A02	CBI_A PowerPoint presentation of all site visit pictures from EPA’s site visit with Chesapeake Energy	Chesapeake Energy	10/22/2012	FALSE	TRUE	SGE00635.A02
2.2	EPA-HQ-OW-2014-0598-0644	Site Visit Report Seneca Resources Corporation DCN SGE01047	Site Visit Report Seneca Resources Corporation	USEPA	2/4/2015	FALSE	FALSE	SGE01047
2.2	EPA-HQ-OW-2014-0598-0479	Reserved Environmental Services (RES) – Sanitized SVR and Notes DCN SGE01065	Reserved Environmental Services (RES) – Sanitized Site Visit Report and Notes	ERG	2/10/2015	FALSE	FALSE	SGE01065
2.3	EPA-HQ-OW-2014-0598-0664	Natural Gas and Oil Overview DCN SGE00288.A01	CBI_Presentation on Chesapeake Energy’s natural gas and oil drilling operations.	Chesapeake Energy	5/9/2012	FALSE	TRUE	SGE00288.A01
2.3	EPA-HQ-OW-2014-0598-0799	Natural Gas and Oil Overview DCN SGE00274.A01	CBI_Presentation on Chesapeake Energy’s natural gas and oil drilling operations	Chesapeake Energy	5/9/2012	FALSE	TRUE	SGE00274.A01
2.3	EPA-HQ-OW-2014-0598-0661	Documents Received from Southwestern Energy DCN SGE00489.A02	CBI_Documents from Southwestern Energy given to EPA during their site visit.	Southwestern Energy	3/30/2015	FALSE	TRUE	SGE00489.A02
2.3	EPA-HQ-OW-2014-0598-0521	Status Code Key for Online Database – DCN SGE00498	Abbreviated codes for the Arkansas Oil and Gas Commission online database.	AOGC	1/1/2012	FALSE	FALSE	SGE00498

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
2.3	EPA-HQ-OW-2014-0598-0045	Well Type and Status Codes – DCN SGE00550	Abbreviated codes for the Michigan Department of Environmental Quality Injection Well database.	MDEQ	5/23/2013	FALSE	FALSE	SGE00550
2.3	EPA-HQ-OW-2014-0598-0662	Documents Received from Southwestern Energy DCN SGE00625.A02	CBI_Documents from Southwestern Energy given to EPA during their site visit.	Southwestern Energy	3/30/2015	FALSE	FALSE	SGE00625.A02
2.3	EPA-HQ-OW-2014-0598-0713	Natural Gas and Oil Overview DCN SGE00635.A01	CBI_Presentation on Chesapeake Energy's natural gas and oil drilling operations	Chesapeake Energy	5/9/2012	FALSE	TRUE	SGE00635.A01
2.3	EPA-HQ-OW-2014-0598-0653	UOG Workgroup – Warren, OH POTW Info Request – DCN SGE00786	Email update on Warren and Patriot facilities	ERG	1/1/2015	FALSE	FALSE	SGE00786
2.3	EPA-HQ-OW-2014-0598-0493	McKeesport POTW – DCN SGE01090	A memorandum summarizing EPA Region 3 communication with the Municipal Authority of the City of McKeesport, Pennsylvania	ERG	1/1/2015	FALSE	FALSE	SGE01090
2.3	EPA-HQ-OW-2014-0598-0552	Trends in Hydraulic Fracturing Distributions and Treatment Fluids, Additives, Proppants, and Water Volumes Applied to Wells Drilled in the United States from 1947 through 2010 — Data Analysis and Comparison to the	DOI/USGS Scientific Investigations Report 2014-5131.	USGS	1/1/2015	FALSE	FALSE	SGE01095

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Literature – DCN SGE01095						
2.3	EPA-HQ-OW-2014-0598-0552	Frac Well Final Status DCN SGE01095.A01	Spreadsheet with frac well final status data.	USGS	1/1/2015	FALSE	FALSE	SGE01095.A01
2.3	EPA-HQ-OW-2014-0598-0552	Frac Well Horizontal Direction DCN SGE01095.A02	Spreadsheet with frac well horizontal direction data.	USGS	1/1/2015	FALSE	FALSE	SGE01095.A02
2.3	EPA-HQ-OW-2014-0598-0552	Frac Well Vertical DCN SGE01095.A03	Spreadsheet with frac well vertical data.	USGS	1/1/2015	FALSE	FALSE	SGE01095.A03
2.3	EPA-HQ-OW-2014-0598-0552	Water Based Volume Per Well 1-99 th Percentile DCN SGE01095.A04	Spreadsheet with water based volume per well data.	USGS	1/1/2015	FALSE	FALSE	SGE01095.A04
2.3	EPA-HQ-OW-2014-0598-0552	Frac Additive DCN SGE01095.A05	Spreadsheet with frac additive data.	USGS	1/1/2015	FALSE	FALSE	SGE01095.A05
2.3	EPA-HQ-OW-2014-0598-0552	Frac Hole Direction DCN SGE01095.A06	Spreadsheet with frac hole directional data.	USGS	1/1/2015	FALSE	FALSE	SGE01095.A06
2.3	EPA-HQ-OW-2014-0598-0552	Frac Proppant DCN SGE01095.A07	Spreadsheet with frac proppant data.	USGS	1/1/2015	FALSE	FALSE	SGE01095.A07
2.3	EPA-HQ-OW-2014-0598-0552	Frac Treatment Fluid DCN SGE01095.A08	Spreadsheet with frac treatment fluid data.	USGS	1/1/2015	FALSE	FALSE	SGE01095.A08
2.3	EPA-HQ-OW-2014-0598-0552	Frac Treatment Type DCN SGE01095.A09	Spreadsheet with frac treatment type data.	USGS	1/1/2015	FALSE	FALSE	SGE01095.A09
2.3	EPA-HQ-OW-2014-0598-0552	Additive Key DCN SGE01095.A10	Spreadsheet with additive key data.	USGS	1/1/2015	FALSE	FALSE	SGE01095.A10

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
2.3	EPA-HQ-OW-2014-0598-0552	Hole Direction Key DCN SGE01095.A11	Spreadsheet with hole directional key data.	USGS	1/1/2015	FALSE	FALSE	SGE01095.A11
2.3	EPA-HQ-OW-2014-0598-0552	Proppant Key DCN SGE01095.A12	Spreadsheet with proppant key data.	USGS	1/1/2015	FALSE	FALSE	SGE01095.A12
2.3	EPA-HQ-OW-2014-0598-0552	Treatment Fluid Key DCN SGE01095.A13	Spreadsheet with treatment fluid key data.	USGS	1/1/2015	FALSE	FALSE	SGE01095.A13
2.3	EPA-HQ-OW-2014-0598-0552	Treatment Type Key DCN SGE01095.A14	Spreadsheet with treatment type data.	USGS	1/1/2015	FALSE	FALSE	SGE01095.A14
2.3	EPA-HQ-OW-2014-0598-0552	Frac Treat. Geo. Prov. DCN SGE01095.A15	Spreadsheet with frac treatment geo.prov. data.	USGS	1/1/2015	FALSE	FALSE	SGE01095.A15
2.3	EPA-HQ-OW-2014-0598-0552	Frac Treat. HUC Alaska DCN SGE01095.A16	Spreadsheet with frac treatment HUC Alaska data.	USGS	1/1/2015	FALSE	FALSE	SGE01095.A16
2.3	EPA-HQ-OW-2014-0598-0552	Frac Treat. HUC US DCN SGE01095.A17	Spreadsheet with frac treatment HUC U.S. data.	USGS	1/1/2015	FALSE	FALSE	SGE01095.A17
2.3	EPA-HQ-OW-2014-0598-0552	Frac Treat. HUC State DCN SGE01095.A18	Spreadsheet with frac treatment HUC state data.	USGS	1/1/2015	FALSE	FALSE	SGE01095.A18
2.3	EPA-HQ-OW-2014-0598-0552	Frac Well HUC Alaska DCN SGE01095.A19	Spreadsheet with frac well HUC Alaska data.	USGS	1/1/2015	FALSE	FALSE	SGE01095.A19
2.3	EPA-HQ-OW-2014-0598-0552	Frac Well HUC US DCN SGE01095.A20	Spreadsheet with frac well HUC U.S. data.	USGS	1/1/2015	FALSE	FALSE	SGE01095.A20
2.3	EPA-HQ-OW-2014-0598-0552	Frac Well HUC State DCN SGE01095.A21	Spreadsheet with frac well HUC state data.	USGS	1/1/2015	FALSE	FALSE	SGE01095.A21

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
2.3	EPA-HQ-OW-2014-0598-0552	Data Series DCN SGE01095.A22	Report with data regarding hydraulic fracturing distributions and treatment fluids, additives, proppants, and water volumes applied to wells drilled in the U.S. from 1947-2010.	USGS	1/1/2015	FALSE	FALSE	SGE01095.A22
2.3	EPA-HQ-OW-2014-0598-0658	PA and VA Class II Injection for Disposal Volume Data DCN SGE01109	A memo reporting the total volume of oil and gas extraction wastewater injected into active Class II disposal wells in Pennsylvania and Virginia.	ERG	1/1/2015	FALSE	FALSE	SGE01109
3.0	EPA-HQ-OW-2014-0598-0723	Altela Signed Confidential Release DCN SGE00110.A01	Documentation giving EPA permission to publish "An Integrated Water Treatment Technology Solution for Sustainable Water Resource Management in the Marcellus Shale – DCN SGE00110."	Bruff, Matthew	4/23/2015	FALSE	FALSE	SGE00110.A01
3.0	EPA-HQ-OW-2014-0598-0700	Not Copyrighted Confirmation DCN SGE00393.A01	Documentation giving EPA permission to publish data from NOGCC.	Sydow, Bill	2/19/2015	FALSE	FALSE	SGE00393.A01
3.0	EPA-HQ-OW-2014-0598-0712	OH DNR Signed Copyright Release DCN SGE00397.A01	Documentation giving EPA permission to publish data from OH DNR	OH DNR	3/31/2015	FALSE	FALSE	SGE00397.A01
3.0	EPA-HQ-OW-2014-0598-0667	OH DNR Signed Copyright Release DCN SGE00398.A01	Documentation giving EPA permission to publish data from OH DNR	OH DNR	3/31/2015	FALSE	FALSE	SGE00398.A01
3.0	EPA-HQ-OW-2014-0598-0703	Copyright data clarification for US EPA (UT DNR) DCN SGE00403.A01	Permission for US EPA to publish Utah Department of Natural Resources (UTDNR) data in DCN	Schneider, Steve	2/13/2015	FALSE	FALSE	SGE00403.A01

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
			SGE00403.					
3.0	EPA-HQ-OW-2014-0598-0704	Not Copyrighted Confirmation DCN SGE00405.A01	Documentation giving EPA permission to publish data from WOGC.	Kropatsch, Tom	2/18/2015	FALSE	FALSE	SGE00405.A01
3.0	EPA-HQ-OW-2014-0598-0571	Baker Hughes Non Copyright Confirmation DCNSGE00502.A01	Baker Hughes Non Copyright Confirmation	Baker Hughes	1/1/2013	FALSE	FALSE	SGE00502.A01
3.0	EPA-HQ-OW-2014-0598-0572	Baker Hughes Non Copyright Confirmation DCN SGE00503.A01	Baker Hughes Non Copyright Confirmation	Baker Hughes	1/1/2013	FALSE	FALSE	SGE00503.A01
3.0	EPA-HQ-OW-2014-0598-0573	Baker Hughes Non Copyright Confirmation DCN SGE00504.A01	Baker Hughes Non Copyright Confirmation	Baker Hughes	1/1/2013	FALSE	FALSE	SGE00504.A01
3.0	EPA-HQ-OW-2014-0598-0609	DrillingInfo Use of DI Desktop for EPA Rulemaking DCN SGE00520.A02	DrillingInfo Use of DI Desktop for EPA Rulemaking spreadsheet documentation.	Carroll, Jennifer	1/12/2015	FALSE	FALSE	SGE00520.A02
3.0	EPA-HQ-OW-2014-0598-0051	NDCI Non Copyright Confirmation DCN SGE00557.A01	NDCI Non Copyright Confirmation	Kirby, Nathan J.	11/24/2014	FALSE	FALSE	SGE00557.A01
3.0	EPA-HQ-OW-2014-0598-0518	MI DEQ Non Copyright Confirmation DCN SGE00549.A01	MI DEQ Non Copyright Confirmation	Lawrence, Deana M.	2/10/2015	FALSE	FALSE	SGE00549.A01
3.0	EPA-HQ-OW-2014-0598-0668	OH DNR Signed Copyright Release DCN SGE00559.A01	Documentation giving EPA permission to publish data from OH DNR	OH DNR	3/31/2015	FALSE	FALSE	SGE00559.A01
3.0	EPA-HQ-OW-2014-0598-0763	OH DNR Signed Copyright Release DCN SGE00560.A01	Documentation giving EPA permission to publish data from OH DNR	OH DNR	3/31/2015	FALSE	FALSE	SGE00560.A01

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
3.0	EPA-HQ-OW-2014-0598-0669	OH DNR Signed Copyright Release DCN SGE00561.A01	Documentation giving EPA permission to publish data from OH DNR	OH DNR	3/31/2015	FALSE	FALSE	SGE00561.A01
3.0	EPA-HQ-OW-2014-0598-0676	Analysis of Centralized Waste Treatment Facilities (CWTs) Accepting UOG Wastewater Attachment 1: UOG CWT List and Analysis DCN SGE00596.A01	Tables and graphs which show the number of new wells drilled per year and the number of active CWTs in the Marcellus and Utica regions from 2004 through 2012	ERG	1/1/2014	FALSE	FALSE	SGE00596.A01
3.0	EPA-HQ-OW-2014-0598-0798	Publicly Owned Treatment Works (POTW) Memorandum for the Technical Development Document (TDD) DCN SGE00598	This memorandum describes information on POTWs that have accepted unconventional wastewaters and analysis of wastewater volumes.	ERG	1/1/2015	FALSE	FALSE	SGE00598
3.0	EPA-HQ-OW-2014-0598-0798	Publicly Owned Treatment Works (POTW) Memorandum for the Technical Development Document (TDD) - Attachment 1: POTWs Data for TDD DCN SGE00598.A01	Information tables on POTWs that have accepted unconventional oil and gas extraction wastewaters and analysis of wastewater volumes.	ERG	1/1/2015	FALSE	FALSE	SGE00598.A01
3.0	EPA-HQ-OW-2014-0598-0544	Copyright data clarification for US EPA (NM EMNRD) DCN SGE00644.A01	Permission from New Mexico Energy, Minerals and Natural Resources Department for EPA to publish their data.	Wade, Gabriel	2/19/2015	FALSE	FALSE	SGE00644.A01
3.0	EPA-HQ-	Unconventional Oil	This report describes	USEPA	1/1/2015	FALSE	FALSE	SGE00692

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	OW-2014-0598-0682	and Gas Wastewater Treatment Technologies – DCN SGE00692	wastewater treatment technologies used by the UOG industry.					
3.0	EPA-HQ-OW-2014-0598-0682	Unconventional Oil and Gas Wastewater Treatment Technologies – Attachment 1: Treatment Technology Costs Spreadsheet – DCN SGE00692.A01	This attachment contains information about the treatment technologies and associated costs compiled in the report	USEPA	1/1/2015	FALSE	FALSE	SGE00692.A01
3.0	EPA-HQ-OW-2014-0598-0679	Data Compilation Memorandum for the Technical Development Document (TDD) for Proposed Effluent Limitations Guidelines and Standards for Oil and Gas Extraction – DCN SGE00693	This memorandum describes methodology for compiling data in the UOG TDD	ERG	3/31/2015	FALSE	FALSE	SGE00693
3.0	EPA-HQ-OW-2014-0598-0679	Data Compilation Memorandum for the Technical Development Document (TDD) for Proposed Effluent Limitations Guidelines and Standards for Oil and Gas Extraction – DCN SGE00693.A01	Onshore Oil&Gas Drilling Activities (as of Nov. 2013). Basis for Technical Development Document Figure B-13, Table B-2, and Figure B-7.	ERG	1/1/2015	FALSE	FALSE	SGE00693.A01
3.0	EPA-HQ-OW-2014-	Data Compilation Memorandum for the	Unconventional Oil&Gas data compilation file. Basis	ERG	1/1/2015	FALSE	FALSE	SGE00693.A02

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0679	Technical Development Document (TDD) for Proposed Effluent Limitations Guidelines and Standards for Oil and Gas Extraction – DCN SGE00693.A02	for Technical Development Document Table F-2 and F-3, and Table B-3.					
3.0	EPA-HQ-OW-2014-0598-0679	Data Compilation Memorandum for the Technical Development Document (TDD) for Proposed Effluent Limitations Guidelines and Standards for Oil and Gas Extraction – DCN SGE00693.A03	Unconventional Oil&Gas data compilation file. Basis for Technical Development Document Tables C-1, D-1, D-4, D-5, and D-6.	ERG	1/1/2015	FALSE	FALSE	SGE00693.A03
3.0	EPA-HQ-OW-2014-0598-0677	Unconventional Oil and Gas (UOG) Produced Water Volumes and Characterization Data Compilation DCN SGE00724	This memorandum describes methodology for compiling wastewater volumes and characterization data in the Technical Development Document (TDD).	ERG	1/1/2015	FALSE	FALSE	SGE00724
3.0	EPA-HQ-OW-2014-0598-0677	Unconventional Oil and Gas (UOG) Produced Water Volumes and Characterization Data Compilation – Attachment 1: UOG PW Data Compilation DCN SGE00724.A01	UOG Produced Water Data Compilation. Underlying data for TDD Tables C-6, C-7, and C-8	ERG	1/1/2015	FALSE	FALSE	SGE00724.A01

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
3.0	EPA-HQ-OW-2014-0598-0677	Unconventional Oil and Gas (UOG) Produced Water Volumes and Characterization Data Compilation – Attachment 2: DI Desktop Long-term Produced Water Generation Rates DCN SGE00724.A02	ERG analysis of DI Desktop data to tabulate long-term produced water generation rates on a per well basis	ERG	1/1/2015	FALSE	FALSE	SGE00724.A02
3.0	EPA-HQ-OW-2014-0598-0677	Unconventional Oil and Gas (UOG) Produced Water Volumes and Characterization Data Compilation – Attachment 3: DI Desktop Long-term Produced Water Generation Rates DCN SGE00724.A03	Access database with DI Desktop long term produced water generation rate data	ERG	1/1/2015	TRUE	TRUE	SGE00724.A03
3.0	EPA-HQ-OW-2014-0598-0677	Unconventional Oil and Gas (UOG) Produced Water Volumes and Characterization Data Compilation – Attachment 4: FracFocus Fracturing Fluid Volumes DCN SGE00724.A04	FracFocus fracturing fluid volumes data	ERG	1/1/2015	TRUE	FALSE	SGE00724.A04
3.0	EPA-HQ-OW-2014-	Unconventional Oil and Gas (UOG)	Access database with FracFocus fracturing fluid	ERG	1/1/2015	TRUE	TRUE	SGE00724.A05

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0677	Produced Water Volumes and Characterization Data Compilation – Attachment 5: FracFocus Fracturing Fluid Volumes DCN SGE00724.A05	volume data. This is proprietary data, so it is being handled as CBI					
3.0	EPA-HQ-OW-2014-0598-0677	Unconventional Oil and Gas (UOG) Produced Water Volumes and Characterization Data Compilation – Attachment 6: Bakken Flowback Recovery DCN SGE00724.A06	Bakken flowback volumes and raw data analysis.	ERG	1/1/2015	FALSE	FALSE	SGE00724.A06
3.0	EPA-HQ-OW-2014-0598-0677	Unconventional Oil and Gas (UOG) Produced Water Volumes and Characterization Data Compilation – Attachment 7: New Mexico Flowback Recovery DCN SGE00724.A07	New Mexico flowback water calculation and raw data analysis.	ERG	1/1/2015	TRUE	FALSE	SGE00724.A07
3.0	EPA-HQ-OW-2014-0598-0677	Unconventional Oil and Gas (UOG) Produced Water Volumes and Characterization Data Compilation – Attachment 8: Utica	Flowback and long-term produced water volumes for horizontal wells in Ohio.	ERG	1/1/2015	TRUE	FALSE	SGE00724.A08

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Produced Water Data DCN SGE00724.A08						
3.0	EPA-HQ-OW-2014-0598-0677	Unconventional Oil and Gas (UOG) Produced Water Volumes and Characterization Data Compilation – Attachment 9: Niobrara Long-term Produced Water Rates DCN SGE00724.A09	Niobrara shale produced water calculation and raw data.	ERG	1/1/2015	FALSE	FALSE	SGE00724.A09
3.0	EPA-HQ-OW-2014-0598-0677	Unconventional Oil and Gas (UOG) Produced Water Volumes and Characterization Data Compilation – Attachment 10: Wyoming Flowback Recovery DCN SGE00724.A10	Wyoming shale flowback water calculation, raw data, and analysis.	ERG	1/1/2015	TRUE	FALSE	SGE00724.A10
3.0	EPA-HQ-OW-2014-0598-0677	Unconventional Oil and Gas (UOG) Produced Water Volumes and Characterization Data Compilation – Attachment 11: Wattenberg Produced Water Rates DCN SGE00724.A11	Wattenberg field flowback and produced water rates calculation from a typical horizontal field in Colorado	ERG	1/1/2015	FALSE	FALSE	SGE00724.A11
3.0	EPA-HQ-OW-2014-	Unconventional Oil and Gas (UOG)	Colorado shale flowback water calculation and	ERG	1/1/2015	TRUE	FALSE	SGE00724.A12

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0677	Produced Water Volumes and Characterization Data Compilation – Attachment 12: Niobrara Flowback Recovery DCN SGE00724.A12	analysis.					
3.0	EPA-HQ-OW-2014-0598-0677	Unconventional Oil and Gas (UOG) Produced Water Volumes and Characterization Data Compilation – Attachment 13: UOG Wastewater Characterization Analysis DCN SGE00724.A13	A spreadsheet with analyses of UOG wastewater characterization	ERG	1/1/2015	FALSE	FALSE	SGE00724.A13
3.0	EPA-HQ-OW-2014-0598-0677	Unconventional Oil and Gas (UOG) Produced Water Volumes and Characterization Data Compilation – Attachment 14: UOG Wastewater Characterization Database DCN SGE00724.A14	A database with analyses of UOG wastewater characterization	ERG	1/1/2015	FALSE	FALSE	SGE00724.A14
3.0	EPA-HQ-OW-2014-0598-0677	Unconventional Oil and Gas (UOG) Produced Water Volumes and	A spreadsheet with analyses from the US Geological Survey produced water database	ERG	1/1/2015	FALSE	FALSE	SGE00724.A15

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Characterization Data Compilation – Attachment 15: USGS Produced Water Database DCN SGE00724.A15						
3.0	EPA-HQ-OW-2014-0598-0677	Unconventional Oil and Gas (UOG) Produced Water Volumes and Characterization Data Compilation – Attachment 16: USGS Produced Water Database DCN SGE00724.A16	The produced water database from the US Geological Survey	ERG	1/1/2015	FALSE	FALSE	SGE00724.A16
3.0	EPA-HQ-OW-2014-0598-0677	Unconventional Oil and Gas (UOG) Produced Water Volumes and Characterization Data Compilation – Attachment 17: ORD Non-CBI Operator Data DCN SGE00724.A17	A database of non-CBI operator data from the Office of Research and Development	ERG	1/1/2015	FALSE	TRUE	SGE00724.A17
3.0	EPA-HQ-OW-2014-0598-0171	OH DNR Signed Copyright Release DCN SGE00727.A01	Documentation giving EPA permission to publish data from OH DNR	OH DNR	3/31/2015	FALSE	FALSE	SGE00727.A01
3.0	EPA-HQ-OW-2014-0598-0680	Analysis of Active Underground Injection for Disposal Wells – DCN SGE00736	This memorandum describes the tabulation of active underground injection for disposal wells by state for the Technical	ERG	1/1/2015	FALSE	FALSE	SGE00736

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
			Development Document (TDD) and the related analyses performed in the attachment					
3.0	EPA-HQ-OW-2014-0598-0680	Analysis of Active Underground Injection for Disposal Wells – Attachment 1: Injection for Disposal Well Data DCN SGE00736.A01	Analysis of active disposal wells for TDD Table D-2. Includes state-by-state basis for average disposal rate per well.	ERG	1/1/2015	FALSE	FALSE	SGE00736.A01
3.0	EPA-HQ-OW-2014-0598-0651	OH DNR Signed Copyright Release DCN SGE00737.A01	Documentation giving EPA permission to publish data from OH DNR	OH DNR	3/31/2015	FALSE	FALSE	SGE00737.A01
3.0	EPA-HQ-OW-2014-0598-0663	Analysis of Pennsylvania Department of Environmental Protection's Oil and Gas Waste Reports DCN SGE00739	This memorandum describes an analysis of PA DEP's oil and gas waste reports	ERG	1/1/2015	FALSE	FALSE	SGE00739
3.0	EPA-HQ-OW-2014-0598-0663	Analysis of Pennsylvania Department of Environmental Protection's Oil and Gas Waste Reports – Attachment 1 – Development Database. DCN SGE00739.A01	This database contains an analysis of PA DEP's oil and gas waste reports	ERG	1/1/2015	FALSE	FALSE	SGE00739.A01
3.0	EPA-HQ-OW-2014-0598-0663	Analysis of Pennsylvania Department of	This database contains an analysis of PA DEP's oil and gas waste reports	ERG	1/1/2015	FALSE	FALSE	SGE00739.A02

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Environmental Protection's Oil and Gas Waste Reports – Attachment 2 – Analysis Database. DCN SGE00739.A02						
3.0	EPA-HQ-OW-2014-0598-0663	Analysis of Pennsylvania Department of Environmental Protection's Oil and Gas Waste Reports – Attachment 3 – Data Calculations. DCN SGE00739.A03	This spreadsheet contains an analysis of PA DEP's oil and gas waste reports	ERG	1/1/2015	FALSE	FALSE	SGE00739.A03
3.0	EPA-HQ-OW-2014-0598-0672	Unconventional Oil and Gas Drilling Wastewater Memo DCN SGE00740	Memorandum summarizing information available for UOG drilling fluid wastewater volumes, characteristics, and management	ERG	1/1/2015	FALSE	FALSE	SGE00740
3.0	EPA-HQ-OW-2014-0598-0672	Unconventional Oil and Gas Drilling Wastewater Memorandum Attachment 1: UOG Drilling Wastewater Volume and Characterization Data Excel File DCN SGE00740.A01	Analysis of information available for drilling fluid wastewater volumes, characteristics, and management	ERG	1/1/2015	FALSE	FALSE	SGE00740.A01
3.0	EPA-HQ-OW-2014-0598-0678	Publicly Owned Treatment Works (POTW) Memorandum	This memorandum describes information on POTWs that have accepted	ERG	1/1/2015	FALSE	FALSE	SGE00929

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		for the Technical Development Document (TDD) DCN SGE00929	unconventional wastewaters and analysis of wastewater volumes					
3.0	EPA-HQ-OW-2014-0598-0678	Publicly Owned Treatment Works (POTW) Memorandum for the Technical Development Document (TDD) – Attachment 1: POTWs Data for TDD DCN SGE00929.A01	Information tables on POTWs that have accepted unconventional oil and gas extraction wastewaters and analysis of wastewater volumes	ERG	1/1/2015	FALSE	FALSE	SGE00929.A01
3.0	EPA-HQ-OW-2014-0598-0681	Radioactive Elements in the Unconventional Oil and Gas (UOG) Industry DCN SGE00933	This memorandum describes the analysis of the DI® Desktop Database for the Technical Development Document (TDD).	ERG	1/1/2015	FALSE	FALSE	SGE00933
3.0	EPA-HQ-OW-2014-0598-0674	Analysis of DI Desktop® Database - DCN SGE00963	This memorandum describes the analysis of the DI® Desktop Database for the Technical Development Document (TDD).	ERG	1/1/2015	FALSE	FALSE	SGE00963
3.0	EPA-HQ-OW-2014-0598-0674	DI Desktop® Development Database DCN SGE00963.A01	This file is the DI Desktop® Development Database	ERG	1/1/2015	FALSE	TRUE	SGE00963.A01
3.0	EPA-HQ-OW-2014-0598-0670	OH DNR Signed Copyright Release DCN SGE00964.A01	Documentation giving EPA permission to publish data from OH DNR	OH DNR	3/31/2015	FALSE	FALSE	SGE00964.A01
3.0	EPA-HQ-OW-2014-0598-0671	OH DNR Signed Copyright Release DCN SGE00965.A01	Documentation giving EPA permission to publish data from OH DNR	OH DNR	3/31/2015	FALSE	FALSE	SGE00965.A01
3.0	EPA-HQ-OW-2014-	Information from EPA Region 3 about	A summary of EPA Headquarter questions on	Biddle, Lisa	3/18/2014	FALSE	FALSE	SGE01003

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0738	Treatment Facilities in Pennsylvania – DCN SGE01003	Oil & Gas wastewater disposal in Pennsylvania and West Virginia and EPA Region 3 responses					
3.0	EPA-HQ-OW-2014-0598-0675	Conventional Oil and Gas (COG) Memorandum for the Record DCN SGE01016	This memorandum discusses conventional oil and gas (COG) extraction wastewater characteristics, as well as management and disposal practices used for COG extraction wastewater	ERG	1/1/2015	FALSE	FALSE	SGE01016
3.0	EPA-HQ-OW-2014-0598-0675	Conventional Oil and Gas (COG) Memorandum for the Record – Attachment 1: COG Drilling Wastewater Volume and Characterization Data DCN SGE01016.A01	This file shows analysis on conventional oil and gas (COG) drilling wastewater characteristics.	ERG	1/1/2015	FALSE	FALSE	SGE01016.A01
3.0	EPA-HQ-OW-2014-0598-0675	Conventional Oil and Gas (COG) Memorandum for the Record - Attachment 2: COG Wastewater Characterization Analysis DCN SGE01016.A02	This file shows analysis on conventional oil and gas (COG) produced water characteristics	ERG	1/1/2015	FALSE	FALSE	SGE01016.A02
3.0	EPA-HQ-OW-2014-0598-0675	Conventional Oil and Gas (COG) Memorandum for the Record - Attachment 3: COG Wastewater Characterization	This file is the conventional oil and gas (COG) extraction wastewater database	ERG	1/1/2015	FALSE	FALSE	SGE01016.A03

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Database DCN SGE01016.A03						
3.0	EPA-HQ-OW-2014-0598-0675	Conventional Oil and Gas (COG) Memorandum for the Record – Attachment 4: USGS Produced Waster Database – COG Data DCN SGE01016.A04	This file is the conventional oil and gas (COG) produced water database from USGS	ERG	1/1/2015	FALSE	FALSE	SGE01016.A04
4.0	EPA-HQ-OW-2014-0598-0083	Clean Watersheds Needs Survey 2008 Report to Congress. EPA-832-R-10-002 – DCN SGE00603	A report to Congress representing the capital needs for publicly owned wastewater pipes and treatment facilities.	USEPA	1/1/2008	FALSE	FALSE	SGE00603
4.0	EPA-HQ-OW-2014-0598-0220	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00804	Annual Form 10-k filing to the Securities and Exchange Commission.	Abraxas Petroleum Corp. (AXAS)	1/1/2013	FALSE	FALSE	SGE00804
4.0	EPA-HQ-OW-2014-0598-0687	2012 Annual Report DCN SGE00805	Annual report for the company, including annual financial data.	Adams Resources & Energy, Inc. (AE)	1/1/2012	FALSE	FALSE	SGE00805
4.0	EPA-HQ-OW-2014-0598-0221	Form 10-K For the Fiscal Year Ended December 31, 2011 DCN SGE00806	Annual Form 10-k filing to the Securities and Exchange Commission.	Adams Resources & Energy, Inc. (AE)	1/1/2012	FALSE	FALSE	SGE00806
4.0	EPA-HQ-OW-2014-0598-0222	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00807	Annual Form 10-k filing to the Securities and Exchange Commission.	Anadarko Petroleum Corp. (APC)	1/1/2013	FALSE	FALSE	SGE00807
4.0	EPA-HQ-OW-2014-0598-0223	Form 10-K For the Fiscal Year Ended December 31, 2012	Annual Form 10-k filing to the Securities and Exchange Commission.	Apache Corp. (APA)	1/1/2013	FALSE	FALSE	SGE00808

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		DCN SGE00808						
4.0	EPA-HQ-OW-2014-0598-0224	Understanding Natural Gas Markets DCN SGE00809	This study discusses natural gas trends for North America, including prices, competition, and LNG.	Augustine, Charles; Broxson, Bob; Peterson, Steven	1/1/2006	FALSE	FALSE	SGE00809
4.0	EPA-HQ-OW-2014-0598-0225	Annual Review and Form 20-F 2012: Building a Stronger, Safer BP DCN SGE00810	Annual Form 20-F filing to the Securities and Exchange Commission.	BP PLC ADR (BP)	1/1/2012	FALSE	FALSE	SGE00810
4.0	EPA-HQ-OW-2014-0598-0226	G.17 – Industrial Production and Capacity Utilization for Dec 16, 2013. Capacity Utilization: Oil and gas extraction (NAICS = 211) DCN SGE00811	This file contains original annual capacity utilization data for the oil and gas extraction industry from the Federal Reserve System.	Board of Governors of the Federal Reserve System (FRS)	1/1/2013	FALSE	FALSE	SGE00811
4.0	EPA-HQ-OW-2014-0598-0227	G.17 – Industrial Production and Capacity Utilization for Dec 16, 2013. Industrial Production: Oil and gas extraction (NAICS = 211), Crude petroleum and natural gas extraction NAICS=211111 and Natural gas liquid extraction NAICS=211112 DCN SGE00812	This file contains original annual industrial production data for the oil and gas extraction, crude petroleum and natural gas extraction, and natural gas liquid extraction industries from the Federal Reserve System.	Board of Governors of the Federal Reserve System (FRS)	1/1/2013	FALSE	FALSE	SGE00812

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
4.0	EPA-HQ-OW-2014-0598-0228	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00813	Annual Form 10-k filing to the Securities and Exchange Commission.	Cabot Oil & Gas Corp. (COG)	1/1/2013	FALSE	FALSE	SGE00813
4.0	EPA-HQ-OW-2014-0598-0229	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00814	Annual Form 10-k filing to the Securities and Exchange Commission.	Callon Petroleum Company (CPE)	1/1/2013	FALSE	FALSE	SGE00814
4.0	EPA-HQ-OW-2014-0598-0230	2012 Annual Report: The Premium Value Defined Growth Independent DCN SGE00815	Annual report for the company, including annual financial data.	Canadian Natural Resources Limited (CNQ.TO)	1/1/2012	FALSE	FALSE	SGE00815
4.0	EPA-HQ-OW-2014-0598-0231	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE0016	Annual Form 10-k filing to the Securities and Exchange Commission.	Carrizo Oil & Gas, Inc. (CRZO)	1/1/2013	FALSE	FALSE	SGE00816
4.0	EPA-HQ-OW-2014-0598-0232	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00817	Annual Form 10-k filing to the Securities and Exchange Commission.	Chesapeake Energy Corp. (CHK)	1/1/2013	FALSE	FALSE	SGE00817
4.0	EPA-HQ-OW-2014-0598-0233	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00818	Annual Form 10-k filing to the Securities and Exchange Commission.	Chevron Corp. (CVX)	1/1/2013	FALSE	FALSE	SGE00818
4.0	EPA-HQ-OW-2014-0598-0234	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00819	Annual Form 10-k filing to the Securities and Exchange Commission.	Climarex Energy Co. (XEC)	1/1/2013	FALSE	FALSE	SGE00819
4.0	EPA-HQ-OW-2014-0598-0235	The Case for Allowing U.S. Crude Oil Exports. Policy Innovation	This article discusses the U.S. policy on the export of crude oil.	Clayton, Blake	1/1/2013	FALSE	FALSE	SGE00820

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Memorandum No. 34 DCN SGE00820						
4.0	EPA-HQ-OW-2014-0598-0236	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00821	Annual Form 10-k filing to the Securities and Exchange Commission.	Comstock Resources, Inc. (CRK)	1/1/2013	FALSE	FALSE	SGE00821
4.0	EPA-HQ-OW-2014-0598-0237	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00822	Annual Form 10-k filing to the Securities and Exchange Commission.	Conoco-Phillips (COP)	1/1/2013	FALSE	FALSE	SGE00822
4.0	EPA-HQ-OW-2014-0598-0238	“Smaller companies at vanguard of US shale oil revolution.” DCN SGE00823	Article published in the Financial Times on the role of small companies in driving the unconventional oil and gas industry.	Crooks, Ed	1/1/2013	FALSE	FALSE	SGE00823
4.0	EPA-HQ-OW-2014-0598-0239	Navigating a fractured future: Insights into the future of the North American natural gas market DCN SGE00824	This report presents projections for North American gas markets over the next two decades. The paper also provides an analysis of these projections.	Choi, Tom; Robertson, Peter J.	1/1/2011	FALSE	FALSE	SGE00824
4.0	EPA-HQ-OW-2014-0598-0240	Form 10-K For the Fiscal Year Ended June 30, 2013 DCN SGE00826	Annual Form 10-k filing to the Securities and Exchange Commission.	Cubic Energy, Inc. (QBC)	1/1/2013	FALSE	FALSE	SGE00826
4.0	EPA-HQ-OW-2014-0598-0241	Form 10-KSB For the Fiscal Year Ended June 30, 2005 DCN SGE00827	Annual Form 10-ksb filing to the Securities and Exchange Commission.	Cubic Energy, Inc. (QBC)	1/1/2006	FALSE	FALSE	SGE00827
4.0	EPA-HQ-OW-2014-0598-0242	Form 10-KSB For the Fiscal Year Ended June 30, 2004 DCN SGE00828	Annual Form 10-ksb filing to the Securities and Exchange Commission.	Cubic Energy, Inc. (QBC)	1/1/2005	FALSE	FALSE	SGE00828

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
4.0	EPA-HQ-OW-2014-0598-0243	Deloitte Oil & Gas Mergers and Acquisitions: A subdued deal market follows brisk end-of-year activity DCN SGE00829	This report provides an overview of merger and acquisition activity in the oil and gas industry up to midyear 2013.	Deloitte	1/1/2013	FALSE	FALSE	SGE00829
4.0	EPA-HQ-OW-2014-0598-0244	Deloitte Oil & Gas Mergers and Acquisitions: Playing the long game, focus on the future DCN SGE00830	This report provides an overview of merger and acquisition activity in the oil and gas industry up to midyear 2011.	Deloitte	1/1/2011	FALSE	FALSE	SGE00830
4.0	EPA-HQ-OW-2014-0598-0245	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00831	Annual Form 10-k filing to the Securities and Exchange Commission.	Denbury Resources Inc. (DNR)	1/1/2013	FALSE	FALSE	SGE00831
4.0	EPA-HQ-OW-2014-0598-0246	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00832	Annual Form 10-k filing to the Securities and Exchange Commission.	Devon Energy Corp. (DVN)	1/1/2013	FALSE	FALSE	SGE00832
4.0	EPA-HQ-OW-2014-0598-0247	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00833	Annual Form 10-k filing to the Securities and Exchange Commission.	Double Eagle Petroleum Co. (DBLE)	1/1/2013	FALSE	FALSE	SGE00833
4.0	EPA-HQ-OW-2014-0598-0248	Form 10-KSB For the Fiscal Year Ended December 31, 2004 DCN SGE00834	Annual Form 10-k filing to the Securities and Exchange Commission.	Double Eagle Petroleum Co. (DBLE)	1/1/2005	FALSE	FALSE	SGE00834
4.0	EPA-HQ-OW-2014-0598-0249	Form 10-K For the Fiscal Year Ended March 31, 2013 DCN	Annual Form 10-k filing to the Securities and Exchange Commission.	Earthstone Energy Inc (ESTE)	1/1/2013	FALSE	FALSE	SGE00835

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		SGE00835						
4.0	EPA-HQ-OW-2014-0598-0250	Form 10-KSB For the Fiscal Year Ended March 31, 2007 DCN SGE00836	Annual Form 10-ksb filing to the Securities and Exchange Commission.	Earthstone Energy Inc (ESTE)	1/1/2007	FALSE	FALSE	SGE00836
4.0	EPA-HQ-OW-2014-0598-0251	Form 10-KSB For the Fiscal Year Ended March 31, 2006 DCN SGE00837	Annual Form 10-ksb filing to the Securities and Exchange Commission.	Earthstone Energy Inc (ESTE)	1/1/2006	FALSE	FALSE	SGE00837
4.0	EPA-HQ-OW-2014-0598-0252	Annual Report 2012 DCN SGE00838	Annual report for the company, including annual financial data.	Encana Corp. (ECA)	1/1/2012	FALSE	FALSE	SGE00838
4.0	EPA-HQ-OW-2014-0598-0253	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00839	Annual Form 10-k filing to the Securities and Exchange Commission.	Endeavour Internat'l Corp. (END)	1/1/2013	FALSE	FALSE	SGE00839
4.0	EPA-HQ-OW-2014-0598-0254	Form 10-K For the Fiscal Year Ended December 31, 2004 DCN SGE00840	Annual Form 10-k filing to the Securities and Exchange Commission.	Endeavour Internat'l Corp. (END)	1/1/2005	FALSE	FALSE	SGE00840
4.0	EPA-HQ-OW-2014-0598-0255	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00841	Annual Form 10-k filing to the Securities and Exchange Commission.	Energen Corp. (EGN)	1/1/2013	FALSE	FALSE	SGE00841
4.0	EPA-HQ-OW-2014-0598-0256	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00842	Annual Form 10-k filing to the Securities and Exchange Commission.	EOG Resources, Inc. (EOG)	1/1/2013	FALSE	FALSE	SGE00842
4.0	EPA-HQ-OW-2014-0598-0257	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00843	Annual Form 10-k filing to the Securities and Exchange Commission.	EQT Corp. (EQT)	1/1/2013	FALSE	FALSE	SGE00843
4.0	EPA-HQ-	Form 10-K For the	Annual Form 10-k filing to	Exxon	1/1/2013	FALSE	FALSE	SGE00844

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	OW-2014-0598-0258	Fiscal Year Ended December 31, 2012 DCN SGE00844	the Securities and Exchange Commission.	Mobil Corp. (XOM)				
4.0	EPA-HQ-OW-2014-0598-0259	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00845	Annual Form 10-k filing to the Securities and Exchange Commission.	Fieldpoint Petroleum Corp.	1/1/2013	FALSE	FALSE	SGE00845
4.0	EPA-HQ-OW-2014-0598-0260	Form 10-K For the Fiscal Year Ended December 31, 2006 DCN SGE00846	Annual Form 10-k filing to the Securities and Exchange Commission.	Fieldpoint Petroleum Corp.	1/1/2007	FALSE	FALSE	SGE00846
4.0	EPA-HQ-OW-2014-0598-0003	Form 10-K For the Fiscal Year Ended December 31, 2004 DCN SGE00847	Annual Form 10-k filing to the Securities and Exchange Commission.	Fieldpoint Petroleum Corp.	1/1/2005	FALSE	FALSE	SGE00847
4.0	EPA-HQ-OW-2014-0598-0004	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00848	Annual Form 10-k filing to the Securities and Exchange Commission.	Forest Oil Corp. (FST).	1/1/2013	FALSE	FALSE	SGE00848
4.0	EPA-HQ-OW-2014-0598-0005	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00849	Annual Form 10-k filing to the Securities and Exchange Commission.	Gasco Energy, Inc. (GSX).	1/1/2013	FALSE	FALSE	SGE00849
4.0	EPA-HQ-OW-2014-0598-0006	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00850	Annual Form 10-k filing to the Securities and Exchange Commission.	Gastar Exploration Ltd. (GST)	1/1/2013	FALSE	FALSE	SGE00850
4.0	EPA-HQ-OW-2014-0598-0007	Form 10-K For the Fiscal Year Ended December 31, 2011 DCN SGE00851	Annual Form 10-k filing to the Securities and Exchange Commission.	Gastar Exploration Ltd. (GST)	1/1/2012	FALSE	FALSE	SGE00851
4.0	EPA-HQ-OW-2014-0598-0008	Form 10-K For the Fiscal Year Ended December 31, 2008	Annual Form 10-k filing to the Securities and Exchange Commission.	Gastar Exploration Ltd. (GST)	1/1/2009	FALSE	FALSE	SGE00852

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		DCN SGE00852						
4.0	EPA-HQ-OW-2014-0598-0009	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00853	Annual Form 10-k filing to the Securities and Exchange Commission.	Goodrich Petroleum Corp. (GDP)	1/1/2013	FALSE	FALSE	SGE00853
4.0	EPA-HQ-OW-2014-0598-0010	“Understanding Today’s Crude Oil and Product Markets DCN SGE00854	This report provides an overview of the crude oil market, including industry trends, consumer demand, and market transformation.	Grant, Kenneth; Ownby, David; Peterson, Steven R.	1/1/2006	FALSE	FALSE	SGE00854
4.0	EPA-HQ-OW-2014-0598-0011	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00855	Annual Form 10-k filing to the Securities and Exchange Commission.	Gulfport Energy Corp (GPOR)	1/1/2013	FALSE	FALSE	SGE00855
4.0	EPA-HQ-OW-2014-0598-0012	Form 10-K For the Fiscal Year Ended December 31, 2004 DCN SGE00856	Annual Form 10-k filing to the Securities and Exchange Commission.	Gulfport Energy Corp (GPOR)	1/1/2005	FALSE	FALSE	SGE00856
4.0	EPA-HQ-OW-2014-0598-0013	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00857	Annual Form 10-k filing to the United States Securities and Exchange Commission.	Harvest Natural Resources, Inc. (HNR)	1/1/2013	FALSE	FALSE	SGE00857
4.0	EPA-HQ-OW-2014-0598-0014	Form 10-K For the Fiscal Year Ended December 31, 2009 DCN SGE00858	Annual Form 10-k filing to the Securities and Exchange Commission.	Harvest Natural Resources, Inc. (HNR)	1/1/2010	FALSE	FALSE	SGE00858
4.0	EPA-HQ-OW-2014-0598-0015	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00859	Annual Form 10-k filing to the Securities and Exchange Commission.	Hess Corp (HES)	1/1/2013	FALSE	FALSE	SGE00859
4.0	EPA-HQ-OW-2014-	Form 10-K For the Fiscal Year Ended	Annual Form 10-k filing to the Securities and Exchange	Houston American	1/1/2013	FALSE	FALSE	SGE00860

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0016	December 31, 2012 DCN SGE00860	Commission.	Energy Corp (HUSA)				
4.0	EPA-HQ-OW-2014-0598-0017	Form 10-K For the Fiscal Year Ended December 31, 2010 DCN SGE00861	Annual Form 10-k filing to the Securities and Exchange Commission.	Houston American Energy Corp (HUSA)	1/1/2011	FALSE	FALSE	SGE00861
4.0	EPA-HQ-OW-2014-0598-0018	Form 10-K For the Fiscal Year Ended December 31, 2008 DCN SGE00862	Annual Form 10-k filing to the Securities and Exchange Commission.	Houston American Energy Corp (HUSA)	1/1/2009	FALSE	FALSE	SGE00862
4.0	EPA-HQ-OW-2014-0598-0019	Form 10-K For the Fiscal Year Ended December 31, 2006 DCN SGE00863	Annual Form 10-k filing to the Securities and Exchange Commission.	Houston American Energy Corp (HUSA)	1/1/2007	FALSE	FALSE	SGE00863
4.0	EPA-HQ-OW-2014-0598-0021	Form 10-K For the Fiscal Year Ended March 31, 2013 DCN SGE00865	Annual Form 10-k filing to the United States Securities and Exchange Commission (excerpt).	Mexico Energy Corp (MXC)	1/1/2013	FALSE	FALSE	SGE00865
4.0	EPA-HQ-OW-2014-0598-0022	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00866	Annual Form 10-k filing to the Securities and Exchange Commission.	Murphy Oil Corp (MUR)	1/1/2013	FALSE	FALSE	SGE00866
4.0	EPA-HQ-OW-2014-0598-0023	Marketing DCN SGE00867	Online article and overview of natural gas industry.	Natural Gas Supply Association (NGSA)	8/29/2014	FALSE	FALSE	SGE00867
4.0	EPA-HQ-OW-2014-0598-0024	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00868	Annual Form 10-k filing to the Securities and Exchange Commission.	Newfield Exploration Company (NFX)	1/1/2013	FALSE	FALSE	SGE00868

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
4.0	EPA-HQ-OW-2014-0598-0025	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00869	Annual Form 10-k filing to the Securities and Exchange Commission.	Noble Energy, Inc. (NBL)	1/1/2013	FALSE	FALSE	SGE00869
4.0	EPA-HQ-OW-2014-0598-0026	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00870	Annual Form 10-k filing to the Securities and Exchange Commission.	Occidental Petroleum Corp (OXY)	1/1/2013	FALSE	FALSE	SGE00870
4.0	EPA-HQ-OW-2014-0598-0027	Annual Report 2012 DCN SGE00871	Annual report for the company, including annual financial data.	Panhandle Oil and Gas Inc. (PHX)	1/1/2012	FALSE	FALSE	SGE00871
4.0	EPA-HQ-OW-2014-0598-0028	Form 10-K For the Fiscal Year Ended December 31, 201 DCN SGE00872	Annual Form 10-k filing to the Securities and Exchange Commission.	Penn Virginia Corp (PVA)	1/1/2013	FALSE	FALSE	SGE00872
4.0	EPA-HQ-OW-2014-0598-0029	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00873	Annual Form 10-k filing to the Securities and Exchange Commission.	PetroQuest Energy, Inc. (PQ)	1/1/2013	FALSE	FALSE	SGE00873
4.0	EPA-HQ-OW-2014-0598-0030	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00874	Annual Form 10-k filing to the Securities and Exchange Commission.	Pioneer Natural Resources Company (PXD)	1/1/2013	FALSE	FALSE	SGE00874
4.0	EPA-HQ-OW-2014-0598-0031	Chesapeake energy's shift to oil won't work without higher natural gas prices DCN SGE00875	Online article of oil and natural gas, investment decision.	Phillips, David	1/1/2010	FALSE	FALSE	SGE00875
4.0	EPA-HQ-OW-2014-0598-0032	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00876	Annual Form 10-k filing to the United States Securities and Exchange Commission (excerpt).	Prime-Energy Corp (PNRG)	1/1/2013	FALSE	FALSE	SGE00876

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
4.0	EPA-HQ-OW-2014-0598-0033	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00877	Annual Form 10-k filing to the Securities and Exchange Commission.	Pyramid Oil Company (PDO)	1/1/2013	FALSE	FALSE	SGE00877
4.0	EPA-HQ-OW-2014-0598-0034	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00878	Annual Form 10-k filing to the Securities and Exchange Commission.	Questar (STR)	1/1/2013	FALSE	FALSE	SGE00878
4.0	EPA-HQ-OW-2014-0598-0035	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00879	Annual Form 10-k filing to the Securities and Exchange Commission.	Quicksilver Resources Inc. (KWK)	1/1/2013	FALSE	FALSE	SGE00879
4.0	EPA-HQ-OW-2014-0598-0036	U.S. Natural Gas Exports: New Opportunities, Uncertain Outcomes DCN SGE00880	Natural gas and LNG export.	Ratner, Michael; Parfomak, Paul W.; Fergusson, Ian F.; Luther, Linda	1/1/2013	FALSE	FALSE	SGE00880
4.0	EPA-HQ-OW-2014-0598-0037	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00881	Annual Form 10-k filing to the Securities and Exchange Commission.	Range Resources Corp (RRC)	1/1/2013	FALSE	FALSE	SGE00881
4.0	EPA-HQ-OW-2014-0598-0038	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00882	Annual Form 10-k filing to the Securities and Exchange Commission.	Royale Energy Inc (ROYL)	1/1/2013	FALSE	FALSE	SGE00882
4.0	EPA-HQ-OW-2014-0598-0039	Form 10-K For the Fiscal Year Ended December 31, 2011 DCN SGE00883	Annual Form 10-k filing to the Securities and Exchange Commission.	Royale Energy Inc (ROYL)	1/1/2012	FALSE	FALSE	SGE00883
4.0	EPA-HQ-OW-2014-	Form 10-K For the Fiscal Year Ended	Annual Form 10-k filing to the Securities and Exchange	SM Energy Company	1/1/2013	FALSE	FALSE	SGE00884

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0040	December 31, 2012 DCN SGE00884	Commission.	(SM)				
4.0	EPA-HQ-OW-2014-0598-0041	U.S. to Be Top Oil Producer by 2015 on Shale, IEA Says DCN SGE00885	News article on shale production.	Smith, Grant	1/1/2013	FALSE	FALSE	SGE00885
4.0	EPA-HQ-OW-2014-0598-0261	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00886	Annual Form 10-k filing to the Securities and Exchange Commission.	Southwestern Energy Company (SWN)	1/1/2013	FALSE	FALSE	SGE00886
4.0	EPA-HQ-OW-2014-0598-0262	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00887	Annual Form 10-k filing to the Securities and Exchange Commission.	Stone Energy Corp (SGY)	1/1/2013	FALSE	FALSE	SGE00887
4.0	EPA-HQ-OW-2014-0598-0263	Investor Relations: Financials. Annual Highlights DCN SGE00888	Annual financial statement for the company, including key financial indicators.	Swift Energy Company (SFY)	1/1/2013	TRUE	FALSE	SGE00888
4.0	EPA-HQ-OW-2014-0598-0264	2012 Annual Report DCN SGE00889	Annual report for the company, including annual financial data.	Talisman Energy (TLM)	1/1/2012	FALSE	FALSE	SGE00889
4.0	EPA-HQ-OW-2014-0598-0265	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00890	Annual Form 10-k filing to the Securities and Exchange Commission.	Tengasco, Inc. (TGC)	1/1/2013	FALSE	FALSE	SGE00890
4.0	EPA-HQ-OW-2014-0598-0266	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00891	Annual Form 10-k filing to the Securities and Exchange Commission (excerpt).	Texas Vanguard Oil Company (TVOC)	1/1/2013	FALSE	FALSE	SGE00891
4.0	EPA-HQ-OW-2014-0598-0267	Form 10-K For the Fiscal Year Ended December 31, 2012	Annual Form 10-k filing to the Securities and Exchange Commission.	Ultra Petroleum Corp.	1/1/2013	FALSE	FALSE	SGE00892

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		DCN SGE00892		(UPL)				
4.0	EPA-HQ-OW-2014-0598-0268	Form 10-K For the Fiscal Year Ended December 31, 2006 DCN SGE00893	Annual Form 10-k filing to the Securities and Exchange Commission.	Ultra Petroleum Corp. (UPL)	1/1/2007	FALSE	FALSE	SGE00893
4.0	EPA-HQ-OW-2014-0598-0269	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00894	Annual Form 10-k filing to the Securities and Exchange Commission.	Unit Corp (UNT)	1/1/2013	FALSE	FALSE	SGE00894
4.0	EPA-HQ-OW-2014-0598-0270	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00895	Annual Form 10-k filing to the Securities and Exchange Commission.	Vaalco Energy Inc (EGY)	1/1/2013	FALSE	FALSE	SGE00895
4.0	EPA-HQ-OW-2014-0598-0271	Table 1.1.9 Implicit Price Deflators for Gross Domestic Product DCN SGE00896	This file contains original annual gross domestic product (GDP) implicit price deflators data from the Bureau of Economic Analysis.	United States Bureau of Economic Analysis (U.S. BEA)	1/1/2014	FALSE	FALSE	SGE00896
4.0	EPA-HQ-OW-2014-0598-0272	Current Dollar and "Real" Gross Domestic Product DCN SGE00897	This file contains annual current dollar and "real" gross domestic product (GDP) data from the Bureau of Economic Analysis.	United States Bureau of Economic Analysis (U.S. BEA)	1/1/2013	FALSE	FALSE	SGE00897
4.0	EPA-HQ-OW-2014-0598-0273	Statistics of U.S. Businesses (SUSB) DCN SGE00898	This file contains original data on the number of firms and establishments by employment size.	U.S. DOC	1/1/2011	FALSE	FALSE	SGE00898
4.0	EPA-HQ-OW-2014-0598-0274	U.S. Bureau of the Census. Economic Census DCN SGE00899	This file contains original data from the Economic Census.	U.S. DOC	1/1/2007	FALSE	FALSE	SGE00899

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
4.0	EPA-HQ-OW-2014-0598-0275	Statistics of U.S. Businesses: Definitions DCN SGE00900	This is the glossary for terms used in the Statistics of U.S. Businesses data	U.S. DOC	8/29/2014	FALSE	FALSE	SGE00900
4.0	EPA-HQ-OW-2014-0598-0276	AEO2014 Early Release Overview DCN SGE00901	This is the Annual Energy Outlook (AEO) 2014 Early Release document. The AEO is the U.S. EIA annual publication on long-term projections of energy supply, demand, and prices, with projections based on results from EIA's National Energy Modeling System.	United States Department of Energy (U.S. DOE)	1/1/2014	FALSE	FALSE	SGE00901
4.0	EPA-HQ-OW-2014-0598-0277	AEO2014 Early Release Overview. Figure 1. U.S. liquid fuels supply by source, 1970-2040 (million barrels per day) DCN SGE00902	This file contains the original data used in producing Figure 1 in the Annual Energy Outlook 2014 Early Release.	US DOE	1/1/2014	FALSE	FALSE	SGE00902
4.0	EPA-HQ-OW-2014-0598-0278	AEO2014 Early Release Overview. Figure 4. U.S. natural gas imports and exports, 2012-2040 (trillion cubic feet) DCN SGE00903	This file contains the original data used in producing Figure 4 in the Annual Energy Outlook 2014 Early Release.	US DOE	1/1/2014	FALSE	FALSE	SGE00903
4.0	EPA-HQ-OW-2014-0598-0279	Cushing, OK WTI Spot Price FOB (Dollars per Barrel): Annual DCN SGE00904	This file contains original Cushing OK, WTI spot prices data from the Energy Information Administration.	US DOE	1/1/2014	FALSE	FALSE	SGE00904
4.0	EPA-HQ-OW-2014-	Europe Brent Spot Price FOB (Dollars per	This file contains original Europe Brent spot prices	US DOE	1/1/2014	FALSE	FALSE	SGE00905

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0280	Barrel): Annual DCN SGE00905	data from the Energy Information Administration.					
4.0	EPA-HQ-OW-2014-0598-0281	Natural Gas Consumption by End Use (Million Cubic Feet) DCN SGE00906	This file contains original natural gas consumption data from the Energy Information Administration.	U.S. DOE	1/1/2014	FALSE	FALSE	SGE00906
4.0	EPA-HQ-OW-2014-0598-0282	Natural Gas Consumption (Million Cubic Feet): Annual DCN SGE00907	This file contains original natural gas consumption data from the Energy Information Administration.	U.S. DOE	1/1/2014	FALSE	FALSE	SGE00907
4.0	EPA-HQ-OW-2014-0598-0283	Natural Gas Gross Withdrawals and Production (Volumes in Million Cubic Feet) DCN SGE00908	This file contains original natural gas withdrawals and production data from the Energy Information Administration.	United States Department of Energy (U.S. DOE)	1/1/2014	FALSE	FALSE	SGE00908
4.0	EPA-HQ-OW-2014-0598-0284	U.S. crude oil production growth contributes to global oil price stability in 2013 DCN SGE00909	Article from the Energy Information Administration on crude oil production and prices.	United States Department of Energy (U.S. DOE)	1/1/2014	FALSE	FALSE	SGE00909
4.0	EPA-HQ-OW-2014-0598-0285	U.S. crude oil production growth contributes to global oil price stability in 2013 DCN SGE00910	This file contains original natural gas export data for the U.S. from the Energy Information Administration.	United States Department of Energy	1/1/2014	FALSE	FALSE	SGE00910
4.0	EPA-HQ-OW-2014-0598-0286	U.S. Natural Gas Imports by Country (Volumes in Million Cubic Feet, Prices in Dollars per Thousand Cubic Feet) DCN SGE00911	This file contains original natural gas import data for the U.S. from the Energy Information Administration.	United States Department of Energy (U.S. DOE)	1/1/2014	FALSE	FALSE	SGE00911
4.0	EPA-HQ-OW-2014-	U.S. Natural Gas Wellhead Price	This file contains original natural gas wellhead price	United States	1/1/2014	FALSE	FALSE	SGE00912

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
	0598-0287	(Dollars per Thousand Cubic Feet): Annual DCN SGE00912	data from the Energy Information Administration.	Department of Energy (U.S. DOE)				
4.0	EPA-HQ-OW-2014-0598-0289	Annual Energy Outlook 2013 with Projections to 2040 DCN SGE00913	Annual Form 10-k filing to the Securities and Exchange Commission.	United States Department of Energy (U.S. DOE)	1/1/2013	FALSE	FALSE	SGE00913
4.0	EPA-HQ-OW-2014-0598-0290	Annual Energy Outlook 2013 with Projections to 2040. Figure 91. Natural gas production by source, 1990-2040 (trillion cubic feet) DCN SGE00914	This file contains the original natural gas production data used for Figure 91 in the Annual Energy Outlook 2013.	United States Department of Energy (U.S. DOE)	1/1/2013	FALSE	FALSE	SGE00914
4.0	EPA-HQ-OW-2014-0598-0291	Crude Oil Production (Volumes in Thousand Barrels) DCN SGE00915	This file contains original crude oil production data from the Energy Information Administration.	United States Department of Energy (U.S. DOE)	1/1/2013	FALSE	FALSE	SGE00915
4.0	EPA-HQ-OW-2014-0598-0293	Exports DCN SGE00916	This file contains original crude oil export data from the Energy Information Administration.	United States Department of Energy (U.S. DOE)	1/1/2013	FALSE	FALSE	SGE00916
4.0	EPA-HQ-OW-2014-0598-0295	Product Supplied for Total Crude Oil and Petroleum Products DCN SGE00917	This file contains original crude oil and petroleum product supply data from the Energy Information Administration.	United States Department of Energy (U.S. DOE)	1/1/2013	FALSE	FALSE	SGE00917
4.0	EPA-HQ-OW-2014-0598-0296	Shale oil and shale gas resources are globally abundant DCN	This is an article from the Energy Information Administration comparing	United States Department	1/1/2013	FALSE	FALSE	SGE00918

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		SGE00918	United States crude oil and natural gas resources in particular from shale, to resources outside the U.S.	of Energy (U.S. DOE)				
4.0	EPA-HQ-OW-2014-0598-0298	U.S. Imports by Country of Origin DCN SGE00919	This file contains original crude oil and petroleum product import data from the Energy Information Administration.	United States Department of Energy (U.S. DOE)	1/1/2013	FALSE	FALSE	SGE00919
4.0	EPA-HQ-OW-2014-0598-0300	Annual Energy Outlook 2011 with Projections to 2035 DCN SGE00920	Annual Form 10-k filing to the Securities and Exchange Commission.	United States Department of Energy (U.S. DOE)	1/1/2011	FALSE	FALSE	SGE00920
4.0	EPA-HQ-OW-2014-0598-302	Natural Gas Explained: Factors Affecting Natural Gas Prices DCN SGE00921	This is an article from the Energy Information Administration discussing the main determinants of natural gas prices.	United States Department of Energy (U.S. DOE)	1/1/2011	FALSE	FALSE	SGE00921
4.0	EPA-HQ-OW-2014-0598-0304	Additions to Capacity on the U.S. Natural Gas Pipeline Network: 2007 DCN SGE00922	“This report from the Energy Information Administration discusses new natural gas pipeline capacity in the U.S. as of 2007, and analyzes proposed natural gas pipeline projects.”	United States Department of Energy (U.S. DOE)	7/1/2008	FALSE	FALSE	SGE00922
4.0	EPA-HQ-OW-2014-0598-0306	How to Obtain Authorization to Import and/or Export Natural Gas and LNG DCN SGE00923	This document, from the United States Department of Energy, explains the process for obtaining authorization to import/export natural gas and liquid natural gas.	United States Department of Energy (U.S. DOE)	2/18/2014	FALSE	FALSE	SGE00923

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
4.0	EPA-HQ-OW-2014-0598-0318	Employment by industry, occupation, and percent distribution, 2012 and projected 2022: 211100 Oil and Gas Extraction DCN SGE00924	This file contains original current and projected employment data, broken down by industry and occupation, from the Bureau of Labor Statistics.	United States Department of Energy (U.S. DOE)	1/1/2013	FALSE	FALSE	SGE00924
4.0	EPA-HQ-OW-2014-0598-0319	Employment Projection Program. Table 2.7 Employment and Output by Industry DCN SGE00925	This file contains original current and projected employment and output data from the Bureau of Labor Statistics.	United States Department of Energy (U.S. DOE)	1/1/2013	FALSE	FALSE	SGE00925
4.0	EPA-HQ-OW-2014-0598-0320	US: Failing in Shale DCN SGE00926	This article, from the Economist, discusses shifts in the shale industry, explaining the entry of small and large firms to the industry.	The Economist	11/20/2013	FALSE	FALSE	SGE00926
4.0	EPA-HQ-OW-2014-0598-0321	Form 10-K For the Fiscal Year Ended December 31, 2012 DCN SGE00927	Annual Form 10-k filing to the Securities and Exchange Commission.	Whiting Petroleum Corp (WLL)	1/1/2013	TRUE	FALSE	SGE00927
4.0	EPA-HQ-OW-2014-0598-0322	2012 Annual Report: A Year of Delivery DCN SGE00928	Annual Form 10-k filing to the Securities and Exchange Commission.	Woodside Petroleum Limited (WOPEY)	1/1/2012	FALSE	FALSE	SGE00928
4.0	EPA-HQ-OW-2014-0598-0613	Value Line. 2003-2012. Value Line Investment Analyzer® DCN SGE00962	Spreadsheet containing data for the Oil and Gas Extraction industry (NAICS 21111) and its subsectors (NAICS 211111 and 211112) used in creating a profile of the OGE industry	Taraquinio, Lisa		FALSE	FALSE	SGE00962

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
			and Shale Gas Extraction industry.					
4.0	EPA-HQ-OW-2014-0598-0637	Analysis_OGE_Date_v1.xlsx – Placeholder DCN SGE00990	This file compiles original data from a number of sources to create descriptive tables and figures for the profile of the Oil and Gas Extraction industry and Unconventional Oil and Gas Extraction industry.	Abt	1/1/2014	FALSE	FALSE	SGE00990
4.0	EPA-HQ-OW-2014-0598-0491	Annual Energy Outlook 2013 DCN SGE01088	Chart showing consumption of petroleum and other liquids by sector, 1990-2040.	EIA	1/1/2013	FALSE	FALSE	SGE01088
5.0	EPA-HQ-OW-2014-0598-0417	Barnett and Appalachian Shale Water Management and Reuse Technologies – DCN SGE00284	A detailed report that investigates water management in the Barnett and Marcellus shale gas plays.	Hayes, Tom; Severin, Blanie F.	3/30/2012	FALSE	FALSE	SGE00284
5.0	EPA-HQ-OW-2014-0598-0593	Assessment of Effluent contaminants from Three Facilities Discharging Marcellus Shale Wastewater to Surface Waters in Pennsylvania – DCN SGE00525	A sampling study quantifying analytes in effluents from three WWTPs.	Ferrar, Kyle	3/4/2013	TRUE	FALSE	SGE00525
5.0	EPA-HQ-OW-2014-0598-0601	Discharges of Produced Waters from Oil and Gas Extraction via Wastewater Treatment Plants are Sources of	This paper describes a study which analyzed samples from a river downstream of water treatment plants.	Hladik, Michelle; Focazio, Michael; Engle, Mark	8/29/2013	TRUE	FALSE	SGE00535

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Disinfection By-products to Receiving Streams – DCN SGE00535						
5.0	EPA-HQ-OW-2014-0598-0073	Marcellus Shale Drilling and Brominated THMs in Pittsburgh, PA Drinking Water – DCN SGE00587	This article describes an investigation of total trihalomethanes in Pittsburgh drinking water and the impact of treatment processes.	States, Stanley	9/1/2013	TRUE	FALSE	SGE00587
5.0	EPA-HQ-OW-2014-0598-0101	Impacts of Shale Gas Wastewater Disposal on Water Quality in Western Pennsylvania – DCN SGE00629	This paper examines water quality and isotopic compositions of discharged effluents, surface waters, and stream sediments associated with treatment facilities in western Pennsylvania.	Warner, Nathaniel; Cidney, Christie; Jackson, Robert; Vengosh, Avner	9/10/2013	TRUE	FALSE	SGE00629
5.0	EPA-HQ-OW-2014-0598-0330	Irrigation Water Quality Standards and Salinity Management Strategies – DCN SGE00936	Paper on irrigation water quality standards and salinity management. Includes information on water analysis, types of salt problems, classification of irrigation water, leaching for salinity management, and other salinity management techniques.	Fipps, Guy	1/1/2003	FALSE	FALSE	SGE00936
5.0	EPA-HQ-OW-2014-0598-0331	Australia and New Zealand Water Quality Guidelines 2000 Chapter 3 Primary Industries – 9.3 Livestock Drinking	Water Quality Guidelines Volume 3. Livestock drinking water guidelines including information on the derivation and use of the guidelines, biological	Australia and New Zealand Environment and Conser-	10/1/2000	FALSE	FALSE	SGE00937

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Water Guidelines – DCN SGE00937	parameters, major ions of concern for livestock drinking water quality, heavy metals and metalloids.	vation Council				
5.0	EPA-HQ-OW-2014-0598-0332	Irrigation Water Quality Criteria – DCN SGE00938	Salt-affected soils develop from a wide range of factors including: soil type, field slope and drainage, irrigation system type and management, fertilizer and manuring practices, and other soil and water management practices.	Colorado State University	5/1/2011	FALSE	FALSE	SGE00938
5.0	EPA-HQ-OW-2014-0598-0611	Taste Quality of Mineralized Water – DCN SGE00939	Article on results of tests to determine mineral water content levels in drinking water as they affect the taste.	Bruvold, William H.; Ongerth, Henry J.	1/1/1969	TRUE	FALSE	SGE00939
5.0	EPA-HQ-OW-2014-0598-0333	A Comparison of Zooplankton Communities in Saline Lakewater with Variable Anion Composition – DCN SGE00940	Article comparing zooplankton communities in saline lakewater with variable anion compositions. Evaluated zooplankton species to environmental variables in 12 different lakes.	Derry, A. M.; Prepas, E. E.; Hebert, P. D. N.	1/1/2003	FALSE	FALSE	SGE00940
5.0	EPA-HQ-OW-2014-0598-0334	Detailed study of irrigation drainage in and near wildlife management areas, west-central Nevada, 1987-90. Part B: Effect	USGS study of irrigation drainage in and near wildlife management areas of west-central Nevada from 1987 – 1990. The study looked at historical conditions of the	Hallock, R. J.; Hallock, L. L.	1/1/1993	FALSE	FALSE	SGE00941

Table 2. Record Index Sorted by Subject Outline Number for All Documents Supporting the Proposed Effluent Limitation Guidelines and Standards for the Oil and Gas Extraction Point Source Category

Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		on biota in Stillwater and Fernley Wildlife Management Areas, and other nearby wetlands – DCN SGE00941	lower Carson River wetlands, toxicity of irrigation drainage and its effect on aquatic organisms.					
5.0	EPA-HQ-OW-2014-0598-0335	State, Tribal & Territorial Standards Water Quality Standards Repository – DCN SGE00945	Screen capture of EPA’s Water: State, Tribal and Territorial Standards – Water Quality Standards Repository web page.	USEPA	1/1/2014	FALSE	FALSE	SGE00945
5.0	EPA-HQ-OW-2014-0598-0336	Effects of Total Dissolved Solids on Aquatic Organisms: A Review of Literature and Recommendation for Salmonid Species – DCN SGE00946	Journal article on the effects of total dissolved solids on aquatic organisms. The study recommended that different limits be set for individual ions rather than TDS for salmonid species.	Weber-Scannell, Phyllis K., et al	1/1/2007	FALSE	FALSE	SGE00946
5.0	EPA-HQ-OW-2014-0598-0348	Guidelines for Drinking-Water Quality, 2 nd Edition. Volume 2 – Health criteria and Other Supporting Information - DCN SGE00947	WHO Guidelines for drinking water quality. Explains how guideline values for drinking water contaminants are used, defines the criteria used to select contaminants included in the report, approaches used in deriving guideline values, and presents evaluations.	World Health Organization	1/1/1996	FALSE	FALSE	SGE00947
5.0	EPA-HQ-OW-2014-0598-0727	Enhanced Formation of Disinfection Byproducts in Shale Gas Wastewater-Impacted Drinking	Article on the enhanced formation of disinfection byproducts in shale gas wastewater-impacted drinking water supplies.	Parker, K., Zeng, T., Harkness, J., Vengosh,	9/9/2014	FALSE	FALSE	SGE00985

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Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Water Supplies DCN SGE00985		A., & Mitch, W.				
5.0	EPA-HQ-OW-2014-0598-0471	Water Quality for Wyoming Livestock & Wildlife A Review of the Literature Pertaining to Health Effects of Inorganic Contaminants DCN SGE01053	A review of the literature pertaining to health effects of Inorganic Contaminants	Raisbeck, M. F. et al.	1/1/2013	FALSE	FALSE	SGE01053
5.0	EPA-HQ-OW-2014-0598-0496	Final Annotated Bibliography for Section XIV, “Environmental Impacts,” of the Preamble for “Effluent Limitations Guidelines and Standards for the Oil and Gas Extraction Point Source Category; Proposed Rule” DCN SGE01093	Annotated Bibliography of the references used in the “Environmental Impacts” section of the Preamble.	Abt Associates	2/2/2015	FALSE	FALSE	SGE01093
6.0	EPA-HQ-OW-2014-0598-0683	Technical Development Document for Proposed Effluent Limitations Guidelines and Standards for Oil and Gas Extraction – DCN SGE00704	The technical development for the unconventional oil and gas rule making.	USEPA	3/1/2015	FALSE	FALSE	SGE00704
6.0	EPA-HQ-OW-2014-0598-0367	Environmental Engineering Support for Clean Water Regulations	ERG’s Environmental Engineering Support for Clean Water Regulation Programmatic Quality	ERG	10/1/2013	FALSE	FALSE	SGE00957

Table 2. Record Index Sorted by Subject Outline Number for All Documents Supporting the Proposed Effluent Limitation Guidelines and Standards for the Oil and Gas Extraction Point Source Category

Subject Outline Section	EPA Docket Number	Title	Abstract	Author	Date	Copyright	CBI	DCN
		Programmatic Quality Assurance Project Plan (PQAPP) DCN SGE00957	Assurance Project Plan. Outlines quality assurance/quality control procedures followed under the contract.					
6.0	EPA-HQ-OW-2014-0598-0368	Unconventional Oil and Gas (UOG) Supplemental Quality Assurance Project Plan (SQAPP) DCN SGE00958	Supplement to the Programmatic QAPP specific to quality assurance/quality control procedures followed under the unconventional oil and gas project.	ERG	8/15/2014	FALSE	FALSE	SGE00958
6.0	EPA-HQ-OW-2014-0598-0710	Documentation of OMB Review Under Executive Order 12866 DCN SGE01031	A documentation of OMB Review Under Executive Order 12866	US EPA	1/1/2015	FALSE	FALSE	SGE01031
6.0	-- ^a	Docket Users Guide DCN SGE01032	An explanation of the Federal Docket Management System. This guide will help public users access and navigate the Record for this proposal	ERG	1/1/2015	FALSE	FALSE	SGE01032
6.0	-- ^a	Docket Users Guide Attachments DCN SGE01032.A01	This attachment contains the 4 tables for the Docket Users Guide (DCN SGE01032).	ERG	1/1/2015	FALSE	FALSE	SGE01032.A01
6.0	EPA-HQ-OW-2014-0598-0001	Proposed Effluent Limitations Guidelines and Standards for the Oil and Gas Extraction Point Source Category DCN SGE01124	The preamble to this rulemaking published in the Federal Register.	USEPA	4/7/2015	FALSE	FALSE	SGE01124

a—An EPA Docket Number was assigned after this document was published.

**ATTACHMENT 3: CROSSWALK BETWEEN DCN, CITATION, AND EPA DOCKET NUMBER FOR
ALL DOCUMENTS SUPPORTING THE PROPOSED EFFLUENT LIMITATION GUIDELINES AND
STANDARDS FOR THE OIL AND GAS EXTRACTION POINT SOURCE CATEGORY**

EPA-HQ-OW-2014-0598

Table 3. Crosswalk for All Documents Supporting the Proposed Effluent Limitation Guidelines and Standards for the Oil and Gas Extraction Point Source Category

DCN	Citation	EPA Docket Number
SGE00001	Miller, Bryon. 2009. Brush Run Spill Report	EPA-HQ-OW-2014-0598-0446
SGE00001.A01	Unknown. Brush Run Lab Spill Samples	EPA-HQ-OW-2014-0598-0446
SGE00002	Volz, Conrad; Ferrar, Kyle; Michanowicz, Drew et. Al. 2011. Contaminant Characterization of Effluent from PA Brine Treatment Josephine Facility	EPA-HQ-OW-2014-0598-0002
SGE00002.A01	Volz, Conrad; Ferrar, Kyle; Michanowicz, D. et. Al. 2011. Contaminant Characterization of Effluent from PA Brine Treatment Josephine Facility_Abstract	EPA-HQ-OW-2014-0598-0002
SGE00004	US EPA. 2011. Agenda 1 – Technical Workshop for HF Study	EPA-HQ-OW-2014-0598-0753
SGE00004.A01	Degner, Dennis, Range Resources. 2011. HF Fluid Considerations in Marcellus Shale Completions	EPA-HQ-OW-2014-0598-0753
SGE00004.A02	McCurdy, Rick, Chesapeake Energy: Chemical. 2011. High Rate HF in Non-Marcellus Unconventional Shale	EPA-HQ-OW-2014-0598-0753
SGE00004.A03	Hodge, Richard, ConocoPhillips. Cross-link and Linear Gel Composition	EPA-HQ-OW-2014-0598-0753
SGE00004.A04	Tuck, Denise, Halliburton. 2011. Old vs. New Trends in HF Chemicals	EPA-HQ-OW-2014-0598-0753
SGE00004.A05	Gupta, Satya, BJ Services- Baker Hughes. Unconventional Fracturing Fluids: What, Where, Why?	EPA-HQ-OW-2014-0598-0753
SGE00004.A06	Coleman, Nancy, Chesapeake Energy. Produced Formation Water Sample Results from Shale Plays	EPA-HQ-OW-2014-0598-0753
SGE00004.A07	Bank, Tracy, Univ. of Buffalo. Trace Metal Geochemistry and Mobility in the Marcellus Formation	EPA-HQ-OW-2014-0598-0753
SGE00004.A08	King, George, Apache Corporation. Fracture Fluid Additives and Formation Degradations	EPA-HQ-OW-2014-0598-0753
SGE00004.A09	Tuck, Denise, Halliburton. 2011. What Can You Expect or Not – Chemical Breakdown and Degradation	EPA-HQ-OW-2014-0598-0753
SGE00004.A10	Szabo, Zoltan, USGS. Evaluation of Radionuclides as Degradation Products of Host Materials in Response to Altered Fluid Chemistry Environment	EPA-HQ-OW-2014-0598-0753
SGE00004.A11	McIntosh, Jennifer, Schlegel, et. Al. 2011. Chemical and Isotopic Tracers of Natural Gas and Formation Waters in Fractured Shales	EPA-HQ-OW-2014-0598-0753
SGE00004.A12	Distinguishing Source of Natural Gas Accumulations with Combined Gas & Co-Produced Formation Water Geochemical Approach: Case Study Appalachian Basin	EPA-HQ-OW-2014-0598-0753
SGE00004.A13	Baldassare, F. 2011. Orgn of Some Nat'l Gases in Permian thru Devonian Age Sys. In the N. App. Basin & Relationship to Incidents of Stray Gas Migr.	EPA-HQ-OW-2014-0598-0753
SGE00004.A14	King, George, Apache Corporation Tracing Fracturing Fluid Movement with Chemical and Gamma-Emitting Tracers with Verification by Microseismic Recording	EPA-HQ-OW-2014-0598-0753
SGE00004.A15	Blake, Uni, Gastem USA. Designing a Water Quality Program for Shale Exploration	EPA-HQ-OW-2014-0598-0753
SGE00004.A16	Elucidating Water Contamination by Fracturing Fluids and Formation Waters from Gas Wells: Integrating Isotopic and Geochemical Fingerprints	EPA-HQ-OW-2014-0598-0753
SGE00004.A17	Lawson, Michael, ExxonMobil. 2011. Isotopic Tracing of Groundwater Contamination: Techniques, Applications, and	EPA-HQ-OW-2014-0598-0753

Table 3. Crosswalk for All Documents Supporting the Proposed Effluent Limitation Guidelines and Standards for the Oil and Gas Extraction Point Source Category

DCN	Citation	EPA Docket Number
	Practical Considerations	
SGE00004.A18	Kirby, Carl, Bucknell Univ. 2011. Inorganic Geochemistry of Pennsylvania Marcellus Flowback Waters	EPA-HQ-OW-2014-0598-0753
SGE00004.A19	Quality Assurance, Quality Control and Method Performance Considerations for Chemical Testing: Samples Impacted by Hydraulic Fracturing Fluids	EPA-HQ-OW-2014-0598-0753
SGE00004.A20	Texas A&M University. Determination of Total Organic Carbons in Difficult Sample Matrices Utilizing the Supercritical Water-Oxidation TOC Procedure	EPA-HQ-OW-2014-0598-0753
SGE00004.A21	Practical Quantization Limits, Method Detection Limits, Interferences and Dilution Challenges in Fracturing Fluid Analyses	EPA-HQ-OW-2014-0598-0753
SGE00004.A22	Romanko, Terry, TestAmerica Labs. Radiochemical Analytical Challenges with Hydraulic Fracturing Fluids	EPA-HQ-OW-2014-0598-0753
SGE00004.A23	Szabo, Zoltan, USGS. Analytical Challenges of Radionuclides in Brines	EPA-HQ-OW-2014-0598-0753
SGE00006	US EPA. 2011. Agenda 3 – Technical Workshop for HF Study	EPA-HQ-OW-2014-0598-0447
SGE00006.A01	Palmer, C. et. Al. 2011. A Simple Approach Identifying Contaminants of Most Concern to Underground Drinking Water Supplies from Hydraulic Fracturing.	EPA-HQ-OW-2014-0598-0447
SGE00006.A02	Volz, Conrad. Contam. Charac. Of Effl. From PA Brine Treat., Inc, Josephine Facility Being Released into Blacklick Creek, IN Co., PA: Concep. Models.	EPA-HQ-OW-2014-0598-0447
SGE00006.A03	Havics, Andrew, pH2, LLC/QEPA. 2011. Fracking & Associated Media Composition in Colorado	EPA-HQ-OW-2014-0598-0447
SGE00006.A04	McElreath, D. 2011. Comparison of Hydraulic Fracturing Fluids Composition with Produced Formation Water Quality Following Fracturing.	EPA-HQ-OW-2014-0598-0447
SGE00006.A05	McGrath, Angus, Stantec. 2011. Fate and Transport of Select Hydraulic Fracturing Compounds of Potential Concern -	EPA-HQ-OW-2014-0598-0447
SGE00006.A06	McGrath, Angus, Stantec. Fate and Transport of Select Hydraulic Fracturing Compounds of Potential Concern: Where do we go from here	EPA-HQ-OW-2014-0598-0447
SGE00006.A07	Deeley, George, Shell Expl. And Production. 2011. Fate and Transport Evaluation of Potential Release Scenarios during Hydraulic Fracturing Operations	EPA-HQ-OW-2014-0598-0447
SGE00006.A08	Siegel, Donald, Syracuse University. A Protocol to Characterize Flowback Water Contamination of Shallow Waters from Shale Gas Development	EPA-HQ-OW-2014-0598-0447
SGE00006.A09	Ghassemi, Ahmad, Texas A&M University. Rock Failure and Stimulated Volume in Hydraulic Fracturing	EPA-HQ-OW-2014-0598-0447
SGE00006.A10	Warpinski, Norman, Pinnacle- A Halliburton. Fracture Growth in Layered and Discontinuous Media	EPA-HQ-OW-2014-0598-0447
SGE00006.A11	He, Zhong, Range Resources. 2011. Flow of Gas and Water in Hydraulically Fractured Shale Gas Reservoirs	EPA-HQ-OW-2014-0598-0447
SGE00006.A12	Cramer, David, ConocoPhillips. 2011. Characterizing Mechanical and Flow Properties using Injection Falloff Tests	EPA-HQ-OW-2014-0598-0447
SGE00006.A13	Byrnes, Alan, Chesapeake Energy Corporation. Role of Induced and Natural Imbibition in Fracturing Fluid Transport and Fate in Gas Shales	EPA-HQ-OW-2014-0598-0447

Table 3. Crosswalk for All Documents Supporting the Proposed Effluent Limitation Guidelines and Standards for the Oil and Gas Extraction Point Source Category

DCN	Citation	EPA Docket Number
SGE00006.A14	Tuck, Denise, Halliburton. 2011. Modeling Versus the Real World of Hydraulic Fracturing.	EPA-HQ-OW-2014-0598-0447
SGE00006.A15	Havics, Andrew, pH2, LLC/QEPA. 2011. Modeling Philosophies and Application	EPA-HQ-OW-2014-0598-0447
SGE00006.A16	Sharma, Manu, Gradient. 2011. Modeling Drinking Water Related Human Health Risks from Hydraulic Fracturing Additives	EPA-HQ-OW-2014-0598-0447
SGE00007	US EPA. 2011. Agenda 4 – Technical Workshop for HF Study	EPA-HQ-OW-2014-0598-0747
SGE00007.A01	How are Appropriate Water Sources for Hydraulic Fracturing Determined? Pre-development Conditions and Management of Development Phase Water Usage	EPA-HQ-OW-2014-0598-0747
SGE00007.A02	Veil, John: Argonne National Laboratory. Water Requirements for Shale Gas Activities in the Marcellus and Fayetteville Shale	EPA-HQ-OW-2014-0598-0747
SGE00007.A03	Godsey, Bill, GeoLogic Envir. Services LLC. Fresh, Brackish or Saline Water for Hydraulic Fracturing? What are the Options?	EPA-HQ-OW-2014-0598-0747
SGE00007.A04	Palmer, Carl et. Al., Idaho National Laboratory. 2011. Water Management Analysis of Hydraulic Fracturing using System Dynamic Models	EPA-HQ-OW-2014-0598-0747
SGE00007.A05	Werline, James, Devon Energy Corporation. 2011. Water Requirements and Sustainable Sources in the Barnett Shale	EPA-HQ-OW-2014-0598-0747
SGE00007.A06	Jean-Philippe Nicot Univ. Texas 2011 Overview of Current and Projected Shale and Tight Gas Water Use in Texas: Implication for Local Water Resources	EPA-HQ-OW-2014-0598-0747
SGE00007.A07	Jester, Stephen, ConocoPhillips. Water Demand and Supply in the Eagle Ford Shale	EPA-HQ-OW-2014-0598-0747
SGE00007.A08	Rao, Vikram, RTEC. 2011. Enabling Fracturing Operations with Zero Fresh Water Withdrawals	EPA-HQ-OW-2014-0598-0747
SGE00007.A09	Welsh, James, LA Off. Of Conserv.. Sustaining Louisiana’s Fresh Water Aquifers – A Case Study in Bringing Community and Industry Together	EPA-HQ-OW-2014-0598-0747
SGE00007.A10	Mantell, Matthew, Chesapeake Energy Corp. 2011. Produced Water Reuse and Recycling Challenges and Opportunities Across Major Shale Plays	EPA-HQ-OW-2014-0598-0747
SGE00007.A11	Minnich, Keith, Talisman Energy Inc. 2011. A Water Chemistry Perspective on Flowback Reuse with Several Case Studies	EPA-HQ-OW-2014-0598-0747
SGE00007.A12	Blauch, Matthew, Superior Well Services. 2011. Shale Frac Sequential Flowback Analyses and Reuse Implications	EPA-HQ-OW-2014-0598-0747
SGE00007.A13	Hayes, T. 2011. Characterization of Marcellus Shale and Barnett Shale Flowback Waters and Technology Development for Water Reuse	EPA-HQ-OW-2014-0598-0747
SGE00007.A14	Tipton, Steven, Newfield Exploration. 2011. Mid-Continent Water Management for Stimulation Operations	EPA-HQ-OW-2014-0598-0747
SGE00007.A15	Hagstrom, Johanna, Halliburton. 2011. Toolbox Available to Treat Flowback and Produced Waters	EPA-HQ-OW-2014-0598-0747
SGE00007.A16	King, George, Apache Corporation. 2011. A Closed Loop System Using a Brine Reservoir to Replace Fresh Water as the Frac Fluid Source	EPA-HQ-OW-2014-0598-0747
SGE00007.A17	Cooper, Jill, EnCana Oil & Gas (USA) Inc. 2011. Williams Fork, Piceance Basin: Flowback Water Reuse – Quality and Quantity	EPA-HQ-OW-2014-0598-0747
SGE00007.A18	Alleman, David, ALL Consulting. 2011. Treatment of Shale Gas Produced Water for Discharge	EPA-HQ-OW-2014-0598-0747

Table 3. Crosswalk for All Documents Supporting the Proposed Effluent Limitation Guidelines and Standards for the Oil and Gas Extraction Point Source Category

DCN	Citation	EPA Docket Number
SGE00007.A19	Xu, Pei, et. Al. Colorado School of Mines. 2011. Novel and Emerging Technologies for Produced Water Treatment	EPA-HQ-OW-2014-0598-0747
SGE00007.A20	GWPC. 2011. Hydraulic Fracturing & Safe Drinking Water. Hydraulic Fracturing Workshop.	EPA-HQ-OW-2014-0598-0747
SGE00007.A21	Havics, Andrew, pH2, LLC/QEPA. 2011. Simple Modeling of the Disposition of Fluids On-Site in a Pit	EPA-HQ-OW-2014-0598-0747
SGE00007.A22	McCurdy, Rick, Chesapeake Energy Corp. Underground Injection Wells for Produced Water Disposal	EPA-HQ-OW-2014-0598-0747
SGE00007.A23	Ziemkiewicz, Paul, WVU. 2011. Wastewater from Gas Development: Chemical Signatures in the Monongahela Basin	EPA-HQ-OW-2014-0598-0747
SGE00009	Gresh, Katy, PADEP. 2011. PADEP Calls on Natural Gas Drillers to Stop Giving Treatment Facilities Wastewater	EPA-HQ-OW-2014-0598-0524
SGE00010	U.S. DOE. Office of Fossil Energy NETL. April 2009.	EPA-HQ-OW-2014-0598-0288
SGE00011	Veil, John A. 2010. Water Mgmt Technologies Used by Marcellus Shale Gas Producers. Prepared by Argonne National Lab. Prepared for U.S. DOE NETL.	EPA-HQ-OW-2014-0598-0292
SGE00013	US EPA/OW. 1988. Ambient Aquatic Life Water Quality Criteria for Chloride	EPA-HQ-OW-2014-0598-0294
SGE00029	US EPA. 2011. EPA Briefing to the SEAB Natural Gas Subcommittee to Examine Fracking Issues. US EPA – ORD.	EPA-HQ-OW-2014-0598-0297
SGE00038	Yoxtheimer, D.; Gaudlip, T. 2010. Answers to Unanswered Questions from Water Use and Water Re-use/Recycling in Marcellus Shale Gas Expl. And Prod.	EPA-HQ-OW-2014-0598-0525
SGE00042	Yoxtheimer, Dave; Gaudlip, Tony. 2010. Water Use and Water Reuse/Recycling in Marcellus Shale Gas Exploration and Production.	EPA-HQ-OW-2014-0598-0545
SGE00046	Abdalla, Charles W. et. Al. 2011. Marcellus Shale Wastewater Issues in PA-Current & Emerging Treatment & Disposal Technologies. Penn State Cooperative	EPA-HQ-OW-2014-0598-0299
SGE00051	Alleman, D. 2011. Water Used for Hydraulic Fracturing: Amounts, Sources, Reuse, and Disposal.	EPA-HQ-OW-2014-0598-0749
SGE00053	Jehn, Paul. 2011. Monitoring Water Quality to Determine Potential Impacts From Hydraulic Fracturing. The Ground Water Protection Council www.gwpc.org	EPA-HQ-OW-2014-0598-0771
SGE00054	Lee, Joseph J. 2011. Hydraulic Fracturing and State Water Quality Monitoring. Groundwater Protection Council.	EPA-HQ-OW-2014-0598-0778
SGE00057	PA DEP. 2011. Chemical Analysis of Residual Waste Annual Report by the Generator.	EPA-HQ-OW-2014-0598-0779
SGE00059	Frantz, Joseph H. Jr. 2011. Marcellus Shale Technology. Range Resources – Appalachia, LLC.	EPA-HQ-OW-2014-0598-0780
SGE00061	Haut, Richard C. 2011. Environmentally Friendly Drilling Systems Program. EFD Systems.	EPA-HQ-OW-2014-0598-0781
SGE00063	U.S.EPA. 2011. Draft Plan to Study the Potential Impacts of Hydraulic Fracturing on Drinking Water Resources. Office of Research and Development.	EPA-HQ-OW-2014-0598-0301
SGE00064	Williams, John. 2011. Marcellus Shale-Gas Development and Water-Resource Issues. USGS: New York Water Science Center.	EPA-HQ-OW-2014-0598-0303
SGE00068	API. 2010. Water Management Associated with Hydraulic Fracturing. American Petroleum Institute (API).	EPA-HQ-OW-2014-0598-0305

Table 3. Crosswalk for All Documents Supporting the Proposed Effluent Limitation Guidelines and Standards for the Oil and Gas Extraction Point Source Category

DCN	Citation	EPA Docket Number
SGE00070	Acharya, Harish; Matis, Hope; Kommepalli, Hareesh; Moore, Brian; Wang, Hua. 2011. Cost Effective Recovery of Low-TDS Frac Flowback Water for Re-use.	EPA-HQ-OW-2014-0598-0307
SGE00071	Veil, J.A. 2007. Trip Report for Field Visit to Fayetteville Shale Gas Wells. Environmental Science Division, Argonne National Laboratory.	EPA-HQ-OW-2014-0598-0792
SGE00074	Hatch. 2011. Real-World Solutions in Fluid Management: Supply, Storage, Treatment, Recycling, and Disposal Workshop.	EPA-HQ-OW-2014-0598-0782
SGE00075	Hatch. 2011. Real-World Solutions in Fluid Management: Supply, Storage, Treatment, Recycling, and Disposal Workshop.	EPA-HQ-OW-2014-0598-0782
SGE00076	Hatch. 2011. Real-World Solutions in Fluid Management: Supply, Storage, Treatment, Recycling, and Disposal Workshop.	EPA-HQ-OW-2014-0598-0784
SGE00078	Salt Water Solutions, LLC. 2011. Frac Water Treatment Process.	EPA-HQ-OW-2014-0598-0785
SGE00081	API. 2009. Environmental Protection for Onshore Oil and Gas Production Operations and Leases.	EPA-HQ-OW-2014-0598-0308
SGE00083	David L. Miller, Stephanie Meadows. 2011. API Introduction and API HF Standards for the Oil and Natural Gas Industry.	EPA-HQ-OW-2014-0598-0786
SGE00086	API. 2009. Hydraulic Fracturing Operations— Well Construction and Integrity Guidelines. API.	EPA-HQ-OW-2014-0598-0309
SGE00088	Zielinski, Robert; Otton, James. 1999. Naturally Occurring Radioactive Materials (NORM) in Produced Water and Oil-Field Equipment.	EPA-HQ-OW-2014-0598-0750
SGE00089	USGS. 2002. USGS Produced Waters Database figures. USGS.	EPA-HQ-OW-2014-0598-0787
SGE00090	NYSDEC. 2011. Suppl. Generic Env. Imp. Statement on Oil, Gas, & Soln. Mining Reg. Prgm. Prelim. Rev. Draft.	EPA-HQ-OW-2014-0598-0310
SGE00091	Rimassa, Shawn; Howard, Paul; Blow, Kristel; Schlumberger. 2009. Optimizing Fracturing Fluids from Flowback Water. Society of Petroleum Engineers.	EPA-HQ-OW-2014-0598-0311
SGE00093	Veil, John et. Al. 2004. A White Paper Describing Produced Water from Production of Crude Oil, Natural Gas, and Coal Bed Methane. By Argonne Nati Lab	EPA-HQ-OW-2014-0598-0312
SGE00095	URS. 2011. Water-Related Issues Associated with Gas Production in the Marcellus Shale. (March 25).	EPA-HQ-OW-2014-0598-0313
SGE00099	Burnett, David. 2006. Advanced Membrane Filtration Technology for Cost Effective Recovery of Fresh Water from Oil & Gas Produced Brine.	EPA-HQ-OW-2014-0598-0314
SGE00100	Brown, Terry. 2009. Produced Water Management and Beneficial Use. Office of Fossil Energy.	EPA-HQ-OW-2014-0598-0315
SGE00102	Fountainquail Wastewater Mgmt. 2011. Marcellus Shale (Pennsylvania/New York). http://www.fountainquail.com/operations/shale/marcellus.html	EPA-HQ-OW-2014-0598-0772
SGE00103	Aqua Technology. An Overview of Deionization Technology. Aqua Technology. http://www.aquatechnology.net/industrial_deionization.html	EPA-HQ-OW-2014-0598-0316
SGE00105	Papso, John. 2010. Cabot Gas Well Treated with 100% Reused Frac Fluid. Cabot Oil and Gas Corp., Superior Well Services, Inc., Kroff Chemicals, Inc..	EPA-HQ-OW-2014-0598-0317

Table 3. Crosswalk for All Documents Supporting the Proposed Effluent Limitation Guidelines and Standards for the Oil and Gas Extraction Point Source Category

DCN	Citation	EPA Docket Number
SGE00108	Siemens. 2011. Total Water Management for the Oil & Gas Industry.. Siemens.	EPA-HQ-OW-2014-0598-0325
SGE00109	Takashi Asano. 2007. Water Reuse: An Integrated Approach to Managing the World's Water Resources.	EPA-HQ-OW-2014-0598-0326
SGE00110	Bruff, Matthew. 2011. An Integrated Water Treatment Technology Solution for Sustainable Water Resource Management in the Marcellus Shale.	EPA-HQ-OW-2014-0598-0723
SGE00110.A01	Bruff, Matthew. 2015. Altela Signed Confidential Release.	EPA-HQ-OW-2014-0598-0723
SGE00111	Barterger, C. 2001. Is there a Basin-Centered Gas Accumulation in the Cotton Valley Group Sandstones, Gulf Coast Basin, U.S.A. USGS.	EPA-HQ-OW-2014-0598-0773
SGE00112	Billingsley, RL. 2005. Identifying and Remediating High Water Production Problems in Basin-Centered Formations. Advanced Resources International, Inc.	EPA-HQ-OW-2014-0598-0793
SGE00114	Van Dyke, Staffan. 2010. Tight Gas Sandstone: Is It Truly Unconventional? Oil & Gas Evaluation Report. (October).	EPA-HQ-OW-2014-0598-0327
SGE00117	Bob Kimball. 2008. Applying Membranes to Produced Water Treatment: High Recovery Reverse Osmosis Treatment Process. CDM.	EPA-HQ-OW-2014-0598-0526
SGE00119	Nelson, Philip. 2009. Gas, Oil, and Water Production from the Wasatch Formation, Greater Natural Buttes Field, Uinta Basin, Uinta Basin, Utah. U.S.	EPA-HQ-OW-2014-0598-0774
SGE00121	Ozobeme, C. 2006. Evaluation of Water Production in Tight Gas Sands in the Cotton Valley Formation in the Caspiana, Elm Grove and Frierson Fields.	EPA-HQ-OW-2014-0598-0527
SGE00124	James Beckman. 2008. Dewvaporation Desalination 5,000-Gallon-Per-Day Pilot Plant.	EPA-HQ-OW-2014-0598-0328
SGE00125	Provaris. Unknown. Process Water Recycling Technologies. http://www.clearwatergroup.org/provaris%20-%20process%20water%20recycling%20technologies.pdf	EPA-HQ-OW-2014-0598-0337
SGE00126	A. Joseph Reed. 2002. Application of Electrodialysis Reversal Process to Remediate a Brine-Impacted Aquifer. ARCADIS G&M Inc..	EPA-HQ-OW-2014-0598-0338
SGE00127	U.S. EPA. 2000. Wastewater Technology Fact Sheet: Chemical Precipitation.	EPA-HQ-OW-2014-0598-0339
SGE00129	Water Research Foundation (WRF). Unknown. Ion Exchange. Simultaneous Compliance Tool.	EPA-HQ-OW-2014-0598-0688
SGE00132	U.S. EPA. 2011. Underground Injection Control Program: Class II Wells—Oil and Gas Related Injection Wells (Class II). Downloaded on 8/31/2011.	EPA-HQ-OW-2014-0598-0341
SGE00133	Brent Means. 2004. Comparison of Three Methods to Measure Acidity of Coal-Mine Drainage.	EPA-HQ-OW-2014-0598-0342
SGE00135	U.S. EPA. 2009. The Next Generation of Tools and Actions to Restore Water Quality in the Chesapeake Bay.	EPA-HQ-OW-2014-0598-0343
SGE00136	U.S. EPA. 2011. Oil and Gas Production Wastes. http://www.epa.gov/radiation/tenorm/oilandgas.html	EPA-HQ-OW-2014-0598-0344
SGE00138	U.S. EPA. 2010. 2010 UIC Well Inventory 2010. Available online at: http://water.epa.gov/type/groundwater/uic/class2/index.cfm	EPA-HQ-OW-2014-0598-0345
SGE00139	Puder, M.G.; Veil, J.A. 2006. Offsite Comm. Disposal of Oil and Gas Exploration and Prod. Waste: Availability, Options, and Costs.	EPA-HQ-OW-2014-0598-0346

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DCN	Citation	EPA Docket Number
SGE00140	All Consulting. 2011. Water Treatment Technology Fact Sheet: Crystallization.	EPA-HQ-OW-2014-0598-0347
SGE00141	All Consulting. 2011. Water Treatment Technology Fact Sheet: Electrodialysis.	EPA-HQ-OW-2014-0598-0349
SGE00142	All Consulting. 2011. Water Treatment Technology Fact Sheet: Ion Exchange.	EPA-HQ-OW-2014-0598-0350
SGE00144	All Consulting. 2011. Water Treatment Technology Fact Sheet: Thermal Evaporation Distillation.	EPA-HQ-OW-2014-0598-0351
SGE00145	Veolia Water. 2011. Technology Data Sheet: MULTIFLO TM Technology, a Transportable Water Treatment Solution for Shale Gas Exploration.	EPA-HQ-OW-2014-0598-0352
SGE00146	Vidic, Radisav D. 2010. Sustainable Water Management for Marcellus Shale Development. University of Pittsburgh.	EPA-HQ-OW-2014-0598-0775
SGE00149	Intervras Technologies, LLC. 2011. EVRAS Evaporation Reduction and Solidification.	EPA-HQ-OW-2014-0598-0354
SGE00153	U.S. Energy Information Administration (EIA). 2011. Lower 48 States Shale Plays. Prepared by EIA Office of Oil and Gas. (May).	EPA-HQ-OW-2014-0598-0355
SGE00155	U.S. Energy Information Administration (EIA). 2010. Tight Sands Gas Plays, Lower 48 States. Prepared by EIA Office of Oil and Gas. (June).	EPA-HQ-OW-2014-0598-0356
SGE00156	Flottweg. 2011. Flottweg Separation Technology.	EPA-HQ-OW-2014-0598-0357
SGE00160	Adams, Andy. 2011. Telephone Communication with Andy Adams, INTEVRAS, and Brent Ruminski, Eastern Research Group Inc. "EVRAS Evaporation Technology."	EPA-HQ-OW-2014-0598-0358
SGE00161	Alexander, Jerry. 2011. Telephone Communication with J. Alexander, Siemens, S. Hays, ERG "Siemens Reverse Osmosis Technology." (September 28).	EPA-HQ-OW-2014-0598-0359
SGE00162	D. Beagle. 2011. Phone Communication with D. Beagle, Drake Water Technologies, and B. Ruminski, ERG. "Higgins Loop Technology." (September 26).	EPA-HQ-OW-2014-0598-0360
SGE00163	Burnett, D. 2011. Telephone Communication with David Burnett, Global Petroleum Research Institute, and Sarah Hays, Eastern Research Group, Inc.	EPA-HQ-OW-2014-0598-0361
SGE00164	Dennis, Rich. 2011. Telephone Communication with Rich Dennis, Severn Trent, and Brent Ruminski, Eastern Research Group, Inc.	EPA-HQ-OW-2014-0598-0372
SGE00165	Drake, Ron. 2011. Telephone Communication with Ron Drake, Drake Water Technologies, and Brent Ruminski, ERG. "Ionflo Technology." (September 26).	EPA-HQ-OW-2014-0598-0373
SGE00166	Walter Weber. 1972. Physicochemical Processes: For Water Quality Control.	EPA-HQ-OW-2014-0598-0528
SGE00167	Metcalf and Eddy, Inc. 2002. Wastewater Engineering: Treatment and Reuse. Fourth edition. McGraw-Hill, Inc.	EPA-HQ-OW-2014-0598-0529
SGE00170	NIOSH. 2005. NIOSH Health Hazard Evaluation Report.	EPA-HQ-OW-2014-0598-0374
SGE00174	US EPA. 2011. Secondary Drinking Water Regulations: Guidance for Nuisance Chemicals.	EPA-HQ-OW-2014-0598-0375
SGE00175	Tom Hayes. 2004. The Electrodialysis Alternative for Produced Water Management. Gas Technology Institute.	EPA-HQ-OW-2014-0598-0376
SGE00177	John Crittenden. 2005. Water Treatment: Principles and Design. John Wiley & Sons, Inc..	EPA-HQ-OW-2014-0598-0530

Table 3. Crosswalk for All Documents Supporting the Proposed Effluent Limitation Guidelines and Standards for the Oil and Gas Extraction Point Source Category

DCN	Citation	EPA Docket Number
SGE00178	American Water Works Association (AWWA). 2005. Water Quality & Treatment: A Handbook of community Water Supplies. McGraw-Hill.	EPA-HQ-OW-2014-0598-0546
SGE00179	Keenan, Charles W. and Jesse H. Wood. General College Chemistry. Chapter 14 Nuclear Changes. Harper & Row Publishers, Inc., New York. 1971.	EPA-HQ-OW-2014-0598-0448
SGE00182	Clark, C.E.; Veil, J.A. 2009. Produced Water Volumes and Management Practices in the United States. ANL/EVS/R-09/1. Argonne National Laboratory.	EPA-HQ-OW-2014-0598-0377
SGE00185	US EPA. 2011. Drinking Water Treatment Wastes. Available online at: http://www.epa.gov/rpdweb00/tenorm/drinking-water.html	EPA-HQ-OW-2014-0598-0378
SGE00187	Pennsylvania Code. 2010. Title 25: Environmental Protection. Chapter 95: Wastewater Treatment Requirements. (August). Available online	EPA-HQ-OW-2014-0598-0379
SGE00188	O'Connell, James, ERG.2014. Pennsylvania Department of Environmental Protection's (PA DEP) Statewide Oil and Gas Waste Reports. (December)	EPA-HQ-OW-2014-0598-0751
SGE00188.A01	PA Dept. of Env. Protection. 2014. Statewide Data Downloads by Reporting Period – Attach. 1: Jan-Jun 2014 Waste (Unconventional wells). (Dec. 22).	EPA-HQ-OW-2014-0598-0751
SGE00188.A02	PA Dept. of Env. Protection. 2014. Statewide Data Downloads by Reporting Period – Attachment 2: Jan-Dec 2013 Waste (Conventional wells). (Dec. 22).	EPA-HQ-OW-2014-0598-0751
SGE00188.A03	PA Dept. of Env. Protection. 2014. Statewide Data Downloads by Reporting Period – Attachment 3: Jan-Jun 2013 Waste (Unconventional wells). (Dec. 22).	EPA-HQ-OW-2014-0598-0751
SGE00188.A04	PA Dept. of Env. Protection. 2014. Statewide Data Downloads by Reporting Period – Attachment 4: Jul-Dec 2013 Waste (Unconventional wells). (Dec. 22).	EPA-HQ-OW-2014-0598-0751
SGE00188.A05	PA Dept. of Env. Protection. 2014. Statewide Data Downloads by Reporting Period – Attachment 5: Jan-Dec 2012 Waste (Conventional wells). (Dec. 22).	EPA-HQ-OW-2014-0598-0751
SGE00188.A06	PA Dept. of Env. Protection. 2014. Statewide Data Downloads by Reporting Period – Attachment 6: Jan-Jun 2012 Waste (Unconventional wells). (Dec. 22).	EPA-HQ-OW-2014-0598-0751
SGE00188.A07	PA Dept. of Env. Protection. 2014. Statewide Data Downloads by Reporting Period – Attachment 7: Jul-Dec 2012 Waste (Unconventional wells). (Dec. 22).	EPA-HQ-OW-2014-0598-0751
SGE00188.A08	PA Dept. of Env. Protection. 2014. Statewide Data Downloads by Reporting Period-Att. 8: Jan-Dec 2011 Waste (Annual O&G, without Marcellus). (Dec 22).	EPA-HQ-OW-2014-0598-0751
SGE00188.A09	PA Dept. of Env. Protection. 2014. Statewide Data Downloads by Reporting Period – Att. 9: Jan-Jun 2011 Waste (Marcellus Only, 6 months). (Dec. 22).	EPA-HQ-OW-2014-0598-0751
SGE00188.A10	PA Dept. of Env. Protection. 2014. Statewide Data Downloads by Reporting Period – Att. 10: Jul-Dec 2011 Waste (Marcellus Only, 6 months). (Dec. 22).	EPA-HQ-OW-2014-0598-0751
SGE00188.A11	PA Dept. of Env. Protection. 2014. Statewide Data Downloads by Reporting Period-Att. 11: Jan-Dec 2010 Waste (Annual O&G, w/o Marcellus). (Dec 22).	EPA-HQ-OW-2014-0598-0751

Table 3. Crosswalk for All Documents Supporting the Proposed Effluent Limitation Guidelines and Standards for the Oil and Gas Extraction Point Source Category

DCN	Citation	EPA Docket Number
SGE00188.A12	PA Dept. of Env. Protection. 2014. Statewide Data Downloads by Reporting Period – Att. 12: Jul-Dec 2010 Waste (Marcellus Only, 6 months). (Dec. 22).	EPA-HQ-OW-2014-0598-0751
SGE00188.A13	PA Dept. of Env. Protection. 2014. Statewide Data Downloads by Reporting Period-Att. 13: Jul 2009-Jun 2010 Waste (Marcellus Only, 12 mos.). (Dec 22).	EPA-HQ-OW-2014-0598-0751
SGE00188.A14	PA Dept. of Env. Protection. 2014. Statewide Data Downloads by Reporting Period-Att. 14: Jan-Dec 2009 Waste (Annual O&G, with Marcellus). (Dec. 22).	EPA-HQ-OW-2014-0598-0751
SGE00188.A15	PA Dept. of Env. Protection. 2014. Statewide Data Downloads by Reporting Period-Att. 15: Jan-Dec 2008 Waste (Annual O&G, with Marcellus). (Dec. 22).	EPA-HQ-OW-2014-0598-0751
SGE00188.A16	PA Dept. of Env. Protection. 2014. Statewide Data Downloads by Reporting Period-Att. 16: Jan-Dec 2007 Waste (Annual O&G, with Marcellus). (Dec. 22).	EPA-HQ-OW-2014-0598-0751
SGE00188.A17	PA Dept. of Env. Protection. 2014. Statewide Data Downloads by Reporting Period-Att. 17: Jan-Dec 2006 Waste (Annual O&G, with Marcellus). (Dec. 22).	EPA-HQ-OW-2014-0598-0751
SGE00188.A18	PA Dept. of Env. Protection. 2014. Statewide Data Downloads by Reporting Period-Att. 18: Jan-Dec 2005 Waste (Annual O&G, with Marcellus). (Dec. 22).	EPA-HQ-OW-2014-0598-0751
SGE00188.A19	PA Dept. of Env. Protection. 2014. Statewide Data Downloads by Reporting Period-Att. 19: Jan-Dec 2004 Waste (Annual O&G, with Marcellus). (Dec. 22).	EPA-HQ-OW-2014-0598-0751
SGE00188.A20	PA Dept. of Env. Protection. 2014. Statewide Data Downloads by Reporting Period-Att. 20: Jan-Dec 2003 Waste (Annual O&G, with Marcellus). (Dec. 22).	EPA-HQ-OW-2014-0598-0751
SGE00188.A21	PA Dept. of Env. Protection. 2014 Statewide Data Downloads by Reporting Period-Att. 21: Jan-Dec 2002 Waste (Annual O&G, with Marcellus). (Dec. 22).	EPA-HQ-OW-2014-0598-0751
SGE00188.A22	PA Dept. of Env. Protection. 2014. Statewide Data Downloads by Reporting Period-Att. 22: Jan-Dec 2001 Waste (Annual O&G, with Marcellus). (Dec. 22).	EPA-HQ-OW-2014-0598-0751
SGE00188.A23	PA Dept. of Env. Protection. 2014. Statewide Data Downloads by Reporting Period-Att. 23: Jan-Dec 2000 Waste (Annual O&G, with Marcellus). (Dec. 22).	EPA-HQ-OW-2014-0598-0751
SGE00189	General Electric (GE). 2011. Chapter 07—Precipitation Softening, GE Power and Process Technologies	EPA-HQ-OW-2014-0598-0380
SGE00195	US EPA. 2000. Development Document for Effluent Limitation Guidelines and Standards for the Centralized Waste Treatment Industry EPA 821-R-00-020.	EPA-HQ-OW-2014-0598-0449
SGE00197	U.S. EPA. 2004. Technical Support Document for the 2004 Effluent Guidelines Program Plan. U.S. EPA.	EPA-HQ-OW-2014-0598-070
SGE00198	U.S. EPA. 2008. Technical Support Document for the 2008 Effluent Guidelines Program Plan.	EPA-HQ-OW-2014-0598-0381
SGE00199	U.S. EPA. 2004. NPDES Glossary.	EPA-HQ-OW-2014-0598-0382
SGE00200	Hart Resource Technologies. 2009. Handling and treatment of brine and hydraulic fracturing fluids produced by natural gas and oil wells..	EPA-HQ-OW-2014-0598-0531

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DCN	Citation	EPA Docket Number
SGE00213	Robert Lestz. 2011. Waterless Fracturing Technology. GasFrac Energy Services.	EPA-HQ-OW-2014-0598-0532
SGE00225	ALL Consulting. 2011. Shale Gas Produced Water Treatment Catalog. DOE Contractor. http://www.all-llc.com/projects/produced_water_tool/page.php?14	EPA-HQ-OW-2014-0598-0383
SGE00227	Mertz, Barry. 2011. Telephone Communication with Barry Mertz, 212 Resource Corporation, and Brent Ruminski, Eastern Research Group, Inc.	EPA-HQ-OW-2014-0598-0384
SGE00228	Roman., Jaime. 2011. Telephone Communication with J. Roman, Fountain Quail, and B. Ruminski. ERG. "Fountain Quail Nomad Evaporator." (October 26)	EPA-HQ-OW-2014-0598-0385
SGE00230	Wilson, M. 2011. Telephone Communication with M. Wilson, GE, and B. Ruminski, ERG. "GE Power and Water: Wastewater Treatment Technologies." Nov 10	EPA-HQ-OW-2014-0598-0386
SGE00234	Silva James et. Al. 2011. NORM Removal from Hydrofracturing Water. GE Global Research Center	EPA-HQ-OW-2014-0598-0387
SGE00236	Bethany Kurz. 2011. Evaluation of Brackish Groundwater Treatment for Use in Hydraulic Fracturing of the Bakken Play, ND.	EPA-HQ-OW-2014-0598-0766
SGE00238	William Shaw. 2011. The Real Cost of ZLD for Shale Gas Frac Water in the Marcellus Shale Play. HPD, LLC	EPA-HQ-OW-2014-0598-0388
SGE00239	Hefley, William, et al. 2011. The Economic Impact of the Value Chain of a Marcellus Shale Well. University of Pittsburgh. (August)	EPA-HQ-OW-2014-0598-0405
SGE00241	Rowan, E.L., et al. 2011. Radium content of oil and gas field prod waters in the nrthrn App Basin. USGS Scientific Investigations Report 2011-5135.	EPA-HQ-OW-2014-0598-0406
SGE00242	Hayes, Thomas. 2009. Sampling & Analysis of Water Streams Association with the Development of Marcellus Shale Gas. GTI, Marcellus Shale Coalition.	EPA-HQ-OW-2014-0598-0776
SGE00243	All Consulting. 2010. NYSDEC SGEIS Information Requests. NYSDEC, Independent Oil and Gas Association of New York.	EPA-HQ-OW-2014-0598-0788
SGE00244	ERG. 2012. Camp, Meghan; Bicknell, Betsy; Ruminski, Brent. Notes on Conference Call with 212 Resources on 4 January 2012. (January 9)	EPA-HQ-OW-2014-0598-0470
SGE00245	ERG. 2012. Camp, Meghan et. Al. Notes on Conference Call with Reserved Environmental Services, LLC on 5 January 2012. (February 1)	EPA-HQ-OW-2014-0598-0450
SGE00249	U.S. EPA. 2011. Introduction to the National Pretreatment Program. EPA 833-B-11-001. (June)	EPA-HQ-OW-2014-0598-0408
SGE00252	West Virginia Department of Environmental Protection (WV DEP). 2010. Salt Brine from Gas Wells Agreement. Division of Highway. (July)	EPA-HQ-OW-2014-0598-0409
SGE00254	MI DEQ. 2006. MI Oil and Gas Regulations: Natural Resources and Environmental Protection Act—No. 451 of the Public Acts of 1994. (April)	EPA-HQ-OW-2014-0598-0410
SGE00255	Pennsylvania Department of Environmental Protection (PA DEP). 2011. Roadspreading of Brine for Dust Control and Road Stabilization. (July).	EPA-HQ-OW-2014-0598-0533
SGE00261	John Kiernan. 1998. Selection of EDR Desalting Technology Rather Than MF/RO for the City of San Diego Water Reclamation Project. General Electric	EPA-HQ-OW-2014-0598-0411

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DCN	Citation	EPA Docket Number
SGE00264	CO School of Mines. 2009. An Integrated Framework for Treatment & Mgmt of Produced Water: Technical Assessment of Produced Water Trtmnt Technologies	EPA-HQ-OW-2014-0598-0412
SGE00265	Hanson, Paul, P.E.. 2010. Memorandum to Public Record: Subject, Ion Exchange for Produced Water Treatment	EPA-HQ-OW-2014-0598-0413
SGE00267	Water Technology Brief #2008-1: Thermal Distillation Technology for Management of Produced Water and Frac Flowback Water. EPA-HQ-OW-2006-0771-1333.	EPA-HQ-OW-2014-0598-0534
SGE00268	Advanced Resources International, Inc.. 2006. The Economics of Powder River Basin Coalbed Methane Development. EPA-HQ-OW-2004-0032-2451	EPA-HQ-OW-2014-0598-0414
SGE00269	U.S. Geological Survey. 2000. Water co-produced with coalbed methane in the Powder River Basin, WY: preliminary compositional data. 00-372	EPA-HQ-OW-2014-0598-0415
SGE00271	Drake Water Technologies, LLC. 2007. Drake Process Technology Scope and Pricing Summary Based on Na+ Removal – Calendar Year 2007	EPA-HQ-OW-2014-0598-0416
SGE00273	Camp, Meghan.. 2012. Marcellus Initiative: 2012 Shale Gas Water Management Conference Materials. Eastern Research Group, Inc..	EPA-HQ-OW-2014-0598-0761
SGE00273.A01	Rick McCurdy. 2012. The What, Why, Which and How of Water Reclamation in the Marcellus Shale. Chesapeake Energy.	EPA-HQ-OW-2014-0598-0761
SGE00273.A02	Heath Auman. 2012. Examining How WPX Energy Has Successfully Located Water Sources and Cost Effectively Attained Freshwater for Fracing. WPX Energy.	EPA-HQ-OW-2014-0598-0761
SGE00273.A03	William Muszynski. 2012. Article 7 Natural Gas Rule. Delaware River Basin Commission.	EPA-HQ-OW-2014-0598-0761
SGE00273.A04	Paula Ballaron. 2012. Regulating Shale Gas Development in the Susquehanna River Basin–What’s New?. Susquehanna River Basin Commission.	EPA-HQ-OW-2014-0598-0761
SGE00273.A05	James Elliott. 2012. How to Get the Water You Need. Spilman Thomas & Battle, PLLC.	EPA-HQ-OW-2014-0598-0761
SGE00273.A06	Peter Tennant. 2012. Water Management in the Ohio River Basin. ORSANCO.	EPA-HQ-OW-2014-0598-0761
SGE00273.A07	Crescent Services, LLC. 2012. Marcellus Shale Erosion, Sediment & Stormwater Best Management Practices Compliance & Reporting. Crescent Services, LLC.	EPA-HQ-OW-2014-0598-0761
SGE00273.A08	Christie Webb. 2012. Marcellus Water Beneficial Reuse Strategy. Talisman Energy USA, Inc..	EPA-HQ-OW-2014-0598-0761
SGE00273.A09	Scott Tucker. 2012. On-site Field Analysis of Hydraulic Fracturing Flowback and Produced Waters. Hach Company.	EPA-HQ-OW-2014-0598-0761
SGE00273.A10	Joeseph Tinto. 2012. Flowback and Produced Water Treatment Overview: Thermal Solutions for Shale Gas Wastewaters. GE Power & Water.	EPA-HQ-OW-2014-0598-0761
SGE00273.A11	Dean Ritts. 2012. Re-use: Treatment Technologies. Worley Parsons Resources and Energy.	EPA-HQ-OW-2014-0598-0761
SGE00273.A12	Tekla Taylor. 2012. Strategic Decision-Making for Water Management Applied to Unconventional Gas. Golder Associates.	EPA-HQ-OW-2014-0598-0761
SGE00273.A13	Keith Minnich. 2012. Project to Develop Flowback Water Reuse Guidelines for Hydraulic Fracturing Operations. Talisman Energy, Inc..	EPA-HQ-OW-2014-0598-0761

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DCN	Citation	EPA Docket Number
SGE00273.A14	Rick McCurdy. 2012. Chemical Additives and GreenFrac™ Overview. Chesapeake Energy.	EPA-HQ-OW-2014-0598-0761
SGE00273.A15	Matthew Peloquin. 2012. Trucking, Piping: a Comprehensive Approach to Water Transportation. Anadarko Petroleum Corporation.	EPA-HQ-OW-2014-0598-0761
SGE00273.A16	Charles Kieth. 2012. Questions about Water Tracking for Marcellus Producers. H2O Resources LLC.	EPA-HQ-OW-2014-0598-0761
SGE00273.A17	Wilson, R. 2012. Evaluating Water Storage Options Available & How They Can be Integrated Into the Overall Logistical Water Framework.	EPA-HQ-OW-2014-0598-0761
SGE00273.A18	Doug Kepler. 2012. Shale Gas Water Management. Seneca Resources.	EPA-HQ-OW-2014-0598-0761
SGE00273.A19	Gary Slagel. Regulatory Update. CONSOL Energy.	EPA-HQ-OW-2014-0598-0761
SGE00273.A20	Brill Burket. 2012. Minimizing Risk with Water Storage and Transportation. Range Resources.	EPA-HQ-OW-2014-0598-0761
SGE00273.A21	Jim Kline. 2012. Examining The Regulations and Restrictions Set by the DEP to Determine the Operational Feasibility of Disposal. PA DEP.	EPA-HQ-OW-2014-0598-0761
SGE00274	US EPA. 2012. Site Visit Report Chesapeake Energy Corporation Marcellus Shale Gas Operations Sanitized.	EPA-HQ-OW-2014-0598-0799
SGE00274.A01	Chesapeake Energy. 2012. Natural Gas and Oil Overview.	EPA-HQ-OW-2014-0598-0799
SGE00274.A02	Chesapeake Energy. 2012. PowerPoint Presentation of all Site Visit Pictures - Chesapeake_CBI.	EPA-HQ-OW-2014-0598-0799
SGE00275	U.S. EPA. 2012. Site Visit Report: Citrus Energy Corporation Marcellus Shale Gas Operations. (January 22).	EPA-HQ-OW-2014-0598-0535
SGE00276	U.S. EPA. 2012. Meeting with XTO Energy, Inc. about Unconventional Oil and Gas Sanitized.	EPA-HQ-OW-2014-0598-0659
SGE00279	U.S. EPA. 2012. Meeting Summary: Conference Call with North Star Disposal, Inc Regarding Underground Injection Operations in Ohio. (July 2).	EPA-HQ-OW-2014-0598-0536
SGE00280	U.S. EPA. 2013. Site Visit Report: Anadarko Petroleum Corporation Marcellus Shale Gas Operations. (January 9).	EPA-HQ-OW-2014-0598-0537
SGE00283	ERG. 2012. Camp, Meghan; Ruminski, Brent. Notes on Conference Call with BLX, Inc on 15 May 2012. (June 11).	EPA-HQ-OW-2014-0598-0538
SGE00284	Hayes, Thomas et al. 2012. Barnett and Appalachian Shale Water Management and Reuse Technologies. RPSEA	EPA-HQ-OW-2014-0598-0417
SGE00285	Silva, 2012. Produced Water Pretreatment for Water Recovery and Salt Production. (January 26).	EPA-HQ-OW-2014-0598-0418
SGE00286	Hammer, R. et. Al. 2012. In Fracking's Wake: New Rules Are Needed to Protect Our Health and Environment from Contaminated Wastewater. NRDC D:12-05-A	EPA-HQ-OW-2014-0598-0419
SGE00287	US EPA. 2012. Talisman Meeting Notes.	EPA-HQ-OW-2014-0598-0547
SGE00288	US EPA. 2012. Site Visit Report Chesapeake Energy Corporation Marcellus Shale Gas Operations.	EPA-HQ-OW-2014-0598-0664
SGE00288.A01	Chesapeake Energy. 2012. Natural Gas and Oil Overview	EPA-HQ-OW-2014-0598-0664
SGE00288.A02	Chesapeake Energy. 2012. PowerPoint Presentation of all Site Visit Pictures – Chesapeake_CBI	EPA-HQ-OW-2014-0598-0664

Table 3. Crosswalk for All Documents Supporting the Proposed Effluent Limitation Guidelines and Standards for the Oil and Gas Extraction Point Source Category

DCN	Citation	EPA Docket Number
SGE00289	US EPA, 2012. Meeting with XTO Energy, Inc. about Unconventional Oil and Gas. (July 18).	EPA-HQ-OW-2014-0598-0660
SGE00291	Shires, Terrie; Lev-on, Mairiam. 2012. Characterizing Pivotal Sources of Methane Emissions from Natural Gas Production.	EPA-HQ-OW-2014-0598-0420
SGE00294	USEPA. 2012. Compilation of Publicly Available Sources of Voluntary Mgmt Practices for O&G E&P Wastes As They Address Pits, Tanks, & Land Application.	EPA-HQ-OW-2014-0598-0789
SGE00295	Warren Water Pollution Control Facility. 2011. Fact Sheet for NPDES Permit Renewal, Warren Water Pollution Control Facility, 2011–2012	EPA-HQ-OW-2014-0598-0421
SGE00298	Brent Ruminski. 3 rd Water Management for Shale Plays Conference Materials. ERG.	EPA-HQ-OW-2014-0598-0548
SGE00298.A01	Charles Kozora. 2012. Treatment of Coal Mine Drainage (CMD) for Beneficial Reuse. Aquatech.	EPA-HQ-OW-2014-0598-0548
SGE00298.A02	Graig Wilson. 2012. Water Acquisition and Wastewater Disposal in Ohio’s Utica Shale Plays. K&L Gates.	EPA-HQ-OW-2014-0598-0548
SGE00298.A03	Dale Skoff. 2012. Disposal Wells: An Assessment of Available Wells and Facilities 3 rd Water Management for Shale Plays. Tetra Tech.	EPA-HQ-OW-2014-0598-0548
SGE00298.A04	Dean Ritts. 2012. Air Pollution Emissions at Flowback/Produced Wastewater Treatment Plants. Worley Parsons.	EPA-HQ-OW-2014-0598-0548
SGE00298.A05	Ashwin Dhanasekar. 2012. Assessing Specific Shale Plays – Niobrara. Colorado State University.	EPA-HQ-OW-2014-0598-0548
SGE00298.A06	Alan Eichler. 2012. Unknown Title. PA DEP, Oil and Gas Division.	EPA-HQ-OW-2014-0598-0548
SGE00298.A07	Frank Zamora. 2012. Water Management Strategy. Trican.	EPA-HQ-OW-2014-0598-0548
SGE00298.A08	Stephen Hughes. 2012. Assessing Specific Shale Plays Utica Play. Tetra Tech.	EPA-HQ-OW-2014-0598-0548
SGE00298.A09	Jason Heath. 2012. Marcellus and Utica Shale Plays: Water Issues in the Ohio River Basin. ORSANCO.	EPA-HQ-OW-2014-0598-0548
SGE00298.A10	James Landenberger. 2012. Water Issues Related to the Bakken in North Dakota. Barlett & West.	EPA-HQ-OW-2014-0598-0548
SGE00298.A11	Tom Lewis. 2012. Production and Frac Water Recycling Trends and Future Requirements. Lewis Environmental.	EPA-HQ-OW-2014-0598-0548
SGE00298.A12	Matthew Bruff. 2012. AltelaRain. Altela, Inc..	EPA-HQ-OW-2014-0598-0548
SGE00298.A13	Drew Poeckes. 2012. Transporting and Storing Water for Hydraulic Fracturing. West Dakota Water, LLC.	EPA-HQ-OW-2014-0598-0548
SGE00298.A14	Ryan Mastowski. 2012. Maximizing Efficiency and Safety When Moving Water. RFI.	EPA-HQ-OW-2014-0598-0548
SGE00298.A15	Sam Eltom. 2012. The application of Chlorine dioxide in Frac Water Treatment Using Multi Stream Reuse Water Sources. Sabre Energy Services, LLC.	EPA-HQ-OW-2014-0598-0548
SGE00298.A16	Gary E. Slagel. 2012. Statutory and Regulatory Review Pennsylvania, West Virginia, and Ohio. Consol Energy, Inc..	EPA-HQ-OW-2014-0598-0548
SGE00298.A17	Don Warlick. 2012. Water Management for Shale Plays An Overview of the Bakken Shale. Warlick Energy.	EPA-HQ-OW-2014-0598-0548
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SGE00298.A20	212 Resources. N.d. Presentation at a Technical Conference (No Title).	EPA-HQ-OW-2014-0598-0548
SGE00298.A21	Ron Pettengill. Innovative Water Management Strategies for Future Marcellus Development. Epiphany Solar Systems.	EPA-HQ-OW-2014-0598-0548
SGE00298.A22	Jonathan Hoopes. 2012. Storing Water On-site to Reduce Transportation Costs and Maximize Efficiencies. Greenhunter Energy, Inc..	EPA-HQ-OW-2014-0598-0548
SGE00298.A23	Robie Cathey. 2012. Ecosphere. Ecosphere Tech.	EPA-HQ-OW-2014-0598-0548
SGE00298.A24	Johan Themaat. 2012. Water Infrastructure Versus Mobile Options for Treating and Disposing Fracking and Produced Water. High Sierra Water Services.	EPA-HQ-OW-2014-0598-0548
SGE00299	U.S. EPA. 2012. Site Visit Report: US Gas Field Fluids Management (formerly Clean Streams) Marcellus Shale Gas Operations. (October 9).	EPA-HQ-OW-2014-0598-0539
SGE00300	U.S. EPA. 2012. Site Visit Report: Eureka Resources, LLC Marcellus Shale Gas Operations. (February 25).	EPA-HQ-OW-2014-0598-0540
SGE00305	Brent Ruminski. 2012 Tight Oil Water Management Summit Conference Materials. ERG.	EPA-HQ-OW-2014-0598-0560
SGE00305.A01	Sheffield, T. 2012. How Operators Are Implementing Comprehensive Water Mgmt Systems From Transport To Trmt To Re-Use To Save Millions On Wells Costs.	EPA-HQ-OW-2014-0598-0560
SGE00305.A02	McKimmy, M. 2012. Analyzing How Produced Water Reacts with Frac Fluids to Asses it's Compatibility with the Fluid and Formation. Hess Corporation.	EPA-HQ-OW-2014-0598-0560
SGE00305.A03	Cheung, Timothy. 2012. Identifying the Recycling and Treatment Criteria That Must be Met to Avoid Scaling and Enable Successful Reuse. Shell.	EPA-HQ-OW-2014-0598-0560
SGE00305.A04	Anthony Smith. 2012. Water Re-Use: No Silver Bullets. Pioneer Natural Resources.	EPA-HQ-OW-2014-0598-0560
SGE00305.A05	Dave Yoxtheimer. 2012. Flowback Treatment and Reuse Strategies for Tight Oil Formations. Penn State Marcellus Center for Outreach and Research.	EPA-HQ-OW-2014-0598-0560
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SGE00305.A07	Aaron Horn. 2012. Comparing the Latest Innovations in Treatment Technology Based on Water Quality and Cost per Barrel. Hydrozonix.	EPA-HQ-OW-2014-0598-0560
SGE00305.A08	Steve Tipton. 2012. Examining Water Storage Options to Improve Efficiencies and Minimize Costs in Fracturing Operations. Newfield Exploration Company.	EPA-HQ-OW-2014-0598-0560
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SGE00306.A02	Mark Galimberti. 2012. Treatment of Flowback – Shale Plays. New Logic Research.	EPA-HQ-OW-2014-0598-0693
SGE00306.A03	Chuck Kozora. 2012. Field Operation Results for Treatment of Frac Water with AquaTech’s MoVap a Mobile Industrial Distillation. AquaTech.	EPA-HQ-OW-2014-0598-0693
SGE00306.A04	James Silva. 2012. Shale Gas Produced Water Pretreatment for Barium and Radium Removal. GE Global Research Center.	EPA-HQ-OW-2014-0598-0693
SGE00306.A05	Timothy S. Keizer. 2012. Opportunities for Treatment and Reuse of Acid Mine Drainage and Produced Water in Oil and Gas Shale. An Ecolab Company.	EPA-HQ-OW-2014-0598-0693
SGE00306.A06	Timothy Keister. 2012. Sequential Precipitation – Fractional Crystallization Treatment of Marcellus Shale Flowback and Production Wastewaters.	EPA-HQ-OW-2014-0598-0693
SGE00310	Brent Ruminski. 2012. 2012 Shale Gas Water Management Conference Notes. ERG.	EPA-HQ-OW-2014-0598-0720
SGE00310.A01	PA DEP Oil and Gas Management	EPA-HQ-OW-2014-0598-0720
SGE00310.A02	Slagel, Gary. PA DEP Oil and Gas Management	EPA-HQ-OW-2014-0598-0720
SGE00310.A03	Orsanco. PA DEP Oil and Gas Management	EPA-HQ-OW-2014-0598-0720
SGE00310.A04	Lewis. Production & Frac Water Recycling Trends and Future Requirements	EPA-HQ-OW-2014-0598-0720
SGE00310.A05	Wilson. Production & Frac Water Recycling Trends and Future Requirements	EPA-HQ-OW-2014-0598-0720
SGE00310.A06	Hughes. 2012. Production & Frac Water Recycling Trends and Future Requirements	EPA-HQ-OW-2014-0598-0720
SGE00310.A07	Warlick. 2012. Production & Frac Water Recycling Trends and Future Requirements	EPA-HQ-OW-2014-0598-0720
SGE00310.A08	Landenberger. 2012. Water Issues Relative to the Bakken in North Dakota	EPA-HQ-OW-2014-0598-0720
SGE00310.A09	Warlick. 2012. Water Management for Shale Plays An Overview of the Niobrara Shale	EPA-HQ-OW-2014-0598-0720
SGE00310.A10	Dhanasekar, Carlson. Assessing Specific Plays – Niobrara	EPA-HQ-OW-2014-0598-0720
SGE00310.A11	Shale Water Conference	EPA-HQ-OW-2014-0598-0720
SGE00310.A12	212 Resources	EPA-HQ-OW-2014-0598-0720
SGE00310.A13	Pettengil, Owsiany. Innovative Water Strategies for Marcellus Development	EPA-HQ-OW-2014-0598-0720
SGE00310.A14	Zamora. Water Management Strategy Recycling Water	EPA-HQ-OW-2014-0598-0720
SGE00310.A15	Storing Water On-Site to Reduce Transportation Costs and Maximize Efficiencies Inforcast 3 rd Water Management for Shale Plays	EPA-HQ-OW-2014-0598-0720
SGE00310.A16	Bruff, Matthew. 2012. 3 rd Water Management for Shale Plays	EPA-HQ-OW-2014-0598-0720

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DCN	Citation	EPA Docket Number
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SGE00310.A18	Sabre Energy Services, LLC. 2012. The Application of Chlorine Dioxide in Frac Water Treatment Using Multi Stream Re-use Water Sources	EPA-HQ-OW-2014-0598-0720
SGE00310.A19	Ritts. Air Pollutant Emissions at Flowback/Produced Wastewater Treatment Plants	EPA-HQ-OW-2014-0598-0720
SGE00310.A20	Aquatech International. Treatment of Coal Mine Drainage (CMD) for Beneficial Reuse A Case Study on the Gilberton Power Plant	EPA-HQ-OW-2014-0598-0720
SGE00310.A21	Mastowski. 2012. Maximizing Efficiency and Safety When Moving Water	EPA-HQ-OW-2014-0598-0720
SGE00310.A22	High Sierra Energy. 2012. Water Infrastructure versus Mobile Options for Treating and Disposing Water	EPA-HQ-OW-2014-0598-0720
SGE00310.A23	Skoff. 2012. The Tutorial Disposal Wells: An Assesment of Available Wells and Facilities	EPA-HQ-OW-2014-0598-0720
SGE00310.A24	Poeckes. Transporting and Storing Water for Hydraulic Fracturing	EPA-HQ-OW-2014-0598-0720
SGE00311	Brent Ruminski. 2012. 2012 Shale Gas Water Management Conference Materials. ERG.	EPA-HQ-OW-2014-0598-0608
SGE00311.A01	Walter Dale. 2012. Sustainable Development of Completions. Haliburton Water Solutions.	EPA-HQ-OW-2014-0598-0608
SGE00311.A02	Roy Walter. 2012. Improved control of SRB's in Hydraulic Fracture Fluid Using Chlorine Dioxide. Dupont.	EPA-HQ-OW-2014-0598-0608
SGE00311.A03	Aaron Horn. 2012. Examining Techniques and Chemistries For Managing Bacteria, Scaling And Corrosion. Hydrozonix.	EPA-HQ-OW-2014-0598-0608
SGE00311.A04	Kuijvenhoven, C. 2012. Examining Innovative Prim. Trmt Tech for Removing HC and Solids from FB and PW When Residual Polymer is Present for UOG Prod.	EPA-HQ-OW-2014-0598-0608
SGE00311.A05	Joeseph Tinto. 2012. Recycling Economics: Flowback & Produced Water Treatment Overview. GE Power & Water.	EPA-HQ-OW-2014-0598-0608
SGE00311.A06	Schilling, D. 2012. Develop a water delivery and recycle sys to support LINN Energy's Granite Wash Horiz frac prog in Wheeler & Hemphill County, TX.	EPA-HQ-OW-2014-0598-0608
SGE00311.A07	Michael Dunkel. 2012. The Economics of Water Management. Pioneer Natural Resources.	EPA-HQ-OW-2014-0598-0608
SGE00311.A08	Julie Cunningham. 2012. Regulatory Update— Oklahoma Water Rights Permitting and Water Planning. Oklahoma Water Resources Board.	EPA-HQ-OW-2014-0598-0608
SGE00311.A09	White, K. 2012. Best Practices for Preventing and Monitoring Spills and Leaks From Frac Water Containments to Avoid Surface Damage. Chaparral Energy.	EPA-HQ-OW-2014-0598-0608
SGE00311.A10	Merril, L. 2012. An Evaluation of Current Water Issues in UOG And Best Practices to Reduce Costs & Improve Productivity in Flowback & Produced Water.	EPA-HQ-OW-2014-0598-0608
SGE00311.A11	Kalpakci, B. 2012. Compatibility of Produced and Flowback Water With Various Fracturing Chemicals-Completion Fluid Design.	EPA-HQ-OW-2014-0598-0608
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SGE00320	US EPA. 2012. Study of the Potential Impacts of Hydraulic Fracturing on Drinking Water Resources. EPA 601/R-12011	EPA-HQ-OW-2014-0598-0451
SGE00321	J. DANIEL ARTHUR. 2011. Water Management Planning in the Eagle Ford Shale Play. ALL CONSULTING	EPA-HQ-OW-2014-0598-0423
SGE00329	City of Fort Worth. Salt Water Disposal Terms and Data	EPA-HQ-OW-2014-0598-0424
SGE00330	Energy Information Administration (EIA). 2011. Review of Emerging Resources: U.S. Shale Gas and Shale Oil Plays	EPA-HQ-OW-2014-0598-0425
SGE00331	Ely, John W., et al. 2011. Game Changing Technology for Treating and Recycling Frac Water. Society of Petroleum Engineering. SP SPE-214545-PP	EPA-HQ-OW-2014-0598-0426
SGE00332	Kent Perry. New Albany Shale Gas Research Project. Gas Technology Institute.	EPA-HQ-OW-2014-0598-0427
SGE00333	Horn, A. 2009. Breakthrough Mobile Water Treatment Converts 75% of Fracturing Flowback Fluid to Fresh Water and Lowers CO2 Emissions. SPE-121104-PP	EPA-HQ-OW-2014-0598-0428
SGE00334	Johnson, Dana. Unkown. U.S. Bakken. Enerplus.	EPA-HQ-OW-2014-0598-0790
SGE00335	Kulkarni, Pramod. 2012. Woodford Growing Revenues by Farming to Oily Shale. World Oil Journal.	EPA-HQ-OW-2014-0598-0794
SGE00337	Trey Cowan. 2011. Costs for Drilling The Eagle Ford. Rigzone.	EPA-HQ-OW-2014-0598-0795
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SGE00341	John A. Veil. 2011. Water Management Practices Used by Fayetteville Shale Gas Producers. Argonne Nat'l Lab and US Dept of Energy Natl Energy Tec Lab	EPA-HQ-OW-2014-0598-0430
SGE00343	James Welsh. Hydraulic Fracturing Regulatory Processes in Louisiana.. Louisiana Department of Natural Resources.	EPA-HQ-OW-2014-0598-0431
SGE00344	Haluszczak, L.O.; Rose, A.W.; Kump, L.R. 2012. Geochemical Evaluation of Flowback Brine from Marcellus Gas Wells in Pennsylvania, USA.	EPA-HQ-OW-2014-0598-0432
SGE00345	Lewis, Aurana. 2012. Wastewater Generation and Disposal from Natural Gas Wells in Pennsylvania. Duke University.	EPA-HQ-OW-2014-0598-0433
SGE00347	U.S. Energy Information Administration. 2011. Annual Energy Outlook 2012 with Projections to 2035.	EPA-HQ-OW-2014-0598-0434
SGE00350	Stepan, D.J., et. Al. 2010. Bakken Water Opportunities Assessment –Phase 1. Energy & Env Research Cntr, Univ of ND. Prepared for Nat'l Energy Tech Lab	EPA-HQ-OW-2014-0598-0435
SGE00354	Clark, C.E.; Han, J.; Burnham, A.; Dunn, J.B.; Wang, M. 2011. Life-Cycle Analysis of Shale Gas and Natural Gas. Argonne National Laboratory.	EPA-HQ-OW-2014-0598-0436
SGE00357	Cramer, John. 2011. Post-frac Flowback Analysis and Reuse Implications. Superior Well Services	EPA-HQ-OW-2014-0598-0437
SGE00358	Ecolotron Water Recovery Systems. 2011. Treatment of Flow Back and Produced Water from the Hydraulic Fracturing of Oil – Shale.	EPA-HQ-OW-2014-0598-0438

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SGE00360	Bill Pike. Unkown. Current NETL Water Management R&D Efforts Drilling Engineering Association Quarterly Forum. National Energy Technology Laboratory.	EPA-HQ-OW-2014-0598-0791
SGE00363	2012. New Subsidiary Alanco Energy Services, Inc. To Provide Produced Water Disposal Services to Nat'l Gas Ind. http://www.alanco.com/news_040912.asp	EPA-HQ-OW-2014-0598-0440
SGE00364	Alanco Energy Svs., Inc. 2012. Alanco Energy Svs., Inc. Commences Commercial Operation of New Colorado Oil & Gas Produced Water Treatment Facility	EPA-HQ-OW-2014-0598-0441
SGE00365	Fountain Quail Water Management, LLC. Unknown. Eagle Ford Shale (South Texas). http://www.aqua-pure.com/operations/shale/ford/ford.html	EPA-HQ-OW-2014-0598-0442
SGE00366	Clarion Altela Environmental Services (CAES). N.d. CAES Overview. Downloaded on 1/28/2013.	EPA-HQ-OW-2014-0598-0443
SGE00367	CARES. N.d. CARES McKean. Downloaded on 1/28/2013.	EPA-HQ-OW-2014-0598-0444
SGE00368	U.S. EPA. 2012. (Region 3). Key Documents About Mid-Atlantic Oil and Gas Extraction. (November 26). http://www.epa.gov/region3/marcellus_shale/	EPA-HQ-OW-2014-0598-0445
SGE00368.A01	U.S. EPA. 2013. Key Documents About Mid-Atlantic Oil and Gas Extraction. (January 9)	EPA-HQ-OW-2014-0598-0445
SGE00369	Anticline Disposal, LLC.. Unknown. Anticline Disposal, LLC.. Available online at: http://www.highsierrawater.com/high-sierra-water/	EPA-HQ-OW-2014-0598-0452
SGE00371	R360 Environmental. Unknown. Silo Facility Sheet. Available online at: http://www.r360environmentalsolutions.com/index.php?id=4	EPA-HQ-OW-2014-0598-0453
SGE00374	Red Desert. N.d. What Makes Our Water Treatment & Reclamation Facility So Advanced? Downloaded on 1/28/2013.	EPA-HQ-OW-2014-0598-0454
SGE00375	Rigzone. 2011. Sionix to Build Bakken Water Treatment Plant. http://www.rigzone.com/news/oil_gas/a/110613/Sionix_to_Build_Bakken_Water_Treatment_Plant	EPA-HQ-OW-2014-0598-0455
SGE00376	Somerset Regional Water Resources (SRWR). 2012. Unknown. SRWR: Our Services. Available online at: http://www.srwr-pa.com/services2.html	EPA-HQ-OW-2014-0598-0456
SGE00377	Veil, J; Puder, M. 2006. Exploration and Production Waste Disposal Database. Available at: http://www.evs.anl.gov/pub/dsp_detail.cfm?PubID=2007	EPA-HQ-OW-2014-0598-0770
SGE00378	Waste Management. 2011. DRBC Proposed Natural Gas Development Regulations Comments of Waste Management.	EPA-HQ-OW-2014-0598-0457
SGE00379	Hill, David A. 2012. The Future Is NOW for Water Recycling in the Niobrara. Wyoming Energy News.	EPA-HQ-OW-2014-0598-0458
SGE00380	West Virginia Department of Environmental Protection (WVDEP). 2009. WV/NPIDES Permit No, WV0023124 Accepting Oil and Gas Wastewater.	EPA-HQ-OW-2014-0598-0459
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SGE00384	Kansas Geological Survey (KGS). 2004. Oil and Gas Well Database Abbreviations. Downloaded on 2/4/2013. http://www.kgs.ku.edu/Magellan/Elog/status.html	EPA-HQ-OW-2014-0598-0462
SGE00385	LADNR. 2012. Produced Fluid Disposal Wells By Field. Office of Conservation. http://reports.dnr.state.la.us/reports/rwservlet?SRCN4282J_p	EPA-HQ-OW-2014-0598-0463
SGE00386	LADNR. 2012. UIC Well Class Type. Office of Conservation. Downloaded 12/21/2012. Available online at: http://sonris.com/	EPA-HQ-OW-2014-0598-0464
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SGE00388	MODNR. 2013. Oil and Gas Permits. Accessed on 12/21/2012. http://www.dnr.mo.gov/geology/geosrv/docs/permits-12-19-2012.xls	EPA-HQ-OW-2014-0598-0466
SGE00389	MTBOGC. 2012. UIC Wells. Accessed on 12/21/2012. http://www.bogc.dnrc.mt.gov/WebApps/DataMiner/UIC/UICWells.aspx	EPA-HQ-OW-2014-0598-0467
SGE00391	North Dakota Industrial Commission (NDIC). 2013. Well Type Definitions. Last Accessed on 2/4/2013. https://www.dmr.nd.gov/oilgas/codehelp.asp	EPA-HQ-OW-2014-0598-0698
SGE00392	North Dakota Industrial Commission (NDIC). 2013. Well Status Definitions. Last Accessed on 2/4/2013. https://www.dmr.nd.gov/oilgas/codehelp.Asp	EPA-HQ-OW-2014-0598-0699
SGE00393	NOGCC. 2012. Well Data. Downloaded on 12/21/2012. Available online at: http://www.nogcc.ne.gov/Publications/NebraskaWellData.zip	EPA-HQ-OW-2014-0598-0700
SGE00393.A01	Sydow, Bill. 2015. Not Copyrighted Confirmation.	EPA-HQ-OW-2014-0598-0700
SGE00394	NOGCC. 2012. Data Dictionary. Downloaded on 12/21/2012. Available online at: http://www.nogcc.ne.gov/Publications/NebraskaWellStatus_TypeCodes.pdf	EPA-HQ-OW-2014-0598-0701
SGE00397	OHDNR. 2012. Ohio Oil & Gas Well Database: RBDMS. Available online at: http://oilandgas.ohiodnr.gov/well-information/oil-gas-well-database	EPA-HQ-OW-2014-0598-0712
SGE00397.A01	OH DNR. 2015. OH DNR Signed Copyright Release	EPA-HQ-OW-2014-0598-0712
SGE00398	OHDNR. 2012. Well Status Codes. Downloaded on 2/4/2013. Online at: http://oilgas.ohiodnr.com/Well-Information/Well-Status-Classification-Codes.aspx	EPA-HQ-OW-2014-0598-0667
SGE00398.A01	OH DNR. 2015. OH DNR Signed Copyright Release	EPA-HQ-OW-2014-0598-0667
SGE00399	Petroleum Recovery Research Center (PRRC). 2012. All Wells Database. Downloaded 2/4/2012. http://octane.nmt.edu/gotech/Petroleum_Data/allwells.aspx	EPA-HQ-OW-2014-0598-0764
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SGE00401	SDDENR. 2012. Explanation of Database Fields and Terms. Downloaded 12/31/2012. No longer available online	EPA-HQ-OW-2014-0598-0497
SGE00402	TXRCC. 2012. Injection & Disposal Query Criteria. Accessed on 5/28/2013. Available online at: http://webapps2.rrc.state.tx.us/EWA/uicQueryAction.do	EPA-HQ-OW-2014-0598-0702
SGE00403	UTDNR. 2012. Well Information Search. Accessed on 2/4/2013. Online at: http://oilgas.ogm.utah.gov/Data_Center/LiveData_Search/well_data_lookup.cfm	EPA-HQ-OW-2014-0598-0703
SGE00403.A01	Schneider, Steve. 2015. Copyright data clarification for US EPA (UT DNR).	EPA-HQ-OW-2014-0598-0703
SGE00405	WOGC. 2012. Well Header Data 111412. Downloaded on 12/19/2012. Available online at: http://wogcc.state.wy.us/urecordsMenu.cfm?Skip='Y'&oops=#oops#	EPA-HQ-OW-2014-0598-0704
SGE00405.A01	Kropatsch, Tom. 2015. Not Copyrighted Confirmation.	EPA-HQ-OW-2014-0598-0704
SGE00406	Wyoming Oil and Gas Commission (WOGC). 2013. Codes for Well Files. Downloaded on 2/4/2013. Available online at: http://wogcc.state.wy.us/codes.html	EPA-HQ-OW-2014-0598-0561
SGE00407	WVDEP. 2012. Oil and Gas Well Search. Accessed on 12/21/2012. Available online at: https://apps.dep.wv.gov/oog/wellsearch_new.cfm	EPA-HQ-OW-2014-0598-0638
SGE00410	Nicot, J., et al. 2010. Feasibility of Using Alternative Water Sources for Shale Gas Well Completions. RPSEA	EPA-HQ-OW-2014-0598-0694
SGE00411	Galusky, P., et al. 2011. Feasibility Assessment of Early Flowback Water Recovery for Reuse in Subsequent Well Completions. RPSEA.	EPA-HQ-OW-2014-0598-0695
SGE00412	Huang, X., et al. 2011. Field Assessment of Anti-Fouling Polymeric Membrane Coatings for Treatment of Barnett Shale Flow-Back Produced Water. RPSEA.	EPA-HQ-OW-2014-0598-0696
SGE00413	Galusky, P., et al. 2011. Feasibility and Design Approach for Auto Classification and Segr. Of Early FB Water for Reuse in Shale-Gas Hydraulic Frac.	EPA-HQ-OW-2014-0598-0697
SGE00414	Hayes, Thomas, et.al. 2012. Characterization of Flowback Waters from the Marcellus and the Barnett Shale Regions Report No. 08122-05.09. RPSEA	EPA-HQ-OW-2014-0598-0498
SGE00415	Thomas Hayes, et. Al. 2012. Evaluation of the Aqua Pure Mechanical Vapor Recompression Sys. In the Trtmnt of Shale Gas Flowback Water. RPSEA.	EPA-HQ-OW-2014-0598-0499
SGE00421	Jay Ewing. 2008. Taking a Proactive Approach to Water Recycling in the Barnett Shale. Devon Energy	EPA-HQ-OW-2014-0598-0500
SGE00422	James Werline. 2011. Water Requirements and Sustainable Sources in the Barnett Shale. Devon Energy.	EPA-HQ-OW-2014-0598-0501
SGE00428	ERG. 2013. Notes on Penn State Webinar: The Utica Reservoir.	EPA-HQ-OW-2014-0598-0562
SGE00428.A01	Mike Arthur. 2013. The Utica Reservoir. The Pennsylvania State University.	EPA-HQ-OW-2014-0598-0562
SGE00429	Frank Miller. FracWater Treatment for Recycling: Options and Alternatives; Their Benefits and Limitations. University of Massachusetts.	EPA-HQ-OW-2014-0598-0563

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DCN	Citation	EPA Docket Number
SGE00431	Nathan Kuhnert. 2013. Converting Fresh Water Regulatory Challenges into Opportunities. Devon Energy.	EPA-HQ-OW-2014-0598-0502
SGE00439	Nemaha Water. 2013. Water Disp Regs Evaluating Long-Term Reg Changes to Enable the Intgrtn of New Policies Water Disp Recycling & Handling Strategy.	EPA-HQ-OW-2014-0598-0404
SGE00442	Mississippi Lime Production & Produced Water Congress 2013	EPA-HQ-OW-2014-0598-0564
SGE00442.A01	Galyn Black. 2013. Case Study: Design, Implementation and Operation of an Effective Water Transfer System in the Mississippi Lime. Chesapeake Energy.	EPA-HQ-OW-2014-0598-0564
SGE00442.A02	Cecil Colwell. 2013. Development of Cost Effective Systems for Handling Produced Water. Source Energy.	EPA-HQ-OW-2014-0598-0564
SGE00442.A03	John Dees. 2013. Mississippi Lime Production & Produced Water Congress 2013: Reusing Produced Water. Reeder Energy.	EPA-HQ-OW-2014-0598-0564
SGE00442.A04	Garwood, D. 2013. How Operators are Minimizing Costs Associated with Gathering and Transporting Produced Water from Wells to Disposal Plants.	EPA-HQ-OW-2014-0598-0564
SGE00442.A05	Stephen Harpham. 2013. Opening Remarks Mississippi Lime Production & Produced Water 2013. Dorado E&P Partners.	EPA-HQ-OW-2014-0598-0564
SGE00442.A06	Murray, K.E. 2013. Examining Water Production Volumes and Produced Water Quality in the Mississippi Lime to Develop Appropriate Management Strategies.	EPA-HQ-OW-2014-0598-0564
SGE00442.A07	Petroriver Oil. 2013. Optimizing Pressure Drawdown to Improve Oil Recovery. Petroriver Oil.	EPA-HQ-OW-2014-0598-0564
SGE00442.A08	Steven Tipton. 2013. Outlining Water Storage Options for Fracturing Operations to Highlight Economic Options. MS Lime Production and Produced Water.	EPA-HQ-OW-2014-0598-0564
SGE00442.A09	Don Unruh. 2013. It Should be Easy Stimulated Hydrocarbon Pore Volume.	EPA-HQ-OW-2014-0598-0564
SGE00442.A10	Don Forrest. 2013. Re-Using Produced Water.	EPA-HQ-OW-2014-0598-0564
SGE00457	Marvin Resnikoff. Unk. Radioactivity in Marcellus Shale Challenge for Regulators and Water Treatment Plants. Radioactive Waste Management Associates.	EPA-HQ-OW-2014-0598-0565
SGE00462	Halliburton. 2010. CleanWave Water Trmt Services Accelerate Winter Drilling Ops, Elim. 1,000+ Truck Tips, & Realize \$250,000+ in Water Mgmt Savings.	EPA-HQ-OW-2014-0598-0566
SGE00463	Halliburton. 2012. El Paso Corporation completes first natural gas well using all four CleanSuite technologies. Halliburton.	EPA-HQ-OW-2014-0598-0665
SGE00464	Halliburton. 2013. Halliburton helped Permian Basin operator save more than \$500,000 and 8,000,000 gallons of water. Halliburton.	EPA-HQ-OW-2014-0598-0567
SGE00465	Jean-Philippe Nicot and Bridget Scanlon. 2012. Water Use for Shale-Gas Production in Texas, U.S.. University of Texas at Austin.	EPA-HQ-OW-2014-0598-0503
SGE00469	Barger, Brian. Unknown. Testimony of Brian P Barger RE: HB 59 on Behalf of Patriot Water Treatment, LLC.	EPA-HQ-OW-2014-0598-0504
SGE00474	GreenHunter Water, LLC. 2013. GreenHunter Water Acquires Barging Terminal in Wheeling, Ohio County, West Virginia. GreenHunter Water, LLC.	EPA-HQ-OW-2014-0598-0505
SGE00476	Hydro Recovery, LP. 2013. Company Info. Downloaded on 5/20/2013.	EPA-HQ-OW-2014-0598-0506

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DCN	Citation	EPA Docket Number
SGE00477	Paul Lord, Renee LeBas. 2013. Treatment Enables High-TDS Water Use as Base Fluid for Hydraulic Fracturing. Halliburton/JPT.	EPA-HQ-OW-2014-0598-0568
SGE00478	Kasey, P. 2009. Gas Well Drilling Brine Treatment Facility Opens in Fairmont. The State Journal.	EPA-HQ-OW-2014-0598-0507
SGE00479	Kadramas, Lee & Jackson, Inc. 2012. Power Forecast 2012: Williston Basin Oil and Gas Related Electrical Load Growth Forecast.	EPA-HQ-OW-2014-0598-0508
SGE00480	Richard Luedecke. 2012. Energy Water Conservation & Recycling 33 rd Annual Governor's Water Conference. Devon Energy.	EPA-HQ-OW-2014-0598-0509
SGE00481	McCutcheon Enterprises. 2013. Waste Reduction: A Greener Alternative for Treating Drilling Muds. (April).	EPA-HQ-OW-2014-0598-0510
SGE00483	Olmstead, Meuhlenbachs, Shih, Chu, Krupnick. 2013. Shale Gas Development Impacts on Surface Water Quality in Pennsylvania. PNAS.	EPA-HQ-OW-2014-0598-0569
SGE00484	Jim Davis. 2012. WM Environmental Services: Oilfield Solutions in the Marcellus Shale. Waste Management Eastern Group.	EPA-HQ-OW-2014-0598-0511
SGE00485	WV DEP. 2011. Consent Order Issued Under the Water Pollution Control Act, West Virginia Code, Chapter 22, Article 11.	EPA-HQ-OW-2014-0598-0512
SGE00486	Energy Information Administration. 2013. Assumptions to the Annual Energy Outlook 2013.	EPA-HQ-OW-2014-0598-0513
SGE00487	U.S. Energy Information Administration (EIA). 2013. Annual Energy Outlook 2013 with Projections to 2040. DOE/EIA-0383(2013). (April).	EPA-HQ-OW-2014-0598-0514
SGE00488	West Virginia Dept. of Environmental Protection. 2012. NPDES Water Pollution Control Permit WV0116441. Reserved Environmental Services CWT Permit.	EPA-HQ-OW-2014-0598-0515
SGE00489	US EPA. 2015. Site Visit Report Southwestern Energy Fayetteville Shale Operations.	EPA-HQ-OW-2014-0598-0661
SGE00489.A01	US EPA. 2015. PowerPoint Presentation of All Southwestern Energy Site Visit Pictures.	EPA-HQ-OW-2014-0598-0661
SGE00489.A02	Southwestern Energy. 2015. Documents Received from Southwestern Energy.	EPA-HQ-OW-2014-0598-0661
SGE00490	Advanced Waste Services. 2013. Marcellus & Utica Shale Services. Company website.	EPA-HQ-OW-2014-0598-0516
SGE00493	Allegheny Valley Joint Sewage Authority. 2011. Letter to PA DEP (Permit ID: PA0026255). (March 29).	EPA-HQ-OW-2014-0598-0517
SGE00494	Allegheny Valley Joint Sewage Authority. 2011. Letter to U.S. EPA Region 3. (October 3).	EPA-HQ-OW-2014-0598-0581
SGE00495	Altoona Water Authority. 2011. Letter to PA DEP (Permit ID: PA0027014). (April 6).	EPA-HQ-OW-2014-0598-0519
SGE00497	Angelo, T. 2013. From Pilot Study to Daily Processing. Warren, OH, Water Poll. Ctrl. Dept. Apr 18, 2013.	EPA-HQ-OW-2014-0598-0520
SGE00498	Arkansas Oil and Gas Commission (AOGC). 2012. Status Code Key for Online Database. Downloaded on 12/21/2012.	EPA-HQ-OW-2014-0598-0521
SGE00499	AOGC. 2013. Welcome to the Arkansas Oil and Gas Commission Online Production and Well Information. Accessed on 6/14/2013.	EPA-HQ-OW-2014-0598-0522
SGE00500	Arthur, David. 2013. Balancing Environmental Risks with Recycling of Produced Water. Technical presn at the 2013 Ground Water Protection Council.	EPA-HQ-OW-2014-0598-0523
SGE00501	Bai, Bing. 2013. Modeling of Frac flowback and produced water volume from Wattenberg oil and gas field. Journal of Petroleum	EPA-HQ-OW-2014-0598-0570

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	Science and Engineering.	
SGE00502	Baker Hughes. 2013. North America Rotary Rig Count Pivot Table (Feb 2011–Current). (November 8). Downloaded on 11/11/2013.	EPA-HQ-OW-2014-0598-0571
SGE00502.A01	Baker Hughes. 2013. Baker Hughes Non Copyright Confirmation.	EPA-HQ-OW-2014-0598-0571
SGE00503	Baker Hughes. 2013. U.S. Onshore Well Count. (October 11). Downloaded on 11/11/2013.	EPA-HQ-OW-2014-0598-0572
SGE00503.A01	Baker Hughes. 2013. Baker Hughes Non Copyright Confirmation.	EPA-HQ-OW-2014-0598-0572
SGE00504	Baker Hughes. 2013. North America Rotary Rig Count (Jan 2000–Current). (November 15). Downloaded on 11/20/2013.	EPA-HQ-OW-2014-0598-0573
SGE00504.A01	Baker Hughes. 2013. Baker Hughes Non Copyright Confirmation.	EPA-HQ-OW-2014-0598-0573
SGE00505	Belcher, M. 2013. Hydraulic Fracturing Radiological Concerns for OH. Freshwater Accountability Project OH and Radioactive Waste Management Associates.	EPA-HQ-OW-2014-0598-0574
SGE00506	Bissell, Alex. Unknown. Wastewater Wasteland: An Investigation of Flowback Fluid Disposal in NY. Neighbors of the Onondaga Nation.	EPA-HQ-OW-2014-0598-0575
SGE00507	Boschee, Pam. 2012. Handling Produced Water from Hydraulic Fracturing. Oil & Gas Facilities.	EPA-HQ-OW-2014-0598-0576
SGE00508	Brockway Area Sewage Authority. 2011. Request for Information – Permit ID: PA0028428. (March 31).	EPA-HQ-OW-2014-0598-0577
SGE00509	Brown, Daniel; Bridgeman, John; West, John R. 2011. Predicting Chlorine Decay and THM Formation in Water Supply Systems.	EPA-HQ-OW-2014-0598-0578
SGE00511	Casey, Greg. 2013. The evolution of Class II Salt Water Disposal (SWD) Wells as Part of the Shale Revolution.	EPA-HQ-OW-2014-0598-0579
SGE00512	Casper Star-Tribune (Trib). 2010. Red Desert Water Plant Opens Today.	EPA-HQ-OW-2014-0598-0580
SGE00513	City of Watertown POTW. 2010. Short-term High-Intensity Monitoring Program. SPDES NY 002 5984. March 11.	EPA-HQ-OW-2014-0598-0582
SGE00514	Clairton Municipal Authority. 2011. Letter to U.S. EPA Region 3. (September 30).	EPA-HQ-OW-2014-0598-0583
SGE00515	Clean Water Action (CWA). 2012. Groups Reach Settlement with McKeesport in Gas Drilling Wastewater Dumping Case. (May 1).	EPA-HQ-OW-2014-0598-0584
SGE00516	Cochener, John. 2010. Quantifying Drilling Efficiency. U.S. EIA, Office of Integrated Analysis and Forecasting. (June 28).	EPA-HQ-OW-2014-0598-0585
SGE00517	Colorado Oil and Gas Conservation Commission (COGCC). 2011. COGCC Underground Injection Control and Seismicity in Colorado. 2011.	EPA-HQ-OW-2014-0598-0586
SGE00518	Colorado Oil and Gas Conservation Commission (COGCC). COGIS – Production Data Inquiry.	EPA-HQ-OW-2014-0598-0587
SGE00519	Davies, Peter J. n.d. Radioactivity. Cornell University.	EPA-HQ-OW-2014-0598-0588
SGE00520	Drillinginfo. 2011. DI Desktop® December 2011 Download. Drillinginfo, Inc.	EPA-HQ-OW-2014-0598-0609
SGE00520.A02	Carroll, Jennifer. 2015. DrillingInfo Use of DI Desktop for EPA Rulemaking. Spreadsheet.	EPA-HQ-OW-2014-0598-0609
SGE00521	ERG. 2012. Camp, Meghan; Ruminski, Brent. Notes for Shale Gas Industry Meeting Held on 29 February 2012. (April 20).	EPA-HQ-OW-2014-0598-0589

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DCN	Citation	EPA Docket Number
SGE00522	Env Review Appeals Comm, State of OH. 2012. Patriot Water Treatment and City of Warren v Chris Korleski and Scott Nally: 2012 Decision.	EPA-HQ-OW-2014-0598-0590
SGE00523	Eureka Resources. 2013. The Technologies of Eureka Resources: Wastewater Distillation. May 30.	EPA-HQ-OW-2014-0598-0591
SGE00524	Eureka Resources. 2013. Eureka Resources Announces Plans for New Wastewater Treatment Plant. January 7.	EPA-HQ-OW-2014-0598-0592
SGE00525	Ferrar, K.J., et al. 2013. Assessment of Eff. Contaminants from 3 Facilities Discharging Marcellus Shale Wastewater to Surface Waters in PA.	EPA-HQ-OW-2014-0598-0593
SGE00526	Geological Survey of Alabama – State Oil and Gas Board (AL OGB). 2013. Well Records Database. Accessed on 6/4/2013.	EPA-HQ-OW-2014-0598-0666
SGE00527	Kennedy, R.L.; Knecht, W.N.; Georgi, D.T. 2012. Comparisons and Contrasts of Shale Gas and Tight Gas Developments: N American Experience and Trends.	EPA-HQ-OW-2014-0598-0594
SGE00528	Gilmer, Ellen. 2013. Data Show More Marcellus Wastewater, More Injections. E&E News. (February 22).	EPA-HQ-OW-2014-0598-0595
SGE00530	Hammontree, Jimmie. 2012. Water Utilization, Water Efficiency, and Reuse. Chesapeake Energy. (April 11).	EPA-HQ-OW-2014-0598-0596
SGE00531	Hanlon, James. 2011. Natural Gas Drilling in the Marcellus Shale: NPDES Program Frequently Asked Questions. (March 16).	EPA-HQ-OW-2014-0598-0597
SGE00532	Hansen, E; Mulvaney, D; Betcher, M. 2013. Water Resource Reporting and Water Footprint from Marcellus Shale Development in WV and PA. (October 30).	EPA-HQ-OW-2014-0598-0598
SGE00533	Heffernan, Kevin. 2012. Unconventional Resource Development and Hydraulic Fracturing. Red Deer River Watershed Alliance. (October 25).	EPA-HQ-OW-2014-0598-0599
SGE00534	High Sierra Energy, LP. 2012. Denver Julesberg Basin.	EPA-HQ-OW-2014-0598-0600
SGE00535	Hladik, M.; Focazio, M.J.; Englae, M. 2014. Discharges of Prod Waters from Oil and Gas Extraction via WWTPs Are Sources of DBPs to Receiving Streams.	EPA-HQ-OW-2014-0598-0601
SGE00537	Horsley Witten Group. 2011. California Class II Underground Injection Control Program Review.	EPA-HQ-OW-2014-0598-0602
SGE00538	Johnstown Redevelopment Authority. 2011. Letter to U.S. EPA Region 3. (September 30).	EPA-HQ-OW-2014-0598-0603
SGE00539	Johnstown Redevelopment Authority. 2012. Letter to U.S. EPA Region 3. (December 19).	EPA-HQ-OW-2014-0598-0604
SGE00540	Kiski Valley Water Pollution Control Authority. 2011. Letter to McCutcheon Enterprises, Inc. (April 21).	EPA-HQ-OW-2014-0598-0605
SGE00543	Macormac, Zach. 2011. Wheeling Fined for Taking Frack Water. The Intelligencer/Wheeling News-Register. (October 15).	EPA-HQ-OW-2014-0598-0606
SGE00544	Marcellus Shale Coalition (MSC) and PA Independent Oil and Gas Association (PIOGA). 2013. Field Sampling Plan.	EPA-HQ-OW-2014-0598-0607
SGE00545	Klaber, Kathryn. 2011. Letter to Michael Krancer, PA DEP. Marcellus Shale Coalition. (April 20).	EPA-HQ-OW-2014-0598-0042
SGE00547	Massachusetts Institute of Technology (MIT). 2011. The Future of Natural Gas: An Interdisciplinary MIT Study.	EPA-HQ-OW-2014-0598-0043
SGE00548	McCauley, Erin. 2011. Environmentalists Say Oil-Drilling Sewage is Polluting Pittsburgh's Drinking Water. (July 21). Courthouse News Service.	EPA-HQ-OW-2014-0598-0044

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DCN	Citation	EPA Docket Number
SGE00549	Michigan Department of Environmental Quality (MIDEQ). 2013. Injection Well Data. Accessed on 5/28/2013.	EPA-HQ-OW-2014-0598-0518
SGE00549.A01	Lawrence, Deana M. 2015. MI DEQ Non Copyright Confirmation.	EPA-HQ-OW-2014-0598-0518
SGE00550	Michigan Department of Environmental Quality (MIDEQ). 2013. Well Type and Status Codes. Accessed on 5/28/2013.	EPA-HQ-OW-2014-0598-0045
SGE00551	Mississippi Oil and Gas Board (MSOGB). 2013. Well Information Report Search. Accessed on 6/4/2013.	EPA-HQ-OW-2014-0598-0046
SGE00552	Mon River Recreation and Commerce Committee. 2009. Minutes of Mon River Recreating & Commerce Committee Meeting 12 December 2008.	EPA-HQ-OW-2014-0598-0047
SGE00554	Widmer Engineering, Inc. 2010. New Castle Sanitation Authority: Annual Pretreatment Report, 2009 Operating Year.	EPA-HQ-OW-2014-0598-0048
SGE00555	New York State Department of Environmental Control (NYSDEC). 2009. New Discharge Notification: SPDES Permit NY 002 5984 to Watertown, NY POTW.	EPA-HQ-OW-2014-0598-0049
SGE00556	Nicot, Jean-Philippe, et al. 2011. Current and Projected Water Use in the Texas Mining and Oil and Gas Industry.	EPA-HQ-OW-2014-0598-0050
SGE00557	NDIC. 2014. Basic Subscription Services – Well Index. Department of Mineral Resources, Oil and Gas Division. Last Accessed on 1/27/2014.	EPA-HQ-OW-2014-0598-0051
SGE00557.A01	Kirby, Nathan J. 2014. NDCI Non Copyright Confirmation.	EPA-HQ-OW-2014-0598-0051
SGE00558	Office of Geological Survey (OGS). 2011. Hydraulic Fracturing of Natural Gas Wells in Michigan. (May 31).	EPA-HQ-OW-2014-0598-0100
SGE00559	Ohio Department of Natural Resources (OH DNR). 2012. 2011 Utica Shale Production.	EPA-HQ-OW-2014-0598-0668
SGE00559.A01	OH DNR. 2015. OH DNR Signed Copyright Release	EPA-HQ-OW-2014-0598-0668
SGE00560	Ohio Department of Natural Resources (OH DNR). 2013. 2012 Utica Shale Production.	EPA-HQ-OW-2014-0598-0763
SGE00560.A01	OH DNR. 2015. OH DNR Signed Copyright Release	EPA-HQ-OW-2014-0598-0763
SGE00561	OH DNR. 2013. Utica/Point Pleasant Shale Cumulative Permitting Activity through 12/07/2013. Downloaded on 12/12/2013. Last updated on 12/6/2013.	EPA-HQ-OW-2014-0598-0669
SGE00561.A01	OH DNR. 2015. OH DNR Signed Copyright Release	EPA-HQ-OW-2014-0598-0669
SGE00562	Ohio Environmental Protection Agency (OEPA) 2007. Chapter 3745-3 Pretreatment Rules.	EPA-HQ-OW-2014-0598-0052
SGE00563	OEPA. 2011. Letter to Ohio Department of Natural Resources (OH DNR) – Brine Disposal Pursuant to ORC Section 1509.22. (May 16).	EPA-HQ-OW-2014-0598-0053
SGE00564	OEPA. 2014. Wastewater Permit-To-Install (PTI) Program. Available online: http://www.epa.state.oh.us/dsw/pti/index.aspx . Accessed 1/11/2014.	EPA-HQ-OW-2014-0598-0054
SGE00567	Handke, P. 2008. Trihalomethane Speciation and the Relationship to Elevated TDS Concentrations Affecting Drinking Water Quality at Systems.	EPA-HQ-OW-2014-0598-0055
SGE00568	Pennsylvania Department of Environmental Protection (PA DEP). 2010. Oil & Gas Facility Summary. (August 26).	EPA-HQ-OW-2014-0598-0056

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DCN	Citation	EPA Docket Number
SGE00569	PA DEP. 2011. Press Release: Pennsylvania DEP Calls on Natural Gas Drillers to Stop Giving Treatment Facilities Wastewater. (April 19).	EPA-HQ-OW-2014-0598-0057
SGE00570	PA DEP. 2012. General Permit WMGR123 Processing and Beneficial Use Of Oil and Gas Liquid Waste. Rev. 3/2012.	EPA-HQ-OW-2014-0598-0058
SGE00571	Pennsylvania Department of Environmental Protection (PA DEP). 2012. NPDES Permit No. PA0028207 (Reynoldsville Sewage Authority). (July 17).	EPA-HQ-OW-2014-0598-0059
SGE00572	PA DEP. 2012. Return of NPDES Application No. PA0026310 A-2 (Clearfield Municipal Authority WWTP). (March 30).	EPA-HQ-OW-2014-0598-0060
SGE00573	PA DEP. 2013. NPDES Permit No. PA0027511 (New Castle Sanitation Authority). Effective date: March 1, 2013. Expiration date: February 28, 2018.	EPA-HQ-OW-2014-0598-0061
SGE00574	Pennsylvania Department of Environmental Protection (PA DEP). 2013. TENORM Study: 3 rd Quarter 2013 Update.	EPA-HQ-OW-2014-0598-0062
SGE00575	Petroleum Equipment Suppliers Association (PESA). 2012. Outlook for Domestic Unconventional Resources. Presentation at PESA Annual Meeting.	EPA-HQ-OW-2014-0598-0063
SGE00576	Pittsburgh Business Times. 2008. Oil, Gas Wells Face Waste Hurdle: Sewage Plants Ordered by DEP to Curb Processing Wastewater from Drilling.	EPA-HQ-OW-2014-0598-0064
SGE00577	Polar Bear Water Treatment. 2013. Polar Bear Water Treatment Company Website.	EPA-HQ-OW-2014-0598-0065
SGE00578	Purestream. 2013. Purestream Services Will Begin Commercial Operations to Treat Eagle Ford Shale Prod and Frac Flowback Water in Gonzalez County, TX.	EPA-HQ-OW-2014-0598-0066
SGE00579	Rahm, Brian, et al. 2013. Wastewater Management and Marcellus Shale Gas Development: Trends, Drivers, and Planning Implications.	EPA-HQ-OW-2014-0598-0067
SGE00580	Randy Wells. 2012. CORRALLING WASTEWATER: Treatment company sets up shop in Kay Arena. Indiana Gazette. (January 2012).	EPA-HQ-OW-2014-0598-0068
SGE00582	Reuther, Mike. 2013. Gas wastewater treatment facility to begin operations. (August 21).	EPA-HQ-OW-2014-0598-0069
SGE00583	Romo, Carlos; Janoe, J. Scott. 2012. Regulatory Regimes for Recycling Produced and Frac Flowback Water. Paper 2012-A-453-AWMA.	EPA-HQ-OW-2014-0598-0070
SGE00584	Shallenberger Construction. 2012. Marcellus Water Treatment. Company website accessed on 10/28/2013.	EPA-HQ-OW-2014-0598-0071
SGE00585	U.S. EPA. 2014. FracFocus Database. Office of Research and Development (ORD).	EPA-HQ-OW-2014-0598-0340
SGE00586	State Review of Oil and Natural Gas Environmental Regulations (STRONGER). 2003. West Virginia Follow-Up and Supplemental Review. (January).	EPA-HQ-OW-2014-0598-0072
SGE00587	States, Stanley et al. 2013. Marcellus Shale Drilling and Brominated THMs in Pittsburgh, Pa., Drinking Water. Journal AWWA. (August).	EPA-HQ-OW-2014-0598-0073
SGE00588	TerrAqua Resource Management (TARM). Unknown. Solutions. Company website accessed on 10/28/2013.	EPA-HQ-OW-2014-0598-0074
SGE00592	U.S. Department of Energy (U.S. DOE). 2013. Water Issues Dominate Oil and Gas Production. E&P Focus. (Fall).	EPA-HQ-OW-2014-0598-0075

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DCN	Citation	EPA Docket Number
SGE00593	U.S. EIA. 1993. Drilling Sideways—A Review of Horizontal Well Technology and Its Domestic Application. DOE/EIA-TR-0565. (April)	EPA-HQ-OW-2014-0598-0076
SGE00594	U.S. Energy Information Administration (EIA). 2010. Schematic Geology of Natural Gas Resources. (January 27). Downloaded on 11/21/2013.	EPA-HQ-OW-2014-0598-0077
SGE00595	U.S. Energy Information Administration (EIA). 2013. Drilling Productivity Report: For Key Tight Oil and Shale Gas Regions. (October).	EPA-HQ-OW-2014-0598-0078
SGE00596	ERG. 2015. Analysis of Centralized Waste Treatment Facilities (CWTs) Accepting UOG Extraction Wastewater.	EPA-HQ-OW-2014-0598-0676
SGE00596.A01	ERG. 2015. Analysis of Centralized Waste Treatment Facilities (CWTs) Accepting UOG Wastewater Attachment 1: UOG CWT List and Analysis	EPA-HQ-OW-2014-0598-0676
SGE00598	ERG. 2015. Publicly Owned Treatment Works (POTW) Memorandum for the Technical Development Document (TDD).	EPA-HQ-OW-2014-0598-0798
SGE00598.A01	ERG. 2015. Publicly Owned Treatment Works (POTW) Memorandum for the Technical Development Document (TDD)— Attachment 1: POTWs Data for TDD.	EPA-HQ-OW-2014-0598-0798
SGE00599	U.S. EPA. 1999. Biosolids Generation, Use, and Disposal in the United States. EPA 530-R-99-009. (September).	EPA-HQ-OW-2014-0598-0079
SGE00600	U.S. EPA. 2003. Development Document for the Final ELGs for the Metal Products and Machinery Point Source Category. EPA 821-B-03-001.	EPA-HQ-OW-2014-0598-0080
SGE00601	U.S. EPA. 2001. Small Entity Compliance Guide: CWT Effluent Limitations Guidelines and Pretreatment Standards (40CFR 437). EPA 821-B-01-003.	EPA-HQ-OW-2014-0598-0081
SGE00602	U.S. EPA. 2004. Local Limits Development Guidance Appendices. EPA 833-R-04-002B. (July).	EPA-HQ-OW-2014-0598-0082
SGE00603	U.S. EPA. 2008. Clean Watersheds Needs Survey. EPA 832-R-10-002.	EPA-HQ-OW-2014-0598-0083
SGE00604	U.S. EPA. 2010. Hydraulic Fracturing Research Study. EPA 600-F-10-002. (June)	EPA-HQ-OW-2014-0598-0084
SGE00605	U.S. EPA. 2010. Record of Communication for Calls on Pretreatment with Morgan City, LA and Region 6 on Shreveport, LA. February	EPA-HQ-OW-2014-0598-0085
SGE00606	U.S. EPA 2011. Radium. (July 8). Available online at: http://www.epa.gov/radiation/radionuclides/radium.html	EPA-HQ-OW-2014-0598-0086
SGE00607	U.S. EPA. 2012. Conference Call with Quicksilver Resources, Inc. About Shale Gas Operations Sanitized. (October 11)	EPA-HQ-OW-2014-0598-0755
SGE00608	U.S. EPA. 2012. Discharge Monitoring Report (DMR) Pollutant Loading Tool. Downloaded on 1/28/2013. Available online at: http://cfpub.epa.gov/dmr/	EPA-HQ-OW-2014-0598-0087
SGE00611	U.S. EPA. 2012. UIC Program Primacy. Downloaded on 10/24/2013. Available online at: http://water.epa.gov/type/groundwater/uic/Primacy.cfm	EPA-HQ-OW-2014-0598-0088
SGE00612	U.S. EPA. 2013. DMR Loading Tool Download for New Castle POTW (NPDES No. PA0027511). Downloaded on 11/ 22/2013	EPA-HQ-OW-2014-0598-0089
SGE00613	U.S. EPA. 2013. Meeting Summary: Meeting with Industry Representatives About the Unconventional Oil and Gas Effluent Guideline Rulemaking.	EPA-HQ-OW-2014-0598-0090

Table 3. Crosswalk for All Documents Supporting the Proposed Effluent Limitation Guidelines and Standards for the Oil and Gas Extraction Point Source Category

DCN	Citation	EPA Docket Number
SGE00614	U.S. EPA. 2013. Overview of Hydraulic Fracturing Wastewater Research: Wastewater Treatment and Related Modeling. April 18	EPA-HQ-OW-2014-0598-0091
SGE00615	U.S. EPA. 2013. Radionuclides in Drinking Water: Waste Disposal Options. (November 26)	EPA-HQ-OW-2014-0598-0092
SGE00616	U.S. EPA. 2013. Summary of the Technical Workshop on Wastewater Treatment and Related Modeling. (April 18)	EPA-HQ-OW-2014-0598-0093
SGE00618	U.S. EPA. 2012. Flowback and Produced Wastewater from Hydraulic Fracturing Operations to Publicly Owned Treatment Works (POTWs) in Region 2. March 12	EPA-HQ-OW-2014-0598-0094
SGE00619	U.S. Environmental Protection Agency Region 2 (U.S. EPA R2). Received 2013. Active Permitted Class IID Wells in New York.	EPA-HQ-OW-2014-0598-0095
SGE00620	U.S. EPA. 2011. (Region 3) Administrative Order for Compliance and Request for Information, EPA Docket No. CWA-03-2011-0272DN. (September 28).	EPA-HQ-OW-2014-0598-0541
SGE00621	U.S. EPA. 1976. Development Document for Interim Final Effluent Limitations Guidelines and Proposed New Source Performance Standards for the Oil and Gas Extraction Point Source Category. (September).	EPA-HQ-OW-2014-0598-0096
SGE00622	U.S. Geological Survey (USGS). 2013. Water Resources and Shale Gas/Oil Production in the Appalachian Basin. (August).	EPA-HQ-OW-2014-0598-0097
SGE00623	U.S. GAO. 2012. Energy-Water-Nexus: Information on the Quantity, Quality, and Mngt of Water Produced During O&G Production. (January). GAO-12-156	EPA-HQ-OW-2014-0598-0098
SGE00624	University of Michigan. 2013. Hydraulic Fracturing in the State of Michigan. (September)	EPA-HQ-OW-2014-0598-0099
SGE00625	US EPA. 2015. Site Visit Report: Southwestern Energy Fayetteville Shale Gas Operations. Sanitized.	EPA-HQ-OW-2014-0598-0662
SGE00625.A01	US EPA. 2015. PowerPoint Presentation of All Southwestern Energy Site Visit Pictures.	EPA-HQ-OW-2014-0598-0662
SGE00625.A02	Southwestern Energy. 2015. Documents Received from Southwestern Energy.	EPA-HQ-OW-2014-0598-0662
SGE00627	Vidic, Radisav; Brantley, S.L.; Vandebossche, J.M.; Yoxheimer, D.; Abad, J.D. 2013. Impact of Shale Gas Development on Regional Water Quality.	EPA-HQ-OW-2014-0598-0542
SGE00629	Warner et al. 2013. Impacts of Shale Gas Wastewater Disposal on Water Quality in Western PA. Environmental Science & Technology 47(20):11849–11857	EPA-HQ-OW-2014-0598-0101
SGE00632	Williams, John. N.d. The Marcellus Shale Gas Play: Geology, Development, and Water-Resource Impact Mitigation. USGS: New York Water Science Center.	EPA-HQ-OW-2014-0598-0102
SGE00633	Wilson and VanBriesen. 2013. Oil and Gas Produced Water Mngt and Surface Drinking Water Sources in PA. Environmental Practice 14(4):288–300.	EPA-HQ-OW-2014-0598-0103
SGE00635	US EPA. 2012. Site Visit Report Chesapeake Energy Corporation Marcellus Shale Gas Operations Sanitized.	EPA-HQ-OW-2014-0598-0713
SGE00635.A01	Chesapeake Energy. 2012. Natural Gas and Oil Overview	EPA-HQ-OW-2014-0598-0713
SGE00635.A02	Chesapeake Energy. 2012. PowerPoint Presentation of all Site Visit Pictures – Chesapeake_CBI	EPA-HQ-OW-2014-0598-0713
SGE00636	U.S. EPA. 2012. Talisman Marcellus Operations Overview. (July 23).	EPA-HQ-OW-2014-0598-0104

Table 3. Crosswalk for All Documents Supporting the Proposed Effluent Limitation Guidelines and Standards for the Oil and Gas Extraction Point Source Category

DCN	Citation	EPA Docket Number
SGE00637	Camp, M. 3 rd Shale Play Water Management Marcellus and Utica Conference. Mississippi Lime Produced Water 2013 Presentations Referenced in Summary.	EPA-HQ-OW-2014-0598-0105
SGE00637.A01	Shannon, Daniel. 2013. Sustainable Water Management.	EPA-HQ-OW-2014-0598-0105
SGE00637.A02	Sinnott, Joseph. 2013. Utilizing Ultraviolet Light to Minimize Biocide Usage During Stimulation Operations.	EPA-HQ-OW-2014-0598-0105
SGE00637.A03	Yoxitheimer, David. 2013. Produced Fluid Generation and Injection Well Disposal Considerations.	EPA-HQ-OW-2014-0598-0105
SGE00637.A04	Richie, Chance. 2013. Collaboration Case Study.	EPA-HQ-OW-2014-0598-0105
SGE00637.A05	Vidic, Radisav. 2013. Reuse of Produced Water For Hydraulic Fracturing.	EPA-HQ-OW-2014-0598-0105
SGE00637.A06	Kepler, Doug. 2013. Forced Crystallization within Turbulent Liquid Flow Streams... or crystals without crystallizers.	EPA-HQ-OW-2014-0598-0105
SGE00637.A07	Schappell, Quay. 2013. The Evolution of Treatment Technologies in the Marcellus Shale.	EPA-HQ-OW-2014-0598-0105
SGE00638	Brent Ruminski. 2014. 2013 Produced Water Reuse Initiative Conference Materials. Eastern Research Group, Inc.	EPA-HQ-OW-2014-0598-0760
SGE00638.A01	Carlson, K., Goodwin, S., and Ellerbroek, D. 2013. Water Infrastructure Analysis and Optimization.	EPA-HQ-OW-2014-0598-0760
SGE00638.A02	Gopsill, E. 2013. Comparing the Most Effective Produced Water Treatment Technologies to Date to Derive if an Economical Method has been Found.	EPA-HQ-OW-2014-0598-0760
SGE00638.A03	Kostelecky, Joe. 2013. Examining All Associated Costs With Storing Water In Tanks Vs. Pits to Determine Which Is The Cheaper And Safer Storage Option.	EPA-HQ-OW-2014-0598-0760
SGE00638.A04	Mason, Scott. 2013. Storage: Pits Vs. Tanks.	EPA-HQ-OW-2014-0598-0760
SGE00638.A05	Murphy, Tom, and Jackson, Pat. 2013. Produced Water Challenge and an Integrated Planning Solution.	EPA-HQ-OW-2014-0598-0760
SGE00638.A06	Patch, Jon. 2013. Examining the Fresh Water Availability And Permitting of Source Water In the Brakken Region of North Dakota.	EPA-HQ-OW-2014-0598-0760
SGE00638.A07	Patton, Mark. 2013. Slickwater vs. Crosslink Gels: Identifying Which Frac Fluid Works Better with Produced Water (Recycling Case Study).	EPA-HQ-OW-2014-0598-0760
SGE00638.A08	Rein, Kevin. 2013. Oil and Gas Well Construction Regulation of Fresh Water Sources in Colorado.	EPA-HQ-OW-2014-0598-0760
SGE00638.A09	Thompson, T. 2013. Examining the Costs of Pipeline v Trucking to Determine if There is an Econ Benefit to Using Pipelines as the Prim Form of Transp.	EPA-HQ-OW-2014-0598-0760
SGE00638.A10	Cath, Tzahi. 2013. An Integrated Framework for Treatment and Management of Produced Water	EPA-HQ-OW-2014-0598-0760
SGE00638.A11	Walter, Dale. 2013. H2Oforward Service – Sustainable Development of Completions.	EPA-HQ-OW-2014-0598-0760
SGE00638.A12	Wilkerson, Tommy. 2013. Strategies for Sustainable Water Transport Lessons Learned in the Marcellus Applied to the Niobrara.	EPA-HQ-OW-2014-0598-0760
SGE00639	Nicot et al. 2012. Oil & Gas Water Use in Texas: Update to the 2011 Mining Water Use Report. Univ of TX at Austin. (September)	EPA-HQ-OW-2014-0598-0106

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DCN	Citation	EPA Docket Number
SGE00640	Mingazetdinov, Ildus. 2012. Predictions Of Produced Water Quality And Quantity For Spatially-Distributed Wells In Niobrara Formation	EPA-HQ-OW-2014-0598-0107
SGE00641	Nicot, Jean-Philippe. 2013. Geographical, Geological, and Hydrogeological Attributes of Formations in the Footprint of the Eagle Ford Shale.	EPA-HQ-OW-2014-0598-0108
SGE00642	Goodwin, S., et al. 2012. Life Cycle Analysis of Water Use and Intensity of Oil and Gas Recovery in Wattenberg field. (May 7).	EPA-HQ-OW-2014-0598-0109
SGE00643	Wyoming Oil and Gas Conservation Commission. 2013. Download Production.	EPA-HQ-OW-2014-0598-0543
SGE00644	New Mexico Energy, Minerals and Natural Resources Department (NMEMND). 2014. OCD Permitting: Well Search.	EPA-HQ-OW-2014-0598-0544
SGE00644.A01	Wade, Gabriel. 2015. Copyright data clarification for US EPA (NM EMNRD).	EPA-HQ-OW-2014-0598-0544
SGE00645	ALL Consulting. 2011. Vendor Profile: 212 Resources.	EPA-HQ-OW-2014-0598-0110
SGE00646	ALL Consulting. 2011. Vendor Profile: AquaTech.	EPA-HQ-OW-2014-0598-0111
SGE00647	ALL Consulting. 2011. Vendor Profile: Ecosphere Technologies, Inc.	EPA-HQ-OW-2014-0598-0112
SGE00648	ALL Consulting. 2011. Vendor Profile: Fountain Quail.	EPA-HQ-OW-2014-0598-0113
SGE00649	ALL Consulting. 2011. Vendor Profile: GeoPure Hydrotechnologies.	EPA-HQ-OW-2014-0598-0114
SGE00650	ALL Consulting. 2011. Vendor Profile: INTEVRAS Technologies, LLC.	EPA-HQ-OW-2014-0598-0115
SGE00651	ALL Consulting. 2011. Vendor Profile: MISWACO.	EPA-HQ-OW-2014-0598-0116
SGE00652	ALL Consulting. 2011. Vendor Profile: Veolia.	EPA-HQ-OW-2014-0598-0117
SGE00653	Ali, E., Yaakob, Z. 2012. Electro coagulation for Treatment of Industrial Effluents and Hydrogen Production.	EPA-HQ-OW-2014-0598-0118
SGE00654	Atlas, Rt. 2006. Purification of Brackish Water using Hybrid CDI-EDI Technology. Online at: http://ipec.utulsa.edu/Conf2007/Papers/Atlas_77a.pdf	EPA-HQ-OW-2014-0598-0119
SGE00655	Baker Hughes. 2012. H2prO HMS Water Management Service.	EPA-HQ-OW-2014-0598-0120
SGE00656	Bosque Systems, LLC. 2013. Water Trmt Solutions Using Electro Coagulation. http://www.bosquesystems.com/pdf/INSMWR06-13%20-%20MWRU%20-%20Bosque.pdf	EPA-HQ-OW-2014-0598-0121
SGE00657	Brant , J. Unk. Oil and Gas Produced Water Treatment Technologies. Online at: http://nexusgroupsolutions.com/TechnicalBrief_Produced%20Waters.pdf	EPA-HQ-OW-2014-0598-0122
SGE00658	Panu, Marc et al. 2013. Design of a Mobile Wastewater Treatment System for Hydraulic Fracturing Waste. Chevron Group. (April 19).	EPA-HQ-OW-2014-0598-0123
SGE00659	Christen, K. 2006. Desalination technology could clean up wastewater from coal-bed methane production. http://pubs.acs.org/doi/abs/10.1021/es062630s .	EPA-HQ-OW-2014-0598-0124

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DCN	Citation	EPA Docket Number
SGE00660	CO Department Of Public Health And Env. 2011. CDPS Fact Sheet To Permit Number Co0048739 Bopco, L.P., Yellow Creek Water Mgmt Facility Rio Blanco Co.	EPA-HQ-OW-2014-0598-0125
SGE00661	Hause, Jennifer et al. 2010. Zero Discharge Water Management for Horizontal Shale Gas Well Development.	EPA-HQ-OW-2014-0598-0126
SGE00662	Emis. 2010. Membrane Distillation. Available online at: http://www.emis.vito.be/techniekfiche/membrane-distillation?language=en	EPA-HQ-OW-2014-0598-0127
SGE00663	Gryta, Marek. 2011. Water Desalination by Membrane Distillation. Available online at: http://www.intechopen.com/download/get/type/pdfs/id/13752	EPA-HQ-OW-2014-0598-0128
SGE00664	Heartland Technologies, LLC. 2013. Produced Water Treatment. Online: http://www.heartlandtechnologypartners.com/solutions/produced-water-treatment/ .	EPA-HQ-OW-2014-0598-0129
SGE00665	Hickenbottom, Kerri L. et al. 2013. Forward osmosis treatment of drilling mud and fracturing wastewater from oil and gas operations.	EPA-HQ-OW-2014-0598-0130
SGE00666	Kmx Corp. 2014. Membrane Distillation – Contaminated Water.	EPA-HQ-OW-2014-0598-0131
SGE00667	Lord, R. LeBas; Luna, D.; Shahan, T. 2013. Development and Use of High-TDS Recycled Produced Water for Crosslinked-Gel-Based Hydraulic Fracturing.	EPA-HQ-OW-2014-0598-0132
SGE00668	Mendez, Enrique. 2012. Sustainable desalination: Membrane distillation delivers greener clean water.	EPA-HQ-OW-2014-0598-0133
SGE00669	Nelson, Cecilia E., and Ghosh, Ashok Kumar. 2011. Membrane Technology for Produced Water in Lea County. (September).	EPA-HQ-OW-2014-0598-0134
SGE00670	Omni Water Solutions. 2014. Frac Water. Treating Flowback and Produced Water for Re-Use.	EPA-HQ-OW-2014-0598-0135
SGE00671	OriginOil. 2013. EWS Petro P160 “Clean-Frac: Process and Equipment Description. http://www.originoil.com/pdf/OriginOil-EWS-Petro-P160-Data-Sheet.pdf .	EPA-HQ-OW-2014-0598-0136
SGE00672	OriginOil. 2013. OriginOil’s Clean-Frac: An Overview. (June)	EPA-HQ-OW-2014-0598-0137
SGE00673	Porada, S. 2013. Review on the science and technology of water desalination by capacitive deionization.	EPA-HQ-OW-2014-0598-0138
SGE00674	Purestream. 2011. Welcome to Purestream. Available online at: http://purestreamtechnology.com/downloads/purestream-technology-overview-2011.pdf	EPA-HQ-OW-2014-0598-0139
SGE00675	Shafer, Lee. 2010. A Working Model for Oil and Gas Produced Water Treatment.	EPA-HQ-OW-2014-0598-0140
SGE00676	Shelp, G. 2004. The DesEl System – Capacitive Deionization for the Removal of Ionic Contaminants from Water.	EPA-HQ-OW-2014-0598-0141
SGE00677	Tinto, Joseph, and Solomon, Robert. 2012. Water Recovery via Thermal Evaporative Processes for High Saline Frac Water Flowback.	EPA-HQ-OW-2014-0598-0142
SGE00678	Walton, J. 2004. Solar and Waste Heat Desalination by Membrane Distillation. Online at: http://www.usbr.gov/research/AWT/reportpdfs/report081.pdf	EPA-HQ-OW-2014-0598-0143
SGE00679	Wickramasinghe, R., Jones, S. 2013. Treating Hydraulic Fracturing Flowback Waters: Potential New Membrane Applications Webinar. (Dec 11).	EPA-HQ-OW-2014-0598-0144

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DCN	Citation	EPA Docket Number
SGE00680	Xu, Pei. 2008. Treatment of Brackish Produced Water Using Carbon Aerogel-based Capacitive Deionization Technology.	EPA-HQ-OW-2014-0598-0145
SGE00681	Yukon College. 2012. Capacitive Deionization in Mine Water Recycling. http://www.yukoncollege.yk.ca/research/projects/capacitive_deionization .	EPA-HQ-OW-2014-0598-0146
SGE00682	ALL Consulting. 2011. Vendor Profile: Altela	EPA-HQ-OW-2014-0598-0147
SGE00683	ALL Consulting. 2011. Water Treatment Technology Fact Sheet: Reverse Osmosis.	EPA-HQ-OW-2014-0598-0148
SGE00684	Coday, B.D. et al. 2014. The sweet spot of forward osmosis: Trmt of produced water, drilling ww, and other complex and difficult liquid streams.	EPA-HQ-OW-2014-0598-0149
SGE00685	Global Water Intelligence. 2011. Produced Water Recycling Oasis flourishes in Wyoming. (February).	EPA-HQ-OW-2014-0598-0150
SGE00686	U.S. EPA. 2011. Proceedings of the Technical Workshops for the Hydraulic Fracturing Study: Water Resources Management. EPA 600/R-11/048. (May).	EPA-HQ-OW-2014-0598-0151
SGE00687	AquaTech International Corporation. 2011. Mobile Water Pre-treatment System. Online at: http://www.aquatech.com/portals/0/MoTreat%20Cut%20Sheet-02.pdf	EPA-HQ-OW-2014-0598-0152
SGE00688	AquaTech International Corporation. 2011. Mobile Water Distillation System. Online at: http://www.aquatech.com/portals/0/MoVap%20Cut%20Sheet-01.pdf	EPA-HQ-OW-2014-0598-0153
SGE00689	M-I SWACO. 2009. Frac Water Reclamation System Reduces Operator's Water Cost.	EPA-HQ-OW-2014-0598-0154
SGE00690	ALL Consulting, LLC. 2006. A Guide to Practical Management of Produced Water from Onshore Oil and Gas Operations in the United States	EPA-HQ-OW-2014-0598-0155
SGE00691	U.S. EPA. 2013. Summary of the Technical Workshop on Water Acquisition Modeling: Assessing Impacts Through Modeling and Other Means. (September).	EPA-HQ-OW-2014-0598-0156
SGE00692	U.S. EPA. 2015. Unconventional Oil & Gas Wastewater Treatment Technologies. U.S. EPA Office of Water, Engineering and Analysis Division	EPA-HQ-OW-2014-0598-0682
SGE00692.A01	U.S. EPA. 2015. UOG WW Treatment Technologies – Attachment 1: Treatment Technology Costs Spreadsheet	EPA-HQ-OW-2014-0598-0682
SGE00693	ERG. 2015. Data Compilation Memorandum for the Technical Development Document (TDD).	EPA-HQ-OW-2014-0598-0679
SGE00693.A01	ERG. 2015. Data Compilation Memorandum for the Technical Development Document (TDD) for Proposed Effluent Limitations Guidelines and Standards for Oil and Gas Extraction	EPA-HQ-OW-2014-0598-0679
SGE00693.A02	ERG. 2015. Data Compilation Memorandum for the Technical Development Document (TDD) for Proposed Effluent Limitations Guidelines and Standards for Oil and Gas Extraction	EPA-HQ-OW-2014-0598-0679
SGE00693.A03	ERG. 2015. Data Compilation Memorandum for the Technical Development Document (TDD) for Proposed Effluent Limitations Guidelines and Standards for Oil and Gas Extraction	EPA-HQ-OW-2014-0598-0679

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DCN	Citation	EPA Docket Number
SGE00694	Oklahoma Geological Survey. 2014. Gas Shale Database. Accessed January 29, 2014.	EPA-HQ-OW-2014-0598-0157
SGE00695	U.S. Environmental Protection Agency (U.S. EPA). 2012. Conference Call with ConocoPhillips About Shale Gas Operations.	EPA-HQ-OW-2014-0598-0158
SGE00696	U.S. Environmental Protection Agency (U.S. EPA). 2013. Meeting with IPAA about the Unconventional Oil and Gas Effluent Guideline Rulemaking.	EPA-HQ-OW-2014-0598-0625
SGE00699	Meghan Camp, Brent Ruminski. ERG. 2012. Notes on Meeting with Lamnpipe, Inc. on 8 February 2012.	EPA-HQ-OW-2014-0598-0626
SGE00704	U.S. EPA. 2015. Technical Development Document for Proposed Effluent Limitations Guidelines and Standards for Oil and Gas Extraction.	EPA-HQ-OW-2014-0598-0683
SGE00705	ERG. 2014. Ruminski, Brent. Notes on Call with Hydrozonix, LLC on 7 February 2014. (March 7.)	EPA-HQ-OW-2014-0598-0159
SGE00706	Ecosphere Energy Services, LLC. 2011. 100 percent Frac Water Recycling – Strategy & Focus Ozonix®. (April 13).	EPA-HQ-OW-2014-0598-0627
SGE00707	Horn, A; Patton, M; Hu, J. 2013. Minimum Effective Dose: A Study of Flowback and Produced Fluid Treatment for Use as Hydraulic Fracturing Fluid.	EPA-HQ-OW-2014-0598-0684
SGE00708	Environmental Leader. 2013. Unconventional E&P “\$8 Billion of US Water Services Market.” (November 11).	EPA-HQ-OW-2014-0598-0160
SGE00709	Natural Gas Europe. 2012. Flowback Water Driving Flurry of Activity in Water Treatment (May 22).	EPA-HQ-OW-2014-0598-0161
SGE00710	Slutz, J; Anderson, J; Broderick, R; Horner, P. 2012. Key Shale Gas Water Management Strategies: An Economic Assessment Tool. (September 11).	EPA-HQ-OW-2014-0598-0162
SGE00711	Devon Energy. Unknown. Cana Water Reuse Project Helps Devon Overcome Drought.	EPA-HQ-OW-2014-0598-0163
SGE00712	Pennsylvania Department of Environmental Protection. 2014. Spud Data Report. Accessed on 2/21/2014.	EPA-HQ-OW-2014-0598-0632
SGE00713	McIntire, Carrol. 2014. Chesapeake Officials Show Off Their New Water Recycling Facility. Free Press Standard. (February 14).	EPA-HQ-OW-2014-0598-0164
SGE00714	Ziemkiewicz, Paul et al. 2012. Zero Discharge Water Management for Horizontal Shale Gas Well Development.	EPA-HQ-OW-2014-0598-0165
SGE00717	U.S. EPA. 2013. Meeting with Purestream Technology about Treatment Technologies Relevant to the Unconventional Oil and Gas Industry. (November 8).	EPA-HQ-OW-2014-0598-0166
SGE00718	U.S. Environmental Protection Agency (U.S. EPA). 2014. Meeting with John Crane about Treatment Technologies. (February 11).	EPA-HQ-OW-2014-0598-0705
SGE00719	Agrawal, Archana. 2009. A Technical and Economical Study of Completion Techniques in Five Emerging U.S. Shale Plays. (December).	EPA-HQ-OW-2014-0598-0167
SGE00720	Kansas Geological Survey. 2014. Horizontal or Slant Wells in Kansas. Last updated 2/8/2014. Accessed on 3/17/2014.	EPA-HQ-OW-2014-0598-0168
SGE00721	U.S. EPA. 2015. Analysis of Hydraulic Fracturing Fluid Data from the FracFocus Chemical Disclosure Registry 1.0. (March).	EPA-HQ-OW-2014-0598-0628
SGE00722	IHS. 2012. Water Management in Shale Gas Plays. (August)	EPA-HQ-OW-2014-0598-0169
SGE00723	Agency for Toxic Substances & Disease Registry (ATSDR). 2006. Hydrogen Sulfide ToxFAQs. (July).	EPA-HQ-OW-2014-0598-0629

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DCN	Citation	EPA Docket Number
SGE00724	ERG. 2015. Unconventional Oil and Gas (UOG) Produced Water Volumes and Characterization Data Compilation Memorandum	EPA-HQ-OW-2014-0598-0677
SGE00724.A01	ERG. 2015. Unconventional Oil and Gas (UOG) Produced Water Volumes and Characterization Data Compilation —A01: UOG Produced Water Data Compilation.	EPA-HQ-OW-2014-0598-0677
SGE00724.A02	ERG. 2015. UOG Produced Water Volumes and Characterization Data Compilation – A02: DI Desktop Long-term Produced Water Rates	EPA-HQ-OW-2014-0598-0677
SGE00724.A03	ERG. 2015. UOG Produced Water Volumes and Characterization Data Compilation—A03: DI Desktop Long-term Produced Water Rates	EPA-HQ-OW-2014-0598-0677
SGE00724.A04	ERG. 2015. Unconventional Oil and Gas (UOG) Produced Water Volumes and Characterization Data Compilation—A04: FracFocus Fracturing Fluid Volume	EPA-HQ-OW-2014-0598-0677
SGE00724.A05	ERG. 2015. Unconventional Oil and Gas (UOG) Produced Water Volumes and Characterization Data Compilation—A05: FracFocus Fracturing Fluid Volume	EPA-HQ-OW-2014-0598-0677
SGE00724.A06	ERG. 2015. Unconventional Oil and Gas (UOG) Produced Water Volumes and Characterization Data Compilation—A06: Bakken Flowback Water Rates	EPA-HQ-OW-2014-0598-0677
SGE00724.A07	ERG. 2015. Unconventional Oil and Gas (UOG) Produced Water Volumes and Characterization Data Compilation—A07: New Mexico Flowback Water Rates.	EPA-HQ-OW-2014-0598-0677
SGE00724.A08	ERG. 2015. Unconventional Oil and Gas (UOG) Produced Water Volumes and Characterization Data Compilation—A08: Utica Flowback and Produced Water.	EPA-HQ-OW-2014-0598-0677
SGE00724.A09	ERG. 2015. Unconventional Oil and Gas (UOG) Produced Water Volumes and Characterization Data Compilation—A09: Niobrara Produced Water Rates.	EPA-HQ-OW-2014-0598-0677
SGE00724.A10	ERG. 2015. Unconventional Oil and Gas (UOG) Produced Water Volumes and Characterization Data Compilation—A10: Wyoming Flowback Water Rates	EPA-HQ-OW-2014-0598-0677
SGE00724.A11	ERG. 2015. Unconventional Oil and Gas (UOG) Produced Water Volumes and Characterization Data Compilation—A11: Wattenberg Produced Water Rates.	EPA-HQ-OW-2014-0598-0677
SGE00724.A12	ERG. 2015. Unconventional Oil and Gas (UOG) Produced Water Volumes and Characterization Data Compilation—A12: Colorado Flowback Water Rates.	EPA-HQ-OW-2014-0598-0677
SGE00724.A13	ERG. 2015. UOG Produced Water Volumes and Characterization Data Compilation – A13: UOG Wastewater Characterization Analysis	EPA-HQ-OW-2014-0598-0677
SGE00724.A14	ERG. 2015.. UOG Produced Water Volumes and Characterization Data Compilation – A14: UOG Wastewater Characterization Database	EPA-HQ-OW-2014-0598-0677
SGE00724.A15	ERG. 2015. Unconventional Oil and Gas (UOG) Produced Water Volumes and Characterization Data Compilation – A15: USGS Produced Water Database	EPA-HQ-OW-2014-0598-0677
SGE00724.A16	ERG. 2015. Unconventional Oil and Gas (UOG) Produced Water Volumes and Characterization Data Compilation – A16: USGS Produced Water Database	EPA-HQ-OW-2014-0598-0677

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DCN	Citation	EPA Docket Number
SGE00724.A17	ERG. 2015. Unconventional Oil and Gas (UOG) Produced Water Volumes and Characterization Data Compilation – A17: ORD Non-CBI Operator Data	EPA-HQ-OW-2014-0598-0677
SGE00725	Wolford, Robert. 2011. Characterization of Organics in the Marcellus Shale Flowback and Produced Waters. (August).	EPA-HQ-OW-2014-0598-0170
SGE00726	Biddle, Lisa. 2015. Information about Underground Injection for Disposal Wells in New York State	EPA-HQ-OW-2014-0598-0685
SGE00727	Ohio Department of Natural Resources (OH DNR). 2014. 2013 Quarterly Horizontal Shale Production: 3 rd Quarter.	EPA-HQ-OW-2014-0598-0171
SGE00727.A01	OH DNR. 2015. OH DNR Signed Copyright Release	EPA-HQ-OW-2014-0598-0171
SGE00729	Iron Eagle. 2014. Iron Eagle Opens Water Recycling Facility to Serve Oil and Gas Industry.	EPA-HQ-OW-2014-0598-0172
SGE00730	Aspen Fluid Logistics. 2014. Aspen Fluid Logistics: Industrial Wastewater Recycling. Accessed on 4/15/2014.	EPA-HQ-OW-2014-0598-0173
SGE00731	Silva, J; Gettings, R; Kostedt, W; Watkins, V. 2013. Pretreatment Targets for Salt Recovery from Marcellus Shale Gas Produced Water.	EPA-HQ-OW-2014-0598-0174
SGE00732	Huffmyer, Russell and Gehucheten, John. 2013. Recovering Valuable Byproducts from Oil and Gas Wastes. HDR Engineering, Inc. IWC-13-37. (November 17).	EPA-HQ-OW-2014-0598-0175
SGE00733	National Petroleum Council (NPC). 2011. Waste Management Paper #2-24. Technology Subgroup of the Operations & Environment Task Group. (September 15).	EPA-HQ-OW-2014-0598-0176
SGE00734	Boschee, Pam. 2014. Produced and Flowback Water Recycling and Reuse: Economics, Limitations, and Technology. (February).	EPA-HQ-OW-2014-0598-0177
SGE00735	Eshelman, Keith N.; Elmore, Andrew. 2013. Recommended Best Management Practices for Marcellus Shale Gas Development in Maryland. (February 18).	EPA-HQ-OW-2014-0598-0178
SGE00736	ERG. 2015. Analysis of Active Underground Injection for Disposal Wells.	EPA-HQ-OW-2014-0598-0680
SGE00736.A01	ERG. 2015. Analysis of Active Underground Injection for Disposal Wells—Attachment 1: Injection for Disposal Well Data.	EPA-HQ-OW-2014-0598-0680
SGE00737	Ohio Department of Natural Resources (OH DNR). 2014. 2013 Quarterly Horizontal Shale Production: 4 th Quarter.	EPA-HQ-OW-2014-0598-0651
SGE00737.A01	OH DNR. 2015. OH DNR Signed Copyright Release	EPA-HQ-OW-2014-0598-0651
SGE00738	Livingston, Doug. 2013. Water Recycling: The Cure for Drillers' Drinking Problem? Shale Magazine.	EPA-HQ-OW-2014-0598-0179
SGE00739	ERG. 2015. Analysis of Pennsylvania Department of Environmental Protection's Oil and Gas Waste Reports.	EPA-HQ-OW-2014-0598-0663
SGE00739.A01	ERG. 2015. Analysis of Pennsylvania Department of Environmental Protection's Oil and Gas Waste Reports – Attachment 1 – Development Database.	EPA-HQ-OW-2014-0598-0663
SGE00739.A02	ERG. 2015. Analysis of Pennsylvania Department of Environmental Protection's Oil and Gas Waste Reports – Attachment 2 – Analysis Database.	EPA-HQ-OW-2014-0598-0663
SGE00739.A03	ERG. 2015. Analysis of Pennsylvania Department of Environmental Protection's Oil and Gas Waste Reports – Attachment 3 – Data Calculations.	EPA-HQ-OW-2014-0598-0663

Table 3. Crosswalk for All Documents Supporting the Proposed Effluent Limitation Guidelines and Standards for the Oil and Gas Extraction Point Source Category

DCN	Citation	EPA Docket Number
SGE00740	ERG. 2015. Unconventional Oil and Gas (UOG) Drilling Wastewater Memorandum	EPA-HQ-OW-2014-0598-0672
SGE00740.A01	ERG. 2015. Oil and Gas Drilling Wastewater Memorandum Attachment 1: UOG Drilling Wastewater Volume and Characterization Data Excel File.	EPA-HQ-OW-2014-0598-0672
SGE00742	U.S. EPA. 2012. States Pretreatment Coordinators' Quarterly Conference Call: Summary. (August 8).	EPA-HQ-OW-2014-0598-0180
SGE00743	U.S. EPA. 2013. States Pretreatment Coordinators' Bi-monthly Conference Call. (August 14).	EPA-HQ-OW-2014-0598-0181
SGE00744	U.S. Environmental Protection Agency (U.S. EPA). 2011. Notice of Final 2010 Effluent Guidelines Program Plan. (October 26).	EPA-HQ-OW-2014-0598-0182
SGE00745	KLH Engineers. 2011. Municipal Authority of the City of McKeesport: Headworks Loading Analysis for Natural Gas Drilling Wastewater Pollutants. (Mar).	EPA-HQ-OW-2014-0598-0183
SGE00746	Franklin Township Sewer Authority. 2008. Franklin Township WWTP Fact Sheet/Statement of Basis (NPDES PA0046426). (June 2).	EPA-HQ-OW-2014-0598-0184
SGE00747	PA DEP. 2008. Consent Order and Agreement between Franklin Township Sewer Authority/Wastewater Treatment Plant and Clean Streams	EPA-HQ-OW-2014-0598-0185
SGE00748	PG Environmental, LLC. 2009. Clairton Municipal Authority POTW Pass-Through Analysis Appendices. (August 19).	EPA-HQ-OW-2014-0598-0186
SGE00749	City of Clarksburg. 2009. Re: Clean Water Act Section 308 Request for Information. (March 2).	EPA-HQ-OW-2014-0598-0187
SGE00750	Borough of Waynesburg. 2009. Waynesburg Response to Clean Water Act Section 308 Request for Information. (March 31).	EPA-HQ-OW-2014-0598-0188
SGE00751	Borough of Charleroi. 2008. Re: Authority of the Borough of Charleroi Administrative Order. (November 21).	EPA-HQ-OW-2014-0598-0189
SGE00752	Boschee, Pam. 2014. Produced and Flowback Water Recycling and Reuse. (February).	EPA-HQ-OW-2014-0598-0190
SGE00753	Keister, T. 2010. Marcellus Hydrofracture Flowback and Production WW Treatment, Recycle, and Disposal Technologies. (January 29).	EPA-HQ-OW-2014-0598-0191
SGE00754	Vengosh, A., et al. 2014. A Critical Review of the Risks to Water Resources from Unconventional Shale Gas Dev & Hydraulic Fracturing in the US.	EPA-HQ-OW-2014-0598-0192
SGE00755	Pennsylvania Department of Environmental Protection (PA DEP). 2011. NPDES Permit No. PA0023213 (Borough of Ridgway). (October).	EPA-HQ-OW-2014-0598-0193
SGE00756	Hill Engineering, Inc. 2014. Re: Local Limits Analysis for Ridgway Borough. (January 9).	EPA-HQ-OW-2014-0598-0194
SGE00757	KLH Engineers. 2008. Tech Evaluation of the Impact of O&G Well Wastewaters on the Municipal Authority of the City of McKeesport WW Trmt Facility.	EPA-HQ-OW-2014-0598-0195
SGE00758	KLH Engineers. 2009. Technical Evaluation of the Impact of O&G Well WW on the Clairton Municipal Authority Wastewater Treatment Facility. (February)	EPA-HQ-OW-2014-0598-0196
SGE00759	KLH Engineers. 2006. City of Wheeling: Water Pollution Control Division Headworks Loading Analysis. (November).	EPA-HQ-OW-2014-0598-0197
SGE00760	Freyman, Monika. 2014. Hydraulic Fracturing & Water Stress: Water Demand by the Numbers. Ceres. (February).	EPA-HQ-OW-2014-0598-0198

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DCN	Citation	EPA Docket Number
SGE00761	U.S. EPA. 1989. Letter from T.P. O'Farrell (EPA) to C.B. Harriman (Stephoe & Johnson) about applicability of 40 CFR 435 Subpart C to CBM operations.	EPA-HQ-OW-2014-0598-0630
SGE00762	Biddle, Lisa. 2015. Summary of EPA-State Pilot on Improving Regulatory Implementation	EPA-HQ-OW-2014-0598-0199
SGE00763	Pennsylvania Department of Environmental Protection (PA DEP). 2014. Oil and Gas Reporting – Electronic (OGRE) Public Reporting Data Dictionary, v1.0.	EPA-HQ-OW-2014-0598-0200
SGE00764	U.S. Environmental Protection Agency (U.S. EPA). 2014. Tribal Unconventional Oil and Gas Operations and Wastewater Management Call Summary. (May 29).	EPA-HQ-OW-2014-0598-0201
SGE00765	U.S. Environmental Protection Agency (U.S. EPA). 1982. Fate of Priority Toxic Pollutants in Publicly Owned Treatment Works, Final Report. (July).	EPA-HQ-OW-2014-0598-0631
SGE00766	U.S. EPA. 2014. Lockhart, John V. Email Correspondence between WV DEP and EPA. (June 3).	EPA-HQ-OW-2014-0598-0202
SGE00767	WV DEP. 2010. Letter to City of Follansbee Re: WV/NPDES Permit No. WV0020273 Accepting Oil and Gas Wastewater. (December 15).	EPA-HQ-OW-2014-0598-0203
SGE00768	ERG. 2014. 2014 Water Management for Shale Plays West Presentations. (June 4).	EPA-HQ-OW-2014-0598-0706
SGE00768.A01	Robart, Alexander. 2014. E&P Infrastructure vs. Third-Party Services Regional Economic & Environmental Factors. PacWest Consulting Partners.	EPA-HQ-OW-2014-0598-0706
SGE00768.A02	Goltz, Bob. 2014. Removing Boron and Benzene from Produced Water. Dow Energy & Water. (May 30).	EPA-HQ-OW-2014-0598-0706
SGE00768.A03	Poole, Bob. 2014. Analyzing AB32 and CEQA To Realize Requirements and Navigate Between Reg. Demands for Cyclic Steam Injection Proj. (May 30).	EPA-HQ-OW-2014-0598-0706
SGE00768.A04	Poole, Bob. 2014. Examining The Successful Implem. Of An Innovative Partnership With a Producer And Co. Gov't to Deliver Trt. Residen. H2O. (May 30).	EPA-HQ-OW-2014-0598-0706
SGE00768.A05	Giles, Brent. Basic Stormwater Management: Leveraging Innovation. Luxresearch.	EPA-HQ-OW-2014-0598-0706
SGE00768.A06	Ritts, Dean. 2014. Air Pollution Emissions at Flowback/Produced Wastewater Treatment Plants. WorleyParsons.	EPA-HQ-OW-2014-0598-0706
SGE00768.A07	Onyskiw, Denise. 2014. Seismicity Concerns for Underground Injection. Onyskiw Engineering, LLC. (May 30).	EPA-HQ-OW-2014-0598-0706
SGE00768.A08	Wolfe, Dick. 2014. Water Management Strategies in the Niobrara Shale & Piceance Basins. Colorado Division of Water Resources. (May 28).	EPA-HQ-OW-2014-0598-0706
SGE00768.A09	Peterson, Eric. 2014. Water Disposal – An Assessment of Disposal Wells and Facilities. NGL Energy Partners LP. (May 30).	EPA-HQ-OW-2014-0598-0706
SGE00768.A10	Nochowicz, Georgi. Relationship between the Shale Oil & Gas Industry and High Quality Water Cycle. Halliburton.	EPA-HQ-OW-2014-0598-0706
SGE00768.A11	Harris, John; Paul Williams. SB 4 Interim Well Stimulation Treatment Regulations Text of Proposed Regulations. Dentons US LLP.	EPA-HQ-OW-2014-0598-0706
SGE00768.A12	Harris, John; Paul Williams. 2014. Water Management for California Shale Plays California Legal and Regulatory Issues. Dentons US LLP. (May 28).	EPA-HQ-OW-2014-0598-0706

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DCN	Citation	EPA Docket Number
SGE00768.A13	Wirtz, Jaret. 2014. North Dakota Regulatory Update. Western Area Water Supply Authority. (May 28).	EPA-HQ-OW-2014-0598-0706
SGE00768.A14	Johnson, Tommy; David Harry. 2014. Uinta Water Management. RockWater Energy Solutions. (May 28).	EPA-HQ-OW-2014-0598-0706
SGE00768.A15	Davidson, Keith. 2014. C7 Produced Water Recycling Pipeline. Tetra Tech. (May 30).	EPA-HQ-OW-2014-0598-0706
SGE00768.A16	Sampson, Dan. Zero Liquid Discharge Capability, Experience, and Overview. WorleyParsons.	EPA-HQ-OW-2014-0598-0706
SGE00768.A17	Royse, Ken. Water Management in the Bakken. Bartlett & West.	EPA-HQ-OW-2014-0598-0706
SGE00768.A18	Rein, Kevin. 2014. Produced Water from Oil and Gas Development in Colorado. Colorado Division of Water Resources. (May 28).	EPA-HQ-OW-2014-0598-0706
SGE00768.A19	Bruff, Matthew. 2014. Sustainable Water Treatment, Recycling & Disposal Practices in Shale Basins. Altela, Inc. (May 30).	EPA-HQ-OW-2014-0598-0706
SGE00768.A20	Zaugg, Nathan. 2014. Storing Water On-Site to Maximize Environmental and Economic Efficiencies. MWH.	EPA-HQ-OW-2014-0598-0706
SGE00768.A21	Nichols, Ken; Lindsay Atkinson. 2014. Identifying Viable Water Sourcing Alternatives Beyond Freshwater. CH2M Hill. (May 30).	EPA-HQ-OW-2014-0598-0706
SGE00768.A22	Wolfe, D. 2010. Concerning Petitions to the State Engineer to Make Determinations of Nontributary Ground Water in the Dept. of Nat. Res. (Jul 23).	EPA-HQ-OW-2014-0598-0706
SGE00768.A23	Wolfe, D. Water Sources and Demand for the Hydraulic Fracturing of Oil and Gas Wells in Colorado from 2010 through 2015. Dept. of Nat. Res.	EPA-HQ-OW-2014-0598-0706
SGE00768.A24	Smith, Robert. 2014. Sovereign Authority of Decision Making for Water Resources Management... Who Has It? Express Energy Services. (May 29).	EPA-HQ-OW-2014-0598-0706
SGE00768.A25	Fletcher, Sarah. 2014. Water Management Infrastructure Investments: Decision Factors and Regional Economics.	EPA-HQ-OW-2014-0598-0706
SGE00768.A26	Tucker, Scott. 2014. Evaluating Characteristics of Source, Flowback, & Produced Water for Effective Water Treatment. (May 29).	EPA-HQ-OW-2014-0598-0706
SGE00768.A27	Wilson, Scott. 2014. Overview of EPA Authorities for Water Associated with Oil and Gas Extraction. USEPA Office of Water. (May 30).	EPA-HQ-OW-2014-0598-0706
SGE00768.A28	Hughes, Stephen. 2014. Treating Produced Water to Generate Beneficial Reuse Byproducts. Tetra Tech. (May 29).	EPA-HQ-OW-2014-0598-0706
SGE00769	International Atomic Energy Agency (IAEA). 2014. The Environmental Behaviour of Radium: Revised Edition. Technical Report Series No. 476. (March 1).	EPA-HQ-OW-2014-0598-0204
SGE00770	Shutt, Doug. 2014. Email Correspondence between IL Office of Oil and Gas Resource Management and EPA. (May 30).	EPA-HQ-OW-2014-0598-0205
SGE00771	Bureau of Indian Affairs (BIA). Unknown. Oil and Gas Outlook in Indian Country.	EPA-HQ-OW-2014-0598-0652
SGE00772	Lodge, Terry. 2014. Demand for revocation of Chief's Orders for drilling waste disposal facilities. Terry Jonathan Lodge Law Office. (June 3).	EPA-HQ-OW-2014-0598-0206
SGE00773	Helmer, Stephen. 2014. RE: Public Records Request – Frack Waste – Solids and Fluids – Norm. (January 14). Tenorm	EPA-HQ-OW-2014-0598-0207

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DCN	Citation	EPA Docket Number
SGE00774	Ziemkiewicz, P. 2013. Water Quality Literature Review and Field Monitoring of Active Shale Gas Wells. (February 15).	EPA-HQ-OW-2014-0598-0208
SGE00775	Kieler, Janet. 2012. CDPS General Permit for Discharges Associated with Produced-Water Treatment Facilities. (January 30).	EPA-HQ-OW-2014-0598-0209
SGE00777	Johnson, Tommy and Harry, David. 2014. Uinta Water Management. Water Management for Shale Plays Conference. (May 28).	EPA-HQ-OW-2014-0598-0633
SGE00778	U.S. Energy Information Administration (EIA). 2014. Drilling Productivity Report: Bakken. (June).	EPA-HQ-OW-2014-0598-0210
SGE00779	ERG. 2015. 2014 A&WMA Oil and Gas Environmental Compliance Conference Presentations Memorandum.	EPA-HQ-OW-2014-0598-0211
SGE00779.A01	2014. Copyright Information.	EPA-HQ-OW-2014-0598-0211
SGE00779.A02	Hopkins, Michael. Air Permitting for Oil & Gas Facilities in Ohio. Ohio EPA.	EPA-HQ-OW-2014-0598-0211
SGE00779.A03	Jennings, Laura. 2014. WVA's Air Quality General Permit for Oil and Natural Gas Production Facilities (G70-A). WV DEP, Div. of Air Quality. (May 13).	EPA-HQ-OW-2014-0598-0211
SGE00779.A04	PA Dept. of Env. Protection. 2014. Air Quality Permitting of Natural Gas Drilling, Compression and Processing Facilities in Pennsylvania. (May 13).	EPA-HQ-OW-2014-0598-0211
SGE00779.A05	Bosquez, Ted. 2014. Update on ORSANCO Water Quality Programs. Morgan, Lewis & Bockius LLP. (May 13).	EPA-HQ-OW-2014-0598-0211
SGE00779.A06	Powell, Beth. Secondary Containment: Regulations & BMPs. New Pig Energy.	EPA-HQ-OW-2014-0598-0211
SGE00779.A07	Slagel, Gary. Pennsylvania Act 13 Issues & Concerns. Steptoe & Johnson.	EPA-HQ-OW-2014-0598-0211
SGE00779.A09	Maher, Thomas. 2014. Oil & Gas Exploration and Production Waste Regulations in Ohio. Civil & Environmental Consultants, Inc. (May 13).	EPA-HQ-OW-2014-0598-0211
SGE00779.A10	Socash, Stephen. Management of Oil and Gas Waste in Pennsylvania. Bureau of Waste Management PADEP.	EPA-HQ-OW-2014-0598-0211
SGE00779.A11	Muscenti, Tom. 2014. Evaluating Well Pad Permitting in the Appalachian Basin. Trinity Consultants. (May 13).	EPA-HQ-OW-2014-0598-0211
SGE00779.A12	Schmelzle, John. 2014. GP 12.1/12.2 Air Permitting of Oil and Gas Well Site Production Operations in Ohio. RETTEW. (May 13).	EPA-HQ-OW-2014-0598-0211
SGE00779.A13	Woerner, Andy. 2014. NSPS Subpart OOOO Lessons Learned... and a Look Ahead. ERM. (May 13).	EPA-HQ-OW-2014-0598-0211
SGE00779.A14	Daley, Jim. 2014. Site Planning, Design & Restoration to Support Desired Land Use. NGE. (May 13).	EPA-HQ-OW-2014-0598-0211
SGE00779.A15	Parker, Lauren. 2014. Erosion and Sediment Control for natural gas pipeline projects. Civil and Environmental Consultants, Inc. (May 13).	EPA-HQ-OW-2014-0598-0211
SGE00779.A16	Rinde, Jonathan. Successful Wetland Permitting for Oil and Gas Pipelines. Manko, Gold, Katcher & Fox, LLP.	EPA-HQ-OW-2014-0598-0211
SGE00779.A17	Allison, M. 2014. Decreasing Costs of Waste Stream Anal. By Implem. A Testing Reduct. Program and Utilizing Generator Knowledge. TETRATECH. (May 13).	EPA-HQ-OW-2014-0598-0211
SGE00779.A18	Costa, Brenda. Act 2 and the PA DEP Spill Policy. Moody and Associates, Inc.	EPA-HQ-OW-2014-0598-0211

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DCN	Citation	EPA Docket Number
SGE00779.A19	Silverman, Thomas. 2014. Drilling Mud Evaluation. EHS Support LLC. (May 13).	EPA-HQ-OW-2014-0598-0211
SGE00779.A20	Hennessey, Yvonne. 2004. Aggregation of Air Emissions – What Does Adjacency Really Mean. Hiscock & Barclay. (May 14).	EPA-HQ-OW-2014-0598-0211
SGE00779.A21	Hunt, Gary. 2014. Why Methane Matters. TRC Corporation. (May 13).	EPA-HQ-OW-2014-0598-0211
SGE00779.A22	Kantorczyk, T. 2014. OSHA and EPA Reg. of Release Prevent. Progr. For Oil&Gas Operations: A Primer and Update. Manko, Gold, Katcher & Fox. (May 14).	EPA-HQ-OW-2014-0598-0211
SGE00779.A23	Poffenberger, C. 2014. Air Permit Issues for Oil&Gas Operations:Unresolved EPA Rules and Recent Court Cases Affecting Air Permits. Bingham. (May 14).	EPA-HQ-OW-2014-0598-0211
SGE00779.A24	Mastowski, Ryan. 2014. Disposal—Oil and Gas Environmental Compliance Conference. A&WMA Conference. (May 13-14).	EPA-HQ-OW-2014-0598-0211
SGE00779.A25	RETTEW, 2014. Water Treatment – Oil and Gas Envirnoment Complaince Conference Appalachian Basin – Washington, PA May 13 – 14	EPA-HQ-OW-2014-0598-0211
SGE00779.A26	Silverman, Thomas. Managed Aquifer recharge Using Treated Coal Seam Gas Water. EHS Support LLC.	EPA-HQ-OW-2014-0598-0211
SGE00779.A27	Silverman, Thomas. Risk Assessment of Aquifer Connectivity Associated with Well and Bore Integrity. EHS Support LLC.	EPA-HQ-OW-2014-0598-0211
SGE00779.A28	EHS Support LLC. PBT Assessment of Hydraulic Fracturing Fluids from Coal Seam Gas Fields in Australia.	EPA-HQ-OW-2014-0598-0211
SGE00779.A29	Meloy, Michael. 2014. Pennsylvania’s Oil & Gas and Residual Waste Programs: Negotiating the Maze. Manko, Gold, Katcher & Fox, LLP. (May 14).	EPA-HQ-OW-2014-0598-0211
SGE00779.A30	Render, J. 2014. The More Things Change. . Assessing Social Risks in Ind. Swing Periods. Env. Resources Mgmt. (May 13).	EPA-HQ-OW-2014-0598-0211
SGE00779.A31	Wilson, Brad. 2014. The Phase 0 Approach Best Practices – Building Blocks and Roadmap for an EMIS Strategy. Env. Resources Management. (May 13).	EPA-HQ-OW-2014-0598-0211
SGE00779.A32	Keatley, Robert. 2014. NSPS OOOO & Fracking Air Quality Rule Updates. DEP – Division of Air Quality. (May 13).	EPA-HQ-OW-2014-0598-0211
SGE00779.A33	Kuntz, Timothy. 2014. Inspecting Natural Gas Compressor Stations in Pennsylvania. Pennsylvania Department of Env. Protection PADEP. (May 13).	EPA-HQ-OW-2014-0598-0211
SGE00779.A34	McCall, Duke. Hydraulic Fracturing (Fracking): Litigation Trends. Bingham.	EPA-HQ-OW-2014-0598-0211
SGE00779.A35	Smith, Stephen. 2014. Perspectives on Enforcement & Compliance. Steptoe & Johnson PLLC. (May 14).	EPA-HQ-OW-2014-0598-0211
SGE00779.A36	Stewart, A. 2014. EPA’s Energy Extraction National Enforcement Initiative. EPA. (May 14).	EPA-HQ-OW-2014-0598-0211
SGE00779.A37	Yoxtheimer, Dave. 2014. Emerging Trends in Shale Energy Development. Penn State Marcellus Center for Outreach and Research. (May 14).	EPA-HQ-OW-2014-0598-0211
SGE00779.A38	Blinn, Leah. 2014. Oil and Gas Environmental Compliance Conference Welcome and Introduction. Air & Waste Association. (May 13).	EPA-HQ-OW-2014-0598-0211
SGE00779.A39	Bosquez, Ted. 2014. Management of TENORM Practical Assessment. Morgan, Lewis & Bockius LLP. (May 13).	EPA-HQ-OW-2014-0598-0211

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DCN	Citation	EPA Docket Number
SGE00780	ExxonMobile. 2014. Hydraulic Fracturing Fluid. XTO Energy. Downloaded on 6/13/2014.	EPA-HQ-OW-2014-0598-0212
SGE00781	FracFocus. 2014. What Chemicals Are Used?	EPA-HQ-OW-2014-0598-0213
SGE00782	U.S. Environmental Protection Agency (U.S. EPA). 2012. (October 1). Available online at: http://www.epa.gov/radiation/radionuclides/uranium.html	EPA-HQ-OW-2014-0598-0214
SGE00783	U.S. EPA. 2014. Thorium. (February 28). Available online at: http://www.epa.gov/radiation/radionuclides/thorium.html	EPA-HQ-OW-2014-0598-0215
SGE00785	USEPA. 2015. Summary of EPA Outreach and Coordination with Indian Tribes for the Proposed Pretreatment Standards for UOG Extraction Wastewater	EPA-HQ-OW-2014-0598-0673
SGE00786	ERG. 2015. UOG Workgroup—Warren, OH POTW Info Request. (June 19).	EPA-HQ-OW-2014-0598-0653
SGE00787	Borough of California. 2009. Borough of California Response to 308 Request for Information. (March 18).	EPA-HQ-OW-2014-0598-0216
SGE00788	NYSDEC. 2009. Supplemental Generic Environmental Impact Statement (SGEIS) on the Oil, Gas, and Solution Mining Regulatory Program.	EPA-HQ-OW-2014-0598-0217
SGE00793	ERG. 2014. Unconventional Drilling/Hydraulic Fracturing and Natural Radioactivity Webinar Notes. (July 3)	EPA-HQ-OW-2014-0598-0218
SGE00793.A01	Schultz, M. et. Al. Environmental/Bioassay Radiochemistry Series Unconventional Drilling/Hydraulic Fracturing and Natural Radioactivity.	EPA-HQ-OW-2014-0598-0218
SGE00795	U.S. Environmental Protection Agency (U.S. EPA). 2012. About TENORM. (August 30). Available online at: http://www.epa.gov/rpdweb00/tenorm/about.html .	EPA-HQ-OW-2014-0598-0634
SGE00799	Jacobs, Trent. 2014. Shale Revolution Revisits the Energized Fracture. JPT. (June).	EPA-HQ-OW-2014-0598-0635
SGE00800	McTigue, Nancy; Graf, Katherine; Brown, Richard. 2014. Occurrence and Consequences of Increased Bromide in Drinking Water Sources.	EPA-HQ-OW-2014-0598-0219
SGE00801	Argonne National Laboratory (ANL). 2011. Drilling Waste Management Information System	EPA-HQ-OW-2014-0598-0686
SGE00803	USEPA. 1982. Fate of Priority Pollutants in Publicly Owned Treatment Works Final Report Volume 1	EPA-HQ-OW-2014-0598-0636
SGE00804	Abraxas Petroleum Corporation (AXAS). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0220
SGE00805	Adams Resources & Energy, Inc. (AE) 2012. 2012 Annual Report.	EPA-HQ-OW-2014-0598-0687
SGE00806	Adams Resources & Energy, Inc. (AE) 2012. Form 10-K For the Fiscal Year Ended December 31, 2011.	EPA-HQ-OW-2014-0598-0221
SGE00807	Anadarko Petroleum Corporation (APC). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0222
SGE00808	Apache Corporation (APA). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0223
SGE00809	Augustine, Charles, Bob Broxson and Steven Peterson. 2006. Understanding Natural Gas Markets. American Petroleum Institute.	EPA-HQ-OW-2014-0598-0224
SGE00810	BP PLC ADR (BP). 2012. Annual Review and Form 20-F 2012: Building a Stronger, Safer BP.	EPA-HQ-OW-2014-0598-0225

Table 3. Crosswalk for All Documents Supporting the Proposed Effluent Limitation Guidelines and Standards for the Oil and Gas Extraction Point Source Category

DCN	Citation	EPA Docket Number
SGE00811	FRS. 2013. Industrial Production and Capacity Utilization for 12/16/13. Accessed 1/10/14. Online at: http://www.federalreserve.gov/datadownload/	EPA-HQ-OW-2014-0598-0226
SGE00812	FRS. 2013. Industrial Prod/Capacity Utiliz 12/16/13. Online at: www.federalreserve.gov/datadownload	EPA-HQ-OW-2014-0598-0227
SGE00813	Cabot Oil & Gas Corporation (COG). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0228
SGE00814	Callon Petroleum Company (CPE). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0229
SGE00815	Canadian Natural Resources Limited (CNQ.TO). 2012. 2012 Annual Report: The Premium Value Defined Growth Independent.	EPA-HQ-OW-2014-0598-0230
SGE00816	Carrizo Oil & Gas, Inc. (CRZO). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0231
SGE00817	Chesapeake Energy Corporation (CHK). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0232
SGE00818	Chevron Corporation (CVX). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0233
SGE00819	Climarex Energy Co. (XEC). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0234
SGE00820	Clayton, B. 2013. The Case for Allowing U.S. Crude Oil Exports. Policy Innovation Memorandum No. 34. Accessed 7/8/13.	EPA-HQ-OW-2014-0598-0235
SGE00821	Comstock Resources, Inc. (CRK). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0236
SGE00822	ConocoPhillips (COP). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0237
SGE00823	Crooks, Ed. 2013. Smaller companies at vanguard of US shale oil revolution. (July 7)	EPA-HQ-OW-2014-0598-0238
SGE00824	Choi, T., Robertson, P. 2011. Navigating a fractured future: Insights into the future of North American natural gas.	EPA-HQ-OW-2014-0598-0239
SGE00826	Cubic Energy, Inc. (QBC). 2013. Form 10-K For the Fiscal Year Ended June 30, 2013.	EPA-HQ-OW-2014-0598-0240
SGE00827	Cubic Energy, Inc. (QBC). 2006. Form 10-KSB For the Fiscal Year Ended June 30, 2005.	EPA-HQ-OW-2014-0598-0241
SGE00828	Cubic Energy, Inc. (QBC). 2005. Form 10-KSB For the Fiscal Year Ended June 30, 2004.	EPA-HQ-OW-2014-0598-0242
SGE00829	Deloitte. 2013. Deloitte Oil & Gas Mergers and Acquisitions: A subdued deal market follows brisk end-of-year activity.	EPA-HQ-OW-2014-0598-0243
SGE00830	Deloitte. 2011. Deloitte Oil & Gas Mergers and Acquisitions: Playing the long game, focus on the future.	EPA-HQ-OW-2014-0598-0244
SGE00831	Denbury Resources Inc. (DNR). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0245
SGE00832	Devon Energy Corporation (DVN). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0246
SGE00833	Double Eagle Petroleum Co. (DBLE). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0247
SGE00834	Double Eagle Petroleum Co. (DBLE). 2005. Form 10-KSB For the Fiscal Year Ended December 31, 2004.	EPA-HQ-OW-2014-0598-0248
SGE00835	Earthstone Energy Inc (ESTE). 2013. Form 10-K For the Fiscal Year Ended March 31, 2013.	EPA-HQ-OW-2014-0598-0249
SGE00836	Earthstone Energy Inc (ESTE). 2007. Form 10-KSB For the Fiscal	EPA-HQ-OW-2014-

Table 3. Crosswalk for All Documents Supporting the Proposed Effluent Limitation Guidelines and Standards for the Oil and Gas Extraction Point Source Category

DCN	Citation	EPA Docket Number
	Year Ended March 31, 2007.	0598-0250
SGE00837	Earthstone Energy Inc (ESTE). 2006. Form 10-KSB For the Fiscal Year Ended March 31, 2006.	EPA-HQ-OW-2014-0598-0251
SGE00838	Encana Corporation (ECA). 2012. Annual Report 2012.	EPA-HQ-OW-2014-0598-0252
SGE00839	Endeavour International Corporation (END). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0253
SGE00840	Endeavour International Corporation (END). 2005. Form 10-K For the Fiscal Year Ended December 31, 2004.	EPA-HQ-OW-2014-0598-0254
SGE00841	Energen Corporation (EGN). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0255
SGE00842	EOG Resources, Inc. (EOG). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0256
SGE00843	EQT Corporation (EQT). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0257
SGE00844	Exxon Mobil Corporation (XOM). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0258
SGE00845	Fieldpoint Petroleum Corporation. 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0259
SGE00846	Fieldpoint Petroleum Corporation. 2007. Form 10-K For the Fiscal Year Ended December 31, 2006.	EPA-HQ-OW-2014-0598-0260
SGE00847	Fieldpoint Petroleum Corporation. 2005. Form 10-K For the Fiscal Year Ended December 31, 2004.	EPA-HQ-OW-2014-0598-0003
SGE00848	Forest Oil Corporation (FST). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0004
SGE00849	Gasco Energy, Inc. (GSX). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0005
SGE00850	Gastar Exploration Ltd. (GST). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0006
SGE00851	Gastar Exploration Ltd. (GST). 2012. Form 10-K For the Fiscal Year Ended December 31, 2011.	EPA-HQ-OW-2014-0598-0007
SGE00852	Gastar Exploration Ltd. (GST). 2009. Form 10-K For the Fiscal Year Ended December 31, 2008.	EPA-HQ-OW-2014-0598-0008
SGE00853	Goodrich Petroleum Corporation (GDP). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0009
SGE00854	Crude oil, industry trends, consumer demand, market transformation	EPA-HQ-OW-2014-0598-0010
SGE00855	Gulfport Energy Corp (GPOR). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0011
SGE00856	Gulfport Energy Corp (GPOR). 2005. Form 10-K For the Fiscal Year Ended December 31, 2004.	EPA-HQ-OW-2014-0598-0012
SGE00857	Harvest Natural Resources, Inc. (HNR). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0013
SGE00858	Harvest Natural Resources, Inc. (HNR). 2010. Form 10-K For the Fiscal Year Ended December 31, 2009.	EPA-HQ-OW-2014-0598-0014
SGE00859	Hess Corporation (HES). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0015
SGE00860	Houston American Energy Corp (HUSA). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0016
SGE00861	Houston American Energy Corp (HUSA). 2011. Form 10-K For the	EPA-HQ-OW-2014-

Table 3. Crosswalk for All Documents Supporting the Proposed Effluent Limitation Guidelines and Standards for the Oil and Gas Extraction Point Source Category

DCN	Citation	EPA Docket Number
	Fiscal Year Ended December 31, 2010.	0598-0017
SGE00862	Houston American Energy Corp (HUSA). 2009. Form 10-K For the Fiscal Year Ended December 31, 2008.	EPA-HQ-OW-2014-0598-0018
SGE00863	Houston American Energy Corp (HUSA). 2007. Form 10-K For the Fiscal Year Ended December 31, 2006.	EPA-HQ-OW-2014-0598-0019
SGE00864	IHS. 2012. America's New Energy Future: The Unconventional Oil and Gas Revolution and the US Economy. October 2012.	EPA-HQ-OW-2014-0598-0020
SGE00865	Mexco Energy Corporation (MXC). 2013. Form 10-K For the Fiscal Year Ended March 31, 2013.	EPA-HQ-OW-2014-0598-0021
SGE00866	Murphy Oil Corporation (MUR). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0022
SGE00867	Natural Gas Supply Association (NGSA). 2014. Marketing. Available electronically at: http://naturalgas.org/naturalgas/marketing/	EPA-HQ-OW-2014-0598-0023
SGE00868	Newfield Exploration Company (NFX). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0024
SGE00869	Noble Energy, Inc. (NBL). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0025
SGE00870	Occidental Petroleum Corporation (OXY). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0026
SGE00871	Panhandle Oil and Gas Inc. (PHX). 2012. Annual Report 2012.	EPA-HQ-OW-2014-0598-0027
SGE00872	Penn Virginia Corporation (PVA). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0028
SGE00873	PetroQuest Energy, Inc. (PQ). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0029
SGE00874	Pioneer Natural Resources Company (PXD). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0030
SGE00875	Phillips, D. 2010. Chesapeake energy's shift to oil won't work without higher natural gas prices.	EPA-HQ-OW-2014-0598-0031
SGE00876	PrimeEnergy Corporation (PNRG). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0032
SGE00877	Pyramid Oil Company (PDO). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0033
SGE00878	Questar (STR). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0034
SGE00879	Quicksilver Resources Inc. (KWK). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0035
SGE00880	Ratner, M., Parfomak, P., Fergusson, I., Luther, L., 2013. U.S. Natural Gas Exports: New Opportunities, Uncertain Outcomes.	EPA-HQ-OW-2014-0598-0036
SGE00881	Range Resources Corporation (RRC). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0037
SGE00882	Royale Energy Inc (ROYL). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0038
SGE00883	Royale Energy Inc (ROYL). 2012. Form 10-K For the Fiscal Year Ended December 31, 2011.	EPA-HQ-OW-2014-0598-0039
SGE00884	SM Energy Company (SM). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0040
SGE00885	Smith, G. 2013. U.S. to Be Top Oil Producer by 2015 on Shale, IEA Says.	EPA-HQ-OW-2014-0598-0041

Table 3. Crosswalk for All Documents Supporting the Proposed Effluent Limitation Guidelines and Standards for the Oil and Gas Extraction Point Source Category

DCN	Citation	EPA Docket Number
SGE00886	Southwestern Energy Company (SWN). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0261
SGE00887	Stone Energy Corporation (SGY). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0262
SGE00888	Swift Energy Company (SFY). 2013. Investor Relations: Financials. Annual Highlights. Accessed January 10, 2014.	EPA-HQ-OW-2014-0598-0263
SGE00889	Talisman Energy (TLM). 2012. 2012 Annual Report. DCN SGE00889.	EPA-HQ-OW-2014-0598-0264
SGE00890	Tengasco, Inc. (TGC). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012. DCN SGE00890.	EPA-HQ-OW-2014-0598-0265
SGE00891	Texas Vanguard Oil Company (TVOC). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0266
SGE00892	Ultra Petroleum Corp. (UPL). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0267
SGE00893	Ultra Petroleum Corp. (UPL). 2007. Form 10-K For the Fiscal Year Ended December 31, 2006.	EPA-HQ-OW-2014-0598-0268
SGE00894	Unit Corporation (UNT). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0269
SGE00895	Vaalco Energy Inc (EGY). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0270
SGE00896	U.S. BEA. 2014. Table 1.1.9 Implicit Price Deflators for Gross Domestic Product.	EPA-HQ-OW-2014-0598-0271
SGE00897	U.S. BEA. 2013. Current Dollar and “Real” Gross Domestic Product. 12/13/13. Bea.gov/national/xls/gdplev.xls .	EPA-HQ-OW-2014-0598-0272
SGE00898	U.S. DOC. 2011. U.S. Bureau of the Census. Statistics of U.S. Businesses (SUSB). http://www.census.gov/econ/susb/introduction.html	EPA-HQ-OW-2014-0598-0273
SGE00899	United States Department of Commerce (U.S. DOC). 1997, 2002, and 2007. U.S. Bureau of the Census. Economic Census.	EPA-HQ-OW-2014-0598-0274
SGE00900	U.S. DOC. 2014. Statistics of U.S. Businesses: Definitions. Available at: http://www.census.gov/econ/susb/definitions.html	EPA-HQ-OW-2014-0598-0275
SGE00901	U.S. DOE. 2014. AEO2014 Early Release Overview. Available electronically at: http://www.eia.gov/forecasts/aeo/er/pdf/0383er(2014).pdf .	EPA-HQ-OW-2014-0598-0276
SGE00902	U.S. DOE. 2014. AEO2014 Early Release Overview. Figure 1. U.S. liquid fuels supply by source, 1970-2040 (million barrels per day).	EPA-HQ-OW-2014-0598-0277
SGE00903	U.S. DOE. 2014. AEO2014 Early Release Overview. Figure 4. U.S. natural gas imports and exports, 2012-2040 (trillion cubic feet).	EPA-HQ-OW-2014-0598-0278
SGE00904	U.S. DOE. 2014. Cushing, OK WTI Spot Price FOB (Dollars per Barrel): Annual. Accessed 1/22/14.	EPA-HQ-OW-2014-0598-0279
SGE00905	U.S. DOE. 2014. Europe Brent Spot Price FOB (Dollars/Barrel): Accessed 1/16/14. http://www.eia.gov/dnav/pet/hist/LeafHandler.ashx?n=PET&s=RB RTE&f=A	EPA-HQ-OW-2014-0598-0280
SGE00906	U.S. DOE. 2014. Natural Gas Consumption by End Use (Million Cubic Feet). Accessed 1/14/14. http://www.eia.gov/dnav/ng/ng_cons_sum_dcu_nus_a.htm	EPA-HQ-OW-2014-0598-0281
SGE00907	U.S. DOE. 2014. Natural Gas Consumption (Million Cubic Feet): Accessed 1/10/14. http://www.eia.gov/dnav/ng/ng_cons_sum_a_epg0_vc0_mmcf_a.htm	EPA-HQ-OW-2014-0598-0282

Table 3. Crosswalk for All Documents Supporting the Proposed Effluent Limitation Guidelines and Standards for the Oil and Gas Extraction Point Source Category

DCN	Citation	EPA Docket Number
SGE00908	U.S. DOE. 2014. Natural Gas Gross Withdrawals and Production (Volumes in Million Cubic Feet). Accessed 1/23/14.	EPA-HQ-OW-2014-0598-0283
SGE00909	U.S. DOE. 2014. U.S. crude oil prod growth contributes to global oil price stability in 2013. http://www.eia.gov/todayinenergy/detail.cfm?id=14531#	EPA-HQ-OW-2014-0598-0284
SGE00910	U.S. DOE 2014. U.S. Natural Gas Exports and Re-Exports by Country (Volumes in Million Cubic Feet, Prices in Dollars per Thousand Cubic Feet).	EPA-HQ-OW-2014-0598-0285
SGE00911	U.S. DOE. 2014. U.S. Natural Gas Imports by Country (Volumes in Million Cubic Feet, Prices in Dollars per Thousand Cubic Feet). Accessed 1/9/14.	EPA-HQ-OW-2014-0598-0286
SGE00912	U.S. DOE. 2014. U.S. Natural Gas Wellhead Price (Dollars per Thousand Cubic Feet): Accessed 1/8/14. Tonto.eia.gov/dnav/ng/hist/n9190us3a.htm	EPA-HQ-OW-2014-0598-0287
SGE00913	U.S. DOE. 2013a. EIA. Annual Energy Outlook 2013 with Projections to 2040. April 2013. www.eia.gov/forecasts/archive/aeo13/index.cfm . DCN SGE00913.	EPA-HQ-OW-2014-0598-0289
SGE00914	U.S. DOE 2013. Annual Energy Outlook 2013 with Projections to 2040. Figure 91. Natural gas production by source, 1990-2040 (trillion cubic feet).	EPA-HQ-OW-2014-0598-0290
SGE00915	U.S. DOE. 2013. Crude Oil Production (Volumes in Thousand Barrels). http://www.eia.gov/dnav/pet/pet_crd_crpdn_adc_mbbbl_a.htm . DCN SGE00915.	EPA-HQ-OW-2014-0598-0291
SGE00916	U.S. DOE. 2013d. EIA. Exports. 1/27/14. Accessed 1/21/14. http://www.eia.gov/dnav/pet/pet_move_exp_dc_NUS-Z00_mbbbl_a.htm .	EPA-HQ-OW-2014-0598-0293
SGE00917	U.S. DOE. 2013. Product Supplied for Total Crude Oil and Petroleum Products. http://www.eia.gov/dnav/pet/pet_cons_psup_a_ep00_vpp_mbbbl_a.htm	EPA-HQ-OW-2014-0598-0295
SGE00918	U.S. DOE. 2013f. EIA. "Shale oil and shale gas resources are globally abundant." 1/10/13. http://www.eia.gov/todayinenergy/detail.cfm?id=11611 .	EPA-HQ-OW-2014-0598-0296
SGE00919	U.S. DOE. 2013. U.S. Imports by Country of Origin. Accessed 1/21/14. http://www.eia.gov/dnav/pet/pet_move_impcus_a2_nus_ep00_im0_mbbbl_a.htm .	EPA-HQ-OW-2014-0598-0298
SGE00920	U.S. DOE. 2011. Annual Energy Outlook 2011 with Projections to 2035. Available electronically at: http://www.eia.gov/forecasts/aeo/pdf/0383	EPA-HQ-OW-2014-0598-0300
SGE00921	U.S. DOE. 2011. Nat'l Gas Explained: Factors Affecting Nat'l Gas Prices. Eia.gov/energyexplained/index.cfm?page=natural_gas_factors_affecting_prices .	EPA-HQ-OW-2014-0598-302
SGE00922	Additions to Capacity on the U.S. Natural Gas Pipeline Network: eia.gov/pub/oil_gas/natural_gas/feature_articles/2008/ngpipelinenet/ngpipelinenet.pdf	EPA-HQ-OW-2014-0598-0304
SGE00923	How to Obtain Authorization to Import Natural Gas improenergy.gov/fe/services/natural-gas-regulation/how-obtain-authorization-import-and-or-export-natural-gas-and-lng#LNG	EPA-HQ-OW-2014-0598-0306

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DCN	Citation	EPA Docket Number
SGE00924	Employment by industry, occupation, and percent distribution, 2012 and projected 2022: 211100 Oil and Gas Extraction bls.gov/emp/ep_table_109.htm .	EPA-HQ-OW-2014-0598-0318
SGE00925	United States Department of Labor (U.S. DOL). 2013b. Employment Projection Program. Table 2.7 Employment and Output by Industry.	EPA-HQ-OW-2014-0598-0319
SGE00926	“US: Failing in Shale.” The Economist. 11/20/13. www.eiu.com/industry/article/921249876/us-failing-in-shale/2013-11-20# .	EPA-HQ-OW-2014-0598-0320
SGE00927	Whiting Petroleum Corporation (WLL). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0321
SGE00928	Woodside Petroleum Limited (WOPEY). 2012. 2012 Annual Report: A Year of Delivery.	EPA-HQ-OW-2014-0598-0322
SGE00929	ERG. 2015. Publicly Owned Treatment Works (POTW) Memorandum for the Technical Development Document (TDD)	EPA-HQ-OW-2014-0598-0678
SGE00929.A01	ERG. 2015. Publicly Owned Treatment Works (POTW) Memorandum for the Technical Development Document (TDD)—Attachment 1: POTWs Data for TDD.	EPA-HQ-OW-2014-0598-0678
SGE00930	Pennsylvania Department of Environmental Protection (PA DEP). 2012. Johnstown Redevelopment Authority (PA0026034)—Final Fact Sheet 2012.	EPA-HQ-OW-2014-0598-0323
SGE00931	Pennsylvania Department of Environmental Protection (PA DEP). 2012. Brockway Area Sewer Authority—PA0028428—Final Permit 2012.	EPA-HQ-OW-2014-0598-0324
SGE00932	ERG. 2015. Profile of the Oil and Gas Extraction (OGE) Sector, with Focus on Unconventional Oil and Gas (UOG) Extraction. (February 18).	EPA-HQ-OW-2014-0598-0610
SGE00933	ERG. 2015. Radioactive Elements in the Unconventional Oil and Gas (UOG) Industry.	EPA-HQ-OW-2014-0598-0681
SGE00935	U.S. EPA. 2013. Letter to Lee McDonnell, PA DEP, Informing NPDES Permitting Authorities of Testing as Part of the Permit Application Process.	EPA-HQ-OW-2014-0598-0329
SGE00935.A01	U.S. EPA. 2013. Toxic Screening Analysis Spreadsheet.	EPA-HQ-OW-2014-0598-0329
SGE00936	Understanding Radiation. Available online at: http://www.epa.gov/radiation/understanding-radiation-overview.html .	EPA-HQ-OW-2014-0598-0330
SGE00937	U.S. Environmental Protection Agency (U.S. EPA). 2011. Enhancing Radiological Laboratory Testing for Radionuclides in Drinking Water Training.	EPA-HQ-OW-2014-0598-0331
SGE00938	CSU. 2011. Irrigation Water Quality Criteria. http://www.ext.colostate.edu/pubs/crops/00506.html .	EPA-HQ-OW-2014-0598-0332
SGE00939	Bruvold, William H. et al. 1969. Journal (American Water Works Association)170-174	EPA-HQ-OW-2014-0598-0611
SGE00940	Hydrobiologia505.1-3 (2003): 199-215	EPA-HQ-OW-2014-0598-0333
SGE00941	Hallock, R.J. 1993. Detailed study of irrigation drainage in and near wildlife management areas, west-central Nevada, 1987-90. Part B: Effect.	EPA-HQ-OW-2014-0598-0334
SGE00945	http://water.epa.gov/scitech/swguidance/standards/wqslibrary/index.cfm	EPA-HQ-OW-2014-0598-0335

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DCN	Citation	EPA Docket Number
SGE00946	American Journal of Environmental Sciences 3.1 (2007): 1.	EPA-HQ-OW-2014-0598-0336
SGE00947	World Health Organization. 1996. Guidelines for Drinking-Water Quality, 2 nd Edition. Volume 2 – Health criteria and Other Supporting Information. ISBN 9241544805.	EPA-HQ-OW-2014-0598-0348
SGE00948	Chapman. 2012. Geochemical and Strontium Isotope Characterization of Produced Waters from Marcellus Shale Natural Gas Extraction	EPA-HQ-OW-2014-0598-0353
SGE00949	NYSDEC. 1999. An Investigation of Naturally Occuring Radioactive Materials (NORM) in Oil and Gas Wells in New York State. DEC Publication.	EPA-HQ-OW-2014-0598-0612
SGE00950	EERC (NGPWC) Bakken Water Opportunities Assessment North Dakota Petroleum Council Annual Meeting September 2009.	EPA-HQ-OW-2014-0598-0362
SGE00951	NYSDEC. 2011. Supplemental Generic Environmental Impact Statement (SGEIS) on the Oil, Gas, and Solution Mining Regulatory Program: Info Requests.	EPA-HQ-OW-2014-0598-0363
SGE00953	Sulkey, Aaron. Unknown. Otsego County, Utica Water Analysis. Gastem-USA	EPA-HQ-OW-2014-0598-0364
SGE00954	Palacios, Virginia. 2012. Baseline Groundwater Quality Testing Needs in the Eagle Ford Shale Region April 2012	EPA-HQ-OW-2014-0598-0365
SGE00955	USGS. 2013. USGS Produced Water Database Accessed on November 25, 2013.	EPA-HQ-OW-2014-0598-0724
SGE00956	U.S. Geological Survey (USGS). 2014. National Produced Waters Geochemical Database v2.0 (Provisional).	EPA-HQ-OW-2014-0598-0366
SGE00957	ERG. 2013. Environmental Engineering Support for Clean Water Regulations Programmatic Quality Assurance Project Plan (PQAPP).	EPA-HQ-OW-2014-0598-0367
SGE00958	ERG. 2014. Unconventional Oil and Gas (UOG) Supplemental Quality Assurance Project Plan (SQAPP).	EPA-HQ-OW-2014-0598-0368
SGE00959	Alaska Oil and Gas Conservation Commission. 2014. AOGCC Data Extract Zip File	EPA-HQ-OW-2014-0598-0369
SGE00960	Alaska Oil and Gas Conservation Commission. 2014. AOGCC Data Extract Zip File Table Description	EPA-HQ-OW-2014-0598-0725
SGE00962	Taraquinio, Lisa. Value Line. 2003-2012. Value Line Investment Analyzer®. ABT.	EPA-HQ-OW-2014-0598-0613
SGE00963	ERG. 2015. Analysis of DI Desktop® Database.	EPA-HQ-OW-2014-0598-0674
SGE00963.A01	ERG. 2015. DI Desktop® Development Database.	EPA-HQ-OW-2014-0598-0674
SGE00964	Ohio Department of Natural Resources (OH DNR). 2014. 2013 Quarterly Horizontal Shale Production: 1 st Quarter.	EPA-HQ-OW-2014-0598-0670
SGE00964.A01	OH DNR. 2015. OH DNR Signed Copyright Release	EPA-HQ-OW-2014-0598-0670
SGE00965	Ohio Department of Natural Resources (OH DNR). 2014. 2013 Quarterly Horizontal Shale Production: 2 nd Quarter.	EPA-HQ-OW-2014-0598-0671
SGE00965.A01	OH DNR. 2015. OH DNR Signed Copyright Release	EPA-HQ-OW-2014-0598-0671
SGE00966	CCST. 2014. Advanced Well Stimulation Technologies in California: An Independent Review of Scientific and Technical Information.	EPA-HQ-OW-2014-0598-0370

Table 3. Crosswalk for All Documents Supporting the Proposed Effluent Limitation Guidelines and Standards for the Oil and Gas Extraction Point Source Category

DCN	Citation	EPA Docket Number
SGE00967	USEPA. 2015. List of Mtngs EPA Participated in w/ Stakeholders & Industry Groups During the Dev. Of Proposed Pre-trmt Standards for UOG Extraction.	EPA-HQ-OW-2014-0598-0767
SGE00968	Glatt, Dave; Tillotson, Steve. 2014. Contractor Selected for Cleanup of Filter Socks in Noonan	EPA-HQ-OW-2014-0598-0614
SGE00970	Donovan, Lauren. 2014. Bismarck Tribune Second dump site reported in Divide County.	EPA-HQ-OW-2014-0598-0615
SGE00973	USEPA. 2013. Radiation Glossary.	EPA-HQ-OW-2014-0598-0616
SGE00974	USEPA. 2014. Dvlpmnt of Rapid Radiochemical Mthd for Gross Alpha & Gross Beta Activity Concentration in Flowback & Produced Waters from HF Operations	EPA-HQ-OW-2014-0598-0617
SGE00975	Nelson, A. et al. 2014. Matrix Complications in the Determination of Radium Levels in Hydraulic Fracturing Flowback Water from Marcellus Shale.	EPA-HQ-OW-2014-0598-0618
SGE00977	USNRC. 2013. Measuring Radiation.	EPA-HQ-OW-2014-0598-0619
SGE00978	PADEP. 2014. PA DEP TENORM Study – Update 2 nd Quarter 2014 Update.	EPA-HQ-OW-2014-0598-0620
SGE00979	PADEP. 2013. Sampling and Analysis Plan Part II Quality Assurance Project Plan	EPA-HQ-OW-2014-0598-0621
SGE00980	USGS. 2014. Trace Elements National Synthesis Project Radium Frequently Asked Questions.	EPA-HQ-OW-2014-0598-0622
SGE00982	U.S. EPA. 2011. (Region 3) Letter to PA DEP regarding disposal of Marcellus Shale wastewater. (May 12).	EPA-HQ-OW-2014-0598-0371
SGE00983	Ohio Revised Code. 2012. Title 15, Chapter 1509: Division of Oil and Gas Resources Management – Oil and Gas. Downloaded October 17, 2014.	EPA-HQ-OW-2014-0598-0726
SGE00984	Energy Information Administration (EIA). 2014. Glossary. Retrieved from http://www.eia.gov/tools/glossary	EPA-HQ-OW-2014-0598-0728
SGE00985	Parker, K., et al. 2014. Enhanced Formation of Disinfection Byproducts in Shale Gas Wastewater-Impacted Drinking Water Supplies.	EPA-HQ-OW-2014-0598-0727
SGE00986	Rost, J. 2010. Municipal Authority of the City of McKeesport: Analysis of Gas Well Wastewaters as Required Under the PADEP Admin Order Dated 10/23/08.	EPA-HQ-OW-2014-0598-0729
SGE00987	Rost, J. 2010. Municipal Authority of the City of McKeesport Analysis of Gas Well Wastewaters as Required Under the PA DEP AO Dated October 23, 2008.	EPA-HQ-OW-2014-0598-0752
SGE00988	Energy Information Administration (EIA). 2014. Assumptions to the Annual Energy Outlook 2014.	EPA-HQ-OW-2014-0598-0730
SGE00989	Energy Information Administration (EIA). 2014. Annual Energy Outlook 2014 with Projections to 2040. DOE/EIA-0383(2014).	EPA-HQ-OW-2014-0598-0731
SGE00990	Abt. 2014. Oil and Gas Industry Extraction Data	EPA-HQ-OW-2014-0598-0637
SGE00991	USGS. 2008. Assessment of Undiscovered Oil and Gas Resources of the Permian Basin Province of West Texas and Southeast New Mexico.	EPA-HQ-OW-2014-0598-0732
SGE00992	United States Geological Survey. Unknown. Woodbine Formation. Accessed on 10/21/2014.	EPA-HQ-OW-2014-0598-0733

Table 3. Crosswalk for All Documents Supporting the Proposed Effluent Limitation Guidelines and Standards for the Oil and Gas Extraction Point Source Category

DCN	Citation	EPA Docket Number
SGE00993	United States Geological Survey. Unknown. Buda Formation. Accessed on 10/21/2014.	EPA-HQ-OW-2014-0598-0734
SGE00996	Kicinski, J. 2007. Wheeling POTW Analysis 4.	EPA-HQ-OW-2014-0598-0623
SGE00997	Borough of Waynesburg. 2009. Clean Water Act Section 308 Request for Information.	EPA-HQ-OW-2014-0598-0624
SGE00997.A01	Borough of Waynesburg. 2009. Clean Water Act Section 308 Request for Information—Attachment 1: Acceptance Records.	EPA-HQ-OW-2014-0598-0624
SGE00997.A04	Borough of Waynesburg. 2009. Clean Water Act Section 308 Request for Information – Attachment 4: Sampling Summary.	EPA-HQ-OW-2014-0598-0624
SGE00999	McClung, L.A. 2008. Wheeling POTW Discharge Requirements.	EPA-HQ-OW-2014-0598-0735
SGE01000	City of Wheeling Water Pollution Control Division. 2007. Wheeling Effluent Data.	EPA-HQ-OW-2014-0598-0758
SGE01001	Fayette Engineering Co., Inc. 2009. Clean Water Act Section 308 Request for Information – Attachment 5: DMR Records. (March 13).	EPA-HQ-OW-2014-0598-0736
SGE01002	Reynoldsville Sewage Authority. 2012. Authorization to Discharge under the NPDES Requirements for Publicly Owned Treatment Works (POTWs). (July 17).	EPA-HQ-OW-2014-0598-0737
SGE01003	Biddle, Lisa. 2015. Information from EPA Region 3 about Treatment Facilities in Pennsylvania	EPA-HQ-OW-2014-0598-0738
SGE01004	Wyoming Department of Environmental Quality. 2014. Permitted Commercial Oil Disposal Facilities. (March 19). http://deq.state.wy.us/wqd/www/	EPA-HQ-OW-2014-0598-0739
SGE01005	TX RRC. 2014. Commercial Recycling & Surface Disposal Facilities.	EPA-HQ-OW-2014-0598-0741
SGE01006	USEPA. 2000. Dvlp Doc Final Efflnt Lmtatns Gdlns&Stndrds Synthetic-Based Drilng Fluids&Othr Non-Aqueous Drilng Fluids in O&G Extr. Pnt Source Ctgry.	EPA-HQ-OW-2014-0598-0742
SGE01009	Caen, R., Darley, et al. 2011. Composition and Properties of Drilling and Completion Fluids. 6 th edition. Gulf Professional Publishing: Waltham, MA.	EPA-HQ-OW-2014-0598-0743
SGE01012	U.S. EPA. 2014. Class II Disposal Well Inventory Update. Office of Ground Water and Drinking Water. (July 29).	EPA-HQ-OW-2014-0598-0744
SGE01014	Oklahoma Corporation Commission (OCC). 2014. UIC Injection Volumes 2012. Accessed 2/5/2015. http://www.occeweb.com/og/ogdatafiles2.htm . DCN SGE01014.	EPA-HQ-OW-2014-0598-0639
SGE01015	Oklahoma Corporation Commission (OCC). 2014. Well_Status. Downloaded 12/18/2014. http://www.occeweb.com/og/ogdatafiles2.htm . DCN SGE01015.	EPA-HQ-OW-2014-0598-0640
SGE01016	ERG. 2015. Conventional Oil and Gas Memorandum for the Record.	EPA-HQ-OW-2014-0598-0675
SGE01016.A01	ERG. 2015. Conventional Oil and Gas Memo for the Record – A01: COG Drilling Wastewater Volume and Characterization Data.	EPA-HQ-OW-2014-0598-0675
SGE01016.A02	ERG. 2015. Conventional Oil and Gas Memo for the Record – A02: COG Wastewater Characterization Analysis.	EPA-HQ-OW-2014-0598-0675
SGE01016.A03	ERG. 2015. Conventional Oil and Gas Memorandum for the Record – Attachment 3: COG Wastewater Characterization Database.	EPA-HQ-OW-2014-0598-0675

Table 3. Crosswalk for All Documents Supporting the Proposed Effluent Limitation Guidelines and Standards for the Oil and Gas Extraction Point Source Category

DCN	Citation	EPA Docket Number
SGE01016.A04	ERG. 2015. Conventional Oil and Gas Memorandum for the Record – Attachment 4: USGS Produced Water Database – COG Data.	EPA-HQ-OW-2014-0598-0675
SGE01017	Eastern Research Group, Inc. 2014. 2014 Produced Water Reuse Initiative Conference Material Memo	EPA-HQ-OW-2014-0598-0757
SGE01017.A01	Schmit, Ayn. 2014. Regarding Managing Produced Water in the Rockies. EPA. (October 29).	EPA-HQ-OW-2014-0598-0757
SGE01017.A02	Poole, Bob. 2014. An Innovative Public-Private Partnership for Re-Use of Treated Residential Water In Steam Generation Project. Santa Maria Energy.	EPA-HQ-OW-2014-0598-0757
SGE01017.A03	Smith, D. 2014. Evaluating Strategies for Getting FB Water to the Qual Req'd for Reuse in Completions at the Volumes Needed to Make it Worthwhile.	EPA-HQ-OW-2014-0598-0757
SGE01017.A04	Hock, Doug. 2014. Telling Our Story: Publicly Communicating Successful Water Management. EnCana. Oct-30.	EPA-HQ-OW-2014-0598-0757
SGE01017.A05	Anglund, E. 2014. Rev Ops Strategies for Sourcing Large Volumes of Freshwater for Hydraulic Frac Ops in the Context of Competition from other Ind.	EPA-HQ-OW-2014-0598-0757
SGE01017.A06	Duggan, Jogn. 2014. Working Together to Minimize Impacts on Water Quality Colorado, Colorado Department of Public Health and Environment. Oct-30.	EPA-HQ-OW-2014-0598-0757
SGE01017.A07	Payan, Melissa and West, John. 2014. SPCC 101for Onshore Oil Production Drilling and Workover Facilities EPA. Oct-30	EPA-HQ-OW-2014-0598-0757
SGE01017.A08	Rynearson, M. 2014. Evaluating the Econ of Creating and Operating Your Own Disposal Well v Using a Third Party to Det the Most Cost-Effective Option.	EPA-HQ-OW-2014-0598-0757
SGE01017.A09	Poole, Bob. 2014. Regulatory Framework and Political Dynamics of Oilfield Water Use and Reuse in California. Santa Maria Energy. Oct-29	EPA-HQ-OW-2014-0598-0757
SGE01017.A10	Carlson, Ken. 2014. Applying Cost-Effective Technology and Strategies for Reusing High TDS Water for Hydraulic Fracturing.	EPA-HQ-OW-2014-0598-0757
SGE01017.A11	Patton, Mark. 2014. Using Real Time Water Quality Testing to Optimize Produced Water Recycling. Hydrozonix. Oct-29.	EPA-HQ-OW-2014-0598-0757
SGE01017.A12	Barrows, Kieran. 2014. Presentation by Kieran Barrows of Laredo Petroleum. Laredo Petroleum. Oct-30.	EPA-HQ-OW-2014-0598-0757
SGE01017.A13	Capper, Laura. 2014. Designing an Overall Water Treatment Strategy That can Minimize the Cost of Recycling Produced Water for Reuse.	EPA-HQ-OW-2014-0598-0757
SGE01017.A14	Prior, Adam and Carlson, Ken. 2014. Recycling Flowback and Produced Water for Use with Cross-linked Gel Fracs: Challenges and Solutions.	EPA-HQ-OW-2014-0598-0757
SGE01017.A15	Wrenn, Brian. 2014. Optimizing the Treatment of Produced Water and Flowback for Reuse or Disposal. Pureline. Oct-29.	EPA-HQ-OW-2014-0598-0757
SGE01017.A16	Winner, Phillip. 2014. Produced Water Issues Economics. And Trends: Developing Abundant. Affordable Clean Energy. Outrider Energy. Oct-29.	EPA-HQ-OW-2014-0598-0757
SGE01017.A17	Bittner, Tyler. 2014. Water Management. WPX Energy. Oct-30.	EPA-HQ-OW-2014-0598-0757
SGE01017.A18	Kosloff, Tracy. 2014. Delivering a Colorado Update on Regulations Regarding Water Rights to Determine How They May Affect Operators Going Forward.	EPA-HQ-OW-2014-0598-0757

Table 3. Crosswalk for All Documents Supporting the Proposed Effluent Limitation Guidelines and Standards for the Oil and Gas Extraction Point Source Category

DCN	Citation	EPA Docket Number
SGE01018	Harton, C. 2014. Radiological Dose And Risk Assessment of Landfill Disposal of TENORM in North Dakota	EPA-HQ-OW-2014-0598-0641
SGE01019	North Dakota. Draft Regulation and Licensing of Technologically Enhanced Naturally Occurring Radioactive Material Chapter 33-10-23	EPA-HQ-OW-2014-0598-0707
SGE01020	EPA. 2012. Radiation Protection Health Effects.	EPA-HQ-OW-2014-0598-0642
SGE01021	Arkansas Oil and Gas Commission (AOGC). 2014. B-43 Field – Well Completions.	EPA-HQ-OW-2014-0598-0649
SGE01022	Energy Information Administration. 2011. Distribution and Production of Oil and Gas Wells by State. (January 7).	EPA-HQ-OW-2014-0598-0759
SGE01023	Office of Governor Dennis Gaugaard. 2012. South Dakota Oil and Gas Development/Preparedness Executive Branch Work Groups. (September).	EPA-HQ-OW-2014-0598-0745
SGE01024	Louisiana Department of Natural Resources. 2015. Haynesville Shale Wells. Last updated 1/5/2015. Downloaded 1/7/2014.	EPA-HQ-OW-2014-0598-0650
SGE01025	U.S. Department of the Interior Bureau of Reclamation. 2011. Oil and Gas Produced Water Management and Beneficial Use in the Western United States.	EPA-HQ-OW-2014-0598-0708
SGE01026	Sanitation Districts of Los Angeles County. 2013. Memorandum: Districts' Pretreatment Program for Oil Production. (June 14).	EPA-HQ-OW-2014-0598-0643
SGE01027	Drillinginfo. 2012. HPDI Data Coverage. (January 5).	EPA-HQ-OW-2014-0598-0746
SGE01028	Pennsylvania Department of Environmental Protection. 2015. Technologically Enhanced Naturally Occurring Radioactive Materials (TENORM) Study Report.	EPA-HQ-OW-2014-0598-0389
SGE01028.A01	PA Dept. of Env. Protection. 2015. APPENDIX A ADDITIONAL GEOLOGICAL INFORMATION – GEOLOGY OF MARCELLUS SHALE AND OTHER PENNSYLVANIA SHALE FORMATIONS.	EPA-HQ-OW-2014-0598-0389
SGE01028.A02	PA Dept. of Env. Protection. 2015. APPENDIX B FIELD INSTRUMENTATION QC DOCUMENTATION.	EPA-HQ-OW-2014-0598-0389
SGE01028.A03	PA Dept. of Env. Protection. 2015. APPENDIX C GAMMA SPECTROSCOPY ANALYTICAL RESULTS.	EPA-HQ-OW-2014-0598-0389
SGE01028.A04	PA Dept. of Env. Protection. 2015. APPENDIX D TOTAL AND REMOVABLE ALPHA/BETA SURFACE RADIOACTIVITY RESULTS.	EPA-HQ-OW-2014-0598-0389
SGE01028.A05	PA Dept. of Env. Protection. 2015. APPENDIX E GROSS GAMMA RADIATION SURVEY FIGURES.	EPA-HQ-OW-2014-0598-0389
SGE01028.A06	PA Dept. of Env. Protection. 2015. APPENDIX F XRF ANALYTICAL ANALYSES RESULTS.	EPA-HQ-OW-2014-0598-0389
SGE01028.A07	PA Dept. of Env. Protection. 2015. APPENDIX G T-TEST OUTPUT FILES.	EPA-HQ-OW-2014-0598-0389
SGE01028.A08	PA Dept. of Env. Protection. 2015. Appendix H Radon Monitor-Sample Analytical Analyses Reports.	EPA-HQ-OW-2014-0598-0389
SGE01028.A09	PA Dept. of Env. Protection. 2015. APPENDIX I FILTERED VERSUS UNFILTERED LIQUID SAMPLE COMPARISON.	EPA-HQ-OW-2014-0598-0389
SGE01028.A10	PA Dept. of Env. Protection. 2015. APPENDIX J MICROSHIELD® OUTPUT FILES.	EPA-HQ-OW-2014-0598-0389
SGE01028.A11	PA Dept. of Env. Protection. 2015. Appendix K Laboratory Data Report.	EPA-HQ-OW-2014-0598-0389

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DCN	Citation	EPA Docket Number
SGE01028.A12	PA Dept. of Env. Protection. 2015. APPENDIX L PEER REVIEW COMMENT AND RESOLUTION DOCUMENT.	EPA-HQ-OW-2014-0598-0389
SGE01029	ICF Consulting. 2000. Overview of Exploration and Production Waste Volumes and Waste Management Practices in the United States.	EPA-HQ-OW-2014-0598-0648
SGE01030	Schlumberger. 2015. Oilfield Glossary. Retrieved from: http://glossary.oilfield.slb.com/	EPA-HQ-OW-2014-0598-0390
SGE01031	US EPA. 2015. Documentation of OMB Review Under Executive Order 12866	EPA-HQ-OW-2014-0598-0710
SGE01032	ERG. 2015. Docket Users Guide.	-- ^a
SGE01032.A01	ERG. 2015. Docket Users Guide Attachments.	-- ^a
SGE01033	All Consulting. Water Treatment Technology Fact Sheet: UV Light. Available online at: http://www.all-llc.com/publicdownloads/UVLightFactSheet.pdf	EPA-HQ-OW-2014-0598-0391
SGE01034	Atg UV Technology. 2015. SRB Treatment. Available online at: http://www.atguv.com/srb-treatment	EPA-HQ-OW-2014-0598-0392
SGE01035	Bosque Systems, LLC. 2013. Case Study CSDIO001.	EPA-HQ-OW-2014-0598-0393
SGE01036	Bosque Systems, LLC. 2013. Water Trmt Sol'n Using Chlorine Dioxide: DIONIX. http://www.bosquesystems.com/pdf/INSDIO06-13%20-%20DIONIX%20-%20Bosque.pdf	EPA-HQ-OW-2014-0598-0394
SGE01037	PureLine. 2014. About ClO ₂ . Available online at: http://www.pureline.com/about-clo2/	EPA-HQ-OW-2014-0598-0395
SGE01038	PureLine. 2014. CG Series. Available online at: http://www.pureline.com/clo2-generation/cg-series/	EPA-HQ-OW-2014-0598-0396
SGE01039	PureLine. 2014. Pure 3 Series. Available online at: http://www.pureline.com/clo2-generation/pure-3-series/	EPA-HQ-OW-2014-0598-0397
SGE01040	Sabre Energy Services, LLC. 2011. Chlorine Dioxide Generation Equipment. http://www.thesabrecompanies.com/sabreenergyservices/services/equipment.aspx	EPA-HQ-OW-2014-0598-0398
SGE01041	U.S. EPA. 1999. Wastewater Technology Fact Sheet: Ultraviolet Disinfection. http://water.epa.gov/scitech/wastetech/upload/2002_06_28_mtb_uv.pdf	EPA-HQ-OW-2014-0598-0399
SGE01042	Wang, J. et al. 2005. Successfully Sterilizing the Sulfate Bacteria With Ultraviolet Radiation in Produced-Water Treatment in Daqing Oilfield.	EPA-HQ-OW-2014-0598-0400
SGE01043	WHO. Seminar Pack for Drinking-Water Quality. Disinfectants and Disinfection By-products. http://www.who.int/water_sanitation_health/dwq/S04.pdf?ua=1	EPA-HQ-OW-2014-0598-0401
SGE01044	Lee, D et al. 2007. Eff. of Oil/Water Sep. Ctrl by Gas Bub. Size & Fluid Dyn. w/in the Sep. Vessel.	EPA-HQ-OW-2014-0598-0402
SGE01046	2014. 5th Annual Shale Play Water Mgmt 2014 – Southern States Conf Materials. (November 19).	EPA-HQ-OW-2014-0598-0718
SGE01046.A01	Lindsey, Stephen. 2014. Expectation Management for Water Use in Oil and Gas.	EPA-HQ-OW-2014-0598-0718
SGE01046.A02	Smith, D. 2014. Determining the Min. Treat. Levels Required for Prod. Efficiency.	EPA-HQ-OW-2014-0598-0718
SGE01046.A03	Mitchell, Robert. 2014. Reuse is Not a 4-Letter Word!	EPA-HQ-OW-2014-

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DCN	Citation	EPA Docket Number
		0598-0718
SGE01046.A04	Capper, Laura. 2014. Designing an Overall Water Treatment Strategy That Can Minimize the Cost of Recycling Produced Water for Reuse.	EPA-HQ-OW-2014-0598-0718
SGE01046.A05	Wrenn, Brian A., 2014. Optimizing the Treatment of Produced Water and Flowback for Reuse or Disposal.	EPA-HQ-OW-2014-0598-0718
SGE01046.A06	Hydrozonix. 2014. Identifying Best Practices for Decreasing Bacteria to Acceptable Levels for Reuse in Hydraulic Fracturing.	EPA-HQ-OW-2014-0598-0718
SGE01046.A07	Cho, Young. 2014. Use of High-Voltage Plasma Discharges for the Treatment of Frac/Produced Water	EPA-HQ-OW-2014-0598-0718
SGE01046.A08	FlexChem. 2014. How to Execute Successful Frac Water Remediation Within Shale Gas Water Management.	EPA-HQ-OW-2014-0598-0718
SGE01046.A09	Foster, Veronica. 2014. How to Optimally Locate and Design Frac Pits.	EPA-HQ-OW-2014-0598-0718
SGE01046.A10	Sims, P.E., M. 2014. Detailing the Very Latest Regltns on the Constrn. of Open Pits for Produced Water Strge to Enable Effective Planning - TX Regltns	EPA-HQ-OW-2014-0598-0718
SGE01046.A11	Baker, Tim; Mike Moore. 2014. Latest Regulations on Produced Water Storage.	EPA-HQ-OW-2014-0598-0718
SGE01046.A12	Bengal, Lawrence. 2014. New Water Storage and Pipeline Infrastructure Requirements to Assess Opportunities for Less Costly Containment.	EPA-HQ-OW-2014-0598-0718
SGE01046.A13	Louisiana Department of Natural Resources. 2014. Water Storage and Pipeline Infrastructure in Louisiana	EPA-HQ-OW-2014-0598-0718
SGE01046.A14	Chamberlain, Alan. 2014. Mapping Available Water Resources in Nevada	EPA-HQ-OW-2014-0598-0718
SGE01046.A15	Wilkins, Kent. 2014. Identifying Suitable Water Sources to Maintain Water Supply for Hydraulic Fracturing During Drought Periods: Oklahoma Case Study	EPA-HQ-OW-2014-0598-0718
SGE01046.A16	Sims, P.E., Michael. 2014. Updates on Water Sourcing Regulations: A Texas Prospective	EPA-HQ-OW-2014-0598-0718
SGE01046.A17	Oklahoma Water Resource Board (OWRB). Updates on Water Sourcing Regulations: Oklahoma.	EPA-HQ-OW-2014-0598-0718
SGE01046.A18	Bengal, Lawrence. 2014. Regulatory Updates on Water Sourcing to Save Time and Costs During Permitting and Effectively Plan for Evolving Restrictions.	EPA-HQ-OW-2014-0598-0718
SGE01046.A19	Louisiana Department of Natural Resources. 2014. Water Sourcing in Louisiana	EPA-HQ-OW-2014-0598-0718
SGE01046.A20	Ausbrooks, S. et al. 2014. Eval Results Latest Induced Seismicity Rprts to Examine Lvl of Seismicity Assoc w/Deep Water Disposal Wells: AR Case Study	EPA-HQ-OW-2014-0598-0718
SGE01046.A21	Sims, P.E., M. 2014. Update on Specifications of Latest Water Disposal Regs to Understand Steps to Take to Cost-Effectively Comply: A TX Perspective.	EPA-HQ-OW-2014-0598-0718
SGE01046.A22	Oklahoma Corporation Commission. 2014. Underground Injection Control Program UIC: 165:10-5-1 through 165:10-5-15	EPA-HQ-OW-2014-0598-0718
SGE01046.A23	Bengal, Lawrence. 2014. Regulatory Updates on Water Disposal and Discharge to Budget for Future Projects and Ensure Compliance	EPA-HQ-OW-2014-0598-0718
SGE01046.A24	Louisiana Department of Natural Resources. 2014. Water Disposal	EPA-HQ-OW-2014-

Table 3. Crosswalk for All Documents Supporting the Proposed Effluent Limitation Guidelines and Standards for the Oil and Gas Extraction Point Source Category

DCN	Citation	EPA Docket Number
	and Discharge in Louisiana.	0598-0718
SGE01046.A25	Oggero, George. 2014. Best Practices for Negotiating with Landowners to Acquire More Local Water Supplies and Lower Transportation Costs.	EPA-HQ-OW-2014-0598-0718
SGE01046.A26	Adler, J. 2014. Rvw Online Water Sharing Exchng for Ovrcmng Sourcing& Dispsl Chlngs, Maxmzng Rcyclng, Enhancing Supply Chain Resilience& Minmzng Cost.	EPA-HQ-OW-2014-0598-0718
SGE01046.A27	Cedar Strat. 2014. Another Great Basis Water Resource Solution: Drill and Strike Oil.	EPA-HQ-OW-2014-0598-0718
SGE01047	U.S. Environmental Protection Agency (U.S. EPA). 2015. Site Visit Report Seneca Resources Corporation, Covington, PA.	EPA-HQ-OW-2014-0598-0644
SGE01048	Zhou, H and D. Smith 2002. Advanced technologies in water and wastewater treatment. http://www.ozomax.com/pdf/Article_O3_treat_for_waste_water.pdf .	EPA-HQ-OW-2014-0598-0403
SGE01049	NETL. 2011. Produced Water Management Technology Descriptions Fact Sheet - Ion Exchange.	EPA-HQ-OW-2014-0598-0468
SGE01050	Kimball, Bob. 2010. High Recovery Reverse Osmosis for Treatment of Produced Water.	EPA-HQ-OW-2014-0598-0469
SGE01051	Drewes, Jorg E; et al. 2009. Opportunities, Challenges, and Research Needs for Beneficial Use of CBM Produced Water	EPA-HQ-OW-2014-0598-0689
SGE01052	ERG. 2015. Underground Injection Control Program Webinar Notes. (January 22).	EPA-HQ-OW-2014-0598-0470
SGE01052.A01	Johnson, Karen. 2015. Underground Injection Control Program Webinar Slides. (January 22).	EPA-HQ-OW-2014-0598-0470
SGE01053	Raisbeck, M. F. 2013. Water Quality for Wyoming Livestock & Wildlife A Review of the Literature Pertaining to Health Effects of Inorganic Contaminants	EPA-HQ-OW-2014-0598-0471
SGE01054	Atg UV Technology. Unconventional Gas (Fracking). Available online at: http://www.atguv.com/unconventional-gas-fracking	EPA-HQ-OW-2014-0598-0472
SGE01056	Geiver, Luke. 2013. Water Recycling's New Reality. The Bakken Magazine.	EPA-HQ-OW-2014-0598-0473
SGE01057	Halliburton Multi-Chem. 2013. CleanStream® Service Capabilities.	EPA-HQ-OW-2014-0598-0474
SGE01058	Halliburton Multi-Chem. 2014. CleanStream® Water Treatment Service Frequently Asked Questions.	EPA-HQ-OW-2014-0598-0475
SGE01059	Sabre Energy Services, LLC. 2011. Oil Field Case Study: Disinfecting Water for Well Fracturing with Chlorine Dioxide.	EPA-HQ-OW-2014-0598-0476
SGE01060	Sabre Energy Services, LLC. 2011. Oil Field Case Study: Maximizing Frac Water Reuse with Chlorine Dioxide.	EPA-HQ-OW-2014-0598-0477
SGE01061	Sabre Oxidation. 2011. DiKlor® - Sodium Chlorite Solution. Available online at: http://www.thesabrecompanies.com/sabreoxidation/services/diklor.aspx	EPA-HQ-OW-2014-0598-0478
SGE01064	ERG. 2012. Talisman - Sanitized Notes.	EPA-HQ-OW-2014-0598-0645
SGE01065	ERG. 2015. Site Visit Report for Reserved Environmental Services, LLC Mt. Pleasant, PA Centralized Waste Treatment.	EPA-HQ-OW-2014-0598-0479
SGE01067	ERG. 2015. International Water Conference 2014.	EPA-HQ-OW-2014-

Table 3. Crosswalk for All Documents Supporting the Proposed Effluent Limitation Guidelines and Standards for the Oil and Gas Extraction Point Source Category

DCN	Citation	EPA Docket Number
		0598-0480
SGE01068	ERG. 2015. IWC Webinars Materials 2014.	EPA-HQ-OW-2014-0598-0481
SGE01068.A01	Huffmyer, Russell; John VanGehuchten; James Silva. 2013. Best of IWC Webinar: Frac Water.	EPA-HQ-OW-2014-0598-0481
SGE01068.A02	Silva, James; Rachel Gettings; William Kostedt; Vicki Watkins. 2013. Pretreatment Targets for Salt Recovery from Marcellus Shale Gas Produced Water.	EPA-HQ-OW-2014-0598-0481
SGE01068.A03	Huffmyer, Van Gehuchten, J. 2013. Recovering Valuable Byproducts from Oil and Gas Wastes	EPA-HQ-OW-2014-0598-0481
SGE01068.A04	Schubert, P.E. 2013. Prepared Discussion of: Recovering Valuable Byproducts from Oil and Gas Wastes	EPA-HQ-OW-2014-0598-0481
SGE01068.A05	Silva, J; Gettings, R; Kostedt, W; Watkins, V. 2013. Pretreatment Targets for Salt Recovery from Marcellus Shale Gas Produced Water.	EPA-HQ-OW-2014-0598-0481
SGE01068.A06	Penland, Jerry L. 2013. Prepared Discussion of: Pretreatment Targets for Salt Recovery from Marcellus Shale Gas Produced Water	EPA-HQ-OW-2014-0598-0481
SGE01069	ERG. 2015. WEFTEC 2014 Notes.	EPA-HQ-OW-2014-0598-0762
SGE01069.A01	Pankratz, Tom. 2014. Water Reuse in Upstream Oil and Gas.	EPA-HQ-OW-2014-0598-0762
SGE01069.A02	Halldorson, Brent; John Tintera. 2014. Regulatory Issues Facing Water Management in thte Oil an dGas Industry - A Case Study on Texas.	EPA-HQ-OW-2014-0598-0762
SGE01069.A03	Sun, Paul T. 2014. Treatment Strategy of Flowback and Produced Water from Unconventional Gas Production.	EPA-HQ-OW-2014-0598-0762
SGE01069.A04	Lucey, Jr., John T. 2014. Financial Considereatons for Produced Water Management.	EPA-HQ-OW-2014-0598-0762
SGE01069.A05	Zaugg, Nathan. 2014. Conventional Alternatives for Treatment of Produced and Flowback Water in Oil Field Operations.	EPA-HQ-OW-2014-0598-0762
SGE01069.A06	Johnson, Aaron M. 2014. Treatment Technologies Part 2: Selection of Tertiary Treatments.	EPA-HQ-OW-2014-0598-0762
SGE01069.A07	Halldorson, Brent. 2014. Oilfield Water Management: Assessing & Selecting the Optimal Water Management Solution.	EPA-HQ-OW-2014-0598-0762
SGE01069.A08	Klempel, Dustin. 2014. Water Reuse and Integrated Infrastructure Development.	EPA-HQ-OW-2014-0598-0762
SGE01069.A09	Lampi, Keith. 2014. Industrial Wastewater Treatment: Forward Osmosis Concentration achieving ZLD with Thermal Crystallization.	EPA-HQ-OW-2014-0598-0762
SGE01069.A10	Lampi, Keith. 2014. Is Forward Osmosis Right for You.	EPA-HQ-OW-2014-0598-0762
SGE01069.A11	Oasys Water. 2014. Case Study: Produced Water, Marcellus Shale.	EPA-HQ-OW-2014-0598-0762
SGE01069.A12	Oasys Water. 2014. Case Study: Produced Water, West Texas.	EPA-HQ-OW-2014-0598-0762
SGE01070	ERG. 2015. Underground Injection Control Program Webinar Notes (Jan 2015).	EPA-HQ-OW-2014-0598-0711
SGE01070.A01	Johnson, Karen. 2015. Underground Injection Control Program Webinar Slides (Jan 2015).	EPA-HQ-OW-2014-0598-0711

Table 3. Crosswalk for All Documents Supporting the Proposed Effluent Limitation Guidelines and Standards for the Oil and Gas Extraction Point Source Category

DCN	Citation	EPA Docket Number
SGE01071	ERG. 2015. 2nd Emerging Shale Plays (2013).	EPA-HQ-OW-2014-0598-0482
SGE01072	ERG. 2015. AIChE Webinar - Reuse and HF (12-4-2013).	EPA-HQ-OW-2014-0598-0483
SGE01073	ERG. 2015. 2011 International Water Conference Notes.	EPA-HQ-OW-2014-0598-0484
SGE01073.A01	Papso, John; Matt Blauch; Dave Grottenthaler. 2010. Cabot Gas Well Treated with 100% Reused Frac Fluid.	EPA-HQ-OW-2014-0598-0484
SGE01073.A02	Veil, John. 2011. Water Issues and Challenges Associated with Shale Gas Production.	EPA-HQ-OW-2014-0598-0484
SGE01073.A03	Silva, James; Hope Matis; William Kostedt IV; Vicki Watkins. 2011. NORM Removal from Hydrofracturing Water.	EPA-HQ-OW-2014-0598-0484
SGE01073.A04	Penland, Jerry L. 2011. Discussion of: NORM Removal from Hydrofracturing Water.	EPA-HQ-OW-2014-0598-0484
SGE01073.A05	Kurz, B; Stepan, D; Harju, J; Stevens, B; Cowan, R. 2011. Evaluation of Brackish Groundwater Trmt for Use in Hydraulic Frac of the Bakken Play, ND.	EPA-HQ-OW-2014-0598-0484
SGE01073.A06	Schubert, P.E., John. 2011. Prepared Discussion of: Evaluation of Brackish Groundwater Trmt for Use in Hydraulic Fracturing of the Bakken Play, ND..	EPA-HQ-OW-2014-0598-0484
SGE01073.A07	Shaw, P.E., William A. 2011. The Real Cost of ZLD for Shale Gas Frac Water in the Marcellus Shale Play.	EPA-HQ-OW-2014-0598-0484
SGE01073.A08	Blauch, M.E. et al. 2009. Marcellus Shale Post-frac Flowback Waters - Where is All the Salt Coming from and What are the Implications?	EPA-HQ-OW-2014-0598-0484
SGE01073.A09	Houston, Nathan; Matt Blauch; Dalton Weather, III. 2009. Fracture-Stimulation in the Marcellus Shale-Lessons Learned in Fluid Selection and Execution.	EPA-HQ-OW-2014-0598-0484
SGE01073.A10	Schubert, John; Joe Swearman. 2011. Water and Wastewater Treatment for Natural Gas Well Development.	EPA-HQ-OW-2014-0598-0484
SGE01075	ERG. 2015. WEFTEC 2012 Notes.	EPA-HQ-OW-2014-0598-0549
SGE01075.A01	Water Environment Federation. 2012. Contemporary Technologies for Shale-Gas Water and Environmental Management.	EPA-HQ-OW-2014-0598-0549
SGE01075.A02	Edmiston, Paul, et al. 2012. Management of Soluble Organics in Produced and Flowback Waters with Swellable, Absorbent Glass.	EPA-HQ-OW-2014-0598-0549
SGE01075.A03	Foster, P.E., Veronica. 2012. Liner Considerations At Unconventional Drilling Site Impoundments.	EPA-HQ-OW-2014-0598-0549
SGE01075.A04	Goldstein, Bernard D.; Jill Kriesky. 2012. The Public Health Implications of Unconventional Natural Gas Drilling.	EPA-HQ-OW-2014-0598-0549
SGE01075.A05	Smith, Ethan T.; Harry X. Zhang. 2012. Hydraulic Fracturing in the Context of Sustainable Water Management.	EPA-HQ-OW-2014-0598-0549
SGE01075.A06	Veil, John A. 2012. Overview of Shale Gas Water Issues.	EPA-HQ-OW-2014-0598-0549
SGE01077	Ground Water Protection Council (GWPC). 2014. Regulations Designed to Protect State Oil and Gas Water Resources.	EPA-HQ-OW-2014-0598-0550
SGE01080	Fajt, James. 2012. Capacitive Deionization (CDI). M-I SWACO, A Schlumberger Co. (November 11).	EPA-HQ-OW-2014-0598-0485
SGE01081	Alkhudhiri, Abdullah. 2012. Membrane distillation: A comprehensive review. Desalination. (August 11).	EPA-HQ-OW-2014-0598-0551

Table 3. Crosswalk for All Documents Supporting the Proposed Effluent Limitation Guidelines and Standards for the Oil and Gas Extraction Point Source Category

DCN	Citation	EPA Docket Number
SGE01082	Atlantis Technologies. 2012. Technical Summary Radial Deionization. http://www.deionizing.com/technology.html . Accessed on November 26, 2014.	EPA-HQ-OW-2014-0598-0486
SGE01083	Kim, A.S. 2012. A two-interface transport model with pore-size distribution for predicting the performance of direct contact membrane distillation.	EPA-HQ-OW-2014-0598-0487
SGE01084	Shaffer et al. 2013. Desalination and Reuse of High-Salinity Shale Gas Produced Water: Drivers, Technologies, and Future Directions. (July 25).	EPA-HQ-OW-2014-0598-0488
SGE01085	Refrakt. 2012. Purifying oil and gas produced water with membrane distillation. Online at: https://angel.co/refrackt-1 . Accessed on February 6, 2015.	EPA-HQ-OW-2014-0598-0748
SGE01086	Biesheuvel, P.M., A. van der Wal. 2010. Membrane capacitive deionization. <i>Journal of Membrane Science</i> . (September 18).	EPA-HQ-OW-2014-0598-0489
SGE01087	Li, Haibo, Linda Zou. 2011. Ion-exchange membrane capacitive deionization: A new strategy for brackish water desalination. (February 11).	EPA-HQ-OW-2014-0598-0490
SGE01088	EIA. 2013. Annual Energy Outlook 2013.	EPA-HQ-OW-2014-0598-0491
SGE01089	Murray, Kyle. 2014. Class II Underground Injection Control Well Data for 2010–2013 by Geologic Zones of Completion, Oklahoma.	EPA-HQ-OW-2014-0598-0492
SGE01090	ERG. 2015. McKeesport POTW	EPA-HQ-OW-2014-0598-0493
SGE01091	US EPA. 2015. Minimizing and Managing Potential Impacts of Injection Induced Seismicity from Class II Disposal Wells: Practical Approaches	EPA-HQ-OW-2014-0598-0494
SGE01092	Fairmont Brine Processing. 2012. Company Website. Retrieved from: http://fairmontbrine.com/	EPA-HQ-OW-2014-0598-0495
SGE01093	Abt. 2015. Final Annotated Bibl for Sec XIV, Env Impacts, of the Preamble for “ELG and Standards for the O&G Extraction Point Source Cat; Prop Rule”	EPA-HQ-OW-2014-0598-0496
SGE01095	USGS. 2015. Trends in Hydraulic Fracturing Distributions & Trt Fluids, Additives, Proppants, & Water Volumes Applied to US Wells Drilled, 1947-2010.	EPA-HQ-OW-2014-0598-0552
SGE01095.A01	U.S. Geological Survey. 2015. Frac Well Final Status.	EPA-HQ-OW-2014-0598-0552
SGE01095.A02	U.S. Geological Survey. 2015. Frac Well Horizontal Direction.	EPA-HQ-OW-2014-0598-0552
SGE01095.A03	U.S. Geological Survey. 2015. Frac Well Vertical.	EPA-HQ-OW-2014-0598-0552
SGE01095.A04	U.S. Geological Survey. 2015. Water Based Volume Per Well 1-99th Percentile.	EPA-HQ-OW-2014-0598-0552
SGE01095.A05	U.S. Geological Survey. 2015. Frac Additive.	EPA-HQ-OW-2014-0598-0552
SGE01095.A06	U.S. Geological Survey. 2015. Frac Hole Direction.	EPA-HQ-OW-2014-0598-0552
SGE01095.A07	U.S. Geological Survey. 2015. Frac Proppant.	EPA-HQ-OW-2014-0598-0552
SGE01095.A08	U.S. Geological Survey. 2015. Frac Treatment Fluid.	EPA-HQ-OW-2014-0598-0552

Table 3. Crosswalk for All Documents Supporting the Proposed Effluent Limitation Guidelines and Standards for the Oil and Gas Extraction Point Source Category

DCN	Citation	EPA Docket Number
SGE01095.A09	U.S. Geological Survey. 2015. Frac Treatment Type.	EPA-HQ-OW-2014-0598-0552
SGE01095.A10	U.S. Geological Survey. 2015. Additive Key.	EPA-HQ-OW-2014-0598-0552
SGE01095.A11	U.S. Geological Survey. 2015. Hole Direction Key.	EPA-HQ-OW-2014-0598-0552
SGE01095.A12	U.S. Geological Survey. 2015. Proppant Key.	EPA-HQ-OW-2014-0598-0552
SGE01095.A13	U.S. Geological Survey. 2015. Treatment Fluid Key.	EPA-HQ-OW-2014-0598-0552
SGE01095.A14	U.S. Geological Survey. 2015. Treatment Type Key.	EPA-HQ-OW-2014-0598-0552
SGE01095.A15	U.S. Geological Survey. 2015. Frac Treat. Geo. Prov..	EPA-HQ-OW-2014-0598-0552
SGE01095.A16	U.S. Geological Survey. 2015. Frac Treat. HUC Alaska.	EPA-HQ-OW-2014-0598-0552
SGE01095.A17	U.S. Geological Survey. 2015. Frac Treat. HUC US.	EPA-HQ-OW-2014-0598-0552
SGE01095.A18	U.S. Geological Survey. 2015. Frac Treat. HUC State.	EPA-HQ-OW-2014-0598-0552
SGE01095.A19	U.S. Geological Survey. 2015. Frac Well HUC Alaska.	EPA-HQ-OW-2014-0598-0552
SGE01095.A20	U.S. Geological Survey. 2015. Frac Well HUC US.	EPA-HQ-OW-2014-0598-0552
SGE01095.A21	U.S. Geological Survey. 2015. Frac Well HUC State.	EPA-HQ-OW-2014-0598-0552
SGE01095.A22	U.S. Geological Survey. 2015. Data Series.	EPA-HQ-OW-2014-0598-0552
SGE01096	PA DEP. 2011. 2009 XTO 23 N Buffalo Twp Armstrong, PA.	EPA-HQ-OW-2014-0598-0553
SGE01097	PA DEP. 2011. 2010 Chief Oil & Gas 1 Somerset, PA.	EPA-HQ-OW-2014-0598-0554
SGE01098	PA DEP. 2011. 2010 EQT Production Company 3.	EPA-HQ-OW-2014-0598-0690
SGE01099	PA DEP. 2011. 2010 Great Oak Energy 1 Salem Twp Westmoreland, PA.	EPA-HQ-OW-2014-0598-0691
SGE01100	PA DEP. 2011. 2010 Keystone Clearwater Solutions 1 Derry Twp Westmoreland, PA.	EPA-HQ-OW-2014-0598-0692
SGE01101	PA DEP. 2011. 2010 XTO 20 Ligonier Twp Westmoreland, PA.	EPA-HQ-OW-2014-0598-0714
SGE01102	PA DEP. 2011. 2010 Keystone Clearwater Solutions Derry Twp Westmoreland, PA.	EPA-HQ-OW-2014-0598-0715
SGE01103	PA DEP. 2011. XTO Brush Valley Twp Indiana, PA.	EPA-HQ-OW-2014-0598-0716
SGE01104	PA DEP. 2011. XTO Center Twp Indiana, PA.	EPA-HQ-OW-2014-0598-0717
SGE01105	PA DEP. 2011. XTO Fairfield Twp Westmoreland.	EPA-HQ-OW-2014-0598-0719
SGE01106	PA DEP. 2011. XTO St Clair Twp Westmoreland, PA.	EPA-HQ-OW-2014-0598-0555

Table 3. Crosswalk for All Documents Supporting the Proposed Effluent Limitation Guidelines and Standards for the Oil and Gas Extraction Point Source Category

DCN	Citation	EPA Docket Number
SGE01107	PA DEP. 2011. XTO White Twp Indiana, PA.	EPA-HQ-OW-2014-0598-0556
SGE01108	PA DEP. 2010. 2010 Cabot Oil & Gas 1 Dimock County, Susquehanna, PA.	EPA-HQ-OW-2014-0598-0557
SGE01109	ERG. 2015. PA and VA Class II Injection for Disposal Volume Data.	EPA-HQ-OW-2014-0598-0658
SGE01110	Sminchak, Joel; Miller, John; Gupta, Neeraj. 2015. Brine Disposal Reservoirs in the Appalachian Basin: Injection Performance & Geological Properties.	EPA-HQ-OW-2014-0598-0558
SGE01111	Litvak, Anya. 2014. Engineering firm ventures into wastewater, LNG. Pittsburgh Post-Gazette.	EPA-HQ-OW-2014-0598-0559
SGE01113	WV DEP 2009. WV/NPDES Permit No WV0023302 Clarksburg Sanitary Board Accepting Oil and Gas Wastewater.	EPA-HQ-OW-2014-0598-0646
SGE01114	WV DEP 2009. WV/NPDES Permit No, WV0023230 City of Wheeling Accepting Oil and Gas Wastewater.	EPA-HQ-OW-2014-0598-0647
SGE01116	Halliburton. 2014. CleanStream® System Sterilizes Water, Reduces Chemical Footprint and Saves 'Green' by Going Green.	EPA-HQ-OW-2014-0598-0709
SGE01118	Tischler, A, et al. 2010. Controlling Bacteria in Recycled Production Water for Completion and Workover Operations. Society of Petroleum Engineers.	EPA-HQ-OW-2014-0598-0654
SGE01119	Crane, B, et al. 2011. Improved Process Provides More Effective Ultraviolet Light Disinfection of Fracturing Fluids. Society of Petroleum Engineers.	EPA-HQ-OW-2014-0598-0655
SGE01120	Rodvelt, Gary, et al. 2011. Case History: Challenges Using UV Light to Control Bacteria in Marcellus Completions. Society of Petroleum Engineers.	EPA-HQ-OW-2014-0598-0656
SGE01121	McCutchan, Morgan. 2013. Water Management Overview, Chlorine Dioxide, Detail Case History. Baker Hughes.	EPA-HQ-OW-2014-0598-0657
SGE01123	USEPA. 2014. Tribal Unconventional Oil and Gas Operations and Wastewater Management Call Summary.	EPA-HQ-OW-2014-0598-0754
SGE01124	USEPA. 2015. Proposed Effluent Limitations Guidelines and Standards for the Oil and Gas Extraction Point Source Category.	EPA-HQ-OW-2014-0598-0001

a—An EPA Docket Number was assigned after this document was published.

**ATTACHMENT 4: CROSSWALK FOR DOCUMENTS CITED IN THE FEDERAL REGISTER NOTICE
SUPPORTING THE PROPOSED EFFLUENT LIMITATION GUIDELINES AND STANDARDS FOR THE
OIL AND GAS EXTRACTION POINT SOURCE CATEGORY**

EPA-HQ-OW-2014-0598

Table 4. Crosswalk for Documents Cited in the Federal Register Notice Supporting the Proposed Effluent Limitation Guidelines and Standards for the Oil and Gas Extraction Point Source Category

DCN	Citation	EPA Docket Number
SGE00001	Miller, Bryon. 2009. Brush Run Spill Report	EPA-HQ-OW-2014-0598-0446
SGE00001.A01	Unknown. Brush Run Lab Spill Samples	EPA-HQ-OW-2014-0598-0446
SGE00010	U.S. DOE. Office of Fossil Energy NETL. April 2009.	EPA-HQ-OW-2014-0598-0288
SGE00011	Veil, John A. 2010. Water Management Technologies Used by Marcellus Shale Gas Producers. Prepared by Argonne National Lab. Prepared for U.S. DOE NETL.	EPA-HQ-OW-2014-0598-0292
SGE00046	Abdalla, Charles W. et. al. 2011. Marcellus Shale Wastewater Issues in PA-Current & Emerging Treatment & Disposal Technologies. Penn State Cooperative	EPA-HQ-OW-2014-0598-0299
SGE00063	U.S.EPA. 2011. Draft Plan to Study the Potential Impacts of Hydraulic Fracturing on Drinking Water Resources. Office of Research and Development.	EPA-HQ-OW-2014-0598-0301
SGE00070	Acharya, Harish; Matis, Hope; Kommepalli, Hareesh; Moore, Brian; Wang, Hua. 2011. Cost Effective Recovery of Low-TDS Frac Flowback Water for Re-use.	EPA-HQ-OW-2014-0598-0307
SGE00090	NYSDEC. 2011. Suppl. Generic Env. Imp. Statement on Oil, Gas, & Soln. Mining Reg. Program. Prelim. Rev. Draft.	EPA-HQ-OW-2014-0598-0310
SGE00095	URS. 2011. Water-Related Issues Associated with Gas Production in the Marcellus Shale. (March 25).	EPA-HQ-OW-2014-0598-0313
SGE00132	U.S. EPA. 2011. Underground Injection Control Program: Class II Wells—Oil and Gas Related Injection Wells (Class II). Downloaded on 8/31/2011.	EPA-HQ-OW-2014-0598-0341
SGE00136	U.S. EPA. 2011. Oil and Gas Production Wastes. http://www.epa.gov/radiation/tenorm/oilandgas.html	EPA-HQ-OW-2014-0598-0344
SGE00139	Puder, M.G.; Veil, J.A. 2006. Offsite Comm. Disposal of Oil and Gas Exploration and Prod. Waste: Availability, Options, and Costs.	EPA-HQ-OW-2014-0598-0346
SGE00182	Clark, C.E.; Veil, J.A. 2009. Produced Water Volumes and Management Practices in the United States. ANL/EVS/R-09/1. Argonne National Laboratory.	EPA-HQ-OW-2014-0598-0377
SGE00187	Pennsylvania Code. 2010. Title 25: Environmental Protection. Chapter 95: Wastewater Treatment Requirements. (August). Available online	EPA-HQ-OW-2014-0598-0379
SGE00239	Hefley, William, et al. 2011. The Economic Impact of the Value Chain of a Marcellus Shale Well. University of Pittsburgh. (August)	EPA-HQ-OW-2014-0598-0405
SGE00241	Rowan, E.L., et al. 2011. Radium content of oil and gas field prod waters in the northern App Basin. USGS Scientific Investigations Report 2011–5135.	EPA-HQ-OW-2014-0598-0406
SGE00245	ERG. 2012. Camp, Meghan et. al. Notes on Conference Call with Reserved Environmental Services, LLC on 5 January 2012. (February 1)	EPA-HQ-OW-2014-0598-0450
SGE00274	US EPA. 2012. Site Visit Report Chesapeake Energy Corporation Marcellus Shale Gas Operations Sanitized.	EPA-HQ-OW-2014-0598-0799
SGE00275	U.S. EPA. 2012. Site Visit Report: Citrus Energy Corporation Marcellus Shale Gas Operations. (January 22).	EPA-HQ-OW-2014-0598-0535
SGE00276	U.S. EPA. 2012. Meeting with XTO Energy, Inc. about Unconventional Oil and Gas Sanitized.	EPA-HQ-OW-2014-0598-0659

Table 4. Crosswalk for Documents Cited in the Federal Register Notice Supporting the Proposed Effluent Limitation Guidelines and Standards for the Oil and Gas Extraction Point Source Category

DCN	Citation	EPA Docket Number
SGE00280	U.S. EPA. 2013. Site Visit Report: Anadarko Petroleum Corporation Marcellus Shale Gas Operations. (January 9).	EPA-HQ-OW-2014-0598-0537
SGE00284	Hayes, Thomas et al. 2012. Barnett and Appalachian Shale Water Management and Reuse Technologies. RPSEA	EPA-HQ-OW-2014-0598-0417
SGE00286	Hammer, R. et. al. 2012. In Fracking's Wake: New Rules Are Needed to Protect Our Health and Environment from Contaminated Wastewater. NRDC D:12-05-A	EPA-HQ-OW-2014-0598-0419
SGE00299	U.S. EPA. 2012. Site Visit Report: US Gas Field Fluids Management (formerly Clean Streams) Marcellus Shale Gas Operations. (October 9).	EPA-HQ-OW-2014-0598-0539
SGE00300	U.S. EPA. 2012. Site Visit Report: Eureka Resources, LLC Marcellus Shale Gas Operations. (February 25).	EPA-HQ-OW-2014-0598-0540
SGE00345	Lewis, Aurana. 2012. Wastewater Generation and Disposal from Natural Gas Wells in Pennsylvania. Duke University.	EPA-HQ-OW-2014-0598-0433
SGE00374	Red Desert. n.d. What Makes Our Water Treatment & Reclamation Facility So Advanced? Downloaded on 1/28/2013.	EPA-HQ-OW-2014-0598-0454
SGE00525	Ferrar, K.J., et al. 2013. Assessment of Eff. Contaminants from 3 Facilities Discharging Marcellus Shale Wastewater to Surface Waters in PA.	EPA-HQ-OW-2014-0598-0593
SGE00528	Gilmer, Ellen. 2013. Data Show More Marcellus Wastewater, More Injections. E&E News. (February 22).	EPA-HQ-OW-2014-0598-0595
SGE00531	Hanlon, James. 2011. Natural Gas Drilling in the Marcellus Shale: NPDES Program Frequently Asked Questions. (March 16).	EPA-HQ-OW-2014-0598-0597
SGE00532	Hansen, E; Mulvaney, D; Betcher, M. 2013. Water Resource Reporting and Water Footprint from Marcellus Shale Development in WV and PA. (October 30).	EPA-HQ-OW-2014-0598-0598
SGE00533	Heffernan, Kevin. 2012. Unconventional Resource Development and Hydraulic Fracturing. Red Deer River Watershed Alliance. (October 25).	EPA-HQ-OW-2014-0598-0599
SGE00535	Hladik, M.; Focazio, M.J.; Englae, M. 2014. Discharges of Prod Waters from Oil and Gas Extraction via WWTPs Are Sources of DBPs to Receiving Streams.	EPA-HQ-OW-2014-0598-0601
SGE00547	Massachusetts Institute of Technology (MIT). 2011. The Future of Natural Gas: An Interdisciplinary MIT Study.	EPA-HQ-OW-2014-0598-0043
SGE00556	Nicot, Jean-Philippe, et al. 2011. Current and Projected Water Use in the Texas Mining and Oil and Gas Industry.	EPA-HQ-OW-2014-0598-0050
SGE00575	Petroleum Equipment Suppliers Association (PESA). 2012. Outlook for Domestic Unconventional Resources. Presentation at PESA Annual Meeting.	EPA-HQ-OW-2014-0598-0063
SGE00579	Rahm, Brian, et al. 2013. Wastewater Management and Marcellus Shale Gas Development: Trends, Drivers, and Planning Implications.	EPA-HQ-OW-2014-0598-0067
SGE00585	U.S. EPA. 2014. FracFocus Database. Office of Research and Development (ORD).	EPA-HQ-OW-2014-0598-0340
SGE00587	States, Stanley et al. 2013. Marcellus Shale Drilling and Brominated THMs in Pittsburgh, Pa., Drinking Water. Journal AWWA. (August).	EPA-HQ-OW-2014-0598-0073
SGE00592	U.S. Department of Energy (U.S. DOE). 2013. Water Issues Dominate Oil and Gas Production. E&P Focus. (Fall).	EPA-HQ-OW-2014-0598-0075

Table 4. Crosswalk for Documents Cited in the Federal Register Notice Supporting the Proposed Effluent Limitation Guidelines and Standards for the Oil and Gas Extraction Point Source Category

DCN	Citation	EPA Docket Number
SGE00598	ERG. 2015. Publicly Owned Treatment Works (POTW) Memorandum for the Technical Development Document (TDD).	EPA-HQ-OW-2014-0598-0798
SGE00600	U.S. EPA. 2003. Development Document for the Final ELGs for the Metal Products and Machinery Point Source Category. EPA 821-B-03-001.	EPA-HQ-OW-2014-0598-0080
SGE00604	U.S. EPA. 2010. Hydraulic Fracturing Research Study. EPA 600-F-10-002. (June)	EPA-HQ-OW-2014-0598-0084
SGE00613	U.S. EPA. 2013. Meeting Summary: Meeting with Industry Representatives About the Unconventional Oil and Gas Effluent Guideline Rulemaking.	EPA-HQ-OW-2014-0598-0090
SGE00614	U.S. EPA. 2013. Overview of Hydraulic Fracturing Wastewater Research: Wastewater Treatment and Related Modeling. April 18	EPA-HQ-OW-2014-0598-0091
SGE00615	U.S. EPA. 2013. Radionuclides in Drinking Water: Waste Disposal Options. (November 26)	EPA-HQ-OW-2014-0598-0092
SGE00616	U.S. EPA. 2013. Summary of the Technical Workshop on Wastewater Treatment and Related Modeling. (April 18)	EPA-HQ-OW-2014-0598-0093
SGE00622	U.S. Geological Survey (USGS). 2013. Water Resources and Shale Gas/Oil Production in the Appalachian Basin. (August).	EPA-HQ-OW-2014-0598-0097
SGE00623	U.S. GAO. 2012. Energy-Water-Nexus: Information on the Quantity, Quality, and Management of Water Produced During O&G Production. (January). GAO-12-156	EPA-HQ-OW-2014-0598-0098
SGE00625	US EPA. 2015. Site Visit Report: Southwestern Energy Fayetteville Shale Gas Operations. Sanitized.	EPA-HQ-OW-2014-0598-0662
SGE00629	Warner et al. 2013. Impacts of Shale Gas Wastewater Disposal on Water Quality in Western PA. Environmental Science & Technology 47(20):11849–11857	EPA-HQ-OW-2014-0598-0101
SGE00633	Wilson and VanBriesen. 2013. Oil and Gas Produced Water Management and Surface Drinking Water Sources in PA. Environmental Practice 14(4):288–300.	EPA-HQ-OW-2014-0598-0103
SGE00635	US EPA. 2012. Site Visit Report Chesapeake Energy Corporation Marcellus Shale Gas Operations Sanitized.	EPA-HQ-OW-2014-0598-0713
SGE00636	U.S. EPA. 2012. Talisman Marcellus Operations Overview. (July 23).	EPA-HQ-OW-2014-0598-0104
SGE00637.A03	Yoxitheimer, David. 2013. Produced Fluid Generation and Injection Well Disposal Considerations.	EPA-HQ-OW-2014-0598-0105
SGE00691	U.S. EPA. 2013. Summary of the Technical Workshop on Water Acquisition Modeling: Assessing Impacts Through Modeling and Other Means. (September).	EPA-HQ-OW-2014-0598-0156
SGE00704	U.S. EPA. 2015. Technical Development Document for Proposed Effluent Limitations Guidelines and Standards for Oil and Gas Extraction.	EPA-HQ-OW-2014-0598-0683
SGE00707	Horn, A; Patton, M; Hu, J. 2013. Minimum Effective Dose: A Study of Flowback and Produced Fluid Treatment for Use as Hydraulic Fracturing Fluid.	EPA-HQ-OW-2014-0598-0684
SGE00708	Environmental Leader. 2013. Unconventional E&P “\$8 Billion of US Water Services Market.” (November 11).	EPA-HQ-OW-2014-0598-0160
SGE00721	U.S. EPA. 2015. Analysis of Hydraulic Fracturing Fluid Data from the FracFocus Chemical Disclosure Registry 1.0. (March).	EPA-HQ-OW-2014-0598-0628
SGE00724	ERG. 2015. Unconventional Oil and Gas (UOG) Produced Water	EPA-HQ-OW-2014-

Table 4. Crosswalk for Documents Cited in the Federal Register Notice Supporting the Proposed Effluent Limitation Guidelines and Standards for the Oil and Gas Extraction Point Source Category

DCN	Citation	EPA Docket Number
	Volumes and Characterization Data Compilation Memorandum	0598-0677
SGE00739	ERG. 2015. Analysis of Pennsylvania Department of Environmental Protection's Oil and Gas Waste Reports.	EPA-HQ-OW-2014-0598-0663
SGE00740	ERG. 2015. Unconventional Oil and Gas (UOG) Drilling Wastewater Memorandum	EPA-HQ-OW-2014-0598-0672
SGE00742	U.S. EPA. 2012. States Pretreatment Coordinators' Quarterly Conference Call: Summary. (August 8).	EPA-HQ-OW-2014-0598-0180
SGE00743	U.S. EPA. 2013. States Pretreatment Coordinators' Bi-monthly Conference Call. (August 14).	EPA-HQ-OW-2014-0598-0181
SGE00761	U.S. EPA. 1989. Letter from T.P. O'Farrell (EPA) to C.B. Harriman (Steptoe & Johnson) about applicability of 40 CFR 435 Subpart C to CBM operations.	EPA-HQ-OW-2014-0598-0630
SGE00762	Biddle, Lisa. 2015. Summary of EPA-State Pilot on Improving Regulatory Implementation	EPA-HQ-OW-2014-0598-0199
SGE00765	U.S. Environmental Protection Agency (U.S. EPA). 1982. Fate of Priority Toxic Pollutants in Publicly Owned Treatment Works, Final Report. (July).	EPA-HQ-OW-2014-0598-0631
SGE00769	International Atomic Energy Agency (IAEA). 2014. The Environmental Behaviour of Radium: Revised Edition. Technical Report Series No. 476. (March 1).	EPA-HQ-OW-2014-0598-0204
SGE00780	ExxonMobile. 2014. Hydraulic Fracturing Fluid. XTO Energy. Downloaded on 6/13/2014.	EPA-HQ-OW-2014-0598-0212
SGE00781	FracFocus. 2014. What Chemicals Are Used?	EPA-HQ-OW-2014-0598-0213
SGE00785	USEPA. 2015. Summary of EPA Outreach and Coordination with Indian Tribes for the Proposed Pretreatment Standards for UOG Extraction Wastewater	EPA-HQ-OW-2014-0598-0673
SGE00807	Anadarko Petroleum Corporation (APC). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0222
SGE00809	Augustine, Charles, Bob Broxson and Steven Peterson. 2006. Understanding Natural Gas Markets. American Petroleum Institute.	EPA-HQ-OW-2014-0598-0224
SGE00817	Chesapeake Energy Corporation (CHK). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0232
SGE00832	Devon Energy Corporation (DVN). 2013. Form 10-K For the Fiscal Year Ended December 31, 2012.	EPA-HQ-OW-2014-0598-0246
SGE00854	Grant, Kenneth; Ownby, David; Peterson, Steven R. 2006. Understanding Today's Crude Oil and Product Markets.	EPA-HQ-OW-2014-0598-0010
SGE00902	U.S. DOE. 2014. AEO2014 Early Release Overview. Figure 1. U.S. liquid fuels supply by source, 1970-2040 (million barrels per day).	EPA-HQ-OW-2014-0598-0277
SGE00906	U.S. DOE. 2014. Natural Gas Consumption by End Use (Million Cubic Feet). Accessed 1/14/14. http://www.eia.gov/dnav/ng/ng_cons_sum_dc_u_nus_a.htm	EPA-HQ-OW-2014-0598-0281
SGE00908	U.S. DOE. 2014. Natural Gas Gross Withdrawals and Production (Volumes in Million Cubic Feet). Accessed 1/23/14.	EPA-HQ-OW-2014-0598-0283
SGE00913	U.S. DOE. 2013a. EIA. Annual Energy Outlook 2013 with Projections to 2040. April 2013. www.eia.gov/forecasts/archive/aeo13/index.cfm . DCN SGE00913.	EPA-HQ-OW-2014-0598-0289
SGE00921	U.S. DOE. 2011. Nat'l Gas Explained: Factors Affecting Nat'l Gas Prices.	EPA-HQ-OW-2014-0598-0302

Table 4. Crosswalk for Documents Cited in the Federal Register Notice Supporting the Proposed Effluent Limitation Guidelines and Standards for the Oil and Gas Extraction Point Source Category

DCN	Citation	EPA Docket Number
	eia.gov/energyexplained/index.cfm?page=natural_gas_factors_affecting_prices .	
SGE00932	Abt. 2015. Profile of the Oil and Gas Extraction (OGE) Sector, with Focus on Unconventional Oil and Gas (UOG) Extraction. (February 18).	EPA-HQ-OW-2014-0598-0610
SGE00933	ERG. 2015. Radioactive Elements in the Unconventional Oil and Gas (UOG) Industry.	EPA-HQ-OW-2014-0598-0681
SGE00936	Understanding Radiation. Available online at: http://www.epa.gov/radiation/understanding-radiation-overview.html .	EPA-HQ-OW-2014-0598-0330
SGE00937	U.S. Environmental Protection Agency (U.S. EPA). 2011. Enhancing Radiological Laboratory Testing for Radionuclides in Drinking Water Training.	EPA-HQ-OW-2014-0598-0331
SGE00938	CSU. 2011. Irrigation Water Quality Criteria. http://www.ext.colostate.edu/pubs/crops/00506.html .	EPA-HQ-OW-2014-0598-0332
SGE00939	Bruvold, William H. et al. 1969. Journal (American Water Works Association)170-174	EPA-HQ-OW-2014-0598-0611
SGE00940	Derry, A.M.; Prepas, E.E.; Hebert, P.D.N. 2003. A Comparison of Zooplankton Communities in Saline Lakewater with Variable Anion Composition. <i>Hydrobiologia</i> 505.1-3 (2003): 199-215.	EPA-HQ-OW-2014-0598-0333
SGE00941	Hallock, R.J. 1993. Detailed study of irrigation drainage in and near wildlife management areas, west-central Nevada, 1987-90. Part B: Effect.	EPA-HQ-OW-2014-0598-0334
SGE00945	USEPA. 2014. State, Tribal & Territorial Standards Water Quality Standards Repository. http://water.epa.gov/scitech/swguidance/standards/wqslibrary/index.cfm	EPA-HQ-OW-2014-0598-0335
SGE00946	American Journal of Environmental Sciences 3.1 (2007): 1.	EPA-HQ-OW-2014-0598-0336
SGE00947	World Health Organization. 1996. Guidelines for Drinking-Water Quality, 2nd Edition. Volume 2 - Health criteria and Other Supporting Information. ISBN 9241544805.	EPA-HQ-OW-2014-0598-0348
SGE00967	USEPA. 2015. List of Meetings EPA Participated in w/ Stakeholders & Industry Groups During the Dev. of Proposed Pre-treatment Standards for UOG Extraction.	EPA-HQ-OW-2014-0598-0767
SGE00985	Parker, K., et al. 2014. Enhanced Formation of Disinfection Byproducts in Shale Gas Wastewater-Impacted Drinking Water Supplies.	EPA-HQ-OW-2014-0598-0727
SGE00989	Energy Information Administration (EIA). 2014. Annual Energy Outlook 2014 with Projections to 2040. DOE/EIA-0383(2014).	EPA-HQ-OW-2014-0598-0731
SGE01053	Raisbeck, M. F. 2013. Water Quality for Wyoming Livestock & Wildlife A Review of the Literature Pertaining to Health Effects of Inorganic Contaminants	EPA-HQ-OW-2014-0598-0471