

US EPA ARCHIVE DOCUMENT



MWH.

BUILDING A BETTER WORLD

August 20, 2012

07BP

3.0

40397926



Superfund

0u00

Mr. Kurt F. Hildebrandt
Drinking Water and Groundwater Management Branch (WWPD/DWGM/UIC)
U.S. Environmental Protection Agency
901 North 5th Street
Kansas City, KS 66101

MWH #10500630.010101

RE: Underground Injection - Rule Authorization Request
Former Peoples Natural Gas Site
Dubuque, Iowa

Dear Mr. Hildebrandt:

MWH has been retained by MidAmerican Energy Company (MidAmerican) to provide environmental assistance at the former Peoples Natural Gas (PNG) site located at 925 Kerper Boulevard in Dubuque, Iowa. A new groundwater extraction system comprised of three extraction wells and conveyance piping is being designed to operate as part of remedial activities for the site. The groundwater extraction system is intended to minimize the potential for further migration of constituents of concern in the silty sand alluvial aquifer toward the Mississippi River. The United States Environmental Protection Agency, Region VII (USEPA) Superfund Division is providing regulatory oversight of the remedial activities at the site.

Based on the known groundwater quality, significant fouling of the remedial system is expected over time by iron content, hardness, and iron-related biofilms. To mitigate operational issues caused by poor water quality, the addition of deposit control agents into each groundwater extraction well is included in the remedial design. USEPA regulates underground injections in the state of Iowa through the Underground Injection Control (UIC) program and, based on our previous conversations, addition of the deposit control agents into an extraction well would be considered a Class V Injection Well and could be completed under a Rule Authorization.

Deposit Control Agent Information

The specified deposit control agents are Redux 300, an inorganic sequestering agent; and Redux 620, a biodispersant. Both deposit control agents are manufactured by Redux Technology of Newfane, Vermont. A Material Safety Data Sheets (MSDS) for each product is included in Attachment A.

Proposed Injection Locations, Volume, and Procedures

The site location and proposed extraction well locations are presented in Figures 1 and 2, respectively. The Redux 300 and Redux 620 deposit control agents will be added to each well through two separate chemical feed pumps dedicated to each well and controlled by the well

groundwater extraction pump. Therefore, chemical feed will cease any time the extraction pump is not operating (i.e., the deposit control agents should not migrate from the well into the aquifer). The remedial design calls for each of the three extraction wells to be operated at an extraction rate of 1 gpm. Redux 300 will be added through continuous feed to each well for a dosage of approximately 2.3 pounds (or 0.25 gallon) per day per well (based on a 1 gpm/well groundwater extraction rate). Redux 620 will be added through periodic (slug) feed to each well at a concentration of 400 parts per million for 60 minutes a day. At 1 gallon per minute flow per well, this equates to a dosage of 0.2 pound (or 0.02 gallon) per day per well.

Proposed Schedule and Future Reporting

Operation of the groundwater extraction system is proposed to begin in the fourth quarter of 2012 and will likely continue indefinitely. Sample collection and analysis of the combined well extracted groundwater prior to discharge to the sanitary sewer is anticipated to be conducted monthly for the first year of operation and quarterly during subsequent years of operation. Annual reports will be prepared and submitted to the USEPA Superfund Division. Copies of all USEPA-required reports and notifications will be provided to UIC at the time of submittal to the Superfund Division.

Shallow Injection Well Registration/Information Verification Record

The completed Shallow Injection Well Registration/Information Verification Record for the site is provided in Attachment B. A single Registration/Information Verification Record is provided because all three extraction well and chemical feed systems are to be completed based on the same design.

MWH requests a Rule Authorization letter be issued following UIC review of this submittal. Your assistance in allowing this project to proceed on the proposed schedule is greatly appreciated. If you have any questions or require additional information, feel free to contact me at 515-253-0830.

Sincerely,



Kevin G. Armstrong, C.P.G.
Project Manager

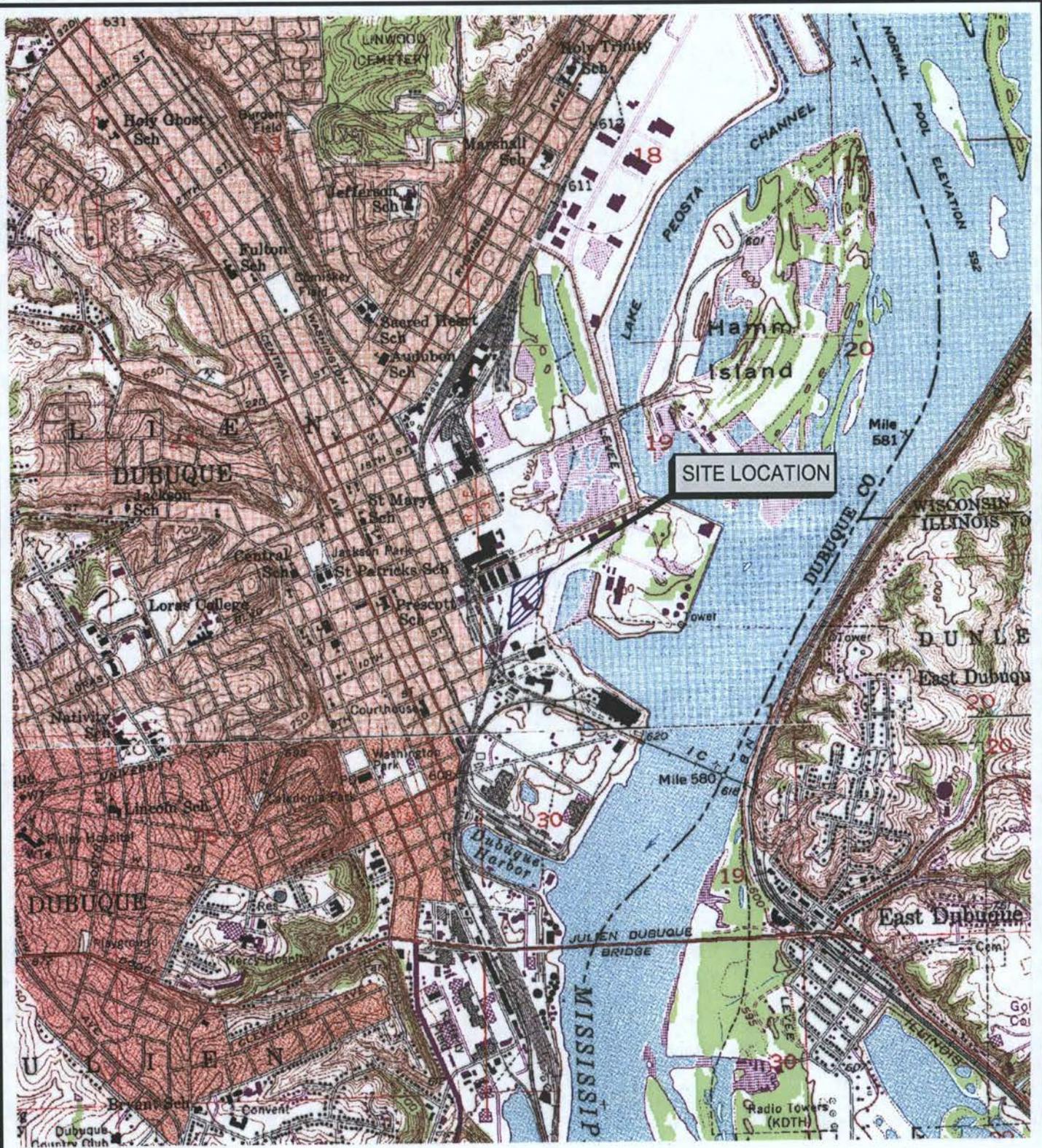
/khw:vas

Attachments

cc: Jennifer McIvor, MidAmerican
Diana Engeman, USEPA

Plot Date: 8/6/12

P:\GAD\MIDAMERICAN\ DUBUQUE - PNG\SLM

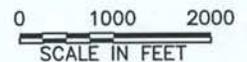


MAP SOURCE:
 U.S.G.S. 7.5 MINUTE TOPOGRAPHIC QUADRANGLES
 DUBUQUE NORTH, IOWA-WISCONSIN-ILLINOIS (1956, PHOTOREVISED 1972)
 DUBUQUE SOUTH, IOWA-ILLINOIS (1955, PHOTOREVISED 1972)

SITE LOCATION:
 TOWNSHIP 89N, RANGE 3E, SECTION 19,
 DUBUQUE COUNTY, IOWA



QUADRANGLE LOCATION



SCALE IN FEET



DES MOINES
 IOWA

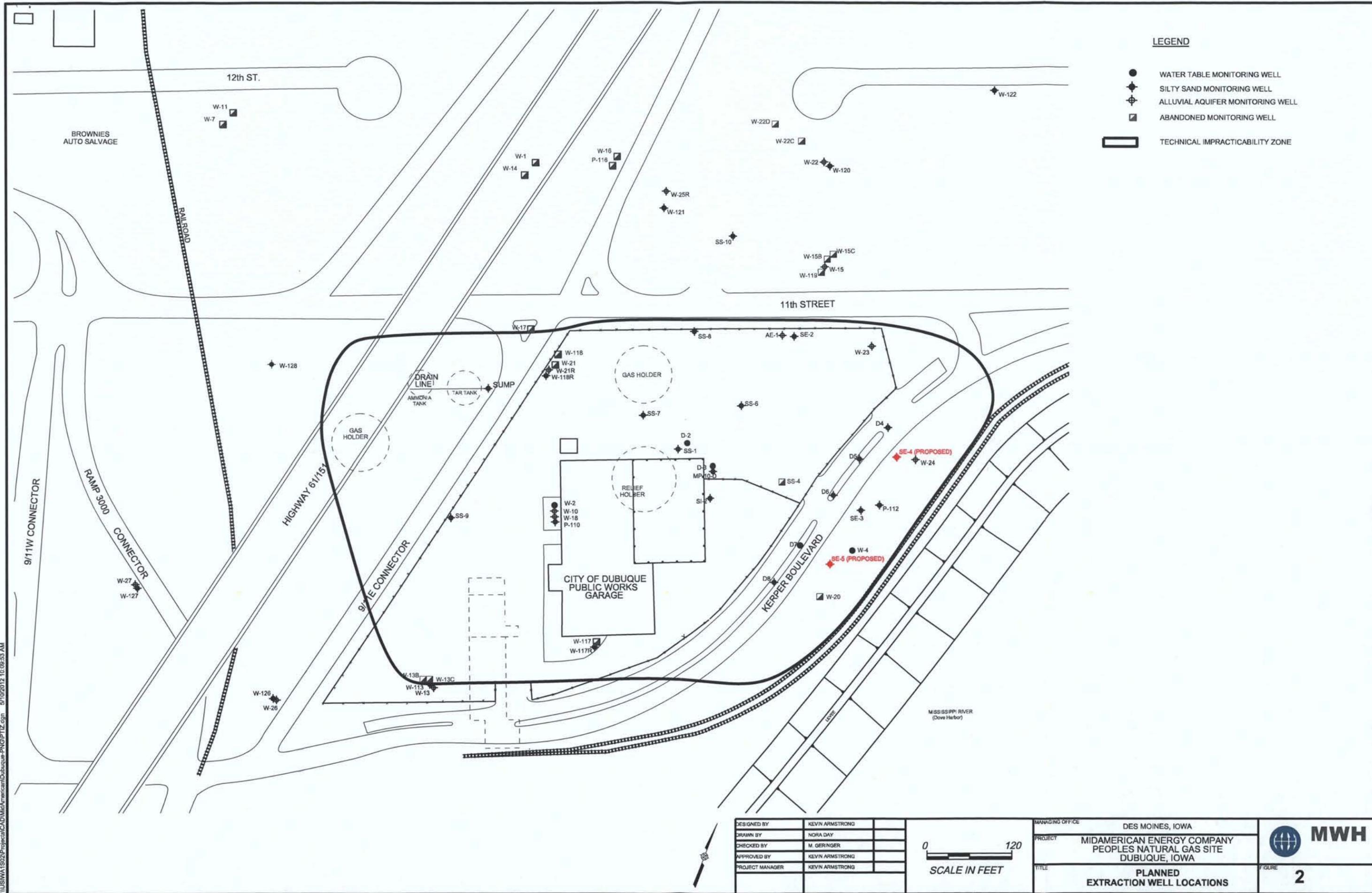
MIDAMERICAN ENERGY COMPANY
 PEOPLES NATURAL GAS SITE
 DUBUQUE, IOWA

SITE LOCATION MAP

FIGURE

1

I:\USWA\1502\Projects\CAD\MidAmerican\Dubuque-PNG\PTZ.dgn 6/10/2012 10:09:53 AM



LEGEND

- WATER TABLE MONITORING WELL
- ◆ SILTY SAND MONITORING WELL
- ⊕ ALLUVIAL AQUIFER MONITORING WELL
- ABANDONED MONITORING WELL
- ▭ TECHNICAL IMPRACTICABILITY ZONE

DESIGNED BY	KEVIN ARMSTRONG
DRAWN BY	NORA DAY
CHECKED BY	M. GERINGER
APPROVED BY	KEVIN ARMSTRONG
PROJECT MANAGER	KEVIN ARMSTRONG



MANAGING OFFICE	DES MOINES, IOWA
PROJECT	MIDAMERICAN ENERGY COMPANY PEOPLES NATURAL GAS SITE DUBUQUE, IOWA
TITLE	PLANNED EXTRACTION WELL LOCATIONS

MWH

FIGURE **2**

ATTACHMENT A



Division of Azure Water Services, LLC

Material Safety Data Sheet

Product Name: Redux 300
MSDS #: 15

Effective date: 12/15/2009
Page 1 of 6

SECTION 1 -- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

IDENTIFICATION

Product Name Redux 300
Chemical Name Aqueous Blended Deposit-Control Agent
Chemical Family
Formula
Synonym

COMPANY IDENTIFICATION

Redux Technology
Division of Azure Water Services, LLC
550 VT Rte. 30, P.O. Box 331
Newfane, VT 05345
Phone: 800-639-9506
Fax: 802-365-4652
Email: info@reduxtech.com

EMERGENCY TELEPHONE NUMBER

24 hours a day: CHEMTREC 1-800-424-9300.
Number for non-emergency questions concerning MSDS: (802) 365-7200

SECTION 2 -- COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS #</u>	<u>Amount (%W/W)</u>
Water	7732-18-5	~71%
Acrylate Copolymer	Not Hazardous	~4%
Organic Phosphorous Compound	Proprietary	~16%
Potassium Hydroxide	1310-58-3	~9%

Material Safety Data Sheet

Product Name: Redux 300
MSDS #: 15

Effective date: 12/15/2009
Page 2 of 6

SECTION 3 -- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW	Eye and skin irritant. Prolonged or repeated skin may cause irritation.
--------------------	---

POTENTIAL HEALTH EFFECTS	
INGESTION.....	May cause severe and permanent damages to mouth throat and stomach. May be fatal if swallowed.
INHALATION.....	Damages airways and lungs, depending upon amount and duration of exposure. Effects can vary from irritation to bronchitis or pneumonia.
EYE CONTACT.....	May cause permanent damage, including blindness.
SKIN CONTACT.....	Harmful contact, but may not cause immediate pain.

SECTION 4 -- FIRST AID MEASURES

INGESTION	If swallowed, DO NOT induce vomiting. Immediately drink a large quantity of water. If available, give large quantities of milk. Never give anything by mouth to an unconscious person. Get medical attention immediately. If vomiting occurs spontaneously, keep airway clear.
INHALATION	Get person out of contaminated area to fresh air. If breathing has stopped, resuscitate and administer oxygen if readily available. Get medical attention immediately.
EYE CONTACT	Immediately flush eye with plenty of cool, running water. Remove contact lenses if applicable and continue flushing for at least 15 minutes, holding eyelids apart to ensure thorough rinsing of the entire eye. Get medical attention immediately.
SKIN CONTACT	Immediately flush skin with plenty of cool running water for at least 15 minutes. Wash with soap and water. If irritation develops or persists, get medical attention. Remove contaminated clothing and shoes; wash before reuse.
NOTE TO PHYSICIAN	Information pertaining to ingestion toxicology, therapy, symptomatology and treatment can be found in <u>Clinical Toxicology of Commercial Products</u> , authored by Gosselin, Smith and Hodge and published by Williams & Wilkins, Baltimore, Maryland.

Material Safety Data Sheet

Product Name: Redux 300
MSDS #: 15

Effective date: 12/15/2009
Page 3 of 6

SECTION 5 -- FIRE FIGHTING MEASURES

FLASH POINT / METHOD	None / N.A.	FLAMMABLE LIMITS	Not flammable or combustible
EXTINGUISHING MEDIA	Use extinguishing media appropriate for surrounding fire.		
SPECIAL FIRE FIGHTING PROCEDURES	Pressure demand self-contained respiratory protection and protective clothing should be worn by fire fighters.		
FIRE AND EXPLOSION HAZARDS	Not a fire or explosion hazard		

SECTION 6 -- ACCIDENTAL RELEASE MEASURES

RESPONSE TO SPILLS	Absorb with inert material such as vermiculite, shovel into closeable container for disposal. Thoroughly flush residual with water.
--------------------	---

SECTION 7 -- HANDLING AND STORAGE

HANDLING PRECAUTIONS	Wear proper safety equipment. Mix only with water. Follow appropriate tank entry procedures (ANSI Z117) and OSHA Confined Space Regulations.
STORAGE PRECAUTIONS	Store in a cool, dry and well-ventilated place. Keep from freezing. Keep container tightly closed when not in use.

SECTION 8 -- EXPOSURE CONTROLS / PERSONAL PROTECTION

HYGIENIC PRACTICES	Observe label precautions; use personal protective equipment. Avoid breathing mists or vapors of this product.
ENGINEERING CONTROLS	Facilities using this product must be equipped with an eyewash station. Local Exhaust: None

Material Safety Data Sheet

Product Name: Redux 300
MSDS #: 15

Effective date: 12/15/2009
Page 4 of 6

PERSONAL PROTECTIVE EQUIPMENT

X	RESPIRATOR	NIOSH/MSHA approved respirator where mists or sprays may be generated.
X	GOGGLES / FACE SHIELD	Chemical splash goggles required; also use face shield if exposure is severe
X	APRON	Required; PVC, Neoprene or Vinyl acceptable
X	GLOVES	Required; use PVC, Neoprene or Nitrile with long gauntlet or protective cuff
X	BOOTS	Rubber

SECTION 9 -- PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Clear pale yellow liquid	BOILING POINT	> 212° F
ODOR	Slight Odor	FREEZING POINT	< 32° F
pH	Approx. 3-4	VAPOR PRESSURE	Similar to water
SPECIFIC GRAVITY	1.1	VAPOR DENSITY	Similar to water
SOLUBILITY IN WATER	Complete	EVAPORATION RATE	Similar to water

SECTION 10 -- STABILITY AND REACTIVITY

CHEMICAL STABILITY		STABLE	X		UNSTABLE	
CONDITIONS TO AVOID	Do not mix with anything but water.					
INCOMPATIBILITY	Do not mix with quaternary amines, acids, sulfides and strong oxidizers.					
HAZARDOUS PRODUCTS OF DECOMPOSITION	Carbon dioxide and carbon monoxide.					
POLYMERIZATION		WILL NOT OCCUR	X		MAY OCCUR	
CONDITIONS TO AVOID	Not applicable					

US EPA ARCHIVE DOCUMENT

Material Safety Data Sheet

Product Name: Redux 300
MSDS #: 15

Effective date: 12/15/2009
Page 5 of 6

SECTION 11 -- TOXICOLOGICAL INFORMATION

Oral: Rat LD50 = ~9,000 mg/kg
 Dermal: Rabbit LD50 = >29,000 mg/kg
 Eye Irritation: Corrosive
 Skin irritation: Mild Irritant

CARCINOGENICITY

	THIS PRODUCT CONTAINS A KNOWN OR SUSPECTED CARCINOGEN
X	THIS PRODUCT DOES NOT CONTAIN ANY KNOWN OR ANTICIPATED CARCINOGENS ACCORDING TO THE CRITERIA OF THE NTP ANNUAL REPORT ON CARCINOGENS AND OSHA 29 CFR 1910, Z

OTHER EFFECTS

ACUTE	May be corrosive to all body tissues which it comes in contact.
CHRONIC	The chronic local effect may consist of multiple areas of superficial destruction of the skin or of primary irritant dermatitis. Similarly, inhalation of dust, spray, or mist may result in varying degrees of irritation or damage to the respiratory tract tissues and an increased susceptibility to respiratory illness.

SECTION 12 -- ECOLOGICAL INFORMATION

BIODEGRADABILITY	<input type="checkbox"/>	CONSIDERED BIODEGRADABLE	X	<input type="checkbox"/>	NOT BIODEGRADABLE
BOD / COD VALUE	Not established				
ECOTOXICITY	Ceriodaphnia: 48 hr LD50 = 2000 mg/l NOAEL = 1000 mg/l Fathead Minnow: 96 hr LD50 = 2000 mg/l NOAEL = 1000 mg/l				

US EPA ARCHIVE DOCUMENT

Material Safety Data Sheet

Product Name: Redux 300
MSDS #: 15

Effective date: 12/15/2009
Page 6 of 6

SECTION 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD	Product that cannot be used according to the label must be disposed of per manufacturers recommendations. Empty containers may be triple rinsed, then offered for recycling or reconditioning; or puncture and dispose of in a sanitary landfill.								
RCRA CLASSIFICATION									
RECYCLE CONTAINER		YES	X		CODE	2 - HDPE		NO	

SECTION 14 -- TRANSPORT INFORMATION

DOT CLASSIFICATION		HAZARDOUS			NOT HAZARDOUS	X
DESCRIPTION	Not Hazardous under 29CFR 1910-1200					

SECTION 15 -- REGULATORY INFORMATION

REGULATORY STATUS

EPA REGISTERED (UNDER FIFRA)	
FDA REGULATED	
KOSHER	
SARA TITLE III MATERIAL	
USDA AUTHORIZED	
NSF APPROVAL	

SECTION 16 -- OTHER INFORMATION

NFPA CLASSIFICATION

1	BLUE	HEALTH HAZARD
0	RED	FLAMMABILITY
1	YELLOW	REACTIVITY
C	WHITE	SPECIAL HAZARD

US EPA ARCHIVE DOCUMENT



Division of Azure Water Services, LLC

Material Safety Data Sheet

Product Name: Redux 620
MSDS #: 56

Effective date: 2/27/2012
Page 1 of 6

SECTION 1 -- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

IDENTIFICATION

Product Name Redux 620
Chemical Name Aqueous Blended Deposit Control Agent
Chemical Family
Formula
Synonym

COMPANY IDENTIFICATION

Redux Technology
Division of Azure Water Services, LLC
280 Callegari Drive
West Haven, CT 06516
Phone: 203-933-9071
Fax: 203-933-1751
Email: info@reduxtech.com

EMERGENCY TELEPHONE NUMBER

24 hours a day: CHEMTREC 1-800-424-9300.
Number for non-emergency questions concerning MSDS: 203-933-9071

SECTION 2 -- COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS #	Amount (%W/W)
Water	7732-18-5	~73%
Acrylate Copolymer	Not Hazardous	~3%
Organic Phosphorous Compound	Proprietary	~3%
Sulfonated Phosphonium Salt	Proprietary	~20%
Caustic Soda	1310-73-2	~1%

US EPA ARCHIVE DOCUMENT

Material Safety Data Sheet

Product Name: Redux 620
MSDS #: 56

Effective date: 2/27/2012
Page 2 of 6

SECTION 3 -- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW	Eye and skin irritant. Prolonged or repeated skin may cause irritation.
--------------------	---

POTENTIAL HEALTH EFFECTS	
INGESTION.....	May cause severe and permanent damages to mouth throat and stomach. May be fatal if swallowed.
INHALATION.....	Damages airways and lungs, depending upon amount and duration of exposure. Effects can vary from irritation to bronchitis or pneumonia.
EYE CONTACT.....	May cause permanent damage, including blindness.
SKIN CONTACT.....	Harmful contact, but may not cause immediate pain.

SECTION 4 -- FIRST AID MEASURES

INGESTION	If swallowed, DO NOT induce vomiting. Immediately drink a large quantity of water. If available, give large quantities of milk. Never give anything by mouth to an unconscious person. Get medical attention immediately. If vomiting occurs spontaneously, keep airway clear.
INHALATION	Get person out of contaminated area to fresh air. If breathing has stopped, resuscitate and administer oxygen if readily available. Get medical attention immediately.
EYE CONTACT	Immediately flush eye with plenty of cool, running water. Remove contact lenses if applicable and continue flushing for at least 15 minutes, holding eyelids apart to ensure thorough rinsing of the entire eye. Get medical attention immediately.
SKIN CONTACT	Immediately flush skin with plenty of cool running water for at least 15 minutes. Wash with soap and water. If irritation develops or persists, get medical attention. Remove contaminated clothing and shoes; wash before reuse.
NOTE TO PHYSICIAN	Information pertaining to ingestion toxicology, therapy, symptomatology and treatment can be found in <u>Clinical Toxicology of Commercial Products</u> , authored by Gosselin, Smith and Hodge and published by Williams & Wilkins, Baltimore, Maryland.

US EPA ARCHIVE DOCUMENT

Material Safety Data Sheet

Product Name: Redux 620
MSDS #: 56

Effective date: 2/27/2012
Page 3 of 6

SECTION 5 -- FIRE FIGHTING MEASURES

FLASH POINT / METHOD	None / N.A.	FLAMMABLE LIMITS	Not flammable or combustible
EXTINGUISHING MEDIA	Use extinguishing media appropriate for surrounding fire.		
SPECIAL FIRE FIGHTING PROCEDURES	Pressure demand self-contained respiratory protection and protective clothing should be worn by fire fighters.		
FIRE AND EXPLOSION HAZARDS	Not a fire or explosion hazard		

SECTION 6 -- ACCIDENTAL RELEASE MEASURES

RESPONSE TO SPILLS	Absorb with inert material such as vermiculite, shovel into closeable container for disposal. Thoroughly flush residual with water.
--------------------	---

SECTION 7 -- HANDLING AND STORAGE

HANDLING PRECAUTIONS	Wear proper safety equipment. Mix only with water. Follow appropriate tank entry procedures (ANSI Z117) and OSHA Confined Space Regulations.
STORAGE PRECAUTIONS	Store in a cool, dry and well-ventilated place. Keep from freezing. Keep container tightly closed when not in use.

SECTION 8 -- EXPOSURE CONTROLS / PERSONAL PROTECTION

HYGIENIC PRACTICES	Observe label precautions; use personal protective equipment. Avoid breathing mists or vapors of this product.
ENGINEERING CONTROLS	Facilities using this product must be equipped with an eyewash station. Local Exhaust: None

Material Safety Data Sheet

Product Name: Redux 620
MSDS #: 56

Effective date: 2/27/2012
Page 4 of 6

PERSONAL PROTECTIVE EQUIPMENT

X	RESPIRATOR	NIOSH/MSHA approved respirator where mists or sprays may be generated.
X	GOGGLES / FACE SHIELD	Chemical splash goggles required; also use face shield if exposure is severe
X	APRON	Required; PVC, Neoprene or Vinyl acceptable
X	GLOVES	Required; use PVC, Neoprene or Nitrile with long gauntlet or protective cuff
X	BOOTS	Rubber

SECTION 9 -- PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Clear pale yellow liquid	BOILING POINT	> 212° F
ODOR	Slight Odor	FREEZING POINT	< 32° F
pH	Approx. 4.3	VAPOR PRESSURE	Similar to water
SPECIFIC GRAVITY	1.13	VAPOR DENSITY	Similar to water
SOLUBILITY IN WATER	Complete	EVAPORATION RATE	Similar to water

SECTION 10 -- STABILITY AND REACTIVITY

CHEMICAL STABILITY		STABLE	X		UNSTABLE	
CONDITIONS TO AVOID	Do not mix with anything but water.					
INCOMPATIBILITY	Do not mix with quaternary amines, acids, sulfides and strong oxidizers.					
HAZARDOUS PRODUCTS OF DECOMPOSITION	Carbon dioxide and carbon monoxide.					
POLYMERIZATION		WILL NOT OCCUR	X		MAY OCCUR	
CONDITIONS TO AVOID	Not applicable					

US EPA ARCHIVE DOCUMENT

Material Safety Data Sheet

Product Name: Redux 620
MSDS #: 56

Effective date: 2/27/2012
Page 5 of 6

SECTION 11 -- TOXICOLOGICAL INFORMATION

Oral: Rat LD50 = 2,150 mg/kg
Dermal: Rat LD50 = 7,500 mg/kg
Eye Irritation: Corrosive
Skin irritation: Mild Irritant

CARCINOGENICITY

	THIS PRODUCT CONTAINS A KNOWN OR SUSPECTED CARCINOGEN
X	THIS PRODUCT DOES NOT CONTAIN ANY KNOWN OR ANTICIPATED CARCINOGENS ACCORDING TO THE CRITERIA OF THE NTP ANNUAL REPORT ON CARCINOGENS AND OSHA 29 CFR 1910, Z

OTHER EFFECTS

ACUTE	May be corrosive to all body tissues which it comes in contact.
CHRONIC	The chronic local effect may consist of multiple areas of superficial destruction of the skin or of primary irritant dermatitis. Similarly, inhalation of dust, spray, or mist may result in varying degrees of irritation or damage to the respiratory tract tissues and an increased susceptibility to respiratory illness.

SECTION 12 -- ECOLOGICAL INFORMATION

BIODEGRADABILITY	<input type="checkbox"/>	CONSIDERED BIODEGRADABLE	X	<input type="checkbox"/>	NOT BIODEGRADABLE
BOD / COD VALUE	Not established				
ECOTOXICITY	Rainbow trout: 96 hr LD50 = 450 mg/l Bluegill sunfish: 96 hr LD50 = 350 mg/l				

US EPA ARCHIVE DOCUMENT

Material Safety Data Sheet

Product Name: Redux 620
MSDS #: 56

Effective date: 2/27/2012
Page 6 of 6

SECTION 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD	Product that cannot be used according to the label must be disposed of per manufacturers recommendations. Empty containers may be triple rinsed, then offered for recycling or reconditioning; or puncture and dispose of in a sanitary landfill.						
RCRA CLASSIFICATION	Non-Hazardous						
RECYCLE CONTAINER	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/>	CODE	2 - HDPE <input type="checkbox"/>	NO	<input type="checkbox"/>

SECTION 14 -- TRANSPORT INFORMATION

DOT CLASSIFICATION	<input type="checkbox"/>	HAZARDOUS	<input type="checkbox"/>	<input type="checkbox"/>	NOT HAZARDOUS	<input checked="" type="checkbox"/>
DESCRIPTION						

SECTION 15 -- REGULATORY INFORMATION

REGULATORY STATUS

<input type="checkbox"/>	EPA REGISTERED (UNDER FIFRA)	
<input type="checkbox"/>	FDA REGULATED	
<input type="checkbox"/>	KOSHER	
<input type="checkbox"/>	SARA TITLE III MATERIAL	
<input type="checkbox"/>	USDA AUTHORIZED	
<input type="checkbox"/>	NSF APPROVAL	

SECTION 16 -- OTHER INFORMATION

NFPA CLASSIFICATION

2	BLUE	HEALTH HAZARD
0	RED	FLAMMABILITY
1	YELLOW	REACTIVITY
C	WHITE	SPECIAL HAZARD

US EPA ARCHIVE DOCUMENT

ATTACHMENT B

EPA-REGION 7 SHALLOW INJECTION WELL
REGISTRATION/INFORMATION VERIFICATION RECORD

FACILITY INFORMATION (Complete a separate form for each Facility that has an Injection Well)

Facility Name: Former Peoples Natural Gas Site
Facility Contact: Not Applicable Title: Not Applicable
Address: 925 Kerper Boulevard
City: Dubuque State: Iowa Zip: 52001
County: Dubuque Phone: Not Applicable
Number of Employee's (full and part time): _____
EPA Identification Number(s): IAD980852578
IDNR Identification Number(s): Not Applicable

FACILITY OWNER INFORMATION (If different than Facility Information)

Name: MidAmerican Energy Company
Address: 4299 Northwest Urbandale Drive
City: Urbandale State: Iowa Zip: 50322
Phone: (712) 352-5434

INJECTION WELL INFORMATION (Complete this section for each Injection Well at Facility)

Well Type: CESSPOOL DRAINAGE WELL DRY WELL HEAT PUMP RETURN FLOW WELL
SEPTIC SYSTEM (tank size in gallons: _____)
OTHER (please describe: Groundwater Extraction Wells)
Well Status: PROPOSED ACTIVE ABANDONED PLUGGED
Approximate Date Installed: Fall 2012 If Plugged or Abandoned, When? _____
Well Location: Township: 89N Range: 3E Section: 19 1/4 Section: SW
Latitude: _____ Longitude: _____
Depth of Well (In Feet): 40 Injection Formation: Silty Sand Alluvial Aquifer
Nature of Injected Fluid(s): Redux 300 (inorganic sequestering agent) and Redux 620 (biodispersant)

Has any chemical analysis been done on the injectate? YES NO (if yes please attach copies of the results)

FACILITY WATER SUPPLY

Municipal / Public / Rural: YES NO Private: YES NO (if yes, answer the following questions)
Is the water supply well at the facility used for human consumption: YES NO
Is the well protected with a backflow prevention device: YES NO

Signature: Jennifer Mafe Date: 8/8/12
Owner Operator

US EPA ARCHIVE DOCUMENT