



Midwest Contract Operations, Inc.

P.O. BOX 418 MENASHA, WI 54952-0418
TEL: (920) 751-4299 FAX: (920) 751-4284
e-mail: mcm@mcmgrp.com

Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJP

Date 9/13/06

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	CLEAN

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	CLEAN

Storage Tank

Water color/clarity	CLEAN
Hexachrome concentration (mg/l) PH. 8.0	1.3
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	29"~
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	174
Caustic drum weight (lbs)	427
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments

End Weekly Logs

Start Operator Logs



Midwest Contract Operations, Inc.

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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator DDA

Date 4/6/06

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	CLEAR

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	CLEAR

Storage Tank

Water color/clarity	CLEAR
Hexachrome concentration (mg/l)	1.0
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	2 FT
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	226
Caustic drum weight (lbs)	485
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJP

Date 3/30/06

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	CLEAR

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	CLEAR

Storage Tank

Water color/clarity	CLEAR
Hexachrome concentration (mg/l)	1.2
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	29"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	271
Caustic drum weight (lbs)	538
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments

CHECK MANHOLE PUMP #1 AND #2
FOR PROPER OPERATION



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJP

Date 3/23/06

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	Clean

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	Clean

Storage Tank

Water color/clarity	Clean
Hexachrome concentration (mg/l) <u>PH 8.1</u>	1, 2
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	29" ~
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	315
Caustic drum weight (lbs)	586
Clean pH probes	OK
Calibrate pH probes	OK
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments

CHECK FERROUS AND CAUSTIC PUMPS
FOR PROPER OPERATION



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJP

Date 3/16/06

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	CLEAR

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	CLEAR

Storage Tank

Water color/clarity	CLEAR
Hexachrome concentration (mg/l) PH 7.9	1.7
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	29"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	382
Caustic drum weight (lbs)	696
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments

CHECK STORAGE TANK AND REACTION TANK
MIXERS FOR PROPER OPERATION



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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator JJP

Date 3/9/06

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	Clean

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	Clean

Storage Tank

Water color/clarity	Clean
Hexachrome concentration (mg/l) PH 8.0	1.3
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	24" ~
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	505
Caustic drum weight (lbs)	731
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments

RAIN OVERCAST



Midwest Contract Operations, Inc.

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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator JJP

Date 3/2/06

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	Clean

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	Clean

Storage Tank

Water color/clarity	Clean
Hexachrome concentration (mg/l)	1.0
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	2 FT
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	-
Caustic drum weight (lbs)	370
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments

SNOW/RAIN OVERNIGHT



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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator JJP

Date 2/23/06

Manhole Sump #1

Water depth (ft)	<u>30 FT</u>
Water color/clarity	<u>CLEAR</u>

Manhole Sump #2

Water depth (ft)	<u>26 FT</u>
Water color/clarity	<u>CLEAR</u>

Storage Tank

Water color/clarity	<u>CLEAR</u>
Hexachrome concentration (mg/l)	<u>PH 8.2 1.0</u>
Mixer appearance/condition	<u>OK</u>
Ultrasonic level meter appearance/condition	<u>OK</u>

Reaction Feed Pump

Pump operating air pressure	<u>90 PSI</u>
Pump appearance/condition	<u>OK</u>

Reaction Tank

Depth of sludge (ft)	<u>24"</u>
Diffuser appearance/condition	<u>OK</u>
Mixer appearance/condition	<u>OK</u>
Ultrasonic level meter appearance/condition	<u>OK</u>

Chemical Feed System

Condition/color of ferrous sulfate solution	<u>OK</u>
Chemical feed pumps condition/performance	<u>OK</u>
Ferrous sulfate drum weight (lbs)	<u>45</u>
Caustic drum weight (lbs)	<u>399</u>
Clean pH probes	<u>-</u>
Calibrate pH probes	<u>-</u>
pH probe (upper) AIT-7-1 slope	<u>51.0</u>
pH probe (lower) AIT-7-2 slope	<u>56.3</u>

Sludge Transfer Pump

Pump operating air pressure	<u>NA</u>
Pump appearance/condition	<u>OK</u>

Sludge Tank

Depth of sludge (ft)	<u>NA</u>
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	<u>NA</u>
Pump appearance/condition	<u>OK</u>

Building and Grounds

Building and grounds appearance/condition	<u>OK</u>
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Comments

 FERROUS ALMOST GONE



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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator DDP

Date 2/16/06

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	Clean

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	Clean

Storage Tank

Water color/clarity	Clean
Hexachrome concentration (mg/l)	1.5
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	24" ~
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Comments

HEAVY SNOW STANDING THIS AM

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	79
Caustic drum weight (lbs)	438
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator DDP

Date 2/9/06

Manhole Sump #1

Water depth (ft)	3 FT
Water color/clarity	Clean

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	Clean

Storage Tank

Water color/clarity	Clean
Hexachrome concentration (mg/l) PH 7.9	1.5
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	28" L
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	120
Caustic drum weight (lbs)	976
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments



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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator DDP

Date 2/2/05

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	CLEAR

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	CLEAR

Storage Tank

Water color/clarity	CLEAR
Hexachrome concentration (mg/l)	1.7
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	24"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	215
Caustic drum weight (lbs)	552
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments

MILD JANUARY - SOME RAIN



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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator DDP

Date 1/26/06

Manhole Sump #1

Water depth (ft)	30ft
Water color/clarity	Clean

Manhole Sump #2

Water depth (ft)	26ft
Water color/clarity	Clean

Storage Tank

Water color/clarity	Clean
Hexachrome concentration (mg/l)	1.7
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	29"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	291
Caustic drum weight (lbs)	610
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJP

Date 1/19/06

Manhole Sump #1

Water depth (ft)	30FT
Water color/clarity	CLEAN

Manhole Sump #2

Water depth (ft)	26FT
Water color/clarity	CLEAN

Storage Tank

Water color/clarity	CLEAN
Hexachrome concentration (mg/l) PH 7.9	1.7
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	29' ~
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	335
Caustic drum weight (lbs)	652
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJA

Date 11/12/06

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	CLEAN

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	CLEAN

Storage Tank

Water color/clarity	CLEAN
Hexachrome concentration (mg/l)	1.3
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	29" ~
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	363
Caustic drum weight (lbs)	677
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments

CHECK ALL HEATERS FOR PROPER OPERATION



Midwest Contract Operations, Inc.

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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJP

Date 11/5/06

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	CLEAN

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	CLEAN

Storage Tank

Water color/clarity	CLEAN
Hexachrome concentration (mg/l)	PH 9.2 1.3
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	46 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	29" ~
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	451
Caustic drum weight (lbs)	204
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator DDA

Date 12/29/05

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	CLEAN

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	CLEAN

Storage Tank

Water color/clarity	CLEAN
Hexachrome concentration (mg/l)	1.2
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	24"m
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	496
Caustic drum weight (lbs)	237
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments



Midwest Contract Operations, Inc.

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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJA

Date 12/22/05

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	CLEAR

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	CLEAR

Storage Tank

Water color/clarity	CLEAR
Hexachrome concentration (mg/l)	1.2
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	24"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	537
Caustic drum weight (lbs)	270
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments



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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator DDP

Date 12/15/05

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	Clean

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	Clean

Storage Tank

Water color/clarity	Clean
Hexachrome concentration (mg/l) PH 8.0	1.2
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	—
Caustic drum weight (lbs)	257
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Reaction Feed Pump

Pump operating air pressure	90PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	29" ~
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Comments

Heavy Snow Wed



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator DDP

Date 12/8/05

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	CLEAN

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	CLEAN

Storage Tank

Water color/clarity	CLEAN
Hexachrome concentration (mg/l)	1.2
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	29"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	59
Caustic drum weight (lbs)	315
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments

ferrous running 40 PSI



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator DDP

Date 12/1/05

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	CLEAR

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	CLEAR

Storage Tank

Water color/clarity	CLEAR
Hexachrome concentration (mg/l) PH 8.2	1.2
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	29"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	124
Caustic drum weight (lbs)	366
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments

Light Snow



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJP

Date 11/17/05

Manhole Sump #1

Water depth (ft)	<u>30 FT</u>
Water color/clarity	<u>CLEAR</u>

Manhole Sump #2

Water depth (ft)	<u>26 FT</u>
Water color/clarity	<u>CLEAR</u>

Storage Tank

Water color/clarity	<u>CLEAR</u>
Hexachrome concentration (mg/l) <u>PH 8.3</u>	<u>2.5</u>
Mixer appearance/condition	<u>OK</u>
Ultrasonic level meter appearance/condition	<u>OK</u>

Reaction Feed Pump

Pump operating air pressure	<u>90 PSI</u>
Pump appearance/condition	<u>OK</u>

Reaction Tank

Depth of sludge (ft)	<u>29" ~</u>
Diffuser appearance/condition	<u>OK</u>
Mixer appearance/condition	<u>OK</u>
Ultrasonic level meter appearance/condition	<u>OK</u>

Chemical Feed System

Condition/color of ferrous sulfate solution	<u>OK</u>
Chemical feed pumps condition/performance	<u>OK</u>
Ferrous sulfate drum weight (lbs)	<u>299</u>
Caustic drum weight (lbs)	<u>46 #</u>
Clean pH probes	<u>—</u>
Calibrate pH probes	<u>—</u>
pH probe (upper) AIT-7-1 slope	<u>51.0</u>
pH probe (lower) AIT-7-2 slope	<u>56.3</u>

Sludge Transfer Pump

Pump operating air pressure	<u>NA</u>
Pump appearance/condition	<u>OK</u>

Sludge Tank

Depth of sludge (ft)	<u>NA</u>
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	<u>NA</u>
Pump appearance/condition	<u>OK</u>

Building and Grounds

Building and grounds appearance/condition	<u>OK</u>
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Comments

COLD - LIGHT SNOW



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJP

Date 11/10/05

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	Clean

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	Clean

Storage Tank

Water color/clarity	Clean
Hexachrome concentration (mg/l) <u>PH 8.2</u>	1.5
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	24"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition performance	OK
Ferrous sulfate drum weight (lbs)	286
Caustic drum weight (lbs)	500
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-2 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJP

Date 11/3/05

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	CLEAR

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	CLEAR

Storage Tank

Water color/clarity	CLEAR
Hexachrome concentration (mg/l)	1.7
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	7.0 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	29"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Comments

CHECK HEADINGS FOR PROPER OPERATION

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	337
Caustic drum weight (lbs)	545
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator 10/27/05

Date 10/27/05

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	CLEAN

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	CLEAN

Storage Tank

Water color/clarity	CLEAN
Hexachrome concentration (mg/l)	1.7
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	29"~
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	362
Caustic drum weight (lbs)	569
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments



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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator DDP

Date 10/20/05

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	CLEAR

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	CLEAR

Storage Tank

Water color/clarity	CLEAR
Hexachrome concentration (mg/l) PH 8.2	1.7
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	24" ~
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	392
Caustic drum weight (lbs)	599
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJP

Date 10/13/05

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	CLEAR

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	CLEAR

Storage Tank

Water color/clarity	CLEAR
Hexachrome concentration (mg/l) PH 7.9	1.5
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	24"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	407
Caustic drum weight (lbs)	621
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments



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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator 137P...

Date 10/6/05

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	CLEAN

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	CLEAN

Storage Tank

Water color/clarity	CLEAN
Hexachrome concentration (mg/l)	1.3
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	24"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	444
Caustic drum weight (lbs)	655
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments

RAIN OVERNIGHT



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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator JJP

Date 9/29/05

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	Clean

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	Clean

Storage Tank

Water color/clarity	Clean
Hexachrome concentration (mg/l) pH 7.9	1.3
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	500
Caustic drum weight (lbs)	694
Clean pH probes	OK
Calibrate pH probes	OK
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	24" ~
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments

RAIN ON WED



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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator JD

Date 9/22/05

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	Clean

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	Clean

Storage Tank

Water color/clarity	Clean
Hexachrome concentration (mg/l)	1.9
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	29"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Comments

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	532
Caustic drum weight (lbs)	734
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator DDP

Date 9/5/05

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	clean

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	clean

Storage Tank

Water color/clarity	clean
Hexachrome concentration (mg/l) <u>PH 8.3</u>	1.4
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	24"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Comments

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	—
Caustic drum weight (lbs)	769
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJP

Date 9/8/05

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	CLEAN

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	CLEAN

Storage Tank

Water color/clarity	CLEAN
Hexachrome concentration (mg/l)	1.5
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	2 FT
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	50
Caustic drum weight (lbs)	261
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator DDP

Date 9/1/05

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	CLEAN

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	CLEAN

Storage Tank

Water color/clarity	CLEAN
Hexachrome concentration (mg/l) PH 7.5	1.5
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	29"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	88
Caustic drum weight (lbs)	293
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments



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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator JJP

Date 8/25/05

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	Clean

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	Clean

Storage Tank

Water color/clarity	Clean
Hexachrome concentration (mg/l) PH 7.8	1.5
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	2 FT
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	159
Caustic drum weight (lbs)	346
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments



Midwest Contract Operations, Inc.

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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator JJA

Date 8/18/05

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	CLEAR

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	CLEAR

Storage Tank

Water color/clarity	CLEAR
Hexachrome concentration (mg/l) PH 7.7	1.1
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	2 FT
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	209
Caustic drum weight (lbs)	386
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments

CHECK AIR COMPRESSOR FOR PROPER OPERATION



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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator JJP

Date 8/11/05

Manhole Sump #1

Water depth (ft)	<u>30 FT</u>
Water color/clarity	<u>CLEAN</u>

Manhole Sump #2

Water depth (ft)	<u>26 FT</u>
Water color/clarity	<u>CLEAN</u>

Storage Tank

Water color/clarity	<u>CLEAN</u>
Hexachrome concentration (mg/l)	<u>1.2</u>
Mixer appearance/condition	<u>OK</u>
Ultrasonic level meter appearance/condition	<u>OK</u>

Reaction Feed Pump

Pump operating air pressure	<u>90 PSI</u>
Pump appearance/condition	<u>OK</u>

Reaction Tank

Depth of sludge (ft)	<u>28"</u>
Diffuser appearance/condition	<u>OK</u>
Mixer appearance/condition	<u>OK</u>
Ultrasonic level meter appearance/condition	<u>OK</u>

Comments

Chemical Feed System

Condition/color of ferrous sulfate solution	<u>OK</u>
Chemical feed pumps condition/performance	<u>OK</u>
Ferrous sulfate drum weight (lbs)	<u>225</u>
Caustic drum weight (lbs)	<u>905</u>
Clean pH probes	<u>—</u>
Calibrate pH probes	<u>—</u>
pH probe (upper) AIT-7-1 slope	<u>51.0</u>
pH probe (lower) AIT-7-2 slope	<u>56.3</u>

Sludge Transfer Pump

Pump operating air pressure	<u>NA</u>
Pump appearance/condition	<u>OK</u>

Sludge Tank

Depth of sludge (ft)	<u>NA</u>
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	<u>NA</u>
Pump appearance/condition	<u>OK</u>

Building and Grounds

Building and grounds appearance/condition	<u>OK</u>
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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator JJP

Date 8/4/05

Manhole Sump #1

Water depth (ft)	30ft
Water color/clarity	CLEAN

Manhole Sump #2

Water depth (ft)	26ft
Water color/clarity	CLEAN

Storage Tank

Water color/clarity	CLEAN
Hexachrome concentration (mg/l)	1.2
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	257
Caustic drum weight (lbs)	933
Clean pH probes	OK
Calibrate pH probes	OK
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	28"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments



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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator JJA

Date 7/28/05

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	Clean

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	Clean

Storage Tank

Water color/clarity	Clean
Hexachrome concentration (mg/l) PH 8.0	1.2
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	29"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	303
Caustic drum weight (lbs)	953
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments

HEAVY RAIN 7/25-26/05



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJP

Date 7/22/05

Manhole Sump #1

Water depth (ft)	30FT
Water color/clarity	CLEAR

Manhole Sump #2

Water depth (ft)	26FT
Water color/clarity	CLEAR

Storage Tank

Water color/clarity	CLEAR
Hexachrome concentration (mg/l)	0.4
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	24"2
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	336
Caustic drum weight (lbs)	523
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJP

Date 7/14/05

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	OK

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	OK

Storage Tank

Water color/clarity	OK
Hexachrome concentration (mg/l)	0.4
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	29"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	360
Caustic drum weight (lbs)	558
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments



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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator JJP

Date 7/7/05

Manhole Sump #1

Water depth (ft)	30FT
Water color/clarity	OK

Manhole Sump #2

Water depth (ft)	26FT
Water color/clarity	OK

Storage Tank

Water color/clarity	OK
Hexachrome concentration (mg/l) PH 7.9	0.4
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	24"±
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	393
Caustic drum weight (lbs)	558
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	OK
Pump appearance/condition	NA

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments

CHECK REACTION TANK LEVEL CONTROL
 CHECK STORAGE TANK LEVEL CONTROL



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJP

Date 6/30/05

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	OK

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	OK

Storage Tank

Water color/clarity	OK
Hexachrome concentration (mg/l)	1.3
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	2 FT
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	410
Caustic drum weight (lbs)	625
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments



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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator JJ

Date 6/23/05

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	Clear

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	Clear

Storage Tank

Water color/clarity	Clear
Hexachrome concentration (mg/l)	1.3
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40 PSI
Pump appearance/condition	

Reaction Tank

Depth of sludge (ft)	24" ~
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	436
Caustic drum weight (lbs)	654
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJ

Date 6/16/05

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	Clean

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	Clean

Storage Tank

Water color/clarity	Clean
Hexachrome concentration (mg/l) ^{PH 7.7}	1.3
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	24"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	473
Caustic drum weight (lbs)	697
Clean pH probes	OK
Calibrate pH probes	OK
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments

CHECK REACTION TANK MIXER
CHECK STORAGE TANK MIXER



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJP

Date 6/9/05

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	Clean

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	Clean

Storage Tank

Water color/clarity	Clean
Hexachrome concentration (mg/l)	1.5
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	29"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	518
Caustic drum weight (lbs)	753
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments

CHECK REACTION TANK FEED PUMP FOR PROPER OPERATION

CHECK CHEMICAL PUMPS FOR PROPER OPERATION



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJP

Date 6/2/05

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	CLEAN

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	CLEAN

Storage Tank

Water color/clarity	CLEAN
Hexachrome concentration (mg/l) <u>PH 7.7</u>	1.5
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	29"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	56
Caustic drum weight (lbs)	298
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	-
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	-
----------------------	---

Sludge Tanker Truck Feed Pump

Pump operating air pressure	-
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments



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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator JJP

Date 5/26/05

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	Clean

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	Clean

Storage Tank

Water color/clarity	Clean
Hexachrome concentration (mg/l)	1.5
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	29"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	36
Caustic drum weight (lbs)	338
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments

CHECK STORAGE TANK MIXER + REACTION
 TANK MIXER FOR PROPER OPERATION



Midwest Contract Operations, Inc.

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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJP

Date 5/19/05

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	Clean

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	Clean

Storage Tank

Water color/clarity	Clean
Hexachrome concentration (mg/l) <u>PH 7.8</u>	0.9
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	2 FT
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	160
Caustic drum weight (lbs)	417
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments

RAIN OVERNIGHT



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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator Shane JJP

Date 5/12/05

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	CLEAN

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	CLEAN

Storage Tank

Water color/clarity	CLEAN
Hexachrome concentration (mg/l)	1.2
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	2 FT
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Comments

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	219
Caustic drum weight (lbs)	175
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator 5/5/05

Date 20P

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	CLEAN

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	CLEAN

Storage Tank

Water color/clarity	CLEAN
Hexachrome concentration (mg/l)	1.2
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	OK
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	299
Caustic drum weight (lbs)	517
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments

WARMING - UP



Midwest Contract Operations, Inc.

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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator JJP

Date 9/23/05

Manhole Sump #1

Water depth (ft)	3.0 FT
Water color/clarity	CLEAR

Manhole Sump #2

Water depth (ft)	2.6 FT
Water color/clarity	CLEAR

Storage Tank

Water color/clarity	CLEAR
Hexachrome concentration (mg/l)	1.8
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	2.9"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	287
Caustic drum weight (lbs)	567
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments

REMOVE SNOW BLOWER - INSTALL MOWER



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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator JJP

Date 9/2/05

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	Clean

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	Clean

Storage Tank

Water color/clarity	Clean
Hexachrome concentration (mg/l) <u>PH 7.9</u>	1.8
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	29"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	341
Caustic drum weight (lbs)	635
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments



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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator JJP

Date 9/19/05

Manhole Sump #1

Water depth (ft)	<u>30 FT</u>
Water color/clarity	<u>Clean</u>

Manhole Sump #2

Water depth (ft)	<u>26 FT</u>
Water color/clarity	<u>Clean</u>

Storage Tank

Water color/clarity	<u>Clean</u>
Hexachrome concentration (mg/l) <u>PH 7.9</u>	<u>1.1</u>
Mixer appearance/condition	<u>OK</u>
Ultrasonic level meter appearance/condition	<u>OK</u>

Reaction Feed Pump

Pump operating air pressure	<u>40 PSI</u>
Pump appearance/condition	<u>OK</u>

Reaction Tank

Depth of sludge (ft)	<u>OK</u>
Diffuser appearance/condition	<u>OK</u>
Mixer appearance/condition	<u>OK</u>
Ultrasonic level meter appearance/condition	<u>OK</u>

Chemical Feed System

Condition/color of ferrous sulfate solution	<u>OK</u>
Chemical feed pumps condition/performance	<u>OK</u>
Ferrous sulfate drum weight (lbs)	<u>382</u>
Caustic drum weight (lbs)	<u>687</u>
Clean pH probes	<u>OK</u>
Calibrate pH probes	<u>OK</u>
pH probe (upper) AIT-7-1 slope	<u>51.0</u>
pH probe (lower) AIT-7-2 slope	<u>56.3</u>

Sludge Transfer Pump

Pump operating air pressure	<u>NA</u>
Pump appearance/condition	<u>OK</u>

Sludge Tank

Depth of sludge (ft)	<u>NA</u>
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	<u>NA</u>
Pump appearance/condition	<u>OK</u>

Building and Grounds

Building and grounds appearance/condition	<u>OK</u>
---	-----------

Comments

Clean/Calibrate PH
PICK-UP GROUNDS



Midwest Contract Operations, Inc.

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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator JJP

Date 9/7/05

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	CLEAN

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	CLEAN

Storage Tank

Water color/clarity	CLEAN
Hexachrome concentration (mg/l) PH 7.5	1.2
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	OK
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	431
Caustic drum weight (lbs)	210
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJP

Date 3/31/05

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	Clear

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	Clear

Storage Tank

Water color/clarity	Clear
Hexachrome concentration (mg/l) <u>PH 7.3</u>	0.7
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	29'
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	514
Caustic drum weight (lbs)	293
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJA

Date 3/24/05

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	CLEAN

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	CLEAN

Storage Tank

Water color/clarity	CLEAN
Hexachrome concentration (mg/l) PH 7.9	0.8
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	29"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	54
Caustic drum weight (lbs)	359
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator DDP

Date 3/17/05

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	CLEAR

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	CLEAR

Storage Tank

Water color/clarity	CLEAR
Hexachrome concentration (mg/l)	0.9
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	29"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	96
Caustic drum weight (lbs)	405
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator DDP

Date 3/10/05

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	Clean

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	Clean

Storage Tank

Water color/clarity	Clean
Hexachrome concentration (mg/l)	0.9
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40/51
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	29"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	130
Caustic drum weight (lbs)	490
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments

LIGHT SNOW



Midwest Contract Operations, Inc.

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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJP

Date 3/3/05

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	Clean

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	Clean

Storage Tank

Water color/clarity	Clean
Hexachrome concentration (mg/l) PH 8.2	0.9
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	29" ~
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	177
Caustic drum weight (lbs)	483
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments

COLD!



Midwest Contract Operations, Inc.

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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator JD

Date 2/24/05

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	CLEAN

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	CLEAN

Storage Tank

Water color/clarity	CLEAN
Hexachrome concentration (mg/l)	1.0
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	29"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	198
Caustic drum weight (lbs)	510
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments

CHECK HEADERS FOR PROBLEM OPERATION



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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator JJP

Date 2/17/05

Manhole Sump #1

Water depth (ft)	<u>30'</u>
Water color/clarity	<u>CLEAR</u>

Manhole Sump #2

Water depth (ft)	<u>26'</u>
Water color/clarity	<u>CLEAR</u>

Storage Tank

Water color/clarity	<u>CLEAR</u>
Hexachrome concentration (mg/l) <u>PH 8.0</u>	<u>1.0</u>
Mixer appearance/condition	<u>OK</u>
Ultrasonic level meter appearance/condition	<u>OK</u>

Reaction Feed Pump

Pump operating air pressure	<u>40PSI</u>
Pump appearance/condition	<u>OK</u>

Reaction Tank

Depth of sludge (ft)	<u>29"</u>
Diffuser appearance/condition	<u>OK</u>
Mixer appearance/condition	<u>OK</u>
Ultrasonic level meter appearance/condition	<u>OK</u>

Chemical Feed System

Condition/color of ferrous sulfate solution	<u>OK</u>
Chemical feed pumps condition/performance	<u>OK</u>
Ferrous sulfate drum weight (lbs)	<u>227</u>
Caustic drum weight (lbs)	<u>540</u>
Clean pH probes	<u>—</u>
Calibrate pH probes	<u>—</u>
pH probe (upper) AIT-7-1 slope	<u>51.0</u>
pH probe (lower) AIT-7-2 slope	<u>56.3</u>

Sludge Transfer Pump

Pump operating air pressure	<u>NA</u>
Pump appearance/condition	<u>OK</u>

Sludge Tank

Depth of sludge (ft)	<u>NA</u>
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	<u>NA</u>
Pump appearance/condition	<u>OK</u>

Building and Grounds

Building and grounds appearance/condition	<u>OK</u>
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Comments

CHECK STORAGE TANK MIXER + LEVEL
CONTROL FOR PROPER OPERATION



Midwest Contract Operations, Inc.

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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator JJA

Date 2-10-05

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	Clean

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	Clean

Storage Tank

Water color/clarity	Clean
Hexachrome concentration (mg/l)	1.0
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	29" ~
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	253
Caustic drum weight (lbs)	565
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments

CHECK REACTION TANK MIXER + DRIVE
FOR PROPER OPERATION



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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator JJP

Date 2/3/05

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	CLEAR

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	CLEAR

Storage Tank

Water color/clarity	CLEAR
Hexachrome concentration (mg/l) PH 7.8	1.2
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	29"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	289
Caustic drum weight (lbs)	595
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments

 MILD TEMPS
 CHECK AIR COMPRESSOR AND CONTROLS
 FOR PROPER OPERATION



Midwest Contract Operations, Inc.

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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator JJA

Date 1/27/05

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	CLEAN

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	CLEAN

Storage Tank

Water color/clarity	CLEAN
Hexachrome concentration (mg/l) PH 8.1	0.9
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	24"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	309
Caustic drum weight (lbs)	612
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments

COLD



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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator JJP

Date 1/20/05

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	Clean

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	Clean

Storage Tank

Water color/clarity	Clean
Hexachrome concentration (mg/l) <u>PH 7.8</u>	1.0
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	29"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	321
Caustic drum weight (lbs)	628
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments

REMOVE SNOW



Midwest Contract Operations, Inc.

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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator DDP

Date 1/13/05

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	CLEAN

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	CLEAN

Storage Tank

Water color/clarity	CLEAN
Hexachrome concentration (mg/l) <u>PH 7.8</u>	1.3
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	29"~
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	338
Caustic drum weight (lbs)	697
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments

RAIN ENDS - GETS COLD



Midwest Contract Operations, Inc.

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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator DDP

Date 1/6/05

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	CLEAR

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	CLEAR

Storage Tank

Water color/clarity	CLEAR
Hexachrome concentration (mg/l) <u>PH 7.8</u>	1.3
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	29"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	390
Caustic drum weight (lbs)	—
Clean pH probes	OK
Calibrate pH probes	OK
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments

SNOW OVERNIGHT



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Daily Log Sheet

Operator JJD

Date 1/2/05

Arrival time 10:30A

Departure time 11:00A

Activities Performed

Daily Plant Check

Weekly Plant Check

Start Batch Process

Decant Batch

Comments

Nitrogen
Tank
Supply
Pressure
PSI

Nitrogen
Tank
Discharge
Pressure
PSI

Storage
Tank
Liquid
Level
In Feet

1300	2	7.0
------	---	-----

pH
Meter
Inspection
Upper
AIT-7-1

pH
Meter
Inspection
Lower
AIT-7-2

Discharge
Flow
Meter
Inspection

OK	OK	OK
----	----	----

Ferrous
Sulfate
Supply
Weight

Ferrous
Sulfate
Used

Caustic
Supply
Weight

Caustic
Used

413	5	59	3
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ICE STORM OVER NIGHT -



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJP

Date 12/30/08

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	CLEAR

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	CLEAR

Storage Tank

Water color/clarity	CLEAR
Hexachrome concentration (mg/l)	PH 8.0 1.3
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	24" w
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	OK
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	425
Caustic drum weight (lbs)	85
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.0

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments

WARM WEATHER - CHANCE OF RAIN



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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator DDP

Date 12/23/04

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	Clean

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	Clean

Storage Tank

Water color/clarity	Clean
Hexachrome concentration (mg/l) <u>PH 7.9</u>	0.8
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	23"~
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	457
Caustic drum weight (lbs)	117
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.0

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments

SNOW CLEANED TUES



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJA

Date 12/16/08

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	CLEAN

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	CLEAN

Storage Tank

Water color/clarity	CLEAN
Hexachrome concentration (mg/l)	0.8
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	23"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Comments

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	493
Caustic drum weight (lbs)	152
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	510
pH probe (lower) AIT-7-2 slope	56.0

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJP

Date 12/9/04

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	Clean

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	Clean

Storage Tank

Water color/clarity	Clean
Hexachrome concentration (mg/l) PH 7.8	0.7
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	23"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	72
Caustic drum weight (lbs)	227
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.0

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments

INSTALL SNOW BLOWER ON TRACTOR



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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator JJP

Date 12/2/04

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	Clean

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	Clean

Storage Tank

Water color/clarity	Clean
Hexachrome concentration (mg/l) PH 7.8	0.7
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	23"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	116
Caustic drum weight (lbs)	267
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.0

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJA

Date 11/26/08

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	CLEAR

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	CLEAR

Storage Tank

Water color/clarity	CLEAR
Hexachrome concentration (mg/l)	0.7
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	23"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	163
Caustic drum weight (lbs)	305
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments



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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator DDA

Date 11/18/04

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	CLEAR

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	CLEAR

Storage Tank

Water color/clarity	CLEAR
Hexachrome concentration (mg/l) PH 7.7	0.7
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	23"~
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	261
Caustic drum weight (lbs)	399
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments

CHECK ALARM SYSTEM FOR PROPER OPERATION



Midwest Contract Operations, Inc.

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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJP

Date 11/11/04

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	CLEAN

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	CLEAN

Storage Tank

Water color/clarity	CLEAN
Hexachrome concentration (mg/l)	0.7
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	23"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Comments

CLEAN/COLD WEATHER

CLEAN/CHECK HEATER'S FOR PROPER OPERATION

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	225
Caustic drum weight (lbs)	366
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----



Midwest Contract Operations, Inc.

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**Groundwater Pretreatment System
N.W. Mauthe Superfund Site
Operator Weekly Log Sheet**

Operator JJP

Date 11/4/04

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	CLEAN

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	CLEAN

Storage Tank

Water color/clarity	CLEAN
Hexachrome concentration (mg/l) PH 8.2	0.7
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	23"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	253
Caustic drum weight (lbs)	391
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments

SOME RAIN THIS WEEK



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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator JJP

Date 10/29/04

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	Clean

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	Clean

Storage Tank

Water color/clarity	Clean
Hexachrome concentration (mg/l)	0.4
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	23"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	293
Caustic drum weight (lbs)	418
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	OK
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments

SOME RAIN EARLIER IN WEEK



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator DSA

Date 10/21/04

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	Clean

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	Clean

Storage Tank

Water color/clarity	Clean
Hexachrome concentration (mg/l)	0.4
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	23"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	308
Caustic drum weight (lbs)	434
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments

STILL DRY ->



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator 10/14/07

Date 10/14

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	Clean

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	clean

Storage Tank

Water color/clarity	Clean
Hexachrome concentration (mg/l)	0.6
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	23"~
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	321
Caustic drum weight (lbs)	446
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments

STILL DRY-DRY-DRY!



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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator DDA

Date 10/7/04

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	Clean

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	Clean

Storage Tank

Water color/clarity	Clean
Hexachrome concentration (mg/l) <u>PH 7.0</u>	0.6
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	23" ~
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	336
Caustic drum weight (lbs)	459
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments

DAY - DAY - DAY WEATHER



Midwest Contract Operations, Inc.

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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJF

Date 9/30/03

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	CLEAR

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	CLEAR

Storage Tank

Water color/clarity	CLEAR
Hexachrome concentration (mg/l)	1.1
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	23"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	348
Caustic drum weight (lbs)	468
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments

5720 724



Midwest Contract Operations, Inc.

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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJP

Date 9/23/04

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	CLEAN

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	CLEAN

Storage Tank

Water color/clarity	CLEAN
Hexachrome concentration (mg/l) PH 7.9	1.1
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	45PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	23"±
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	361
Caustic drum weight (lbs)	475
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments

MOSTLY DRY WEATHER
CHECK STORAGE TANK AND REACTION TANK
MIXERS FOR PROPER OPERATION



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator DDP

Date 9/16/07

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	CLEAR

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	CLEAR

Storage Tank

Water color/clarity	CLEAR
Hexachrome concentration (mg/l) <i>pH 7.8</i>	1.3
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	33"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	361
Caustic drum weight (lbs)	477
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments

MOSTLY DRY WEATHER
CHECK CHEMICAL FEED SYSTEM FOR PROPER
OPERATION



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJP

Date 9/9/07

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	Clean

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	Clean

Storage Tank

Water color/clarity	Clean
Hexachrome concentration (mg/l) PH 7.8	1.5
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	23"±
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	382
Caustic drum weight (lbs)	493
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJP

Date 9/2/09

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	Clean

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	Clean

Storage Tank

Water color/clarity	Clean
Hexachrome concentration (mg/l) PH 7.7	1.6
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	23"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	397
Caustic drum weight (lbs)	515
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments

Mostly Dry Conditions



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJP

Date 8/26/04

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	CLEAR

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	CLEAR

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	915
Caustic drum weight (lbs)	539
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Storage Tank

Water color/clarity	CLEAR
Hexachrome concentration (mg/l)	1.1
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90PSI
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Reaction Tank

Depth of sludge (ft)	23"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments

Mostly dry conditions



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJP

Date 8/19/04

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	CLEAN

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	CLEAN

Storage Tank

Water color/clarity	CLEAN
Hexachrome concentration (mg/l) PH 7.6	1.1
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	23"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	946
Caustic drum weight (lbs)	567
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments



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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator JY

Date 8/12/04

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	CLEAN

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	CLEAN

Storage Tank

Water color/clarity	CLEAN
Hexachrome concentration (mg/l) PH 7.6	1.2
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	23"~
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	467
Caustic drum weight (lbs)	585
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJA

Date 8/5/07

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	Clean

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	Clean

Storage Tank

Water color/clarity	Clean
Hexachrome concentration (mg/l) PH 7.6	0.7
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	23 1/2
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	485
Caustic drum weight (lbs)	602
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments

MOSTLY DRY CONDITIONS SINCE SAT



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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator RF

Date 7/29/04

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	Clear

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	Clear

Storage Tank

Water color/clarity	Clear
Hexachrome concentration (mg/l) <u>pH 8.0</u>	0.5
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	23 1/2
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	503
Caustic drum weight (lbs)	620
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	51.0
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments

Calibrate pH probe 1 with buffer solutions. pH 1 8.46
pH 2 8.46



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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator JJP

Date 7/22/04

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	Clean

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	Clean

Storage Tank

Water color/clarity	Clean
Hexachrome concentration (mg/l)	1.1
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	23"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	517
Caustic drum weight (lbs)	635
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	57.7
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments

INSPECT Manhole Pump #2 FOR PROPER OPERATION



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJA

Date 7/15/02

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	Clean

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	Clean

Storage Tank

Water color/clarity	Clean
Hexachrome concentration (mg/l)	1.0
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	23"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Comments

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	30
Caustic drum weight (lbs)	275
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	57.7
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJP

Date 7/8/04

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	CLEAR

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	CLEAR

Storage Tank

Water color/clarity	CLEAR
Hexachrome concentration (mg/l) <u>pH 7.7</u>	1.1
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	23"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	100
Caustic drum weight (lbs)	325
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	57.7
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJP

Date 7/1/04

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	CLEAN

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	CLEAN

Storage Tank

Water color/clarity	CLEAN
Hexachrome concentration (mg/l)	0.7
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	70 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	33"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	148
Caustic drum weight (lbs)	366
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	57.7
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments

MOSTLY DRY WEATHER



Midwest Contract Operations, Inc.

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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator DDA

Date 6/22/04

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	Clean

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	Clean

Storage Tank

Water color/clarity	Clean
Hexachrome concentration (mg/l) PH 7.6	0.7
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	197
Caustic drum weight (lbs)	420
Clean pH probes 6/22/04	OK
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	57.7
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Reaction Feed Pump

Pump operating air pressure	40 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	23"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Comments

RAIN OVERNIGHT
CLEANED PH PROBES 6/22/04



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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator JJP

Date 6/17/04

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	CLEAN

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	CLEAN

Storage Tank

Water color/clarity	CLEAN
Hexachrome concentration (mg/l)	0.7
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	23"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	282
Caustic drum weight (lbs)	499
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	57.7
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
----------------------	----

Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
---	----

Comments



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator DDA

Date 6/10/04

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	Clean

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	Clean

Storage Tank

Water color/clarity	Clean
Hexachrome concentration (mg/l)	0.5
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	23"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	425
Caustic drum weight (lbs)	165
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	57.7
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments

LIGHT RAIN AM



Midwest Contract Operations, Inc.

P.O. BOX 418 MENASHA, WI 54952-0418
TEL: (920) 751-4299 FAX: (920) 751-4284
e-mail: mcm@mcmgrp.com

Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJP

Date 6/2/07

Manhole Sump #1

Water depth (ft)	30'
Water color/clarity	CLEAN

Manhole Sump #2

Water depth (ft)	26'
Water color/clarity	CLEAN

Storage Tank

Water color/clarity	CLEAN
Hexachrome concentration (mg/l)	0.5
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	98/51
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	23"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	503
Caustic drum weight (lbs)	253
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	57.7
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments



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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JJP

Date 5/27/04

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	CLEAR

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	CLEAR

Storage Tank

Water color/clarity	CLEAR
Hexachrome concentration (mg/l) PH 7.5	0.5
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	9 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	23"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	167
Caustic drum weight (lbs)	402
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	57.7
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments

NO RAIN SINCE SUNDAY 23RD



Midwest Contract Operations, Inc.

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**Groundwater Pretreatment System
 N.W. Mauthe Superfund Site
 Operator Weekly Log Sheet**

Operator DDA

Date 5/22/09

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	CLEAN

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	CLEAN

Storage Tank

Water color/clarity	CLEAN
Hexachrome concentration (mg/l)	PH 8.0 1.3
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	23" ~
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulfate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulfate drum weight (lbs)	322
Caustic drum weight (lbs)	525
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	57.7
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments

RAIN FRIDAY



Midwest Contract Operations, Inc.

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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator DDP

Date 5/13/98

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	CLEAR

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	CLEAR

Storage Tank

Water color/clarity	CLEAR
Hexachrome concentration (mg/l) PH 7.8	1.2
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	40 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	23"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulphate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulphate drum weight (lbs)	493
Caustic drum weight (lbs)	226
Clean pH probes	-
Calibrate pH probes	-
pH probe (upper) AIT-7-1 slope	57.7
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments

RAIN OVER NIGHT



Midwest Contract Operations, Inc.

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Groundwater Pretreatment System N.W. Mauthe Superfund Site Operator Weekly Log Sheet

Operator JDP

Date 5/6/04

Manhole Sump #1

Water depth (ft)	30 FT
Water color/clarity	CLEAN

Manhole Sump #2

Water depth (ft)	26 FT
Water color/clarity	CLEAN

Storage Tank

Water color/clarity	CLEAN
Hexachrome concentration (mg/l) 8.1 (PH)	0.5
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Reaction Feed Pump

Pump operating air pressure	90 PSI
Pump appearance/condition	OK

Reaction Tank

Depth of sludge (ft)	23"
Diffuser appearance/condition	OK
Mixer appearance/condition	OK
Ultrasonic level meter appearance/condition	OK

Chemical Feed System

Condition/color of ferrous sulphate solution	OK
Chemical feed pumps condition/performance	OK
Ferrous sulphate drum weight (lbs)	105
Caustic drum weight (lbs)	315
Clean pH probes	—
Calibrate pH probes	—
pH probe (upper) AIT-7-1 slope	57.7
pH probe (lower) AIT-7-2 slope	56.3

Sludge Transfer Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Sludge Tank

Depth of sludge (ft)	NA
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Sludge Tanker Truck Feed Pump

Pump operating air pressure	NA
Pump appearance/condition	OK

Building and Grounds

Building and grounds appearance/condition	OK
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Comments

GETTING LAWN MOWERS READY FOR SEASON