

Appendix E

COAL MINING DETAILED STUDY STATUS MEMORANDUM



TO: Tom Born, Task Manager Coal Mining Detailed Study
Carey Johnston, Work Assignment Manager

FROM: Jessica Wolford, ERG
Ellie Ku Coddling, ERG

DATE: October 5, 2007

SUBJECT: Status of the Detailed Study of the Coal Mining Industry (40 CFR Part 434)

EPA is conducting a Detailed Study of the Coal Mining Industry (Part 434). Table 1 lists the documents prepared in support of EPA’s Preliminary 2008 Effluent Guidelines Program Plan and the associated description, and document control number (DCN). These documents are available from <http://www.regulations.gov>, Docket EPA-HQ-OW-2006-0771.

Table 1. Detailed Study of the Coal Mining Industry (Part 434) Documents

Document Title	Document Date	Document Description	DCN ^{ra}
Detailed Study Plan for the Coal Mining Point Source Category (Part 434)	April 2007	Describes the objectives of the detailed study, the potential study questions, intended information collection, and documentation.	04433
Draft Industry Profile for the Coal Mining Point Source Category (Part 434)	September 19, 2007	Provides brief description of the industry. Describes current coal mining regulations, available data sources, coal mining processes and production, and coal mine wastewater and treatment technologies.	04346
Preliminary Cost Estimates for Treating Acid Mine Drainage Memorandum	August 17, 2007	Summarizes the preliminary cost estimates for treating AMD with the following treatment systems: chemical precipitation using caustic soda; chemical precipitation using hydrated lime; limestone bed with clay liner; and limestone bed with synthetic liner. Attachments are the draft cost modules used to develop the preliminary cost estimates.	04429
Model Mine Approach for Estimating Treatment Costs and Pollutant Loads Memorandum	April 12, 2007	Describes the “model mine approach” EPA plans to use to evaluate the cost and performance of AMD treatment technologies in removing acidity, iron, and manganese.	04347

Table 1. Detailed Study of the Coal Mining Industry (Part 434) Documents

Document Title	Document Date	Document Description	DCN^a
Draft Summary of Environmental Issues Related to Manganese Discharges from Coal Mines (Response to Technical Directive: 4-05-01 (#1), Contract 68-C02-095) Memorandum	September 4, 2007	Summarizes findings related to the following questions: 1) how significant are current impacts of manganese; 2) how would impacts change if the manganese limit was less stringent; 3) to what extent does manganese control address other metals; and 4) how significant are the impacts from other metals and contaminants such as sulfates and chloride.	04434
Summary of Acid Mine Drainage (AMD) Characterization Data Available for the Coal Mining Detailed Study (Part 434) Memorandum	September 19, 2007	Describes the available data sources and how the data will be used to characterize pollutant loadings from AMD and estimate treatment system performance.	04438
Findings from West Virginia Permit Limit Database Memorandum	July 6, 2007	Summarizes how the West Virginia Department of Environmental Protection determines National Pollutant Discharge Elimination System permit limits for coal mines with AMD discharges.	04439
Quality Assurance Project Plan for the 2007 Coal Mining Detailed Study	April 2007	Describes how EPA will evaluate the quality of the data used in analyses and the minimum acceptance criteria.	04436
Scaling Up Findings for the Coal Mining Detailed Study to the National Level Memorandum	October 5, 2007	Describes how cost estimates for treating AMD and pollutant loadings can be scaled up.	04435

^aDocuments are published in the Docket EPA-HQ-OW-2006-0771. The documents can be found by searching for the DCN, which is part of the document's title.

Appendix F

HEALTH SERVICES DETAILED STUDY STATUS MEMORANDUM



TO: Jan Matuszko, Task Manager Health Services Detailed Study
 Carey Johnston, Work Assignment Manager

FROM: Meghan Camp, ERG

DATE: October 3, 2007

SUBJECT: Status of the Detailed Study of the Health Services Industry

The final 2006 Effluent Guidelines Program Plan identified the Health Services Industry for detailed study. The Health Services Industry includes establishments engaged in various aspects of human health (e.g. hospitals, dentists, medical/dental laboratories) and animal health (e.g. veterinarians). EPA selected the Health Services Industry for detailed study because comments received on its Preliminary 2004 and 2006 Effluent Guidelines Program Plans urged EPA to consider establishing guidelines and standards (ELGs) for this industry. In particular, commenters raised concerns about discharges of emerging pollutants of concern such as endocrine disruptors and mercury discharges from dentists.

Because of data and resource constraints, EPA has decided to limit the scope of this current study to an evaluation of control technologies and best management practices (BMPs) for mercury discharges from dentists and disposal to wastewater of spent pharmaceuticals. Table 1 lists the documents prepared in support of EPA’s Preliminary 2008 Effluent Guidelines Program Plan and the associated description, and document control number (DCN). These documents are available from <http://www.regulations.gov>, Docket EPA-HQ-OW-2006-0771.

Table 1. Detailed Study of the Health Services Industry Documents

Document Title	Document Date	Document Description	DCN ^a
Draft Detailed Study Plan for the Health Services Industry Sector	3/1/2007	Describes EPA's detailed study of the health services industry and includes the following: background information about the industry and its pollutants of concern; and the potential study scope, study questions, and data sources for the detailed study.	05067
Memorandum to Jan Matuszko, U.S. EPA.: “Industry Profile for Dental Laboratories and Dental Offices”	7/11/2007	Provides an economic profile for dental laboratories and dental offices.	04500

Table 1. Detailed Study of the Health Services Industry Documents

Document Title	Document Date	Document Description	DCN^a
Memorandum to Jan Matuszko, U.S. EPA: "Current Federal, State, Local and Industry Group Requirements and Guidance to Control Mercury Discharges from Dentists"	7/17/2007	Summarizes current federal, state, local, and industry group requirements and guidance to control mercury discharges from dental offices, practices, and clinics.	04668
Summary of: National Association of Clean Water Agencies (NACWA): Controlling Mercury in Wastewater Discharges from Dental Clinics: White Paper	8/13/2007	Summarizes NACWA's white paper and suggests additional references/research.	05027
Summary of: NACWA: Advanced Mercury Source Control Study: 2006 Annual Report Activity	8/13/2007	Summarizes the City of Palo Alto's annual report and suggests additional references/research.	05028
Summary of: Evaluation of Domestic Sources of Mercury - AMSA, August 2000	8/13/2007	Summarizes AMSA's 2000 evaluation report and suggests additional references/research.	05029
Summary of: Mercury Source Control and Pollution Prevention Program Evaluation, Final Report - AMSA, March 2002	8/13/2007	Summarizes AMSA's 2002 report and suggests additional references/research.	05030
Summary of: Potential Releases of Unused Medications in Subtitle D Landfill Leachate, Tischler, October 2006	8/13/2007	Summarizes Tischler's 2006 report and suggests additional references/research.	05031
Summary of: Effects of Human Pharmaceuticals on Aquatic Life: Next Steps	8/13/2007	Summarizes PhRMA's article and suggests additional references/research.	05032
Summary of: Human Pharmaceuticals in US Surface Waters: A Human Health Risk Assessment	8/13/2007	Summarizes Schwab's article and suggests additional references/research.	05054
Summary of: Screening Analysis of Human Pharmaceutical Compounds in U.S. Surface Waters	8/16/2007	Summarizes article from Anderson et al. and suggests additional references/research.	05056
Summary of: An Assessment of Mercury in the Form of Amalgam in Dental Wastewater in the United States, Vandeven and Steve McGinnis	8/13/2007	Summarizes Vandeven's assessment of mercury in the form of amalgam in dental wastewater and suggests additional references/research.	05055
Memorandum to Jan Matuszko, U.S. EPA.: "Dental Amalgam Separators: Summary of Removal Efficiencies, Current Use and Cost Effectiveness"	9/26/2007	Discusses the effectiveness of amalgam separators in removing dental mercury amalgam from dental office wastewater, costs of purchase, installation and maintenance of dental amalgam separators, and baseline information on the current use of amalgam separators and other filtration devices. Analyzes potential mercury reductions following the installation of amalgam separators in dental facilities, and potential costs.	04851

Table 1. Detailed Study of the Health Services Industry Documents

Document Title	Document Date	Document Description	DCN^a
Memorandum to Jan Matuszko, U.S. EPA.: "Dental Amalgam Best Management Practices: Summary of Effectiveness, Current Use and Cost"	9/26/2007	Summarizes information on dental office BMPs for dental amalgam and BMPs published by national, state and local industry groups and regulatory agencies.	04852
Memorandum to Jan Matuszko, U.S. EPA.: "Summary of Information on Current Discharges of Mercury in the Form of Dental Amalgam from Dental Offices to Publicly-Owned Treatment Works"	9/26/2007	Summarizes information on current discharges to POTWs from dentists, including measured, quantitative information on mercury reductions in POTW influent, and where available, effluent and sludge, resulting from various mercury control options implemented by dentists.	04853
Memorandum to Jan Matuszko, U.S. EPA.: "Veterinarians, Veterinary Associations, and Spent Pharmaceutical Disposal Practices"	8/15/2007	Summarizes available information related to veterinary associations, including contact information, and spent pharmaceutical disposal in veterinary practices.	04855
Memorandum to Jan Matuszko, U.S. EPA.: "Hospitals, Long-Term Care Facilities, Clinics and Veterinarians: Federal Agency Regulations, Guidelines and Requirements for Disposal of Spent Pharmaceuticals"	8/15/2007	Summarizes available information pertaining to current federal agency regulations, guidelines, and requirements for disposal of spent (unused) pharmaceuticals from hospitals, long-term care facilities (LTCFs), clinics, and veterinarians.	04856
Memorandum to Jan Matuszko, U.S. EPA.: "Industry Profile for Long Term Health Care Facilities, Hospitals, Clinics, and Veterinary Services"	8/20/2007	Provides an economic profile for long term care facilities, hospitals, clinics, and veterinary services.	04511
Memorandum to Jan Matuszko, U.S. EPA.: "Regulations for Disposal of Unused Pharmaceuticals from Long-Term Care Facilities"	9/25/2007	Summarizes available information pertaining to current federal and state regulations for disposal of unused pharmaceuticals from LTCFs.	04857
Overview of EPA's Detailed Study of the Health Services Industry	9/27/2007	Summarizes EPA's review of the Health Services Industry for the Preliminary 2008 Effluent Guidelines Program Plan	05080

^aDocuments are published in the Docket EPA-HQ-OW-2006-0771. The documents can be found by searching for the DCN, which is part of the document's title.