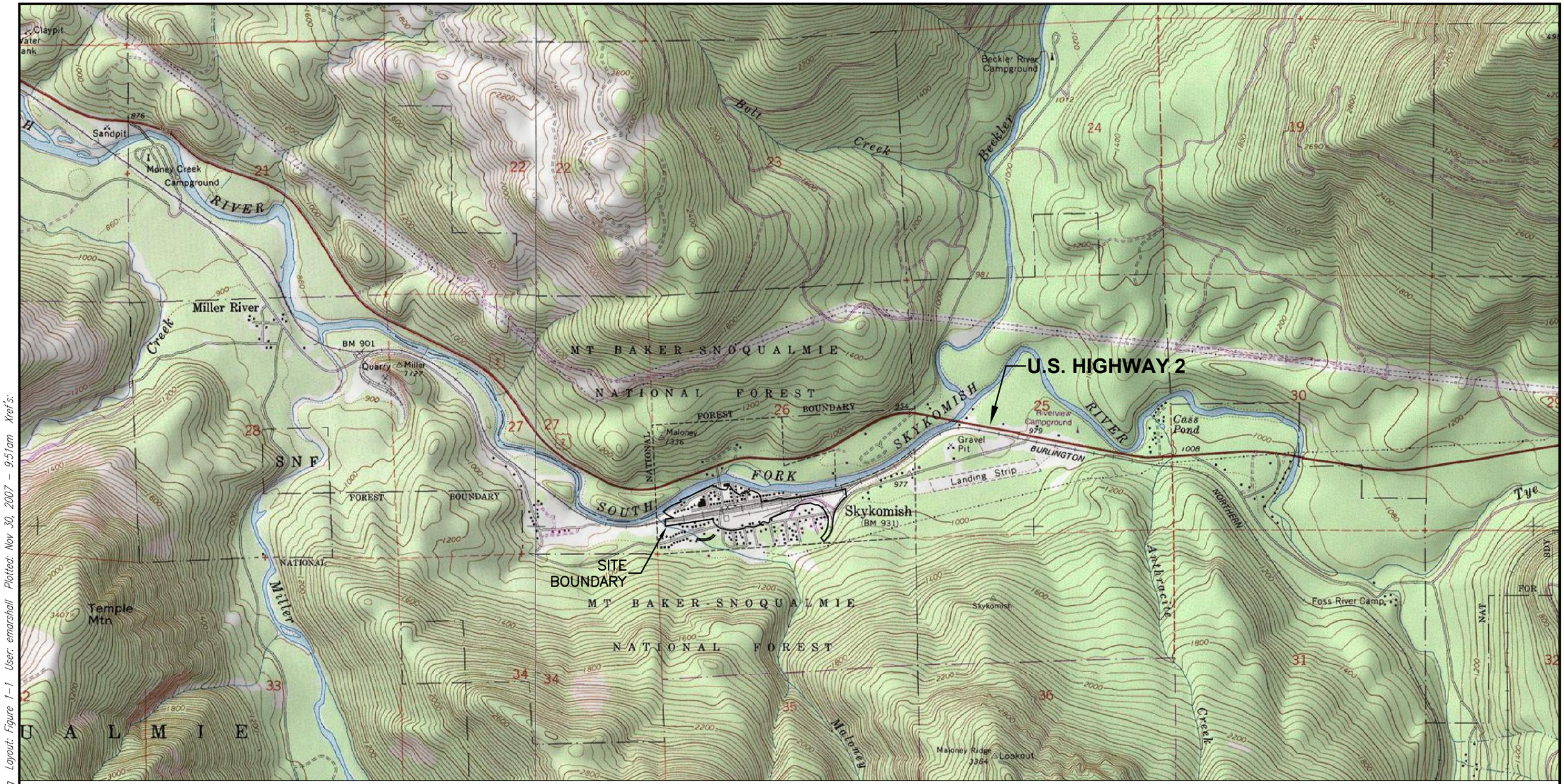


SOURCE: TOPO!, National Geographic Holdings, Inc.

N

1000 0 2000

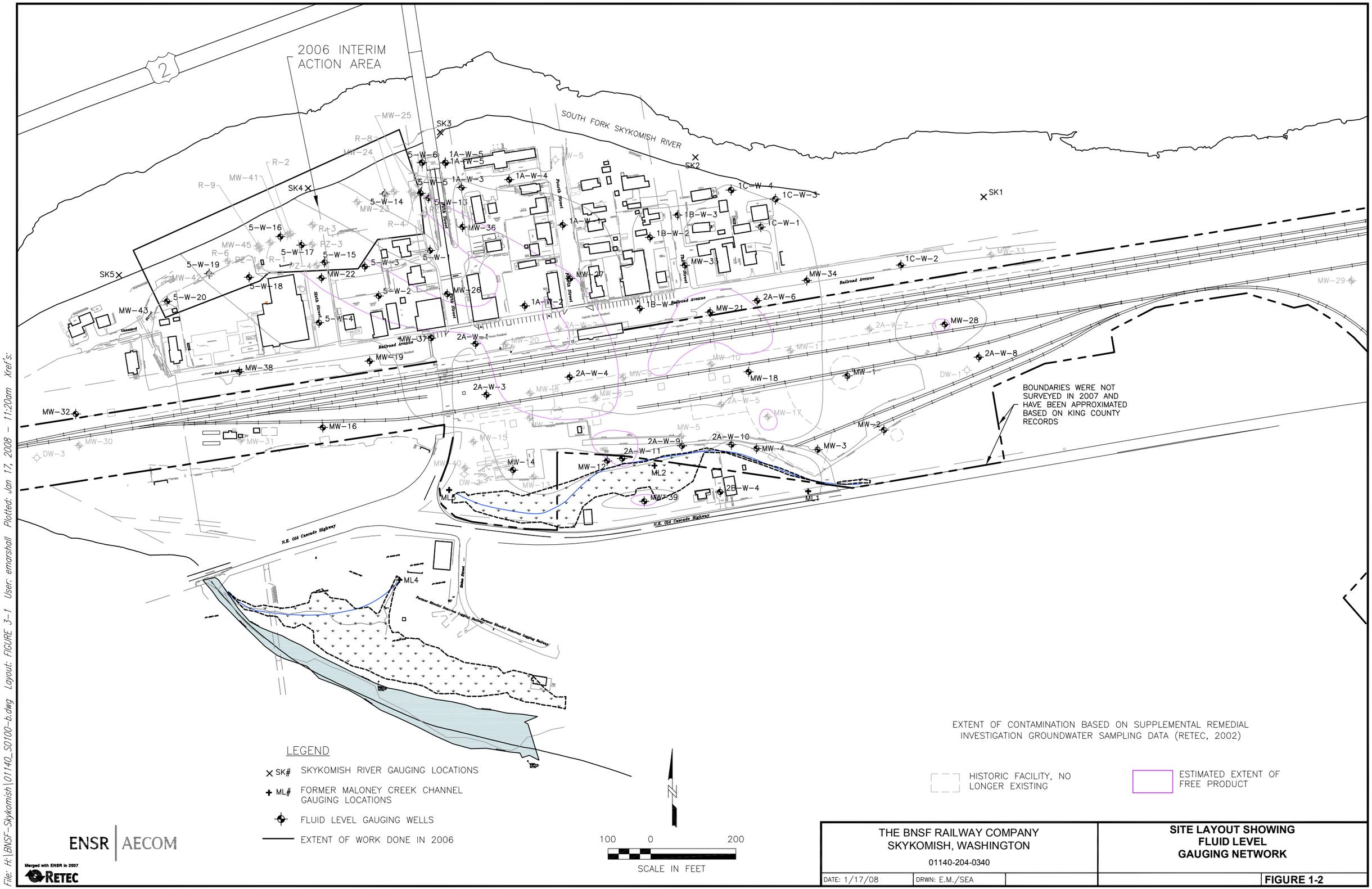
SCALE IN FEET

ENSR | AECOM

Merged with ENSR in 2007
RETEC

THE BNSF RAILWAY COMPANY SKYKOMISH, WASHINGTON 01140-204-0340			REGIONAL LOCATION MAP
DATE: 11/30/07	DRWN: E.M./SEA		FIGURE 1-1

File: H:\BNSF-Skykomish\01140-site location.dwg Layout: Figure 1-1 User: emarshall Plotted: Nov 30, 2007 - 9:51am Xref's:



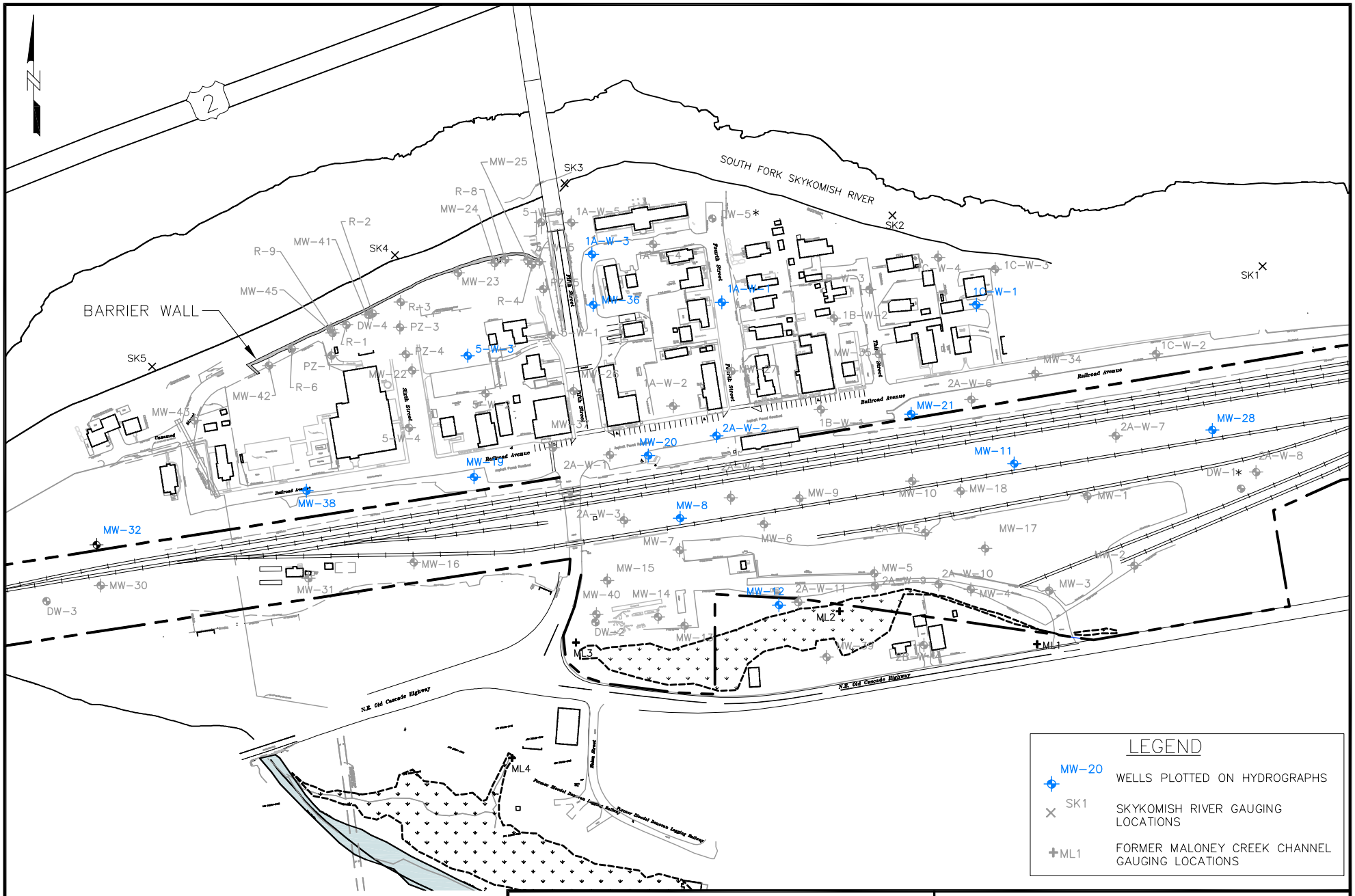
ENSR | AECOM

Merged with ENSR in 2007 RETEC

THE BNSF RAILWAY COMPANY SKYKOMISH, WASHINGTON 01140-204-0340			SITE LAYOUT SHOWING FLUID LEVEL GAUGING NETWORK
DATE: 1/17/08	DRWN: E.M./SEA		FIGURE 1-2

File: H:\BNSF-Skykomish\01140_S0100-b.dwg Layout: FIGURE 3-1 User: emarshall Plotted: Jan 17, 2008 - 11:20am Xref's:

File: H:\BNSF-Skykomish\01140_S0101-D.dwg Layout: ANSI_A1-CP User: emarshall Plotted: Jan 22, 2008 - 3:33pm Xref's:



LEGEND

MW-20	WELLS PLOTTED ON HYDROGRAPHS
SK1	SKYKOMISH RIVER GAUGING LOCATIONS
ML1	FORMER MALONEY CREEK CHANNEL GAUGING LOCATIONS

ENSR | AECOM

Merged with ENSR in 2007 RETEC

120 0 240

SCALE IN FEET

THE BNSF RAILWAY COMPANY
SKYKOMISH, WASHINGTON

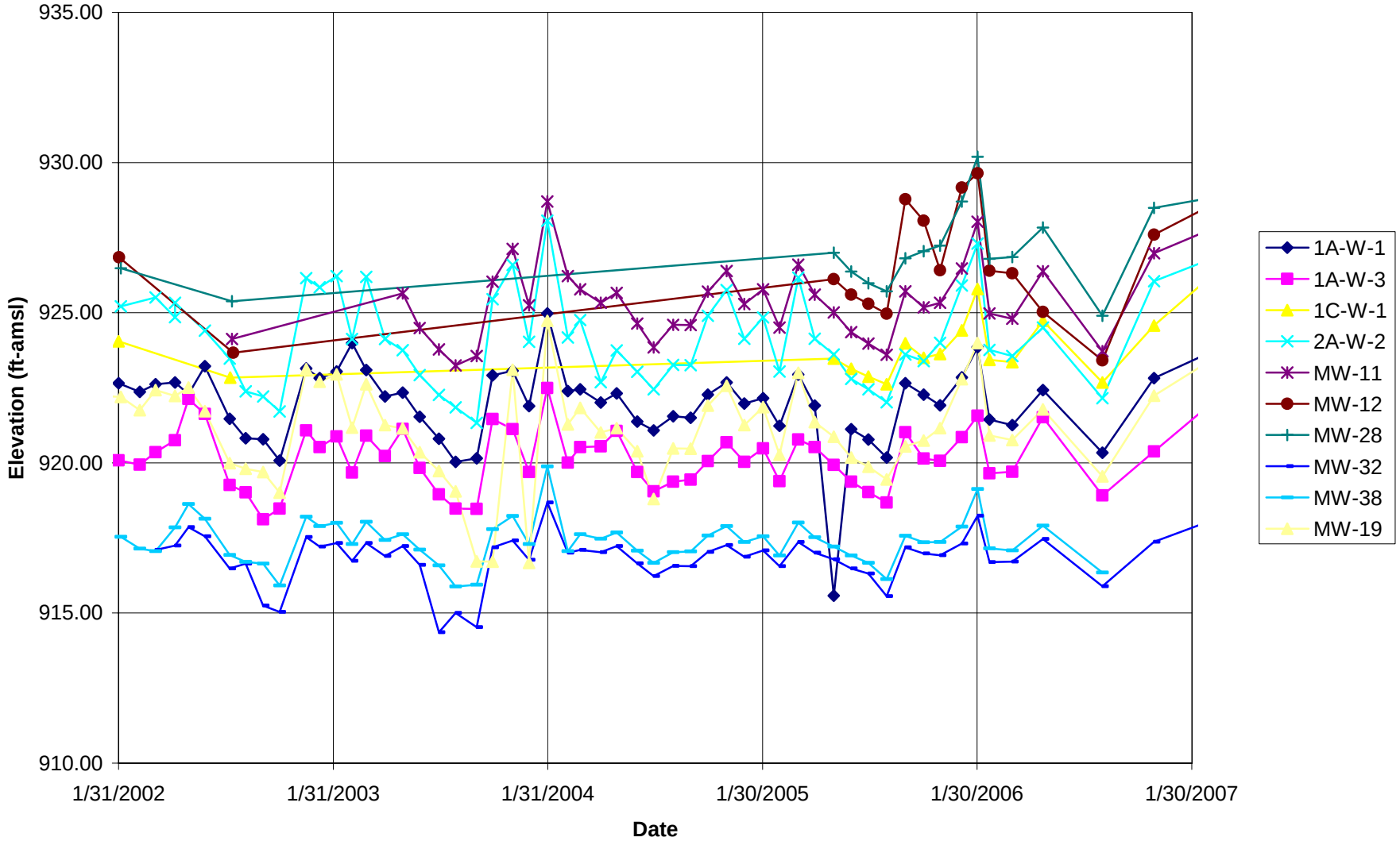
01140-204-0340

DATE: 1/16/08 | DRWN: E.M./SEA

HYDROGRAPH SOURCE DATA LOCATIONS PLOTTED ON HYDROGRAPHS

FIGURE 5-1

ENSR

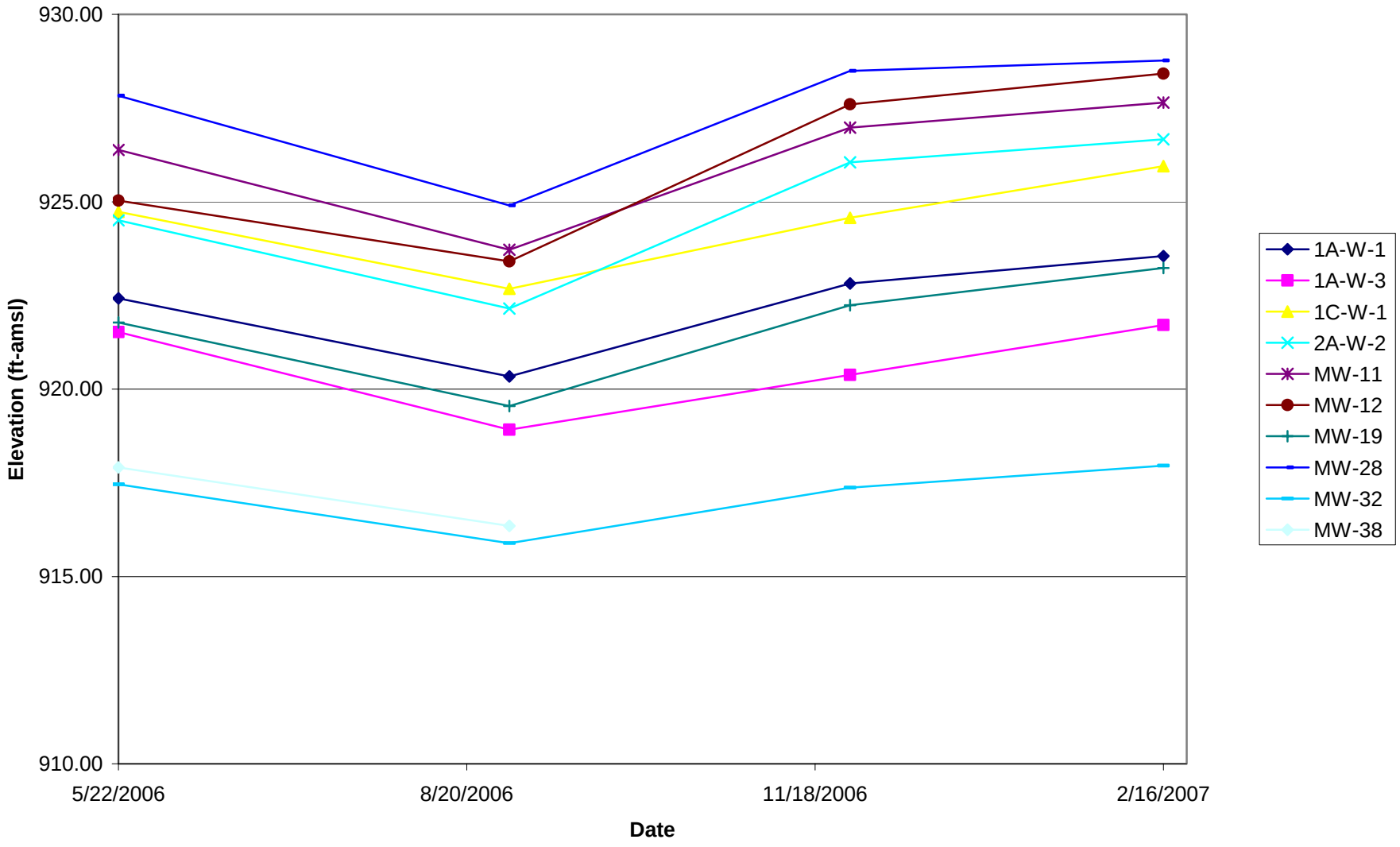


Merged with ENSR in 2007

RETEC

THE BNSF RAILWAY COMPANY SKYKOMISH, WASHINGTON 01140-204-0340		GROUNDWATER ELEVATIONS – SELECTED WELLS JANUARY 2002 - FEBRUARY 2007
Date: 01/2008	File:	FIGURE 5-2

ENSR

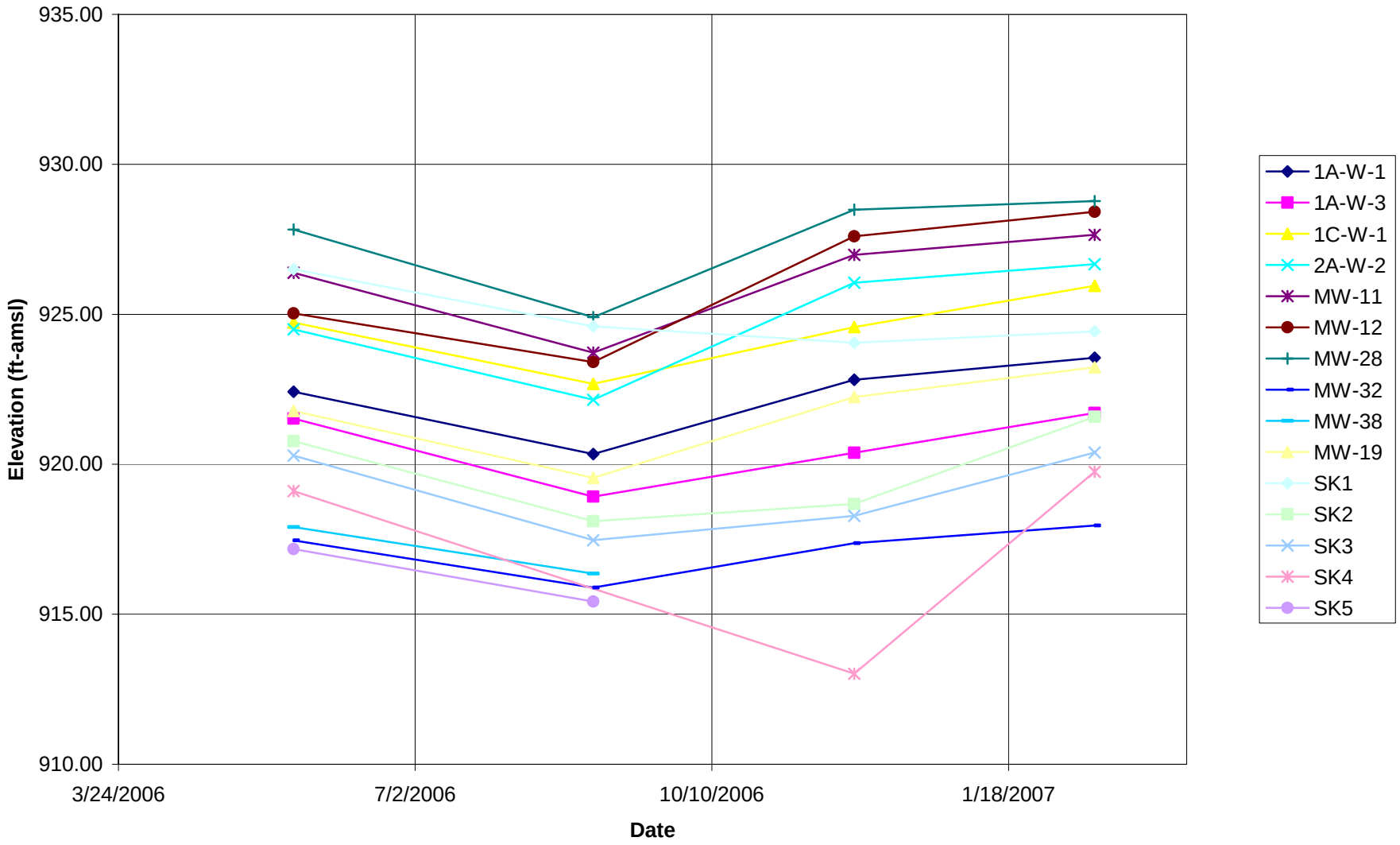


Merged with ENSR in 2007

RETEC

THE BNSF RAILWAY COMPANY SKYKOMISH, WASHINGTON 01140-204-0340		GROUNDWATER ELEVATIONS – SELECTED WELLS MAY 2006 - FEBRUARY 2007
Date: 01/2008	File:	FIGURE 5-3

ENSR

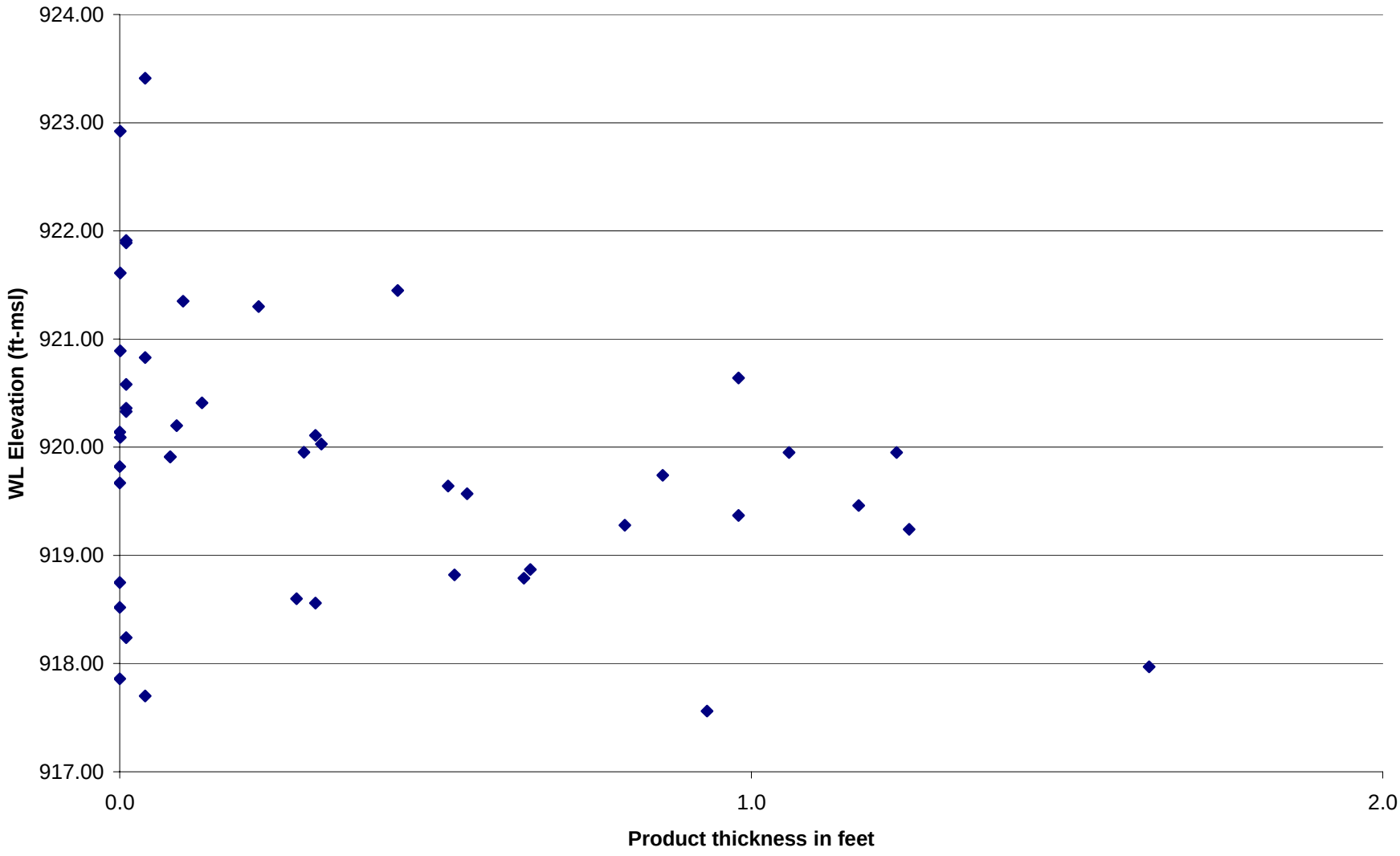


Merged with ENSR in 2007

RETEC

THE BNSF RAILWAY COMPANY SKYKOMISH, WASHINGTON 01140-204-0340		SKYKOMISH RIVER AND SELECTED WELLS GROUNDWATER ELEVATIONS MAY 2006 - FEBRUARY 2007
Date: 01/2008	File:	FIGURE 5-4

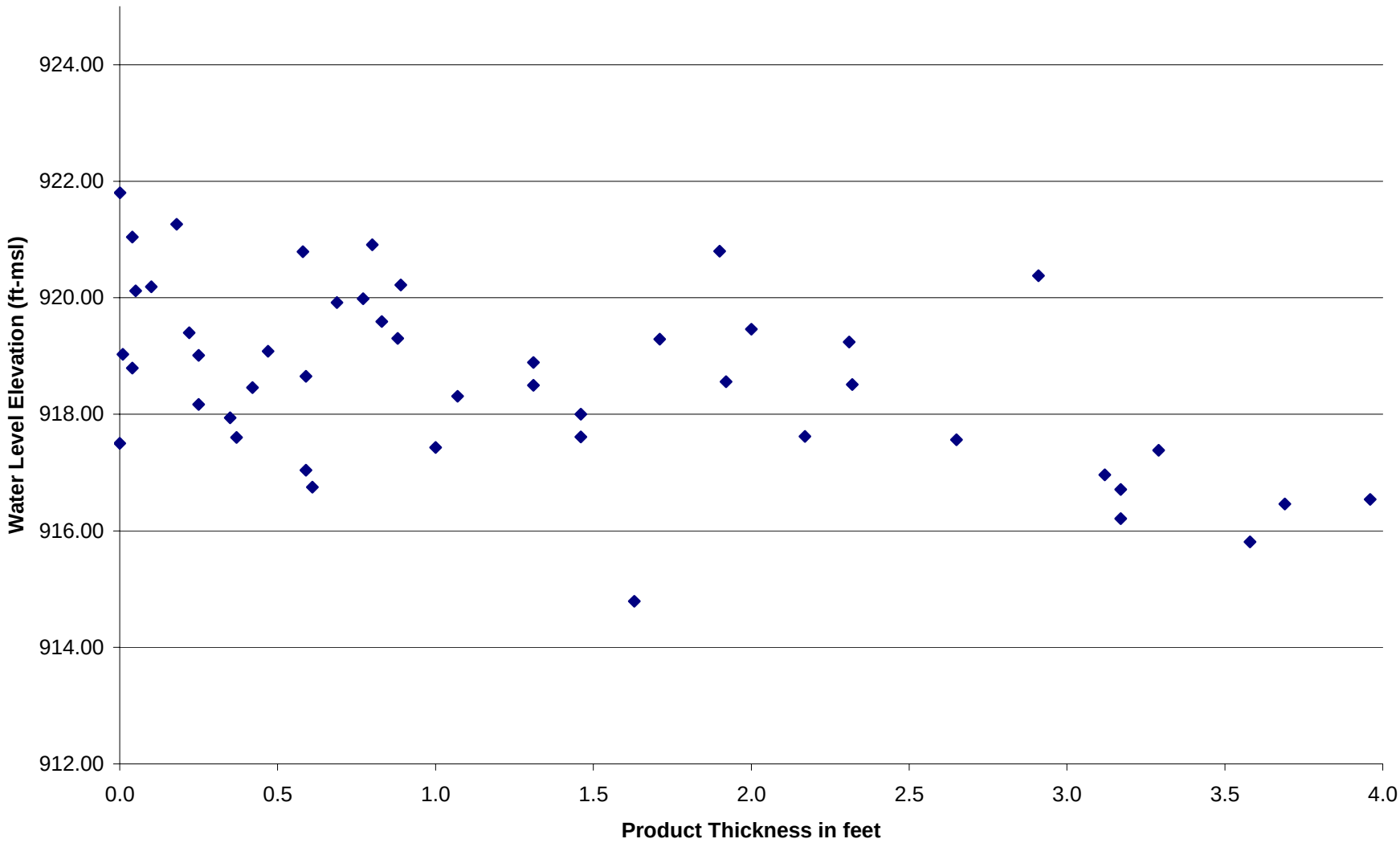
ENSR



Merged with ENSR in 2007
RETEC

THE BNSF RAILWAY COMPANY SKYKOMISH, WASHINGTON 01140-204-0340	PRODUCT THICKNESS VERSUS GROUNDWATER ELEVATION IN WELL 5-W-2
Date: 01/2008 File:	FIGURE 5-5

ENSR

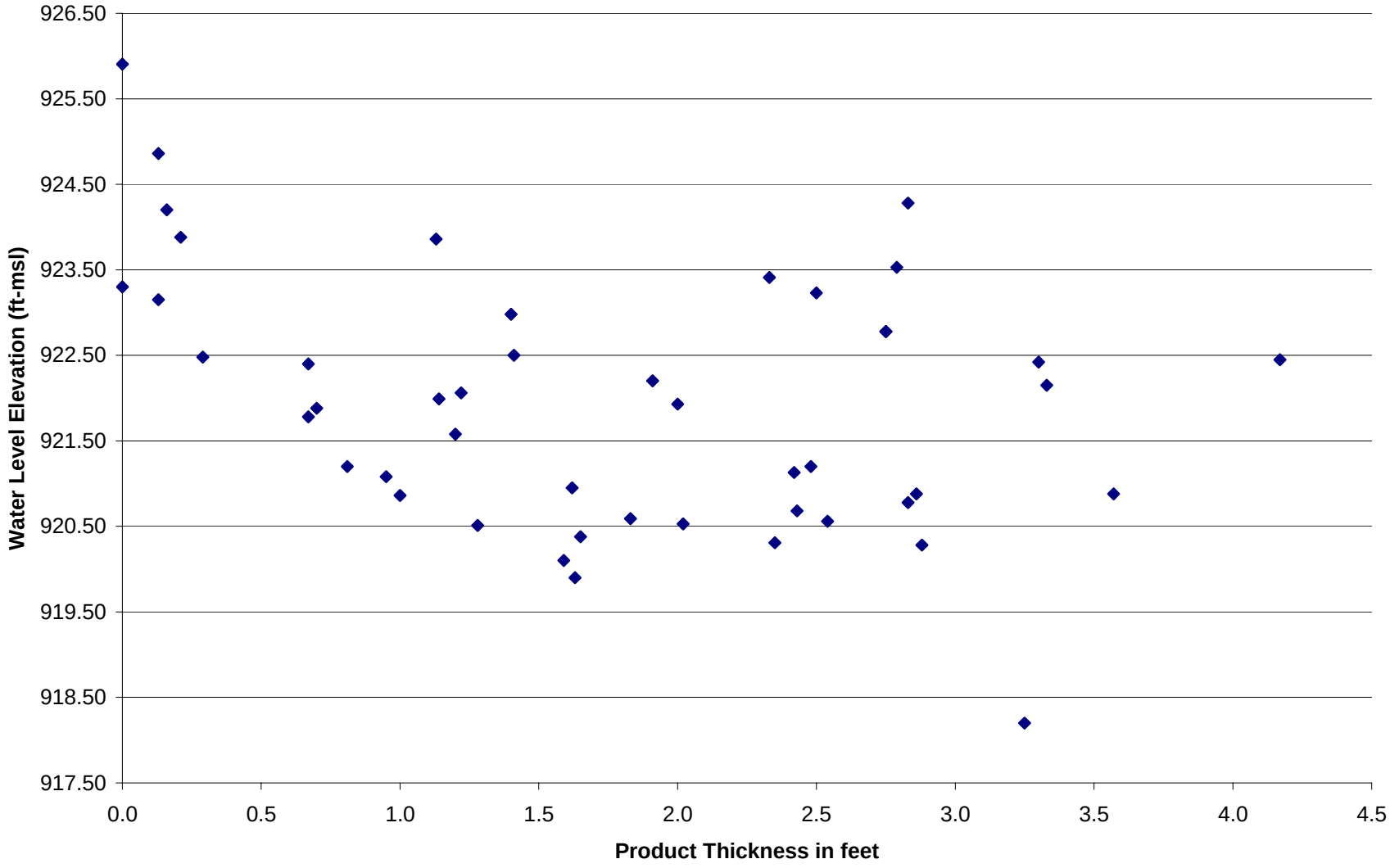


Merged with ENSR in 2007

RETEC

THE BNSF RAILWAY COMPANY SKYKOMISH, WASHINGTON 01140-204-0340	PRODUCT THICKNESS VERSUS GROUNDWATER ELEVATION IN WELL 5-W-3
Date: 01/2008 File:	FIGURE 5-6

ENSR

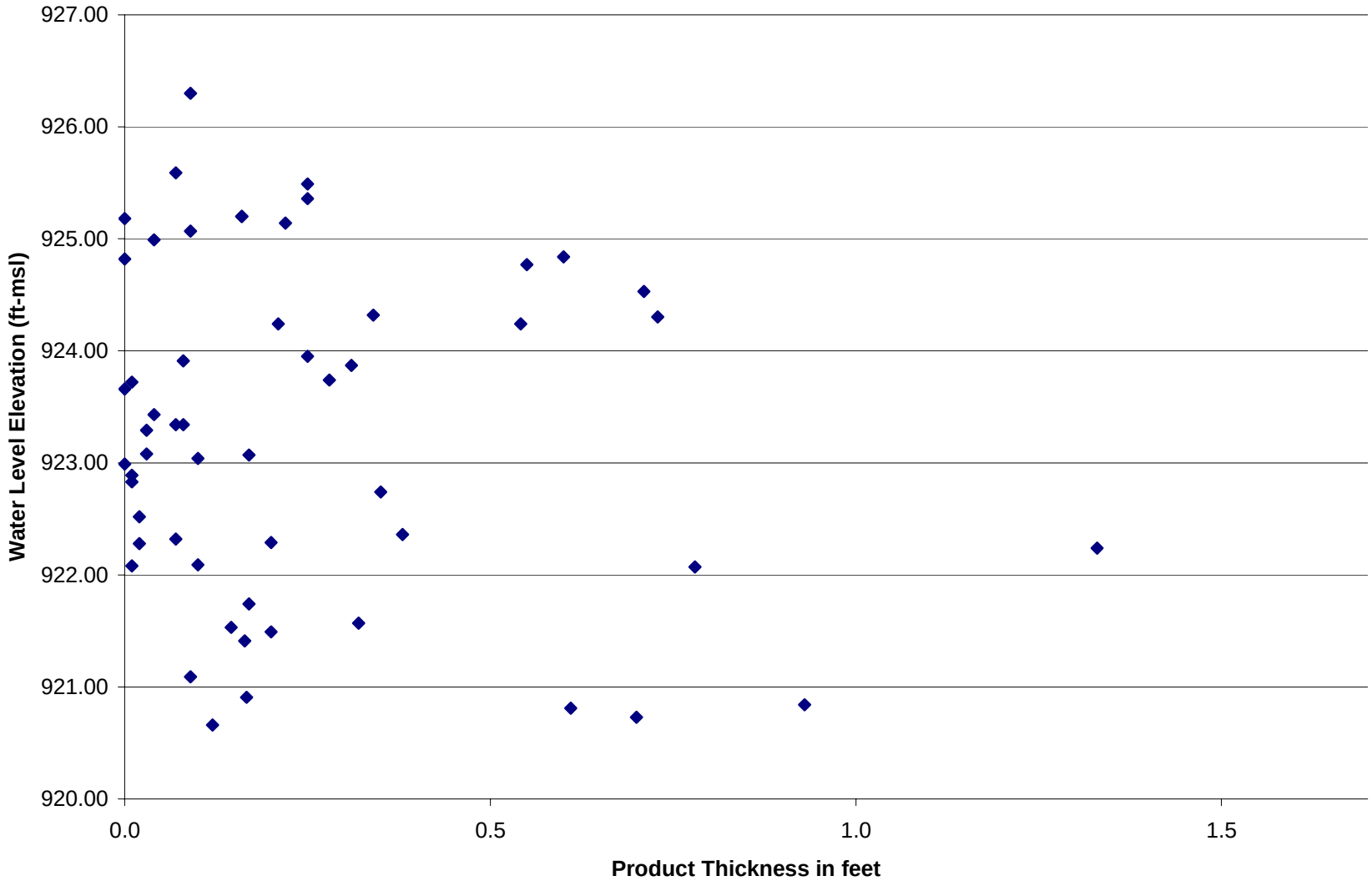


Merged with ENSR in 2007

RETEC

THE BNSF RAILWAY COMPANY SKYKOMISH, WASHINGTON 01140-204-0340	PRODUCT THICKNESS VERSUS GROUNDWATER ELEVATION IN WELL MW-8
Date: 01/2008 File:	FIGURE 5-7

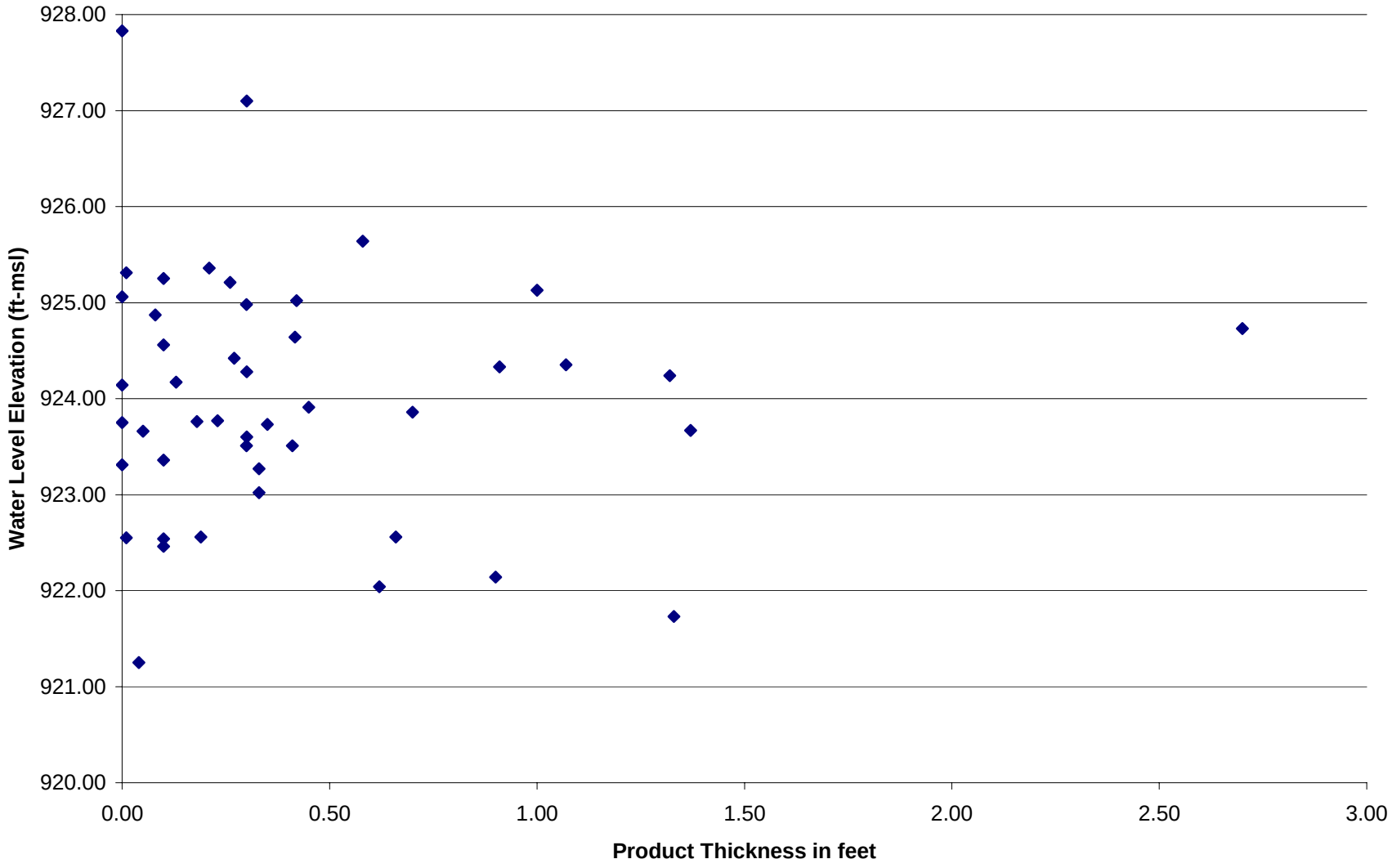
ENSR



Merged with ENSR in 2007
RETEC

THE BNSF RAILWAY COMPANY SKYKOMISH, WASHINGTON 01140-204-0340		PRODUCT THICKNESS VERSUS GROUNDWATER ELEVATION IN WELL MW-20
Date: 01/2008	File:	FIGURE 5-8

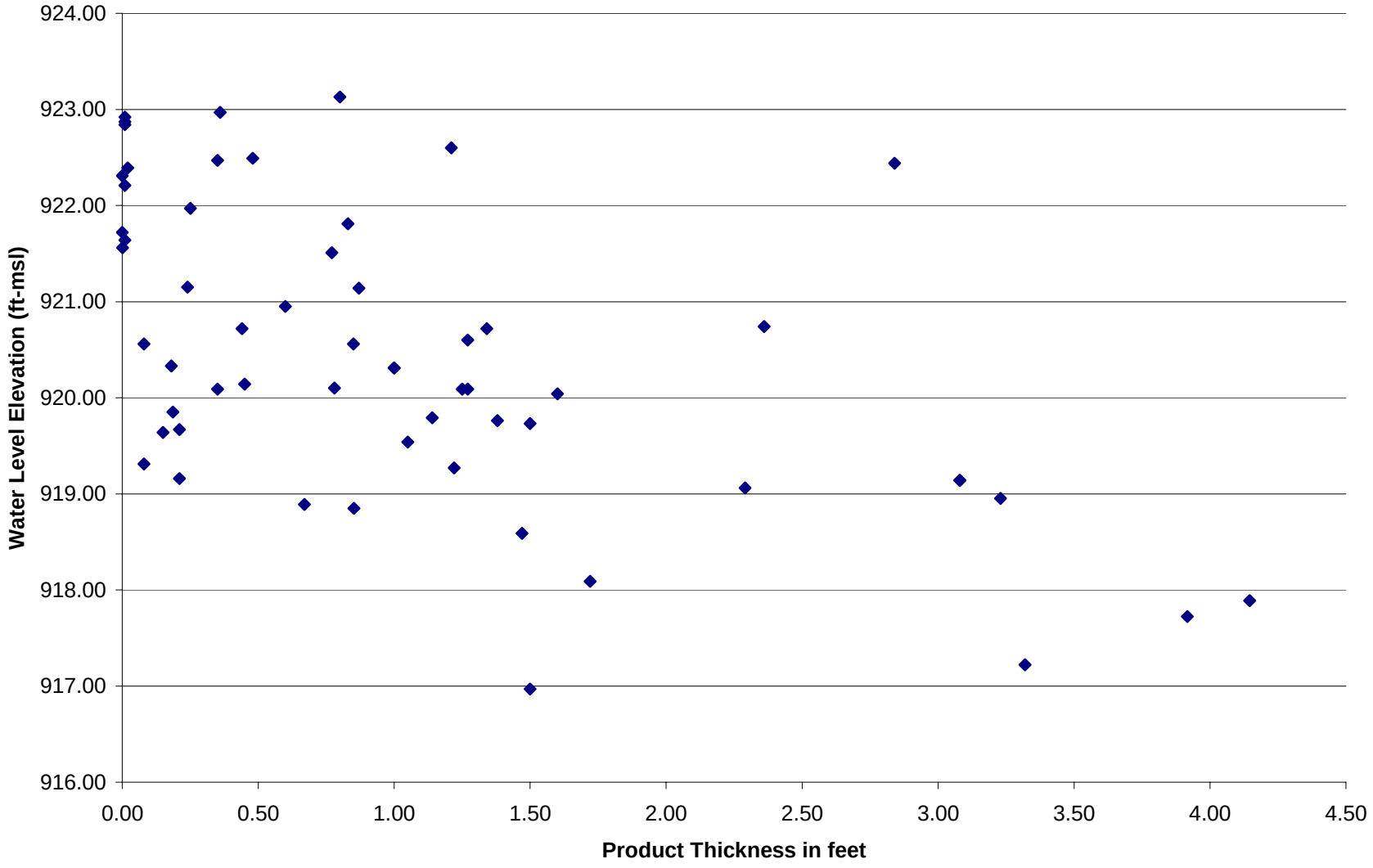
ENSR



Merged with ENSR in 2007
RETEC

THE BNSF RAILWAY COMPANY SKYKOMISH, WASHINGTON 01140-204-0340	PRODUCT THICKNESS VERSUS GROUNDWATER ELEVATION IN WELL MW-21
Date: 01/2008 File:	FIGURE 5-9

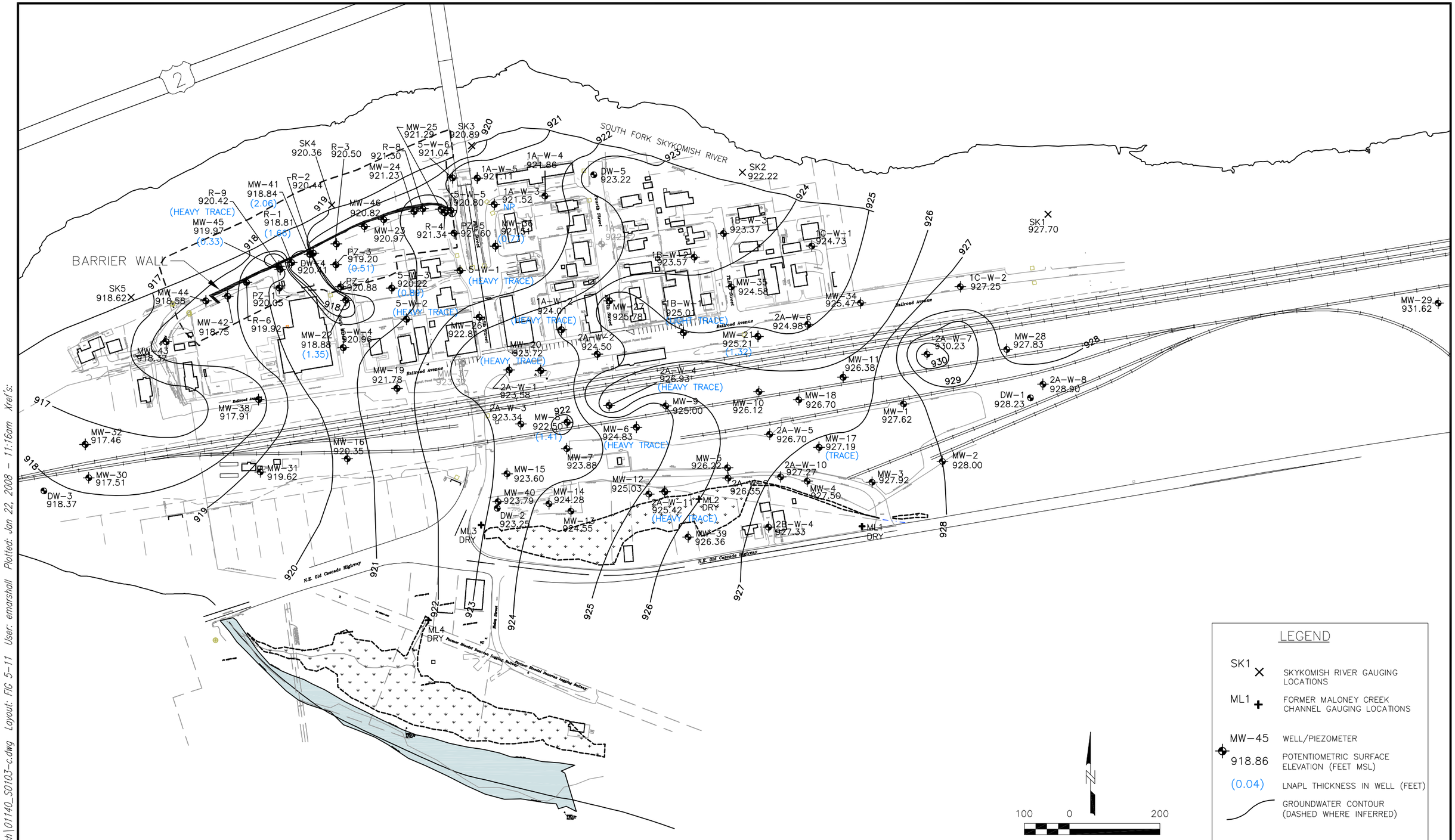
ENSR



Merged with ENSR in 2007

RETEC

THE BNSF RAILWAY COMPANY SKYKOMISH, WASHINGTON 01140-204-0340		PRODUCT THICKNESS VERSUS GROUNDWATER ELEVATION IN WELL MW-36
Date: 01/2008	File:	FIGURE 5-10



ENSR | AECOM

Merged with ENSR in 2007
RETEC

THE BNSF RAILWAY COMPANY
SKYKOMISH, WASHINGTON

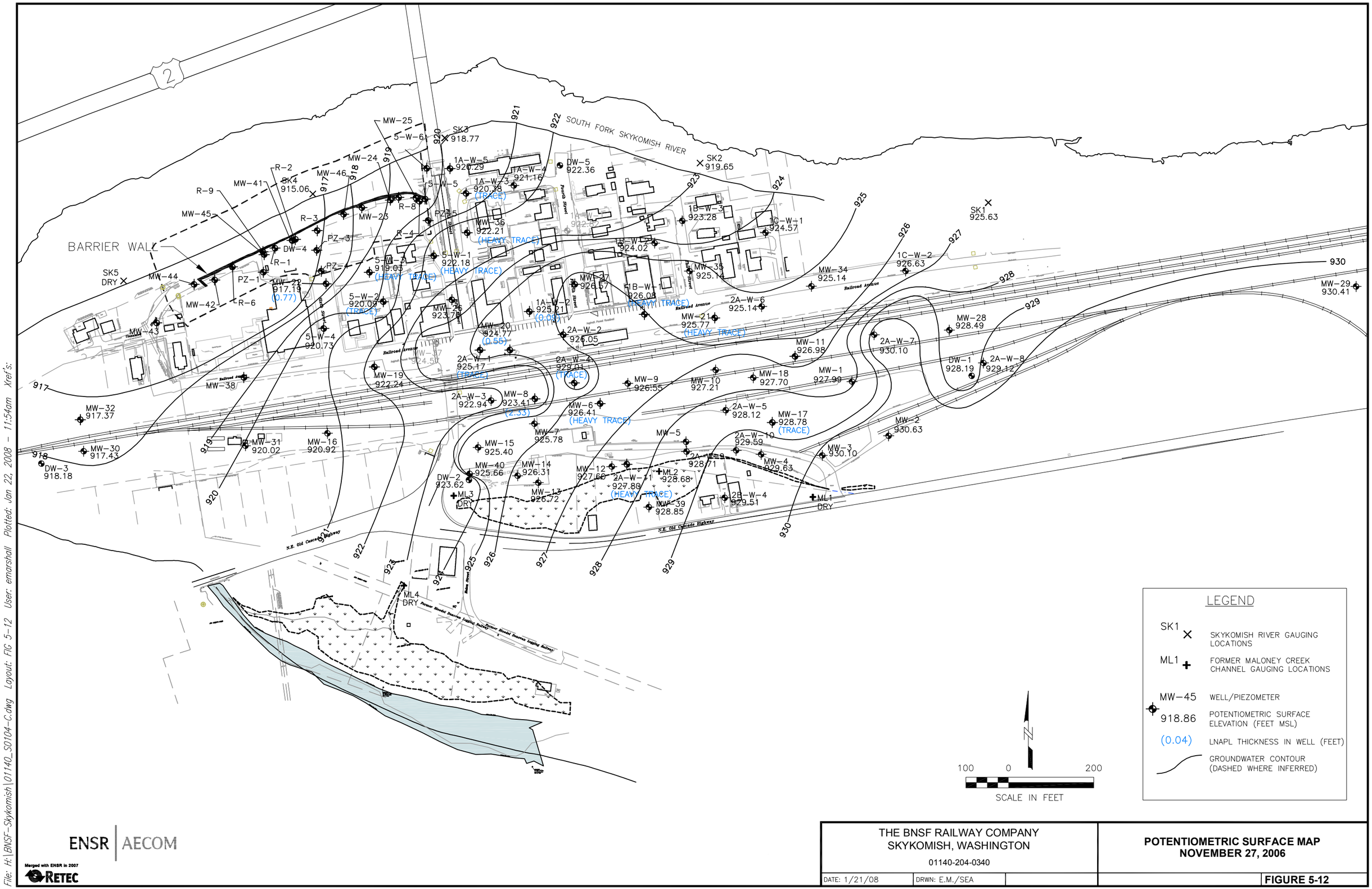
01140-204-0340

DATE: 1/22/08 | DRWN: E.M./SEA

POTENTIOMETRIC SURFACE MAP
MAY 22, 2006

FIGURE 5-11

File: H:\BNSF-Skykomish\01140_S0103-c.dwg Layout: FIG 5-11 User: emarshall Plotted: Jan 22, 2008 - 11:16am Xref's:



ENSR | AECOM

Merged with ENSR in 2007
RETEC

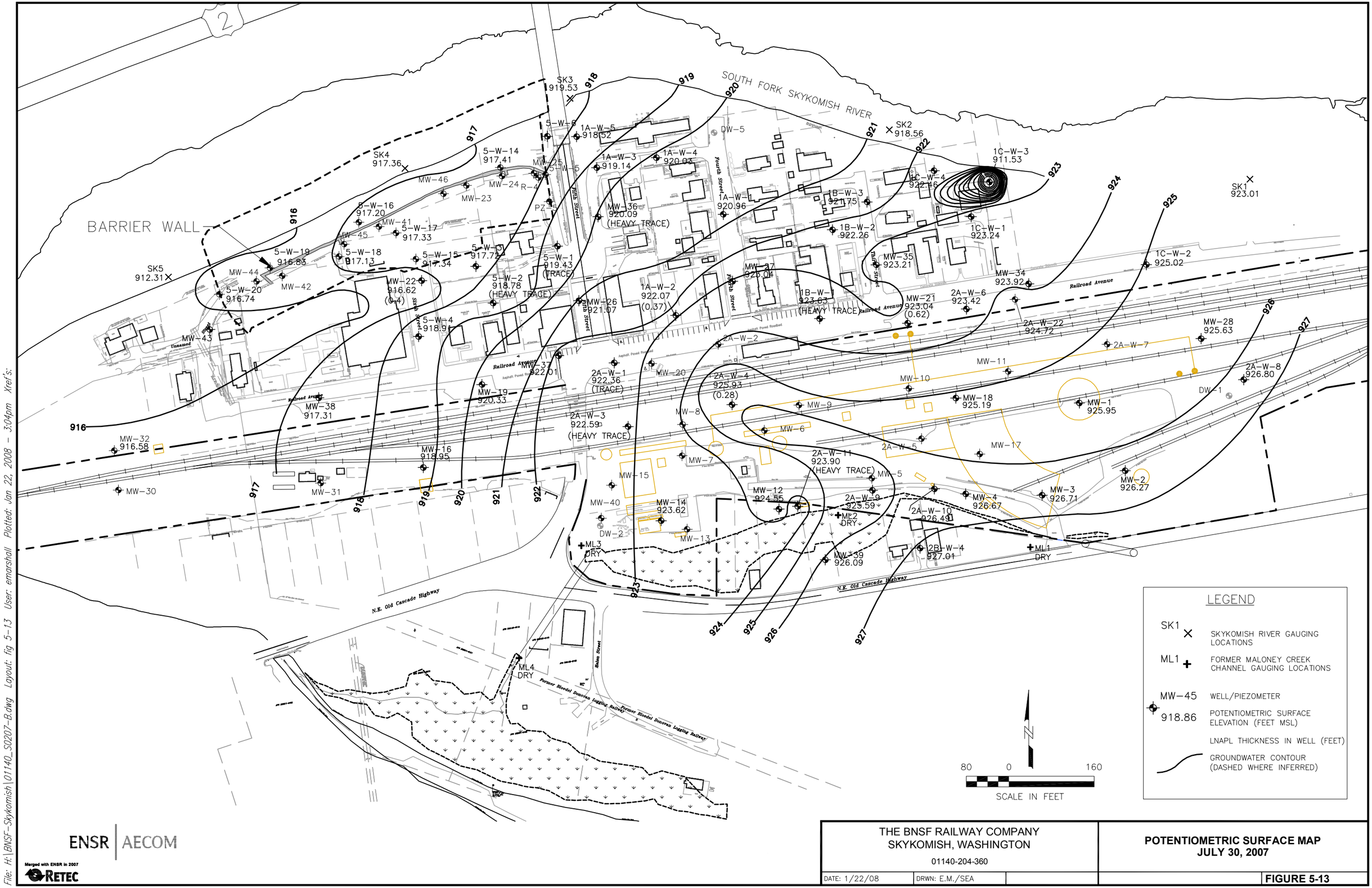
THE BNSF RAILWAY COMPANY
SKYKOMISH, WASHINGTON
01140-204-0340

DATE: 1/21/08 | DRWN: E.M./SEA

POTENTIOMETRIC SURFACE MAP
NOVEMBER 27, 2006

FIGURE 5-12

File: H:\BNSF-Skykomish\01140_S0104-C.dwg Layout: FIG 5-12 User: emarshall Plotted: Jan 22, 2008 - 11:54am Xref's:



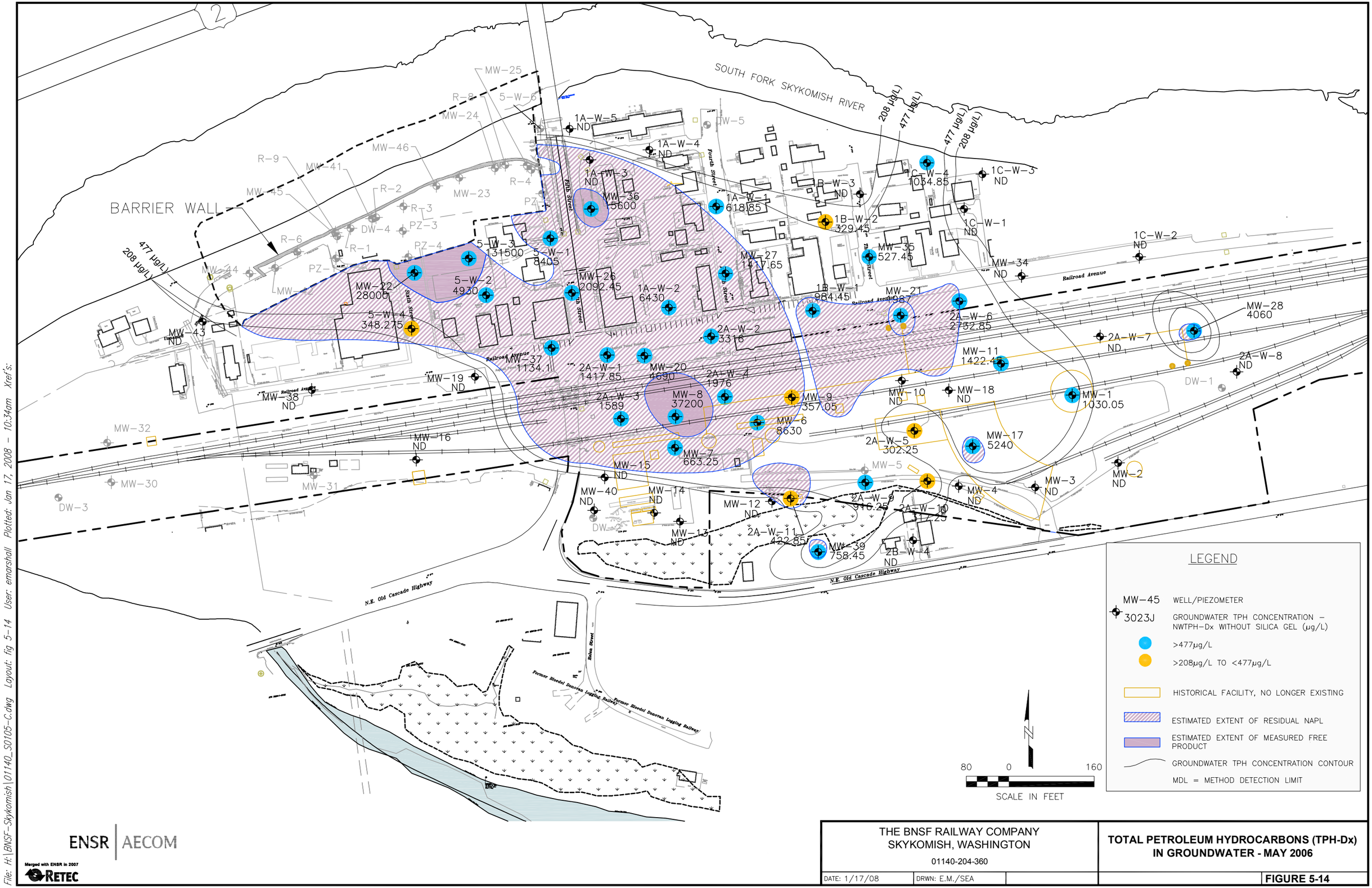
THE BNSF RAILWAY COMPANY
SKYKOMISH, WASHINGTON
01140-204-360

DATE: 1/22/08 | DRWN: E.M./SEA

POTENTIOMETRIC SURFACE MAP
JULY 30, 2007

FIGURE 5-13

File: H:\BNSF-Skykomish\01140_S0207-B.dwg Layout: fig 5-13 User: emarshall Plotted: Jan 22, 2008 - 3:04pm Xref's:

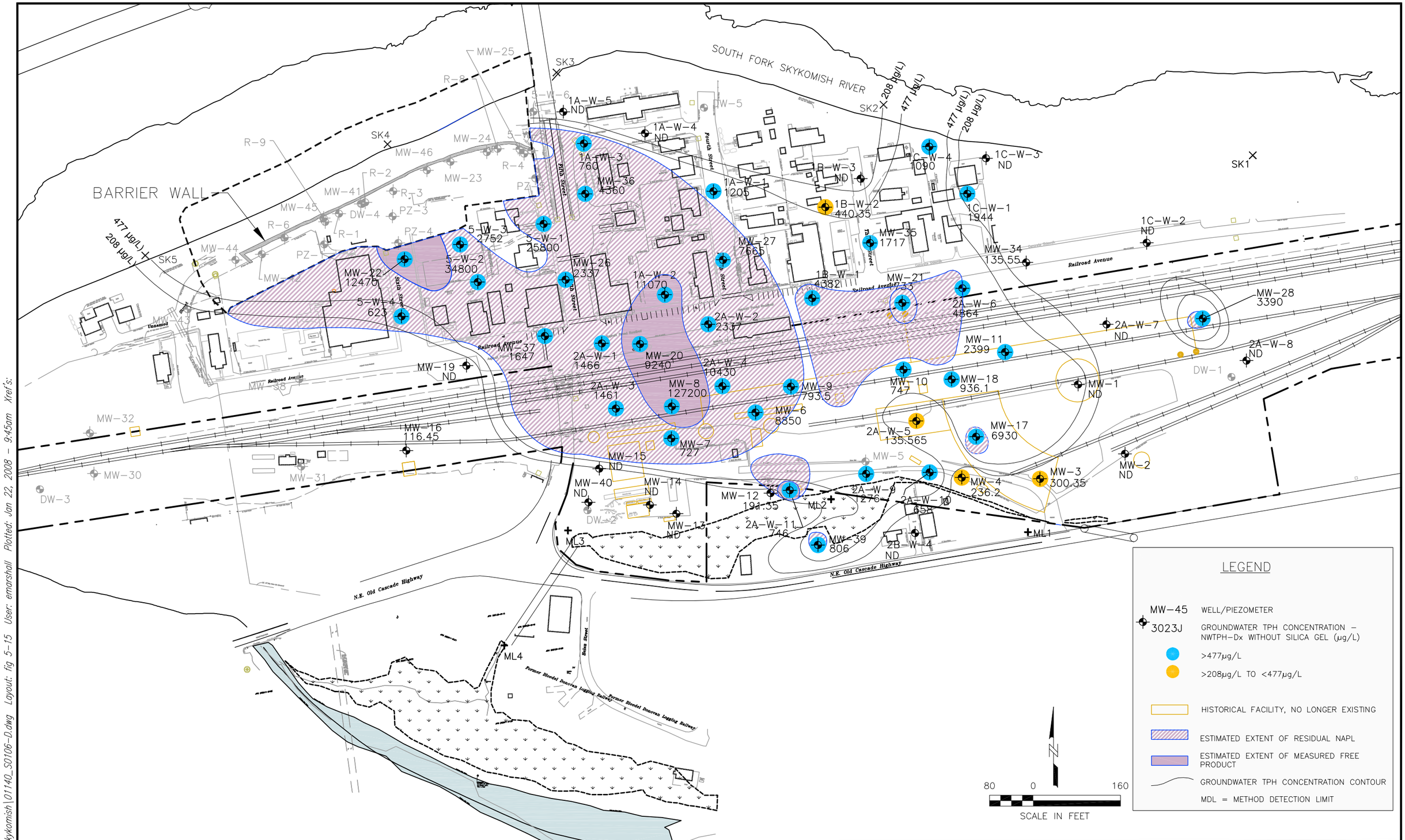


ENSR | AECOM

Merged with ENSR in 2007
RETEC

THE BNSF RAILWAY COMPANY SKYKOMISH, WASHINGTON 01140-204-360			TOTAL PETROLEUM HYDROCARBONS (TPH-Dx) IN GROUNDWATER - MAY 2006
DATE: 1/17/08	DRWN: E.M./SEA		FIGURE 5-14

File: H:\BNSF-Skykomish\01140_S0105-C.dwg Layout: fig 5-14 User: emarshall Plotted: Jan 17, 2008 – 10:34am Xref's:

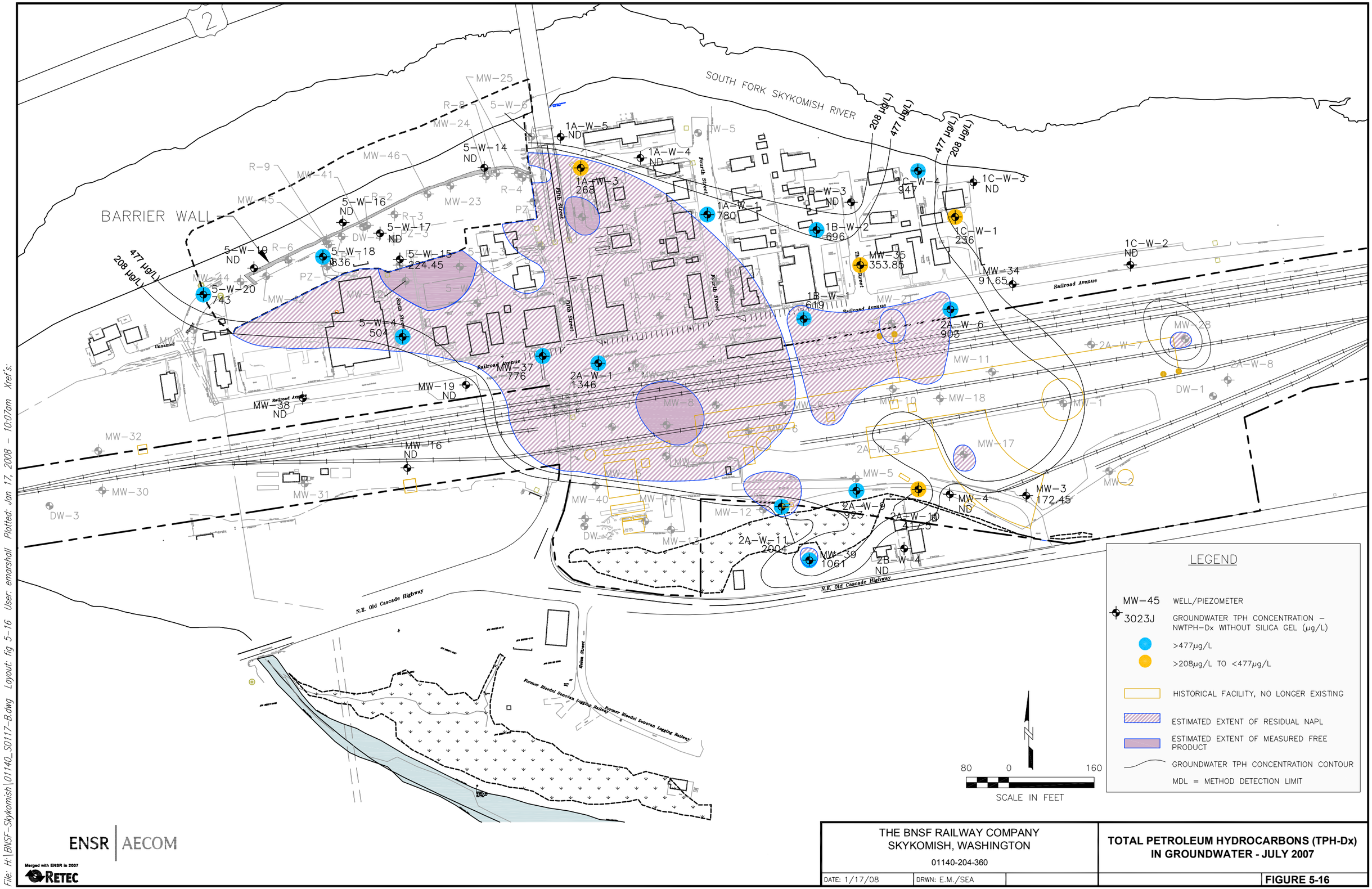


ENSR | AECOM

Merged with ENSR in 2007
RETEC

THE BNSF RAILWAY COMPANY SKYKOMISH, WASHINGTON 01140-204-360			TOTAL PETROLEUM HYDROCARBONS (TPH-Dx) IN GROUNDWATER - NOVEMBER 2006
DATE: 1/22/08	DRWN: E.M./SEA		FIGURE 5-15

File: H:\BNSF-Skykomish\01140_S0106-D.dwg Layout: fig 5-15 User: emarshall Plotted: Jan 22, 2008 - 9:45am Xref's:



ENSR | AECOM

Merged with ENSR in 2007
RETEC

THE BNSF RAILWAY COMPANY
SKYKOMISH, WASHINGTON
01140-204-360

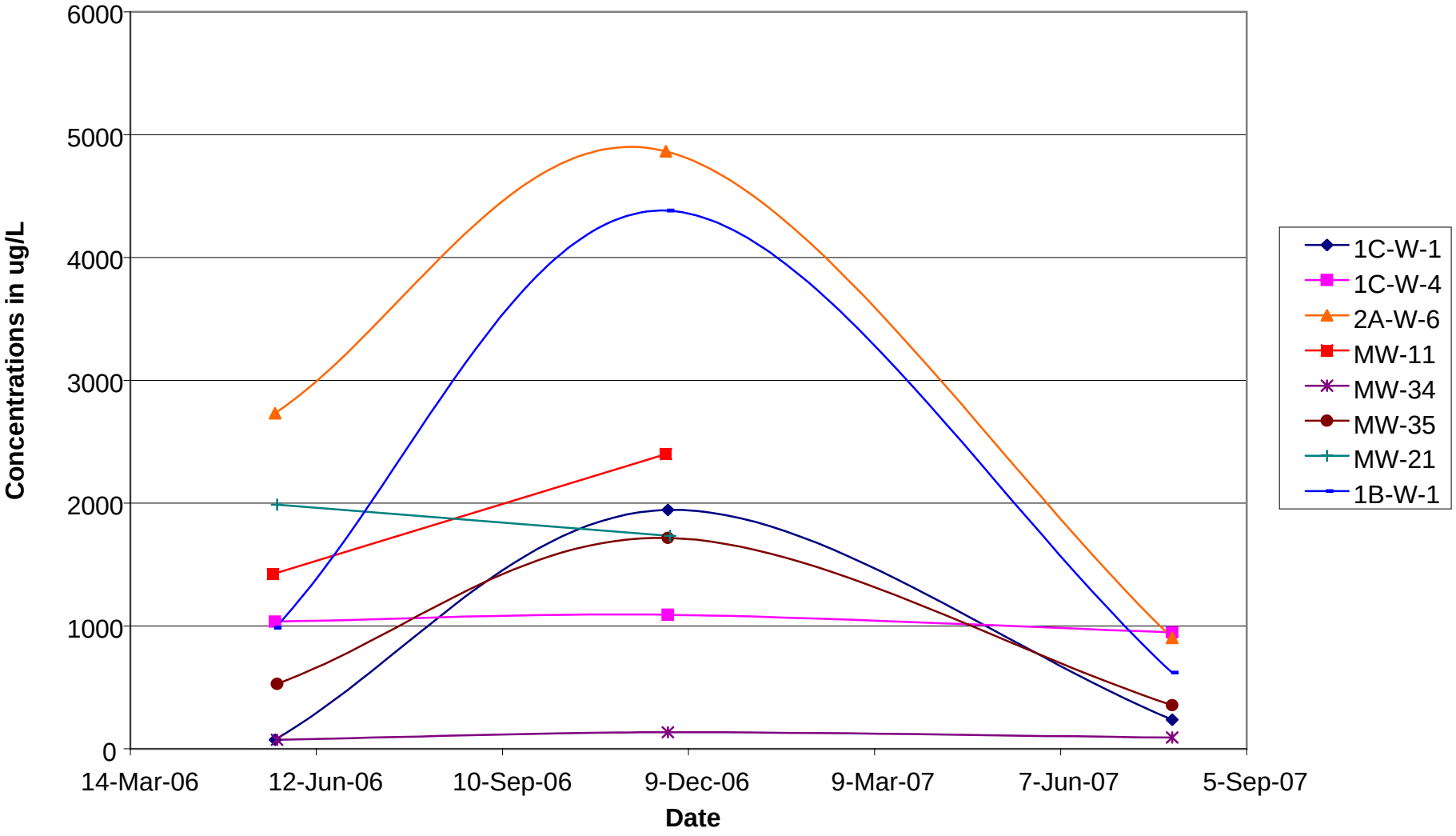
DATE: 1/17/08 | DRWN: E.M./SEA

TOTAL PETROLEUM HYDROCARBONS (TPH-Dx) IN GROUNDWATER - JULY 2007

FIGURE 5-16

File: H:\BNSF-Skykomish\01140_S0117-B.dwg Layout: fig 5-16 User: emarshall Plotted: Jan 17, 2008 – 10:07am Xref's:

ENSR

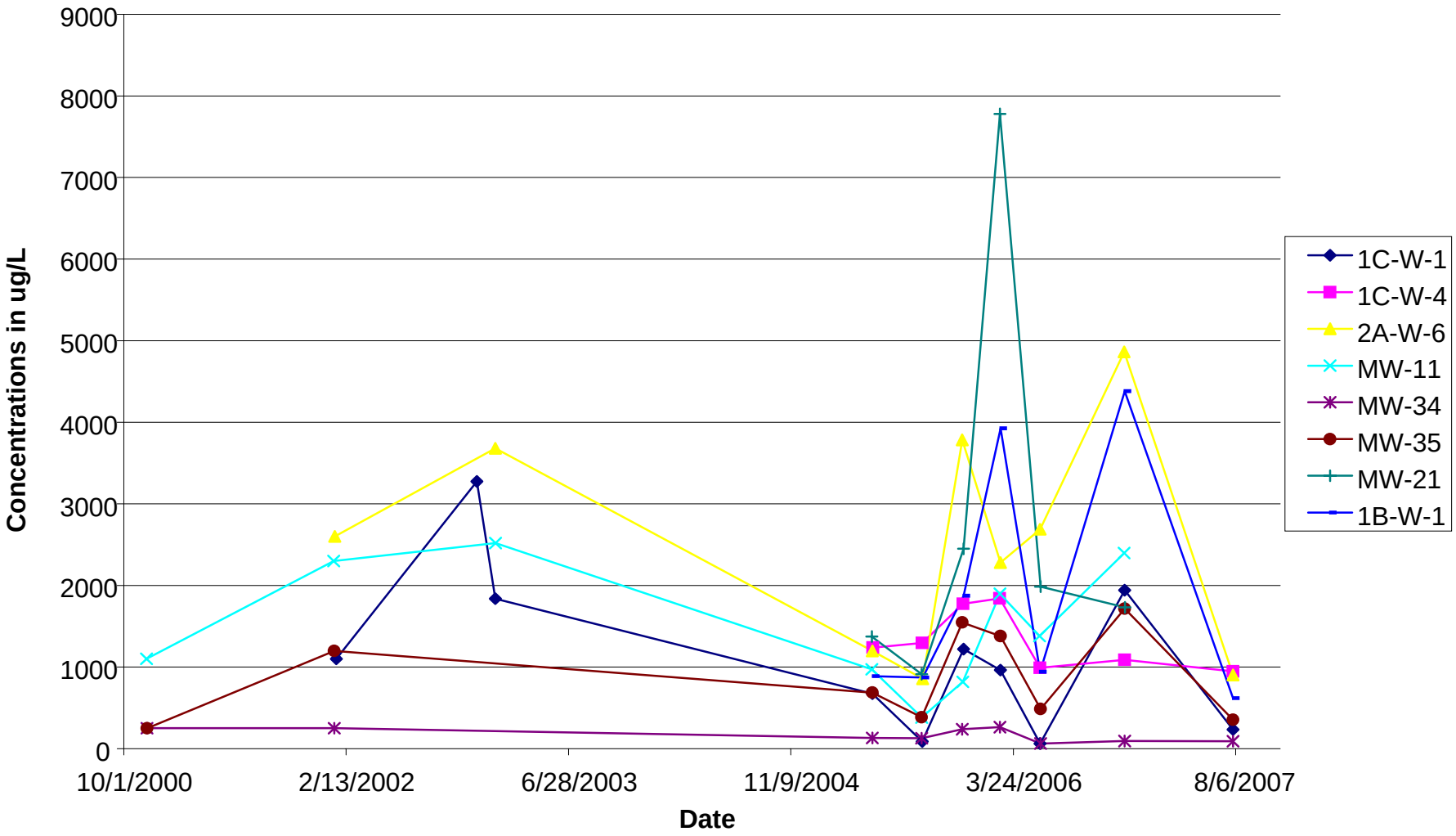


Merged with ENSR in 2007

RETEC

THE BNSF RAILWAY COMPANY SKYKOMISH, WASHINGTON 01140-204-0340		TPH CONCENTRATIONS IN SELECT WELLS VERSUS TIME
Date: 01/2008	File:	FIGURE 5-17

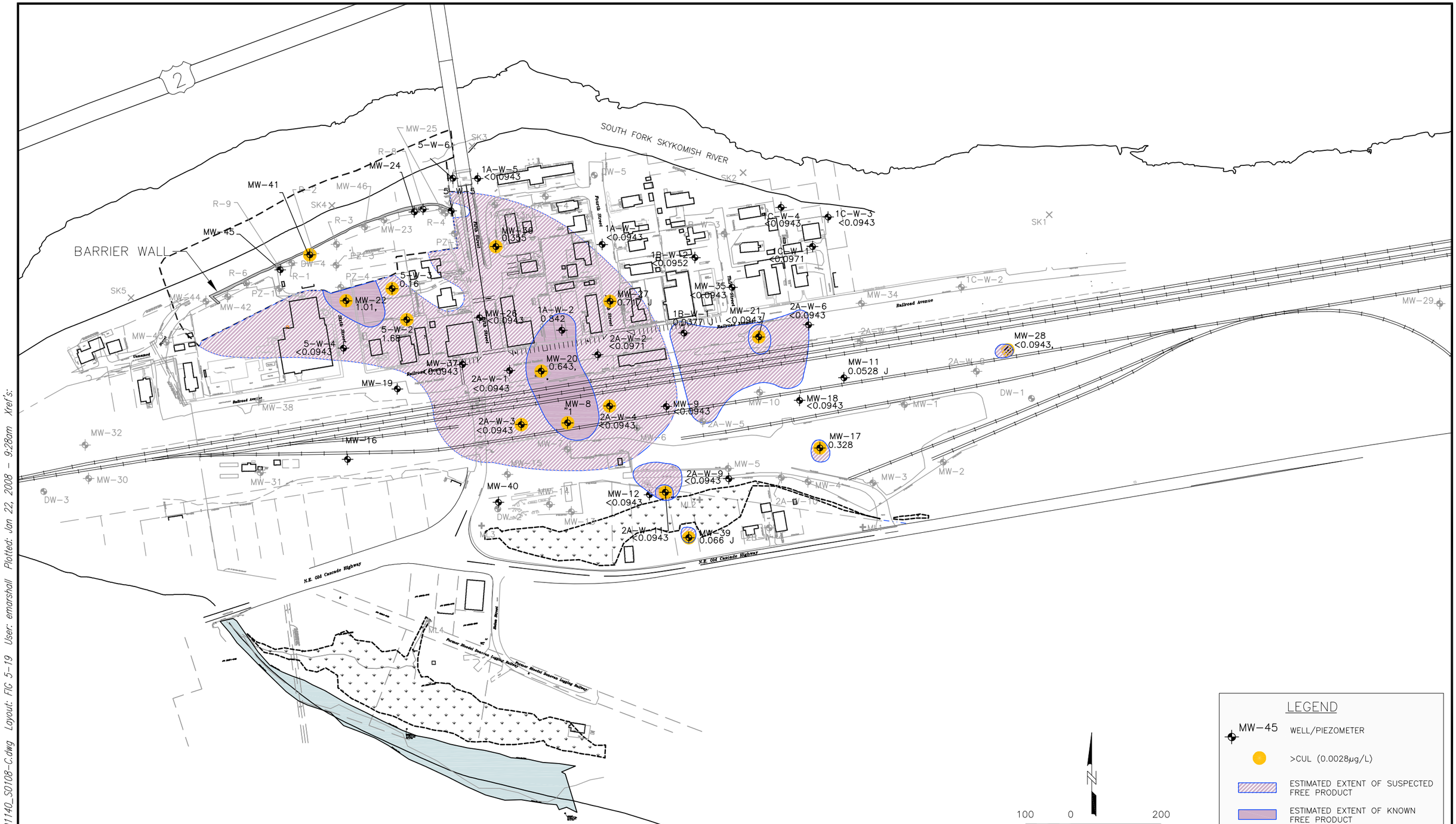
ENSR



Merged with ENSR in 2007

RETEC

THE BNSF RAILWAY COMPANY SKYKOMISH, WASHINGTON 01140-204-0340		TPH CONCENTRATIONS IN SELECT WELLS VERSUS TIME WITH PREVIOUS TPH DATA
Date: 01/2008	File:	FIGURE 5-18



ND = NOT DETECTED
CUL = CLEANUP LEVEL

ENSR | AECOM

Merged with ENSR in 2007
RETEC

THE BNSF RAILWAY COMPANY SKYKOMISH, WASHINGTON 01140-204-0340			PAH - CHRYSENE NOVEMBER 2006
DATE: 1/22/08	DRWN: E.M./SEA		FIGURE 5-19

File: H:\BNSF-Skykomish\01140_S0108-C.dwg Layout: FIG 5-19 User: emarshall Plotted: Jan 22, 2008 - 9:28am Xref's:

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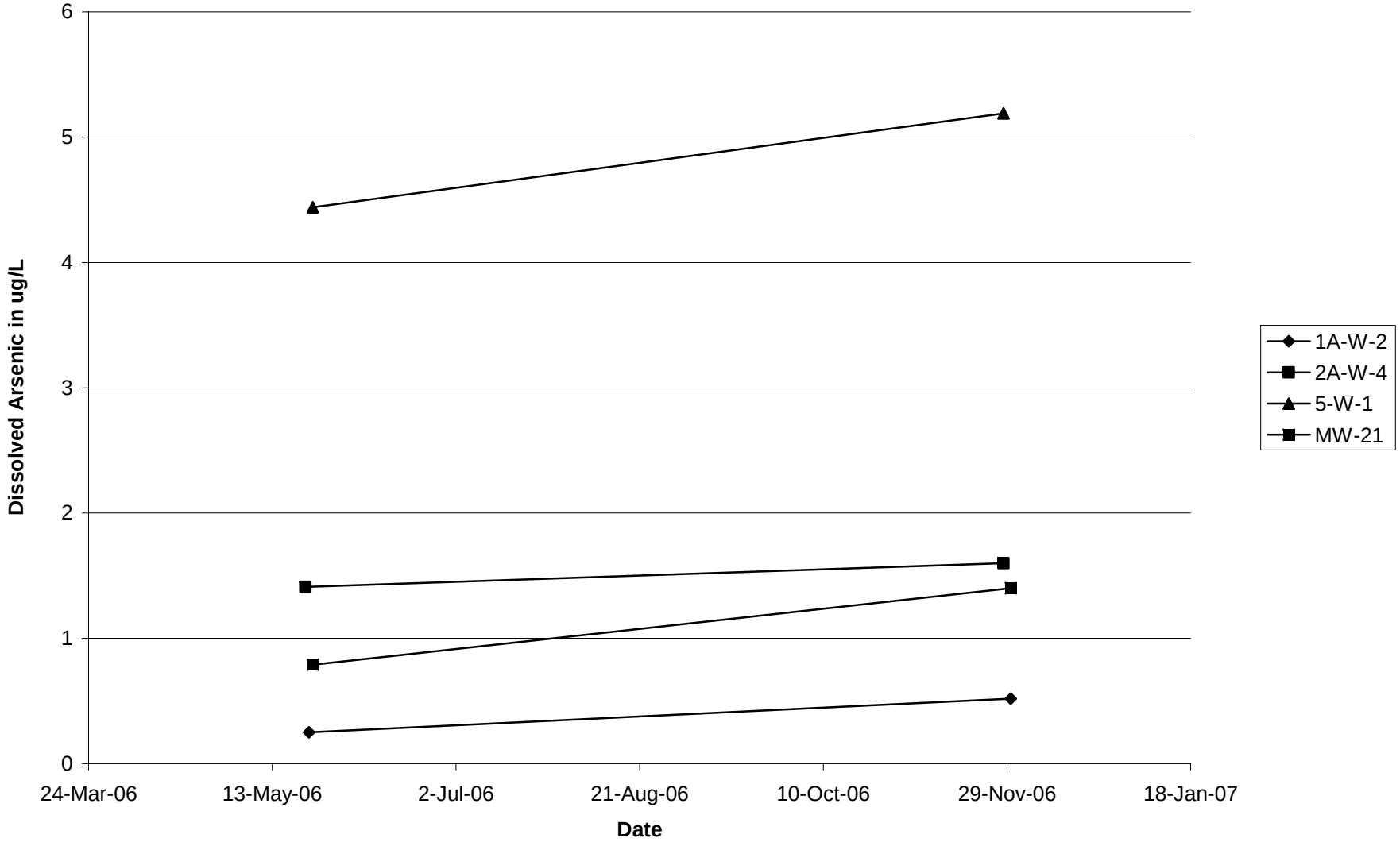


Merged with ENSR in 2007

RETEC

THE BNSF RAILWAY COMPANY SKYKOMISH, WASHINGTON 01140-204-0340	DISSOLVED ARSENIC VERSUS TIME IN SELECT WELLS
Date: 01/2008 File:	FIGURE 5-20

ENSR | AECOM

Merged with ENSR in 2007 RETEC

THE BNSF RAILWAY COMPANY
SKYKOMISH, WASHINGTON

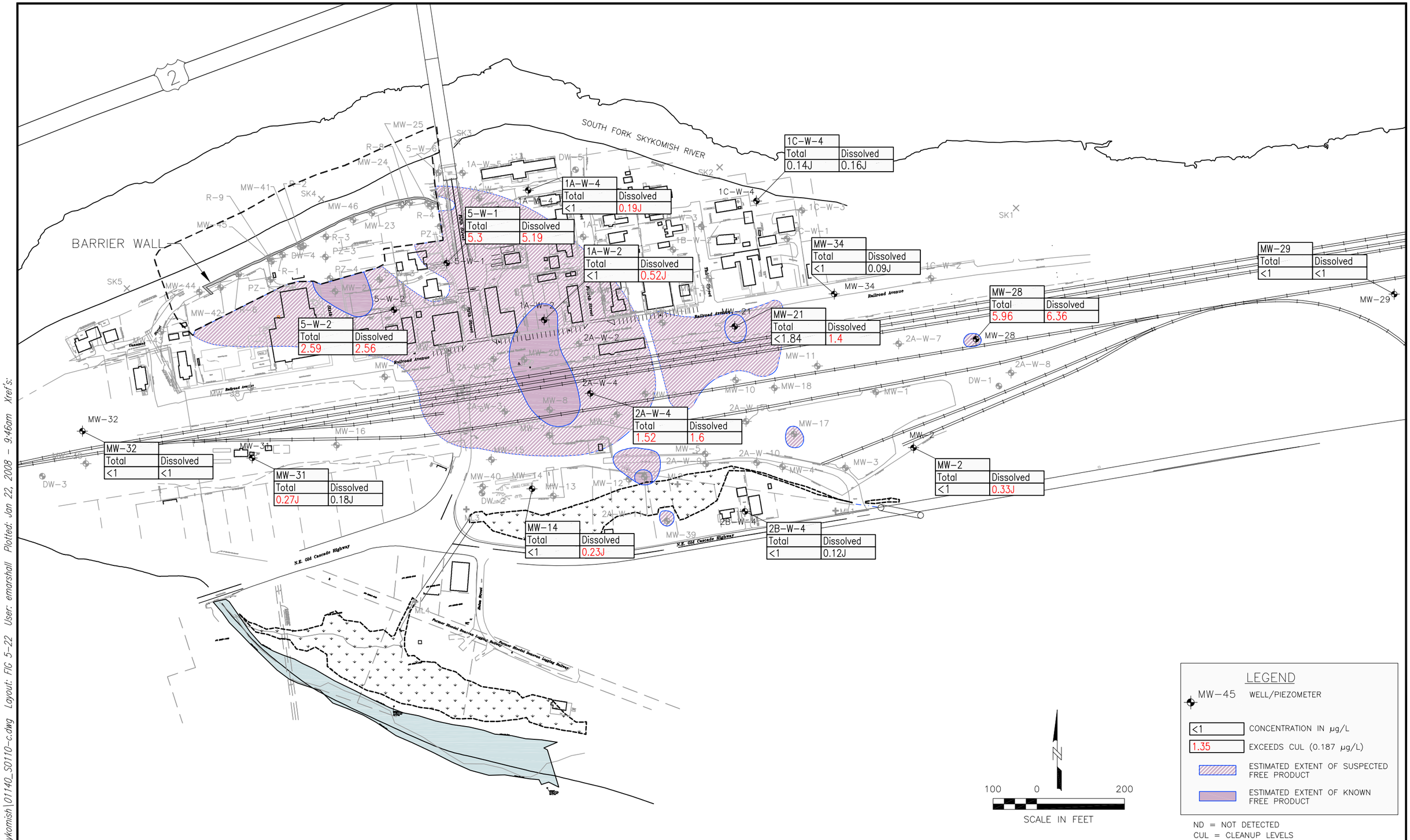
01140-204-0340

DATE: 1/22/08 | DRWN: E.M./SEA

TOTAL AND DISSOLVED ARSENIC
MAY 2006

FIGURE 5-21

File: H:\BNSF-Skykomish\01140_S0109-c.dwg Layout: FIG 5-21 User: emarshall Plotted: Jan 22, 2008 - 9:49am Xref's:



ENSR | AECOM

Merged with ENSR in 2007
RETEC

THE BNSF RAILWAY COMPANY
SKYKOMISH, WASHINGTON

01140-204-0320

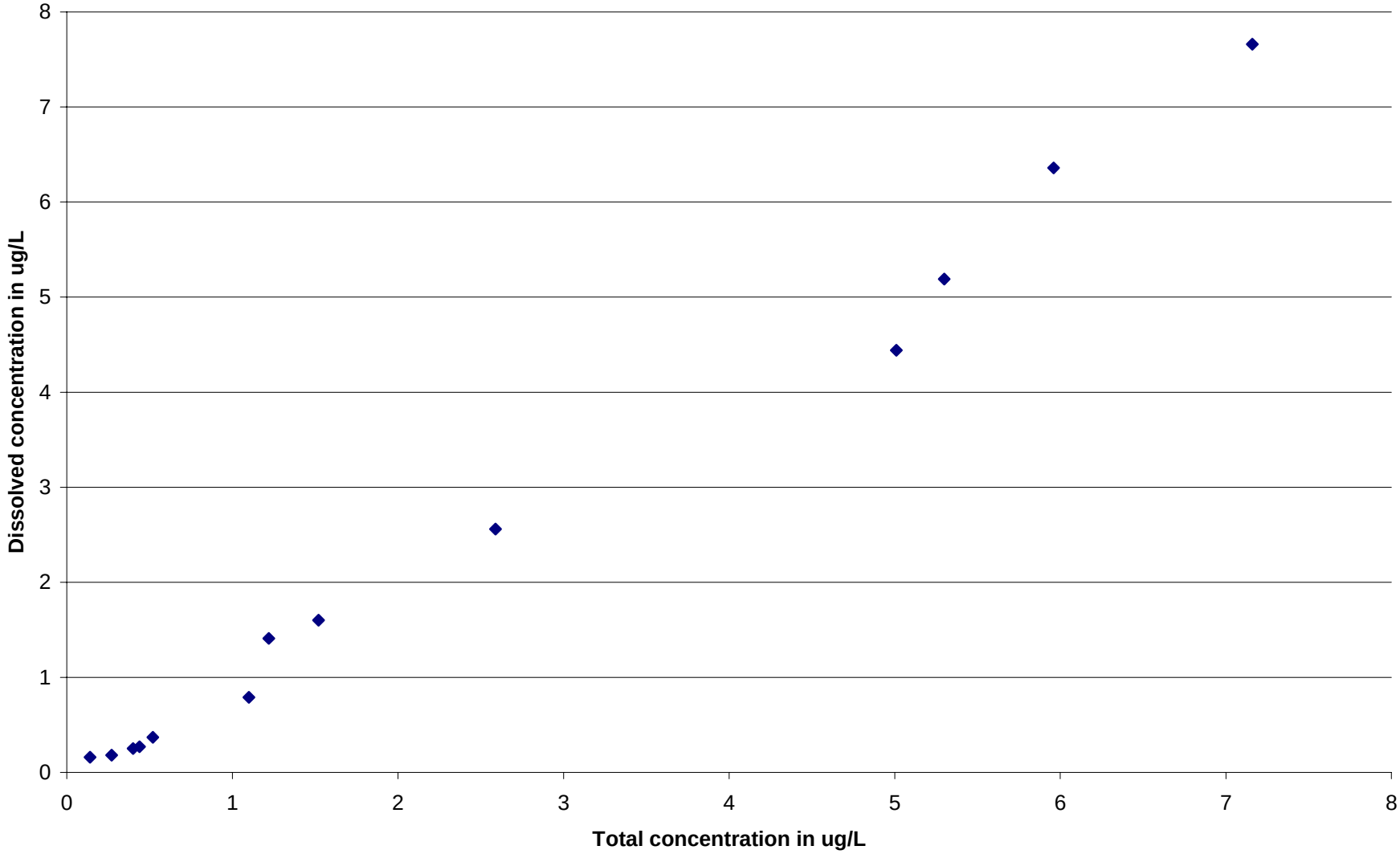
DATE: 1/22/08 | DRWN: E.M./SEA

TOTAL AND DISSOLVED ARSENIC
NOVEMBER 2006

FIGURE 5-22

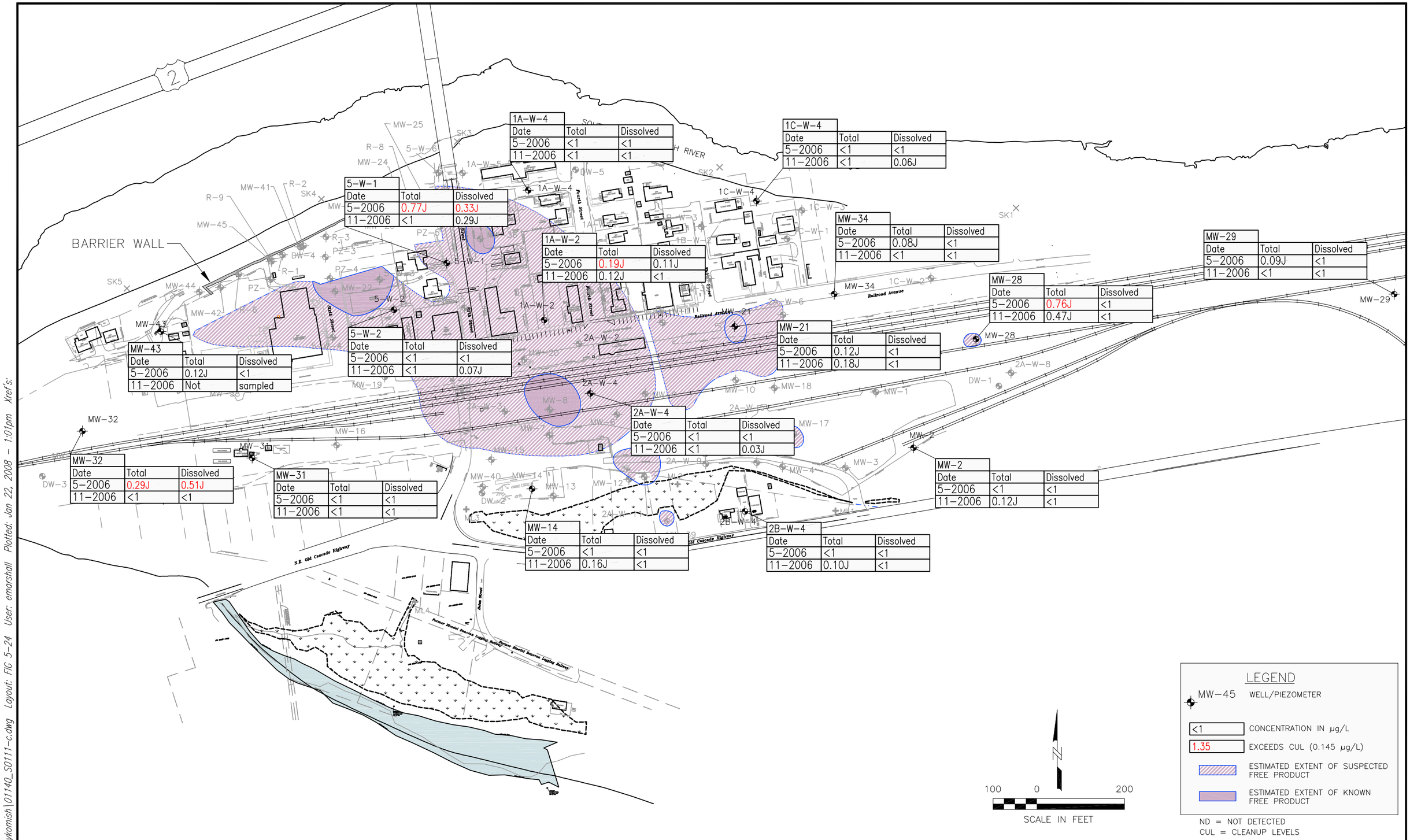
File: H:\BNSF-Skykomish\01140_S0110-c.dwg Layout: FIG 5-22 User: emarshall Plotted: Jan 22, 2008 - 9:46am Xref's:

ENSR



Merged with ENSR in 2007
RETEC

THE BNSF RAILWAY COMPANY SKYKOMISH, WASHINGTON 01140-204-0340		TOTAL VS. DISSOLVED ARSENIC
Date: 01/2008	File:	FIGURE 5-23



1A-W-4		
Date	Total	Dissolved
5-2006	<1	<1
11-2006	<1	<1

1C-W-4		
Date	Total	Dissolved
5-2006	<1	<1
11-2006	<1	0.06J

5-W-1		
Date	Total	Dissolved
5-2006	0.77J	0.33J
11-2006	<1	0.29J

1A-W-2		
Date	Total	Dissolved
5-2006	0.19J	0.11J
11-2006	0.12J	<1

MW-34		
Date	Total	Dissolved
5-2006	0.08J	<1
11-2006	<1	<1

MW-29		
Date	Total	Dissolved
5-2006	0.09J	<1
11-2006	<1	<1

MW-28		
Date	Total	Dissolved
5-2006	0.76J	<1
11-2006	0.47J	<1

MW-43		
Date	Total	Dissolved
5-2006	0.12J	<1
11-2006	Not	sampled

5-W-2		
Date	Total	Dissolved
5-2006	<1	<1
11-2006	<1	0.07J

MW-21		
Date	Total	Dissolved
5-2006	0.12J	<1
11-2006	0.18J	<1

2A-W-4		
Date	Total	Dissolved
5-2006	<1	<1
11-2006	<1	0.03J

MW-32		
Date	Total	Dissolved
5-2006	0.29J	0.51J
11-2006	<1	<1

MW-31		
Date	Total	Dissolved
5-2006	<1	<1
11-2006	<1	<1

MW-2		
Date	Total	Dissolved
5-2006	<1	<1
11-2006	0.12J	<1

MW-14		
Date	Total	Dissolved
5-2006	<1	<1
11-2006	0.16J	<1

2B-W-4		
Date	Total	Dissolved
5-2006	<1	<1
11-2006	0.10J	<1

LEGEND

MW-45 WELL/PIEZOMETER

<1 CONCENTRATION IN µg/L

1.35 EXCEEDS CUL (0.145 µg/L)

ESTIMATED EXTENT OF SUSPECTED FREE PRODUCT

ESTIMATED EXTENT OF KNOWN FREE PRODUCT

ND = NOT DETECTED
CUL = CLEANUP LEVELS

N

100 0 200

SCALE IN FEET

ENSR | AECOM

Merged with ENSR in 2007
RETEC

THE BNSF RAILWAY COMPANY
SKYKOMISH, WASHINGTON

01140-204-0340

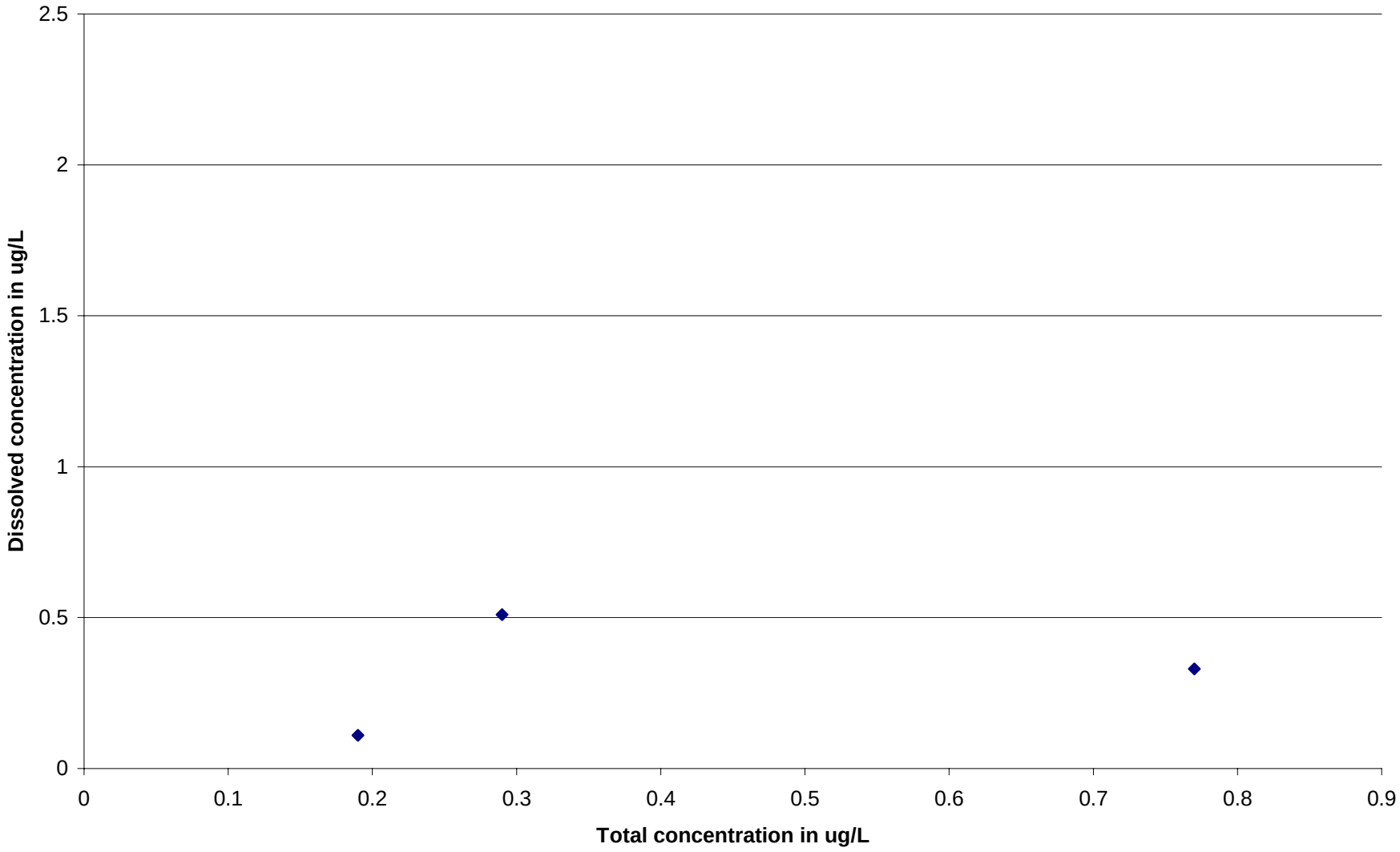
DATE: 1/22/08 DRWN: E.M./SEA

TOTAL AND DISSOLVED LEAD
MAY 2006 AND NOVEMBER 2006

FIGURE 5-24

File: H:\BNSF-Skykomish\01140_S0111-c.dwg Layout: FIG 5-24 User: emarshall Plotted: Jan 22, 2008 - 1:01pm Xref's:

ENSR



Merged with ENSR in 2007
RETEC

THE BNSF RAILWAY COMPANY SKYKOMISH, WASHINGTON 01140-204-0340	TOTAL VS. DISSOLVED LEAD
Date: 01/2008 File:	FIGURE 5-25