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ENVIRONMENTAL TEST PIT LOG

DRAFT

Test Pit No. TP-10-01

Page 1 **of** 1

PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	4-Jan-2011
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Mostly Sunny w/Snow Showers, 30s°F

Ground El. Range from 404.6 to 406.9 ft. **Location** See Plan

El. Datum NYS Barge Canal

Groundwater depths/entry rates (in./min.): ~0.3 in./min.

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
			0.5		-TOPSOIL/ROOT MAT-										
		0.0		SM	Light brown to yellow-brown silty SAND with gravel, 5% brick, no odor, moist	15	15	15	10	20	20	-	-	-	-
			3.0												
		0.8		SM	Gray to black silty SAND with gravel, ~5% total brick and CLM, slight petroleum-like odor, moist	15	20	10	10	20	20	-	-	-	-
4					concrete Holder #11 floor										
	S1 6' - 8'				White to green-blue to tan LIME pocket no odor, moist (PID=0.5)										
	S2 6' - 8'														
					@ 7.6 ft approx										
8			8.5		Black ORGANIC SOIL and decomposed WOOD CHIPS, MGP-like odor w/naphthalene-like undertones, moist (PID=1.0)										
	S3 8.5' - 10.5'														
		0.0		SM	Yellow-brown to orange-brown silty SAND, no odor, wet at 11.5 ft, no sheen on groundwater surface	-	-	5	5	50	40	-	-	-	-
12					Note: Sidewalls continually caving in at 11.5 ft, unable to advance past 16.0 ft										
			16.0												
16					Bottom of excavation at 16.0 ft										
20															
24															
28															

Obstructions:

Remarks:

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth 11.5 ft.

measured after 0.25 hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	3	=	1
over 24	-	=	-

Test Pit Dimensions (ft.):

Pit Depth 16.0

Pit Length X Width 87.0 x 7.0

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

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Test Pit No. TP-10-02 (west)

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PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	20-Dec-2010
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Partly Sunny, 20s°F

Ground El. Range from 412.2 to 415.1 ft. **Location** See Plan

El. Datum NYS Barge Canal

Groundwater depths/entry rates (in./min.): ~0.5 in./min.

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
			0.4		-TOPSOIL-										
		0.0		SM	Brown to orange-brown silty SAND with gravel, 5% brick and asphalt, no odor, moist	15	20	15	15	15	15	-	-	-	-
	S1 2' - 4'														
4			5.0												
	S2 6' - 8'	1.3		SM	Gray-brown to brown silty SAND with gravel, 5% brick, trace clay, coal, asphalt, slight weathered petroleum-like odor, moist	15	15	15	10	15	25	-	-	-	-
8															
			10.0												
				SM	Gray silty SAND with gravel, moderate petroleum-like odor, wet, slight sheen (PID=16.9)	-	10	30	25	20	15	-	-	-	-
					Black CLM and CINDERS, trace ALM, slight to moderate naphthalene-like odor, wet, slight sheen (PID=8.9)										
			11.5												
12					concrete floor of Holder #11										
					Bottom of excavation at 11.5 ft										
16															
20															
24															
28															

Obstructions:

Remarks:

1) **West 1/2 of test pit on this log**

2) Groundwater entry from the east

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth	10.0	ft.
measured after	0.25	hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	4	=	2.8
over 24	-	=	-

Test Pit Dimensions (ft.):

Pit Depth	11.5
Pit Length X Width	69.0 x 13.0

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

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Test Pit No. TP-10-02 (east)

PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	20-Dec-2010
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Partly Sunny, 20s°F

Ground El. Range from 412.2 to 415.1 ft. **Location** See Plan

El. Datum NYS Barge Canal

Groundwater depths/entry rates (in./min.): ~0.5 in./min.

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
			0.3		-TOPSOIL-										
		0.0		SM	Brown to orange-brown silty SAND with gravel, 5% brick and asphalt, trace concrete, no odor, moist	15	20	15	15	15	15	-	-	-	-
			4.3												
4		0.8		SM	Gray-brown to brown silty SAND with gravel, 5% brick, trace clay, coal, asphalt, slight weathered petroleum-like odor, moist	15	15	10	15	20	20	-	-	-	-
8															
			12.0												
12		17.2		SM	Similar to above, except moderate petroleum/naphthalene-like odor wet, sheen										
			14.0												
		42.3			Black silty SAND with gravel, with ~40% brick, metal, concrete, debris, strong naphthalene-like odor, wet	5	10	5	10	15	15	-	-	-	-
			16.0												
16			16.5		Note: Bucket refusal at 16.5 ft on probable bedrock -WEATHERED BEDROCK- Bottom of excavation at 16.5 ft										
20															
24															
28															

Obstructions:

Remarks:

1) East 1/2 of test pit on this log, outside Holder #11

2) Groundwater entry from the north

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth 12.0

measured after 0.25 hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	3	=	1.5
over 24	-	=	-

Test Pit Dimensions (ft.):

Pit Depth 16.5

Pit Length X Width

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

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Test Pit No. TP-10-03

PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	5-Jan-2011
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Mostly Sunny w/Snow Showers 30s°F

Ground El. Range from 409.7 to 411.2 ft. **Location** See Plan

El. Datum NYS Barge Canal

Groundwater depths/entry rates (in./min.): ~0.2 in./min.

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
			0.3		-TOPSOIL-										
		0.0		SM	Brown to light brown silty SAND with gravel, ~5% concrete pieces and brick, no odor, moist	10	10	10	10	30	25	-	-	-	-
4			5.0												
	S1 6' - 8'	0.2		SM	Brown to gray-brown silty SAND, ~15% ALM and cinders, trace brick, no odor, moist	5	5	10	15	25	25	-	-	-	-
					concrete										
					Floor of Holder #9										
8					Note: ~ 6 in. diameter clay pipe at 7.5 ft bgs in west sidewall; dry black interior (no NAPL or water)										
			8.5												
	S2 10' - 12'	0.0		SM	Yellow-brown to live-brown silty SAND with gravel, no odor, wet ~ 13.0 ft	10	10	5	10	35	30	-	-	-	-
12															
16					Note: Bucket grinding on possible bedrock at ~18.0 ft; unable to clean out test pit due to collapsing sidewalls										
			18.0												
					Bottom of excavation at 18.0 ft										
20															
24															
28															

Obstructions:
Concrete Slab

Remarks:

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth	13.0	ft.
measured after	0.5	hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	6	=	3
over 24	1	=	2

Test Pit Dimensions (ft.):

Pit Depth	18.0
Pit Length X Width	27.0 x 25.0

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

Test Pit No. TP-10-04

PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	4-Jan-2011
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Mostly Sunny/Snow Showers, 30s°F

Ground El. ft. **Location** See Plan

El. Datum NYS Barge Canal

Groundwater depths/entry rates (in./min.): ~0.2 in./min.

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
			0.4		-TOPSOIL/ROOT MAT-										
		0.1		SM	Brown silty SAND with gravel, 10% concrete and brick, no odor, moist	20	15	10	10	15	20	-	-	-	-
	S1 2' - 5'														
4															
			8.0		Possible Valve house floor										
8	S2 9' - 11'	2.2		SM	concrete Olive-brown to black silty SAND, very slight weathered petroleum-like odor, moist	5	5	10	15	35	30	-	-	-	-
			11.0												
		2.0			Similar to above, except with frequent cobbles										
12					Note: Refusal at ~12.0 ft on probable holder floor → concrete										
			13.0												
		2.3			Tan to black, completely weathered SILTSTONE; friable under finger pressure, laminated to thinly-bedded, black staining present in occasional seams, no odor, dry, no sheen, occasional fossils										
16															
			18.0												
		0.0			Light brown SILTSTONE, dry Note: Bucket refusal at 19.0 ft										
			19.0		-WEATHERED BEDROCK-										
					Bottom of excavation at 19.0 ft										
20															
24															
28															

Obstructions:
None

Remarks:

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth	16.0	ft.
measured after	0.5	hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	14	=	10
over 24	-	=	-

Test Pit Dimensions (ft.):

Pit Depth	19.0
Pit Length X Width	37.0 x 15.0

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

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Test Pit No. TP-10-05

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PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	20-Dec-2010
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Overcast, 20°F

Ground El. Range from 415.8 to 416.4 ft. **Location** See Plan

El. Datum NYS Barge Canal

Groundwater depths/entry rates (in./min.): ~0.2 in./min.

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
			0.3		-TOPSOIL/ROOT MAT-										
	S1 1.5' - 3.5'	0.0		SM	Brown to orange-brown silty SAND with gravel, ~10% concrete and cobbles, frequent small boulders, no odor, moist	15	15	15	10	20	15	-	-	-	-
			3.8												
4		9.3		SM	Gray-silty SAND with gravel, ~10% brick, trace ceramic, slight weathered petroleum-like odor, moist	20	20	10	15	10	15	-	-	-	-
	S2 7' - 10'														
8		30.2													
		7.5													
12			13.0												
		33.2		SM	Gray to black silty SAND with gravel, ~50% bricks and debris, strong petroleum/ naphthalene-like odor, wet, sheen	5	10	5	5	10	15	-	-	-	-
			16.0												
16		1.5	16.7	ML	Similar to above, except black sandy SILT, slight naphthalene-like odor	-	5	5	-	5	35	-	-	-	-
					Note: Bucket refusal at 17.3 ft, possible concrete										
			17.3		Bottom of excavation at 17.3 ft										
20															
24															
28															

Obstructions:
None

Remarks:

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth	13.0	ft.
measured after	0.25	hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	16	=	12
over 24	1	=	2

Test Pit Dimensions (ft.):

Pit Depth	17.3
Pit Length X Width	82.0 x 11.0

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

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Test Pit No. TP-10-06

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PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	18-Dec-2010
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Mostly Sunny, 20s°F

Ground El. Range from 416.4 to 419.2 ft.
El. Datum NYS Barge Canal
Location See Plan; stake at northeast corner
Groundwater depths/entry rates (in./min.): ~1 in./min.

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
			0.6		-TOPSOIL-										
	S1 2' - 5'	0.0		SM	Brown to orange-brown silty SAND with gravel, 5% asphalt pieces, trace brick, frequent cobbles, occasional boulders, no odor, moist	10	20	10	15	20	20	-	-	-	-
4			5.3												
	S2 7'- 10'	0.0		ML	Light brown to gray sandy SILT, trace CLM, no odor, wet ~11.5 ft, resembles foundry sand	-	-	-	-	50	50	R	L	N	-
8															
12			13.0												
		3.6		SM	Gray silty SAND with gravel, 50% brick, metal and concrete debris, occasional metal pipes in debris, slight petroleum/naphthalene-like odor, wet, no sheen	5	10	5	5	10	15	-	-	-	-
16			16.0												
		87.2		SM	Similar to above, except black (stained), strong naphthalene-like odor, wet, sheen, frequent small blebs (trace) TLM										
			18.0		Note: Bucket refusal at 18.0 ft on , possible concrete										
					Bottom of excavation at 18.0 ft										
20															
24															
28															

Obstructions: at 18.0 ft

Remarks:

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:
at depth 11.5 ft.
measured after 0.5 hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	10	=	7
over 24	-	=	-

Test Pit Dimensions (ft.):
Pit Depth 18.0
Pit Length X Width 43.0 x 11.0

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

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Test Pit No. TP-10-07

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PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	5-Jan-2011
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Mostly Sunny w/Snow Showers 20s°F

Ground El. Range from 415.6 to 416.5 ft. **Location** See Plan

El. Datum NYS Barge Canal

Groundwater depths/entry rates (in./min.): Seeping below 8.5 ft

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
			0.5		-GRAVEL FILL-										
		0.1		SP-SM	Dark brown to black poorly-graded SAND with silt, 55% CLM, occasional coke fragments,	5	5	5	10	10	10	-	-	-	-
	S1				no odor, dry										
	2' - 5'		2.0												
		0.2			Orange (top 3 inches) to white LIME with frequent green-blue pockets, occasional wood chip fragments, no odor, dry, reactive with HCl										
4															
			5.0												
	S2	0.7		SP-SM	Brown to dark brown poorly-graded SAND with silt, 55% CLM, no odor, moist	5	5	10	5	10	10	-	-	-	-
	6' - 8'														
8															
			8.5												
			9.0	SP-SM	Similar to above except black, wet										
	S3	76.8		SM	Gray to black silty SAND with gravel, frequent cobbles, strong petroleum/naphthalene-	15	10	15	10	30	20	-	-	-	-
	10' - 12'				like odor, wet, sheen with blebs and small pockets (1 in. ±) of TLM saturated soils										
12															
					Note: Bucket refusal at 15.0 ft on probable bedrock										
			15.0												
					Bottom of excavation at 15.0 ft										
16															
20															
24															
28															

Obstructions:
None

Remarks:

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth	9.0	ft.
measured after	0.5	hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	2	=	0.8
over 24	-	=	-

Test Pit Dimensions (ft.):

Pit Depth	15.0
Pit Length X Width	26.0 x 11.0

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

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Test Pit No. TP-10-08

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PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	4-Jan-2011
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Mostly sunny w/Snow Showers, 30s°F

Ground El. Range from 416.1 to 416.8 ft. **Location** See Plan

El. Datum NYS Barge Canal

Groundwater depths/entry rates (in./min.): ~0.2 in./min.

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
			0.5		-GRAVEL FILL-										
	S1 1' - 3'	0.0	1.0	SM	Brown silty SAND with gravel, ~5% brick, trace roots, no odor, dry	15	15	10	15	25	15	-	-	-	-
		0.6			Yellow to orange-brown to tan silty SAND, no odor, moist	5	5	10	10	45	25	-	-	-	-
			3.2												
		1.4		SM	Gray to black silty SAND with gravel, strong petroleum-like odor with naphthalene-like undertones, wet at ~8.5 ft, with sheen	10	5	10	5	30	40				
4															
8															
			9.0												
		28.4		GW	Black well-graded GRAVEL with sand, 10% cobbles, strong petroleum-like odor with naphthalene-like undertones, wet, sheens, frequent blebs of brown OLM orange-green coloring/ OLM on groundwater surface	25	25	25	15	5	5	-	-	-	-
12															
16					Note: Bucket refusal at 17.0 ft										
			17.0												
					Bottom of excavation at 17.0 ft										
20															
24															
28															

Purifier box filled with brick, and holding approximately 3 ft of water with slight odor, trace sheen

Concrete wall ~12 in. thick

Obstructions:
None

Remarks:

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth	11.0	ft.
measured after	0.5	hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	-	=	-
over 24	-	=	-

Test Pit Dimensions (ft.):

Pit Depth	17.0
Pit Length X Width	37.5 x 19.0

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

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Test Pit No. TP-10-09

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PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	6-Jan-2011
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Mostly Sunny 20s°F

Ground El. Range from 418.0 to 418.8 ft. **Location** See Plan

El. Datum NYS Barge Canal

Groundwater depths/entry rates (in./min.): ~0.5 in./min.

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
			0.5		-GRAVEL FILL-										
	S1		0.9		-ASPHALT MILLINGS-										
	1' - 3'	0.0		SM	Brown silty SAND with gravel, 5% brick, no odor, moist	10	10	15	15	25	20	-	-	-	-
	S2		3.5												
4	4' - 7'	113.6		CL	Olive-gray to black sandy CLAY with gravel, slight to moderate petroleum/modeling glue-like odor, moist	10	10	5	5	20	50	-	-	-	-
			7.0												
				GW	Gray to black well-graded GRAVEL with sand, frequent cobbles, occasional boulders, strong petroleum/modeling glue-like odor, moist, sheen on gravel surfaces	30	30	20	10	5	5	-	-	-	-
8		196.1													
			11.0												
				GW	Similar to above, except wet, brown OLM blebs and sheens common, little OLM on groundwater surface										
12		276.9													
16					Note: Bucket refusal at 17.0 ft on probable bedrock										
			17.0		Bottom of excavation at 17.0 ft										
20															
24															
28															

Obstructions:
None

Remarks:

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth	11.0	ft.
measured after	0.25	hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	5	=	3.3
over 24	-	=	-

Test Pit Dimensions (ft.):

Pit Depth	17.0
Pit Length X Width	58.0 x 6.0

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

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Test Pit No. TP-10-10

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PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	6-Jan-2011
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Mostly Sunny 20s°F

Ground El. Range from 416.2 to 418.2 ft. **Location** See Plan

El. Datum NYS Barge Canal

Groundwater depths/entry rates (in./min.): ~0.5 in./min.

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
			0.5		-GRAVEL FILL-										
		0.1		SM	Brown to dark brown silty SAND with gravel, trace wood, no odor, dry	10	10	15	15	35	15	-	-	-	-
			1.8												
		8.6			Black CLM (generally sand-sized), trace brick, slight petroleum/modeling glue-like odor, dry										
			3.8												
4	S1 4' - 5.5'	19.4		SM	Gray to black silty SAND, moderate petroleum/modeling glue-like odor, moist	-	-	5	10	50	35	-	-	-	-
			5.5												
		95.8			Gray to black poorly-graded SAND with gravel, strong petroleum/naphthalene-like odor, wet and sheen at ~7.5 ft, little brown OLM on groundwater surface	20	20	20	25	10	5	-	-	-	-
8															
					Note: Due to collapsing sidewalls and odorous soils, test pit terminated at 12.0 ft										
			12.0												
12					Bottom of excavation at 12.0 ft										
16															
20															
24															
28															

Obstructions:
Pipes

Remarks:

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth	7.5	ft.
measured after	0.5	hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	3	=	3
over 24	1	=	6

Test Pit Dimensions (ft.):

Pit Depth	12.0
Pit Length X Width	8.0 x 6.5

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

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Test Pit No. TP-10-11a

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PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	6-Jan-2011
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Mostly Sunny 20s°F

Ground El. Range from 417.6 to 418.1 ft.
El. Datum NYS Barge Canal
Location See Plan
Groundwater depths/entry rates (in./min.): ~0.5 in./min.

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
			0.5		-GRAVEL FILL-										
		0.2		SP-SM	Brown to orange-brown to yellow well-graded SAND with silt, 45% CLM, no odor, dry	5	10	10	10	10	10	-	-	-	-
	S1 2' - 4'														
4	S2 4.5' - 6'	5.8	4.5	SC	Olive-gray to black clayey SAND, trace ALM, no odor, moist	5	5	5	10	40	35	N	L	L	-
			6.0												
		142.3		GW	Gray to black well-graded GRAVEL with sand, strong petroleum/naphthalene-like odor with sweet undertones, wet with sheen at 12.0 ft, semi-rounded to well-rounded particles	30	30	20	10	5	5	-	-	-	-
8															
12					Note: Brown OLM on groundwater surface										
16															
			17.0		Note: Bucket refusal at 17.5 ft on probable bedrock										
			17.5		-WEATHERED BEDROCK-										
					Bottom of excavation at 17.5 ft										
20															
24															
28															

Obstructions:
None

Remarks:

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:
at depth 12.0 ft.
measured after 0.5 hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	5	=	5
over 24	2	=	14

Test Pit Dimensions (ft.):
Pit Depth 17.5
Pit Length X Width

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

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Test Pit No. TP-10-12

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PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	22-Dec-2010
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Overcast 20s°F

Ground El. Range from 418.9 to 419.9 ft. **El. Datum** NYS Barge Canal

Location See Plan

Groundwater depths/entry rates (in./min.): ~0.5 in./min.

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
	S1		0.3	SP	Brown poorly-graded SAND with silt, trace roots, no odor, moist (top 1 in.)	-	-	-	-	90	10	-	-	-	-
	1' - 3'			GP-GM	Gray poorly-graded GRAVEL with silt and sand, no odor, moist	20	35	15	10	10	10	-	-	-	-
		0.5			'-DECON PAD MATERIALS- ← (heavy-duty poly sheeting)										
				SM	Dark brown to yellow-brown silty SAND with gravel, ~10% ALM, 10% cinders and CLM, 5% brick, acrid musty odor (especially in ALM), moist	10	10	10	10	20	15	-	-	-	-
			3.0												
	S2	1.1		SC	Orange-brown to brown clayey SAND with gravel, 5% ALM, trace brick, coal, CLM, no odor, moist	20	15	15	10	10	25	N	L	L	-
4	4' - 7'														
					Note: 18 in. I.D. RCP at 7.0 to 8.5 ft bgs										
			8.0												
8		7.2		SM	Gray to black silty SAND with gravel, slight naphthalene-like odor, moist	10	15	15	15	25	20	-	-	-	-
			10.0												
		104.7		GP-GM	Black poorly-graded GRAVEL with silt and sand, numerous cobbles, strong naphthalene-like odor, moist, sheens common up to 5% black, tacky, low-medium viscosity TLM/DNAPL OLM within pore spaces	25	30	15	10	10	10	-	-	-	-
12															
					Note: Wet at 15.0 ft										
16															
					Note: Bucket refusal at 18.0 ft on probable bedrock										
			18.0		Bottom of excavation at 18.0 ft										
20															
24															
28															

Obstructions: None

Remarks:

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth	15.0	ft.
measured after	0.5	hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	5	=	3
over 24	-	=	-

Test Pit Dimensions (ft.):

Pit Depth	18.0
Pit Length X Width	47.0 x 7.0

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

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Test Pit No. TP-10-13 (west)

PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	3-Jan-2011
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Mostly sunny w/Snow Showers, 20s°F

Ground El. Range from 418.3 to 419.8 ft.
El. Datum NYS Barge Canal
Location See Plan
Groundwater depths/entry rates (in./min.): ~0.2 to 0.5 in./min.

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
				SM	Brown silty SAND with gravel, 10% concrete, brick, CLM, metal, wood, no odor, dry (6 to 12 in. thick)	15	10	10	10	30	15	-	-	-	-
4					Brown to orange to gray silty SAND to clayey SAND, up to 15% total wood, CLM, brick, ~2.5 to 5 ft thick and 24 in. steel ALM up to 20% Black silty SAND to clayey SAND with gravel and cobbles Similar except with blue staining										
8															
12					Black poorly-graded SAND with cobbles, sheen										
16			16.0		Note: Bucket refusals at depths shown 55' Bottom of excavation at 16.0 ft										
20															
24															
28															

Obstructions:
Concrete structures

Remarks:

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:
at depth 7.5 ft.
measured after 0.5 hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	8	=	4
over 24	-	=	-

Test Pit Dimensions (ft.):
Pit Depth 0 to 16.0
Pit Length X Width ~ 80.0 x 20.0

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

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Test Pit No. TP-10-14

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PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	22-Dec-2010
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Overcast/Snow 20°F

Ground El. Range from 420.7 to 423.0 ft. **Location** See Plan

El. Datum NYS Barge Canal

Groundwater depths/entry rates (in./min.): ~0.3 in./min.

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
	S1	0.0		SM	Brown to yellow-brown silty SAND with gravel, 5% brick, trace metal, wood (lumber, no	15	20	10	10	20	20	-	-	-	-
	1' - 3'				odor), no odor, moist										
4															
	S2														
	5.5' - 7.5'		5.5												
		1.2		SM	Gray-brown silty SAND with gravel, 10% brick, trace metal, cobbles/rock rill, no odor, dry	15	15	10	10	20	20	-	-	-	-
					to moist										
			7.5												
8		0.0			Tan to white LIME granular to fused in cobble-sized pieces, slight acrid musty odor, dry										
			9.0												
		297.6			Yellow-green to dark gray LIME stained, strong petroleum-like odor with naphthalene-like undertones, wet, sheens, partially saturated with OLM										
			10.5												
		305.0		SP-SM	Black poorly-graded SAND with silt, strong petroleum-like odor with naphthalene-like	-	-	-	-	90	10	-	-	-	-
12					undertones, wet, sheens, OLM blebs common										
					Note: Bucket refusal at 16.0 ft on probable bedrock										
			16.0												
16					Bottom of excavation at 16.0 ft										
20															
24															
28															

Obstructions:
Structures in west end

Remarks:

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth	9.1	ft.
measured after	0.5	hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	5	=	3.6
over 24	-	=	-

Test Pit Dimensions (ft.):

Pit Depth	16.0
Pit Length X Width	65.0 x 13.0

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

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Test Pit No. TP-10-15

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PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	3-Jan-2011
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Clear, 20s°F

Ground El. Range from 420.8 to 422.3 ft. **Location** See Plan

El. Datum NYS Barge Canal

Groundwater depths/entry rates (in./min.): ~1 in./min at 18.5 ft

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
			0.5		-TOPSOIL and GRAVEL-										
		0.0		SM	Brown silty SAND with gravel, 10% brick, trace metal, concrete, glass, no odor, moist	20	10	10	10	20	20	-	-	-	-
4			4.8												
		0.7			Black coal CINDERS and CLM with sand, no odor, dry, discontinuous/undulating layer										
	S1 7' - 9'		6.8												
		0.2		SM	Similar to 0.5 to 4.8 ft	20	10	10	10	20	20	-	-	-	-
8															
	S2		9.5												
	10' - 13'	397.8		SM	Gray to black silty SAND, moderate petroleum-like odor, moist, stained	-	-	-	10	50	40	-	-	-	-
12															
16					Note: Strong petroleum-like odor and sheen at 16.0 ft										
			18.5		Note: Stratum change at 18.5 ft										
		26.3		SP	Gray to black poorly-graded SAND with gravel, 10% cobbles, strong petroleum-like odor (no discernable MGP-like undertones), sheen, green-brown hue on surface of groundwater	20	20	20	20	5	5	-	-	-	-
20															
					Note: Bucket refusal at 24.0 ft on probable bedrock										
24			24.0												
					Bottom of excavation at 24.0 ft										
28															

Obstructions:
None

Remarks:

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth	16.0	ft.
measured after	5.0	hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	5	=	3 (concrete)
over 24	-	=	-

Test Pit Dimensions (ft.):

Pit Depth	24.0
Pit Length X Width	41.0 x 12.0

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

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Test Pit No. TP-10-16

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PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	20-Dec-2010
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Partly Sunny, 20s°F

Ground El. Range from 412.5 to 414.4 ft. **Location** See Plan

El. Datum NYS Barge Canal

Groundwater depths/entry rates (in./min.): ~0.2 in./min.

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
			0.5		-GRAVEL FILL- (geotextile fabric)										
		0.4		ML	Gray-brown to brown gravelly SILT with sand, 5% cobbles, 5% brick, no odor to musty odor, dry to moist	20	10	5	5	15	35	-	-	-	-
4	S1 5.5' - 8.5'														
8			9.5												
			10.0		Brick with black coal cinders and CLM, no odor, dry										
		5.8			Yellow-brown to light brown to black (stained) sandy SILT, trace gravel, wood, concrete, moderately weathered petroleum/naphthalene-like odor, moist	-	-	5	10	25	60	-	-	-	-
12	S2 13' - 16'				6.5'										
16			18.0												
		132.7			Similar to above, except black, strong odor, wet, sheen, occasional blebs of black TLM										
20															
			22.0		Note: Bucket refusal at 22.5 ft										
			22.5		-WEATHERED BEDROCK- Bottom of excavation at 22.5 ft										
24															
28															

Obstructions:
11.3 ft in northwest end

Remarks:

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth	20.0	ft.
measured after	0.25	hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	3	=	1.5
over 24	-	=	-

Test Pit Dimensions (ft.):

Pit Depth	22.5
Pit Length X Width	27.0 x 9.0

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

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Test Pit No. TP-10-17

PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	21-Dec-2010
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Partly Sunny, 20s°F

Ground El. Range from 417.6 to 418.9 ft. **Location** See Plan

El. Datum NYS Barge Canal

Groundwater depths/entry rates (in./min.): Not Encountered

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
			0.5		(limestone rip-rap) -TOPSOIL/ROOT MAT-										
		0.0		SM	Light brown silty SAND with gravel, frequent cobbles, no odor, moist	10	20	15	10	20	25	-	-	-	-
			2.5		Black CINDERS, trace CLM, dry, crumbly, strong mothball-like odor, occasional brick (PID 19.2)										
	S1 3.5' - 5.5'		3.5												
4		0.0			Similar to 0.5 to 2.5 ft										
			5.5		Light gray to white ALM, trace wood, cinders, musty odor, moist (PID 0.0)										
			6.0												
					Similar to 0.5 to 2.5 ft, except gray-brown										
8		0.0													
			10.0												
		288.8		SM	Gray to olive-brown to black silty SAND, moderate toluene-like odor, moist	-	-	-	5	75	20	-	-	-	-
	S2 10' - 13'														
12															
					Note: Test pit continually caving in, unable to advance beyond 15.0 ft										
			15.0												
					Bottom of excavation at 15.0 ft										
16															
20															
24															
28															

Obstructions:
None

Remarks:

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth NE ft.

measured after ____ hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	7	=	4
over 24	-	=	-

Test Pit Dimensions (ft.):

Pit Depth 15.0

Pit Length X Width 45.0 x 18.0

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

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Test Pit No. TP-10-18 (north)

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PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	13-Dec-2011
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Snow, 20°F

Ground El. Range from 420.0 to 420.5 ft. **Location** See Plan

El. Datum NYS Barge Canal

Groundwater depths/entry rates (in./min.): ~0.3 in./min.

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
					CRUSHED STONE (~3 in. minus)-										
			1.0		Note: Geotextile fabric at base of stone										
			1.5	SM	Brown silty SAND with gravel, trace coal, cinders, no odor, moist	10	20	10	20	25	15	-	-	-	-
		1.0			Black COAL CINDERS with CLM, ~10% black ALM, no odor, dry										
			2.5												
		0.0		SM/ ML	Brown to orange-brown silty SAND to sandy SILT, no odor, moist										
					Resembles decomposed crumbly concrete (?)										
4	S1		5.2												
	5.5' - 7.5'			SM/ ML	Similar to above, except with pockets/discontinuous layers of black COAL CINDERS with CLM, ~10% black ALM, no odor, dry, granular (concrete -- 6.2' to -- 7.6')										
		0.6	7.6												
				SM/ ML	Gray-brown silty SAND with gravel, ~10% brick and concrete debris, no odor, moist	15	15	10	10	20	20	-	-	-	-
8															
	Inside Holder				Brick wall of Holder #7, ~4 ft thick										
12															
			13.5												
				SM	Black silty SAND with gravel, trace wood, slight groundwater seepage with sheen, moist to wet	10	10	10	10	40	20	-	-	-	-
	S2														
	15' - 17'		15.0												
				SM/ ML	Gray to black silty SAND to sandy SILT, moderate petroleum-like odor with/naphthalene-like	-	-	5	15	55	25	-	-	-	-
16		182.6			undertones, wet, sheen, little brown OLM leaching onto groundwater surface	-	-	-	-	50	50	-	-	-	-
					Note: Bucket refusal at 21.0 ft on probable bedrock										
			21.0												
					Bottom of excavation at 21.0 ft										
20															
24															
28															

Obstructions:

Remarks:

1) **Excavated outside holder**

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth	18.0	ft.
measured after	0.25	hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	6	=	4
over 24	-	=	-

Test Pit Dimensions (ft.):

Pit Depth	21.0
Pit Length X Width	45.0 x 11.0 ft

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

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Test Pit No. TP-10-18 (south)

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PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	13-Dec-2010
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Snow 20°F

Ground El. Range from 420.0 to 420.5 ft. **Location** See Plan

El. Datum NYS Barge Canal

Groundwater depths/entry rates (in./min.): ~1 in./min.

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
			0.5		-TOPSOIL-										
		1.2		SM	Brown to gray-brown silty SAND with gravel, occasional cobbles, ~5% each ALM, brick, concrete and metal, trace wood, slight musty odor to slight weathered petroleum-like odor, moist										
					Note: Discontinuous layer of black CINDERS and CLM, no odor, dry, from ~1.8 to 2.3 ft										
4			4.0												
		1.7		SM	Gray silty SAND with gravel, ~50% concrete pieces, brick, metal and wood debris, slight weathered petroleum-like odor, dry to moist										
					Outside Holder										
8					Brick wall of Holder #7 ~4 ft thick										
12															
			13.0												
		2.6			Similar to above, except black to gray										
	S1 15' - 17'														
16															
			13.0												
		1.8			Gray silty SAND with gravel, ~50% debris (brick, metal, occasional wood), slight weathered petroleum/naphthalene-like odor, wet, trace sheen										
20															
					Holder bottom										
					Concrete										
24			24.0		Bottom of excavation at 22.0 to 24.0 ft										
28															

Obstructions:
Bottom at holder

Remarks:
1) **Excavated inside the holder**

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth	20.0	ft.
measured after	0.5	hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	8	=	6
over 24	-	=	-

Test Pit Dimensions (ft.):

Pit Depth	24.0
Pit Length X Width	45.0 x 11.0

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

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Test Pit No. TP-10-19 (south)

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PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	14-Dec-2010
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Snowy/Windy 10-13°F

Ground El. Range from 419.0 to 420.8 ft. **Location** See Plan

El. Datum NYS Barge Canal

Groundwater depths/entry rates (in./min.): ~0.2 in./min.

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
		0.0	0.5		-TOPSOIL-										
				SM	Yellow-brown to brown silty SAND with gravel, 5% total coal, cinders, and concrete,	15	15	10	15	15	25	-	-	-	-
		0.0			no odor, dry										
4			4.3		-SOIL FILL-										
		0.4			Black COAL CINDER particles (~50%), ~30% CLM, 10% black ALM, 10% sandy soil possible, no odor, dry										
			7.3		-CINDER FILL-										
8	S1 8' - 11'	0.0	7.8	ML	Yellow-brown to brown sandy SILT, frequent cobbles, no odor, moist	5	5	-	-	30	60	-	-	-	-
		5.8		GM	Brown to gray-brown silty GRAVEL with sand, numerous cobbles, occasional boulders, no odor, moist	20	30	10	10	15	15	-	-	-	-
			11.5		-ROCK FILL-										
12		195.1		SP-SM	Gray poorly-graded SAND with silt and gravel, frequent cobbles, strong petroleum-like odor with naphthalene-like undertones, sheens and occasional blebs of dark brown OLM on surfaces of soil grains	20	20	20	15	15	10	-	-	-	-
			13.5												
		411.0			Note: Little groundwater seepage at 13.5 ft with sheen and dark brown to black low viscosity TLM. Seepage generally from 13.5 to 17.0 ft within pocket of SAND with gravel, located from ~ 7.0 to 11.0 ft south of the holder wall										
16			17.0												
	S2 18' - 20'														
		33.2			Tan SILT and silty fine SAND interbedded with occasional black TLM-stained layers in upper 12 in. of formation; completely weathered rock, friable under finger pressure										
20															
					Note: Bucket refusal at 23.0 ft										
			23.0		-WEATHERED BEDROCK-										
					Bottom of excavation at 23.0 ft										
24															
28															

Inside Holder

Brick Wall of Holder #7 ~4 ft thick

Obstructions:
at 23.0 ft

Remarks:
1) **Excavated on south side, outside of holder**

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth	14.0	ft.
measured after	0.5	hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	4	=	4
over 24	1	=	9

Test Pit Dimensions (ft.):

Pit Depth	23.0
Pit Length X Width	26.0 x 12.0

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

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Test Pit No. TP-10-19 (north)

PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	15-Dec-2010
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Partly Sunny w/Snow Showers 20°F

Ground El. Range from 419.0 to 420.8 ft. **El. Datum** NYS Barge Canal

Location See Plan

Groundwater depths/entry rates (in./min.): N/A

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
		0.0		SM	Brown to dark brown silty SAND with gravel, 5% brick, no odor, dry	10	20	15	15	20	15	-	-	-	-
4			4.5												
		0.2		SM	Gray-brown silty SAND with gravel, 10% brick, occasional wood, metal pipe (debris), no odor, dry	15	15	5	10	30	15	-	-	-	-
					Outside Holder										
8															
	S1		10.0												
	10' - 13'	2.7		SM	Dark brown to dark gray-brown silty SAND with gravel, 10% brick, trace concrete no odor, moist	10	10	15	20	20	15	-	-	-	-
12			12.0												
		4.8		ML	Tan to gray sandy SILT, slight petroleum-like odor, moist	-	-	-	-	40	60	-	-	-	-
					Brick wall of Holder #7 ~4 ft thick										
16			16.0												
	S2	16.7		ML	Similar to above, except with black-stained brick and wood timbers, wet, sheen, moderate petroleum/naphthalene-like odor, possible styrene-like undertones	-	-	-	-	40	60	-	-	-	-
	17' - 20'														
			19.0												
20					DEBRIS (brick, wood, pieces of pipe)										
					Note: Bucket refusal at 22.0 ft on concrete holder floor										
			22.0												
					Bottom of excavation at 22.0 ft										
24															
28															

Obstructions:

Remarks:

1) **Inside the south side of Holder #7**

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth 16.0 ft.

measured after 0.5 hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	2	=	1
over 24	-	=	-

Test Pit Dimensions (ft.):

Pit Depth 22.0

Pit Length X Width 20.0 x 10.0

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

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Test Pit No. TP-10-20

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PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	18-Dec-2010
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Mostly Sunny 18°F

Ground El. Range from 418.4 to 419.7 ft. **Location** See Plan

El. Datum NYS Barge Canal

Groundwater depths/entry rates (in./min.): Not Encountered

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
			0.5		-TOPSOIL-										
	S1 2' - 5'	0.8		SM	Brown to dark brown silty SAND with gravel, 30% brick, trace CLM, glass, no odor, moist	10	10	10	5	15	15	-	-	-	-
4					Concrete / Concrete / Concrete										
			5.5		Bottom of excavation at 5.5 ft										
					Note: Structures are likely remnants of Scrubber foundations										
8															
12															
16															
20															
24															
28															

Obstructions:
at 5.5 ft

Remarks:
1) **Southwest half of test pit, facing northeast**

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth	-	ft.
measured after	-	hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	-	=	-
over 24	-	=	-

Test Pit Dimensions (ft.):

Pit Depth	5.5
Pit Length X Width	39.0 x 22.5

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

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Test Pit No. TP-10-21

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PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	18-Dec-2010
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Mostly Sunny 20s°F

Ground El. Range from 420.6 to 421.5 ft.
El. Datum NYS Barge Canal

Location See Plan
Stake at northwest corner, orientation east-west

Groundwater depths/entry rates (in./min.):
0.2 in./min.

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
			1.0		-CRUSHED STONE-										
		0.0		SM	Brown silty SAND with gravel, 10% total brick, asphalt and concrete, no odor, dry	15	15	10	15	20	15	-	-	-	-
			2.8												
					Black to red ASPHALT and BRICK, no odor, dry										
			3.5												
4	S1				Probable wall of Machine Shop excavated in test pit										
	4' - 6'				Gray-brown silty SAND with gravel (SM), trace	10	20	10	10	25	25	-	-	-	-
					Brick with sand, trace gravel, no odor, dry										
		0.0			Similar to above, except orange-brown to brown	10	20	10	10	25	25	-	-	-	-
8															
	S2		10.0												
	10' - 12'				Black TLM, hard, strong naphthalene-like odor, dry (PID=250.8)										
					Gray poorly-graded GRAVEL with sand and cobbles, slight petroleum/naphthalene-like odor, moist	25	25	20	20	5	5	-	-	-	-
					concrete										
12			12.0												
				GP	Similar to above (right of concrete/wall below 10.0 ft)), except strong odor, little groundwater seepage with sheen, trace brown OLM										
16			16.0												
					Similar to above, except black, with sheens, strong naphthalene-like odor										
			18.0												
					Note: Bucket refusal at 18.7 ft on probable bedrock										
			18.7		-WEATHERED BEDROCK-										
					Bottom of excavation at 18.7 ft										
20															
24															
28															

Obstructions:

Remarks:

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth	16.0	ft.
measured after	0.25	hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	2	=	1.5
over 24	-	=	-

Test Pit Dimensions (ft.):

Pit Depth	18.7
Pit Length X Width	23.0 x 12.0

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

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Test Pit No. TP-10-22

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PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	17-Dec-2010
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Overcast 20s°F

Ground El. Range from 420.4 to 421.6 ft. **Location** See Plan

El. Datum NYS Barge Canal

Groundwater depths/entry rates (in./min.): ~0.5 in./min.

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
			0.5		-TOPSOIL/CRUSHED STONE-										
		0.0		SM	Light brown silty SAND with gravel, trace brick, no odor, moist	15	20	10	15	20	20	-	-	-	-
			2.6												
		0.0	3.0		Brown silty SAND (SM) trace roots										
					-BURIED TOPSOIL-										
					Brown to gray-brown poorly-graded SAND with silt and gravel (SP-SM) (40%) and BRICK (50%), ~10% ALM and coal dust, occasional metal pipes and debris, musty odor, dry (PID=1.3)										
4															
	S1														
	5.5' - 8.5'														
					Green painted side of wall										
8															
			11.2		Floor slab										
	S2														
	11' - 13'														
12					Not Excavated										
16															
					Brown to yellow-brown silty SAND (SM), with gravel, trace brick, no odor, moist (PID = 0.0)	15	10	10	10	35	20	-	-	-	-
					Brown poorly-graded SAND with gravel (SP), no odor, dry (PID = 0.0)	20	20	25	20	10	5	-	-	-	-
					Brick and stone wall (18 in. wide), probable Lab building										
					Similar to above, except gray (stained), moderate to strong naphthalene-like odor, occasional blebs of OLM (PID = 54.5)										
					Similar to above, except wet, trace red-brown OLM leaching out onto surface of groundwater (PID = 172.8)										
					Black poorly-graded SAND w/gravel (SP), strong naphthalene-like odor, wet sheens, w/black TLM blebs present on soil stains, wet, sheen (PID=96.6)	20	20	25	20	10	5	-	-	-	-
					-ALLUVIAL DEPOSITS-										
			18.5		-WEATHERED BEDROCK-										
					Bottom of excavation at 18.5 ft										
20															
24															
28															

Obstructions:

Remarks:

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth 13.5 ft.

measured after 0.5 hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	-	=	-
over 24	-	=	-

Test Pit Dimensions (ft.):

Pit Depth 11.2 to 18.5

Pit Length X Width 47.0 x 8.0

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

DRAFT

Test Pit No. TP-10-23(east)

PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	15 to 16 Dec-2010
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Snow Flurries, 20°F

Ground El. Range from 422.6 to 425.1 ft. **Location** See Plan

El. Datum NYS Barge Canal

Groundwater depths/entry rates (in./min.): Not Encountered

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
			0.3		-TOPSOIL-										
		0.0		SM	Orange-brown silty SAND with gravel, frequent cobbles, trace roots, no odor, moist	10	10	10	10	45	15	-	-	-	-
			1.8												
		2.4		SC	Gray brown clayey SAND with gravel, trace ALM, coal cinders, black wood fibers, brick, slight musty odor, moist	10	20	15	10	15	30	-	-	-	-
			4.0												
4				OL	Black ORGANIC SILT with sand, trace gravel/cobbles, with frequent wood chips/fibers,	-	-	-	5	20	75	-	-	-	-
	S1 5' - 7'	136.0			trace metal fragments, acrid odor with petroleum-like undertones, moist										
					Brick and Concrete										
					Note: Bucket refusal across all brick and concrete surfaces at										
8					4'										
			9.0		Brick & Concrete										
			10.5		Bottom of excavation at 10.5 ft										
					12'										
12															
16															
20															
24															
28															

Obstructions:
Concrete

Remarks:
1) **East half of test pit**

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth	-	ft.
measured after	-	hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	-	=	-
over 24	-	=	-

Test Pit Dimensions (ft.):

Pit Depth	6.0 to 10.5 ft
Pit Length X Width	27.0 x 14.0

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

DRAFT

Test Pit No. TP-10-23(west)

PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	15 to 16 Dec-2010
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Overcast/Snow Showers 20°F

Ground El. Range from 422.6 to 425.1 ft. **Location** See Plan

El. Datum NYS Barge Canal

Groundwater depths/entry rates (in./min.): Not Encountered

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
			0.3		-TOPSOIL-										
		0.0	1.2	SM	Brown to gray-brown silty SAND with gravel, 5% brick and asphalt pieces, no odor, moist	15	10	10	10	35	15	-	-	-	-
		0.0		SM	Yellow-brown silty SAND with gravel, trace brick, no odor, moist	5	10	5	10	50	20	-	-	-	-
			2.8												
	S1	1.0		SM	Gray-brown silty SAND with gravel, trace brick, coal, no odor, moist	20	15	10	15	25	15	-	-	-	-
4	3' - 5'														
					Note: Bucket refusal at 5.0 ft on concrete slab across entire length of test pit										
			5.0												
					Bottom of excavation at 5.0 ft										
					Note: Ground surface slopes to west; concrete slabs at 5.0 ft in west end are at ~7 ft bgs in east end										
8															
12															
16															
20															
24															
28															

Obstructions:

Remarks:

1) **West half of test pit**

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth - ft.

measured after - hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	-	=	-
over 24	-	=	-

Test Pit Dimensions (ft.):

Pit Depth 5.0

Pit Length X Width 28.0 x 17.0

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

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Test Pit No. TP-10-24a

PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	10-Dec-2010
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Mostly Cloudy, 15-32°F

Ground El. Range from 421.3 to 425.5 ft. **Location** See Plan

El. Datum NYS Barge Canal

Groundwater depths/entry rates (in./min.): Not Encountered

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
			0.5		-TOPSOIL-										
		0.3		SM	Brown silty SAND with gravel, frequent cobbles, occasional brick, asphalt pieces, rebar, occasional slight weathered petroleum/diesel-like odor, dry	10	10	10	15	30	25	-	-	-	-
4			4.0												
		0.2		SM	Similar to above, except gray-brown to brown, occasional wood cinders, moist	10	10	10	15	30	25	-	-	-	-
					-CONCRETE SLAB-										
8			8.0												
		0.4			Red BRICK with steel pieces, no odor, dry										
					Brick and concrete wall (2 ft wide)										
					Note: Refusal at 12.0 ft										
12			12.0		-CONCRETE SLAB-										
					22.0 ft										
					Bottom of excavation at 12.0 ft										
16															
20															
24															
28															

Obstructions:
Slabs at 7 and 12 ft

Remarks:
1) Excavation oriented roughly east-west

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth	-	ft.
measured after	-	hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	-	=	-
over 24	-	=	-

Test Pit Dimensions (ft.):

Pit Depth	12.0
Pit Length X Width	32.0 x 16.0

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

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Test Pit No. TP-10-24b

PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	10-Dec-2010
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Mostly Cloudy, 15-32°F

Ground El. Range from 421.3 to 425.5 ft. **Location** See Plan

El. Datum NYS Barge Canal

Groundwater depths/entry rates (in./min.): ~1 to 2 in./min at 13.5 ft bgs

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
			0.5		-CRUSHED STONE-										
		0.1		SM	Gray-brown to light brown silty SAND with gravel, trace brick, concrete, asphalt, no odor dry	15	15	10	15	30	15	-	-	-	-
	S1		3.0												
	3 - 5'	1.3			Black COAL DUST and PARTICLES, occasional bricks, no odor, dry										
4			5.0												
		1.4			Black CINDERS, CLM, and ALM, musty odor, dry										
	S2		7.0												
	7' - 9'	0.9		SM	Orange-brown silty SAND with gravel, ~5% brick, no odor, dry	10	10	10	10	30	25	-	-	-	-
8			9.5		-FILL-										
	S3			GP	Light gray poorly-graded GRAVEL with sand, ~20% cobbles, strong weathered	20	25	25	5	5	-	-	-	-	-
	10' - 13'	211.8			petroleum-like odor, gray color probable stain, trace brown OLM on gravel surfaces, trace brown OLM on surface of groundwater at 13.5 ft										
12					Note: Sidewalls of test pit continually caving, test pit terminated at 16.0 ft										
16			16.0		-ALLUVIAL DEPOSITS- Bottom of excavation at 16.0 ft										
					Note: Old metal process pipes encountered in fill from ~4.0 to 9.0 ft, generally filled with soil from Fill stratum, no NAPLs/liquids observed										
20															
24															
28															

Obstructions:
None

Remarks:

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth	13.5	ft.
measured after	0.5	hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	2	=	1.8
over 24	-	=	-

Test Pit Dimensions (ft.):

Pit Depth	16.0
Pit Length X Width	33.0 x 10.0

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

DRAFT

Test Pit No. TP-10-25

PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	11-Dec-2010
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Overcast, 30s°F

Ground El. Range from 426.1 to 428.7 ft. **Location** See Plan

El. Datum NYS Barge Canal

Groundwater depths/entry rates (in./min.): ~0.5 in./min.

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
		0.0		SM	Brown silty SAND with gravel, no odor, moist	15	15	10	10	30	20	-	-	-	-
			1.2												
		0.0		SC	Light brown to orange-brown clayey SAND with gravel, trace brick, asphalt, no odor, moist	10	10	5	5	30	40	N	M	L	-
			2.8												
		0.0		SM	Brown silty SAND with gravel, 10% concrete, no odor, moist	15	15	10	10	20	20	-	-	-	-
4					Note: Concrete block, cubic with ~24 in. sides encountered at ~4 ft										
		0.1													
			6.7												
				SM	Gray-brown silty SAND with gravel, 10% concrete, trace asphalt, plastic, brick, no odor,	10	15	10	10	20	25	-	-	-	-
8		0.2			moist										
			9.5												
		10.0			Gray-brown silty SAND with gravel, trace brick, coal, ALM, slight weathered petroleum-	10	15	10	15	25	25	-	-	-	-
			10.5		like odor, moist										
					BRICK (~55%) with silty sand, no odor, dry	5	5	5	5	10	15	-	-	-	-
					CONCRETE										
12					Black to tan COAL PARTICLES/SPECKS with CLM, occasional lenses of clayey sand, musty odor, moist (PID=0.7)										
					Note: Test pit caving in from 11.0 to 14.0 ft										
			14.0												
					Light brown clayey SAND with gravel (SC), trace brick,	20	15	15	10	15	25	-	-	-	-
	S1		15.0		asphalt, slight odor, moist (PID=2.0)										
	15' - 17'				Similar to above, except with black pockets (stained),										
16					Not Excavated weathered petroleum-like odor, moist (PID=380.6)										
	S2		17.0												
	17' - 18'				Similar to above, except orange-brown (PID=0.0)										
			19.0												
					Brown poorly-graded SAND with gravel (SP), strong	20	20	25	20	10	5	-	-	-	-
20					petroleum-like odor with naphthalene-like undertones wet, sheen, few blebs of brown OLM on gravel surfaces										
			21.0		(PID 88.3)										
					Note: Bucket refusal at 21.0 ft on probable bedrock										
					Bottom of excavation at 21.0 ft										
24															
28															

Obstructions:
Concrete at 11.0 ft

Remarks:

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth	18.0	ft.
measured after	0.5	hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	6	=	3
over 24	-	=	-

Test Pit Dimensions (ft.):

Pit Depth	21.0
Pit Length X Width	32.0 x 8.0

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

DRAFT

Test Pit No. TP-10-26

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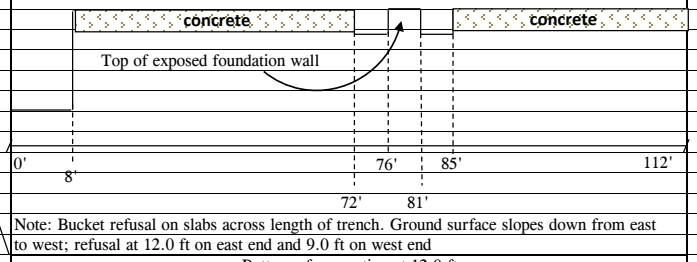
PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	11-Dec-2010
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Overcast, 35°F

Ground El. Range from 424.8 to 432.2 ft. **Location** See Plan

El. Datum NYS Barge Canal

Groundwater depths/entry rates (in./min.): Not Encountered

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
		0.3		SM	Brown silty SAND with gravel, occasional pieces of asphalt, no odor, moist	10	25	10	10	25	20	-	-	-	-
	S1		2.0												
	2' - 5'	4.6		SM	Gray silty SAND with gravel, slight weathered petroleum-like odor, dry to moist	10	20	15	15	25	15	-	-	-	-
4															
	S2		5.0												
	5' - 8'	2.0		SM	Brown silty SAND with gravel, 10% metal debris, brick, slight weathered petroleum-like odor, moist	10	10	10	10	30	20	-	-	-	-
8			8.0												
		2.1		SM	Dark gray silty SAND with gravel, slight weathered petroleum-like odor, dry, with occasional pockets of gray to purple to brown sandy clay with gravel, dry	10	20	15	15	25	15	-	-	-	-
			9.5												
		0.0		SC	Brown to orange-brown clayey SAND with gravel, up to 10% total ALM, coal particles, and brick, slight odor, moist	10	10	5	5	35	35	-	-	-	-
12			12.0												
															
16					Note: Bucket refusal on slabs across length of trench. Ground surface slopes down from east to west; refusal at 12.0 ft on east end and 9.0 ft on west end										
					Bottom of excavation at 12.0 ft										
20															
24															
28															

Obstructions:

Remarks:

1) Another gray layer (similar to 8-9.5 ft) at ~11-12 ft bgs, from 0 to 55 ft west of stake

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth NE ft.

measured after - hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	-	=	-
over 24	-	=	-

Test Pit Dimensions (ft.):

Pit Depth Avg 12.0

Pit Length X Width 112 x 11.5

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

DRAFT

Test Pit No. TP-10-27

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PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	16-Dec-2010
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Mostly Cloudy, 20°F

Ground El. Range from 422.4 to 426.0 ft. **Location** See Plan

El. Datum NYS Barge Canal

Groundwater depths/entry rates (in./min.): Slight seepage at 6.0 to 7.0 ft

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
			0.3		-TOPSOIL-										
		0.2		SM	Brown to orange-brown to gray-brown silty SAND with gravel, trace asphalt, brick, no odor, moist	20	20	15	10	20	15	-	-	-	-
	S1 2' - 4'														
4					Similar to above; Black ASPHALT, solid to crumbly/friable, slight naphthalene-like odor (PID=2.6)										
	S2 6' - 7'				Gray-brown poorly-graded SAND with silt (SP-SM), trace brick, no odor, wet, no sheen	-	-	5	15	70	10	-	-	-	-
				Bricks	8' wide; concrete slab										
8					5' deep; Rounded brick structure excavated, probable historic brick sewer/drain										
					Brick & Mortar; Filled with black ORGANIC SILT (OL), with bricks and wood fibers, strong acrid/petroleum odor with naphthalene-like undertones, moist (PID=138.3)										
12			12.0		Note: Bucket refusal on concrete across the entire test pit; Bottom of excavation at 12.0 ft										
16															
20															
24															
28															

Obstructions: Slabs

Remarks:

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth NE ft.

measured after - hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	6	=	4
over 24	-	=	-

Test Pit Dimensions (ft.):

Pit Depth 6.0 to 12.0

Pit Length X Width 77.0 x 7.0

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

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Test Pit No. TP-10-28

PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	17-Dec-2010
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Light Snow,20s°F

Ground El. Range from 424.1 to 425.7 ft. **Location** See Plan

El. Datum **NYS Barge Canal**

Groundwater depths/entry rates (in./min.): ~0.2 in./min.

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
			0.5		-TOPSOIL-										
		0.0		SM	Brown silty SAND with gravel, 5% each brick and asphalt pieces, no odor, moist	15	20	10	10	20	15	-	-	-	-
	S1														
	2' - 5'														
4															
			6.0												
					Note: Brick and concrete slab at 6.0 ft bgs in south end of test pit, brick layer from 6.0 ft to 7.5 ft bgs across rest of test pit										
			7.5												
8		0.0		SM	Similar to above (from 0.6 to 6.0 ft)										
			10.5												
		11.8		SM	Black gray silty SAND with gravel, slight petroleum/naphthalene-like odor, moist	15	15	15	15	15	25	-	-	-	-
12															
	S2		13.0												
	13' - 15'	316.8		ML	Black to gray to green-gray SILT, strong petroleum/naphthalene-like odor, wet at ~14.0 ft	-	-	-	-	50	50	-	-	-	-
					Note: Bucket refusal at 15.5 ft										
			15.5												
16					Bottom of excavation at 15.5 ft										
20															
24															
28															

Obstructions:

Remarks:

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth 14.0 ft.

measured after 0.5 hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	3	=	1
over 24	-	=	-

Test Pit Dimensions (ft.):

Pit Depth 15.5

Pit Length X Width 39.0 x 12.5

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

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Test Pit No. TP-10-29

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PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	16-Dec-2010
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Mostly Cloudy, 20°F

Ground El. Range from 435.4 to 439.5 ft. **Location** See Plan

El. Datum NYS Barge Canal

Groundwater depths/entry rates (in./min.): Not Encountered

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
		0.4		SM	Brown to gray-brown silty SAND with gravel, 5% asphalt, trace brick, no odor, dry	5	15	20	10	30	15	-	-	-	-
4			5.0												
		1.0			Black ASPHALT, dry										
			6.5												
						10	15	10	10	35	15	-	-	-	-
8		2.0		SM	Gray silty SAND with gravel, 5% asphalt, trace brick, occasional slight weathered petroleum-like odor, moist										
	S1 10' - 13'														
12					Concrete										
					BRICK and ROCK FILL										
16			16.0												
		0.7		SP-SM	Light brown poorly-graded SAND with silt, no odor, moist	5	5	10	30	40	10	-	-	-	-
			17.5												
		2.2		SM	Similar to 6.5 to 16.0 ft										
					Note: Bucket refusal at 19.2 ft across test pit on slab										
			19.2												
20					Bottom of excavation at 19.2 ft										
24															
28															

Obstructions:
at 19.2 ft

Remarks:
1) Test pit oriented northwest to southeast, left to right

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth	-	ft.
measured after	-	hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	-	=	-
over 24	-	=	-

Test Pit Dimensions (ft.):

Pit Depth	19.2
Pit Length X Width	32.0 x 5.0

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

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Test Pit No. TP-10-30

PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	9-Dec-2010
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Snow Showers 20°F

Ground El. Range from 413.6 to 414.2 ft. **Location** See Plan

El. Datum NYS Barge Canal

Groundwater depths/entry rates (in./min.): ~0.5 in./min.

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
			0.5		-TOPSOIL-										
				ML	Tan sandy SILT, ~30% black coal cinders and CLM particles, with slag particles, no odor, dry	5	5	5	5	15	35	-	-	-	-
			2.0												
		1.2			Black COAL CINDERS and CLM particles, ~20% slag particles, 10% black ALM, slight weathered petroleum-like odor, dry										
4			4.0												
		0.2			Similar to above, except with pockets of brick										
					Note: Several 2 in. diameter pipes (empty, no odor) from ~3.5 to 4.0 ft										
			6.1												
		16.7		ML	Light brown to gray-brown SILT with sand, slight naphthalene-like odor and gray stain ~6.1 to 6.8 ft, moist	-	-	-	-	40	60	-	-	-	-
	S1 7' - 11'														
8			8.3												
		38.6		ML	Similar to above, except with black staining, moderate naphthalene-like odor, moist, sheens common on particle surfaces	-	-	-	-	40	60	-	-	-	-
					Note: Slight groundwater seepage at various locations ~8 to 16 ft, sheen and dark brown OLM seeping in with groundwater										
12	S2		12.0		-FILL-										
	12' - 16'	28.2		GM	Light brown silty GRAVEL with sand, numerous cobbles (~20%), angular, slight naphthalene-like odor, moist	20	20	10	5	10	15	-	-	-	-
16			16.0		-ROCK FILL-										
				GM	Gray poorly-graded GRAVEL with silt and sand, frequent cobbles, strong petroleum/	20	30	20	10	10	10	-	-	-	-
		92.7			naphthalene-like odor, wet, sheen, frequent dark brown OLM blebs on particle surfaces										
			18.0		-ALLUVIAL DEPOSITS-										
		73.4			Note: Bucket refusal at 20.0 ft on probable bedrock; fragments of rock exhibit similar impacts as gravel above										
20			20.0		-WEATHERED BEDROCK-										
					Bottom of excavation at 20.0 ft										
24															
28															

Obstructions:

Remarks:

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth 16.0 ft.

measured after 0.5 hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	3	=	2
over 24	1	=	8

Test Pit Dimensions (ft.):

Pit Depth 20.0

Pit Length X Width 27.0 x 8.0

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

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Test Pit No. TP-10-31

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PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	8-Dec-2010
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Partly Sunny, 30s°F

Ground El. Range from 415.8 to 416.9 ft. **Location** See Plan

El. Datum NYS Barge Canal

Groundwater depths/entry rates (in./min.): ~0.5 in. to 1 in./min.

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
	S1		0.3		-TOPSOIL-										
	0.3' - 1'				2" pipe(PID=0.0) Light red-brown poorly-graded SAND with gravel (SP), numerous bricks, no odor, dry (PID=0.0)	20	15	15	20	25	5	-	-	-	-
					Similar except orange-brown, weathered										
			3.5		Black COAL PARTICLES/COAL DUST, (silt- to gravel-sized) slight musty odor, dry (PID=1.6)										
4					Concrete										
					Brown to gray-brown poorly-graded GRAVEL and COBBLES with silt and sand (GP-GM), no stain, no odor, dry (PID=0.0)										
8															
					Not Excavated										
12	S2														
	12' - 15'														
					-ROCK FILL-										
	S3		15.0												
	15' - 16'				Brown to light brown poorly-graded SAND with gravel, no odor, wet at 16.0 ft (PID=2.6)										
16															
			18.5		Light brown to light gray-brown SILT/ decomposed SHALE, slight petroleum- like odor, occasional blebs of sheen, wet (PID=12.3)										
			20.0		-WEATHERED BEDROCK-										
20					Bottom of excavation at 20.0 ft										
24															
28															

Obstructions:
Concrete at 3.8 ft

Remarks:

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth	16.0	ft.
measured after	0.5	hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	12	=	8
over 24	1	=	2

Test Pit Dimensions (ft.):

Pit Depth	20.0
Pit Length X Width	32.5 x 8.0

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

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Test Pit No. TP-10-32

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PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	9-Dec-2010
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Mostly Sunny/Snow Showers 20s°F

Ground El. Range from 415.8 to 417.5 ft. **Location** See Plan

El. Datum NYS Barge Canal

Groundwater depths/entry rates (in./min.): ~0.5 in./min.

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
			0.6		-TOPSOIL-										
		0.0		SM	Brown to gray-brown silty SAND with gravel, ~10% brick, no odor, moist	15	10	15	10	20	20	-	-	-	-
	S1 2' - 4'				undulating layer 12" to 24" thick (variable); Average depth 2-4 ft; 4" - 6" clay pipes in west wall; 6" clay pipe										
4															
	S2 6' - 8'		6.0		Black COAL CINDERS/DUST with CLM, ~30% brick, ~20% tan silty sand (in pockets), slight naphthalene-like odor, dry (PID=19.4); 12 " I.D. RCP										
					Light brown clayey SAND with gravel (SC), no odor, moist, little mottling (PID=0.6)	10	10	10	10	30	30	N	L	M	-
8					Note: No liquids/NAPLs observed in pipes encountered										
		0.1		GP-GM	Brown to light brown well-graded GRAVEL with silt and sand, ~20% cobbles, occasional boulders, no odor, dry, subrounded to angular particles	25	20	10	10	5	10	-	-	-	-
12															
			13.0		-FILL-										
		6.3		SP	Gray poorly-graded SAND with gravel, slight petroleum-like odor, no sheens on groundwater observed	20	20	20	25	10	5	-	-	-	-
16					Note: Bucket refusal at 18.0 ft on probable bedrock										
			18.0		Bottom of excavation at 18.0 ft										
20															
24															
28															

Obstructions:
Slabs

Remarks:

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth	16.0	ft.
measured after	0.5	hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	6	=	1.2
over 24	-	=	-

Test Pit Dimensions (ft.):

Pit Depth	18.0
Pit Length X Width	45.0 x 18.0

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

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Test Pit No. TP-10-33

PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	10-Dec-2010
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Mostly Cloudy, 15-32°F

Ground El. Range from 421.7 to 423.0 ft. **Location** See Plan

El. Datum NYS Barge Canal

Groundwater depths/entry rates (in./min.): Not Encountered

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
			0.5		Note: Geotextile fabric and gravel										
		0.0		SM	Brown silty SAND with gravel, with occasional brick, concrete, cobbles, no odor, dry	15	15	10	20	25	15	-	-	-	
					Note: Layer of angular cobbles ~1.0 to 2.0 ft										
4			4.0												
		0.0			Brown to orange-brown silty SAND with gravel, trace brick, no odor, dry	5	10	10	10	45	20	-	-	-	
			5.0		Note: Discontinuous layer of silty SAND with coal dust, coal particles, CLM/slag, no odor,										
			6.0		dry (PID=0.0)										
					Note: Approximate 12 in. diameter steel gas main encountered at 7.5 ft bgs in east sidewall										
					Excavation terminated										
8			8.0												
					Bottom of excavation at 8.0 ft										
12															
16															
20															
24															
28															

Obstructions:
Gas main at 7.5 ft bgs

Remarks:

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth	NE	ft.
measured after	-	hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	-	=	-
over 24	-	=	-

Test Pit Dimensions (ft.):

Pit Depth	8.0
Pit Length X Width	36.0 x 12.0

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

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Test Pit No. TP-10-34

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PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	Shawn Poff
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	21-Dec-2010
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Overcast, 20s°F

Ground El. Range from 414.8 to 416.7 ft. **Location** See Plan

El. Datum NYS Barge Canal

Groundwater depths/entry rates (in./min.): ~0.1 in./min.

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
			0.7	SP-SM	Gray poorly-graded SAND with silt and gravel, no odor, moist (gravel driveway)	15	30	25	10	10	10	-	-	-	-
		0.0		SM	Brown silty SAND with gravel, trace brick, concrete, few cobbles, no odor, moist	20	20	10	10	25	15	-	-	-	-
			2.0												
4		0.6		SM	Gray-brown silty SAND with gravel, ~10% total brick, concrete and asphalt, trace wood, metal, slight odor, dry	20	15	10	10	20	15	-	-	-	-
	S1 5' - 8'														
8				12 " iron pipe											
			10.5												
	S2 11' - 14'	0.8		SM	Brown to tan silty SAND, trace glass, small wood fragments, no odor, moist, with discontinuous layer of black CLM and CINDERS from ~11 to 11.5 ft, no odor, dry	-	5	5	10	50	30	-	-	-	-
12			12.5		concrete										
			14.5												
	S3 15' - 17'				Light brown to olive-brown to black fine sandy SILT, occasional clayey seams. Groundwater seepage ~16.5 to 19.0 ft,petroleum/naphthalene-like odor, sheen, trace brown OLM (PID=100.8)	-	-	-	-	35	65	-	-	-	-
16					Not Excavated; 24" RCP										
			19.0		Similar to above, except black, partially saturated with black TLM, strong naphthalene-like odor, wet sheen PID=233.8)										
20					Not Excavated										
			22.0		Similar to above, except black, partially saturated with black TLM, strong naphthalene-like odor, wet sheen (PID=233.8)										
					Tan SILT, hard, dry, probable decomposed rock										
24			24.5												
			25.0		-WEATHERED BEDROCK- Bottom of excavation at 25.0 ft										
28															

Obstructions:

Remarks:

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth 19.0 ft.

measured after 0.5 hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	5	=	2.5
over 24	1	=	2

Test Pit Dimensions (ft.):

Pit Depth 23.0 to 25.0

Pit Length X Width 40.0 x 6.0

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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ENVIRONMENTAL TEST PIT LOG

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Test Pit No. TP-10-35

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PROJECT	East Station Former MGP Site	**H&A FILE NO.**	36492-006
LOCATION	Rochester, New York	**PROJECT MGR.**	Doug Allen
CLIENT	Rochester Gas & Electric Corporation	**FIELD REP**	S. Poff / M. Kozlowski
CONTRACTOR	Sevenson Environmental Services, Inc.	**DATE**	7-Jan-2011
EQUIPMENT	Track-mounted Komatsu PC400LC Excavator	**WEATHER**	Mostly Sunny, 20s°F

Ground El. Range from 412.0 to 412.6 ft.
El. Datum NYS Barge Canal
Location See Plan
Groundwater depths/entry rates (in./min.): ~0.2 in./min.

Depth (ft.)	Sample ID	PID Reading (ppm.)	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
			0.5		-TOPSOIL-										
				SM	Brown silty SAND with gravel, 5% total concrete brick and asphalt, trace metal (chain link	10	10	15	10	25	25	-	-	-	-
		0.5			fence, pipe), no odor, moist, trace groundwater seepage at ~5.7 ft										
4		0.3													
8		0.2													
					Note: Bucket refusal at 11.6 ft on concrete slab										
			11.6												
12					Bottom of excavation at 11.6 ft										
16															
20															
24															
28															

Obstructions:
None

Remarks:

Bucket Decontamination Method:

Field Tests

Dilatancy:	R - Rapid S - Slow N- None
Toughness:	L - Low M - Medium H - High
Plasticity:	N - Nonplastic L - Low M - Medium H - High
Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:

at depth	9.4	ft.
measured after	0.5	hrs. elapsed

Boulders:

Diameter (in.)	Number		Approx. vol. (cu. ft.)
12 to 24	3	=	2
over 24	-	=	-

Test Pit Dimensions (ft.):

Pit Depth	11.6
Pit Length X Width	25.0 x 10.0

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

J:\forms\final\Frm 3709.xls

Form 2006 USCS Env.

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-01C

Project East Station Former MGP Site; Rochester, New York
Client Rochester Gas & Electric Corporation
Contractor Nothnagle Drilling, Inc.

File No. 36492-007
Sheet No. 1 of 1
Start 26 January 2011
Finish 26 January 2011
Driller J. Schweitzer
H&A Rep. S. Poff
Elevation 398.8
Datum NYS Barge Canal
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	MacroCore	-	Rig Make & Model: Geoprobe 6610DT
Inside Diameter (in.)	-	1.75	-	Bit Type: MC Cutting Shoe
Hammer Weight (lb)	-	-	-	Drill Mud: -
Hammer Fall (in.)	-	-	-	Casing: -
				Hoist/Hammer: - -
				PID Make & Model: RAE MiniRAE 3000

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G1 35	0.0 4.0	398.6 0.2	SM	-TOPSOIL-										
						Dark brown to dark gray-brown silty SAND with gravel, 5% brick, 5% CLM particles, trace roots, no odor, dry	5	10	20	15	25	15	-	-	-	-
						PID = 0.0 ppm										
		G2 30	4.0 8.0													
5				393.3 5.5	SM	Yellow-brown to light brown silty SAND, no odor, moist	-	5	5	10	65	15	-	-	-	-
						PID = 0.0 ppm										
		G3 22	8.0 12.0													
10				388.8 10.0		Similar to above, except gray-brown, wood fragments from approximately 10.5 to 11.4 ft, no odor, wet										
						PID = 0.0 ppm										
				387.3 11.5	SM	-FILL-										
		G4 31	12.0 15.8		SM	Gray-brown silty SAND, no odor, wet	-	-	-	10	60	30	N	L	L	-
						PID = 0.0 ppm										
						Similar to G3 (below 11.5 ft), except gray-brown to orange-brown, no odor, wet, no sheen										
						Note: Refusal at 15.8 ft										
15				383.0 15.8		-ALLUVIAL DEPOSITS-										
						-Bottom of exploration at 15.8 ft										
						Environmental Samples Collected: S1=2.0 to 4.0 ft S2=9.5 to 11.5 ft										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water
1/26/11	-	-	-	-	10.0 ±

Sample ID

O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft)	15.8
Rock Cored (ft)	-
Samples	4G

Boring No. TG-10-01C

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-GEOPROBE-07-1 HAR HA-LIB07-R1.GLB HA-TB+CORE+WELL-07-1.GDT G:\36492\007\2011-0201 36492-007 PROBES.GPJ 18 Mar 11

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-02C

Project East Station Former MGP Site; Rochester, New York
Client Rochester Gas & Electric Corporation
Contractor Nothnagle Drilling, Inc.

File No. 36492-007
Sheet No. 1 of 1
Start 26 January 2011
Finish 26 January 2011
Driller J. Schweitzer
H&A Rep. S. Poff
Elevation 403.5
Datum NYS Barge Canal
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	MacroCore	-	Rig Make & Model: Geoprobe 6610DT
Inside Diameter (in.)	-	1.75	-	Bit Type: MC Cutting Shoe
Hammer Weight (lb)	-	-	-	Drill Mud: -
Hammer Fall (in.)	-	-	-	Casing: -
				Hoist/Hammer: - -
				PID Make & Model: RAE MiniRAE 3000

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G1 36	0.0 4.0	403.2 0.3	SP	-BITUMINOUS CONCRETE-										
						Light gray-brown poorly-graded SAND with gravel, no odor, dry PID = 0.0 ppm	-	15	30	35	15	5	-	-	-	-
				401.1 2.4	SM	Dark brown silty SAND, no odor, dry	-	-	10	15	60	15	-	-	-	-
				400.7 2.8	ML/ CL	PID = 0.0 ppm / Yellow-brown to orange to olive-brown sandy SILT to clayey SILT with sand, no odor, moist	- -	- -	- -	- -	40 20	60 80	S N	L L	N L-M	- -
		G2 39	4.0 8.0		SC	PID = 0.0 ppm	-	10	15	20	25	30	-	-	-	-
5						Yellow-brown to brown clayey SAND, trace concrete, brick, CLM particles, no odor, moist PID = 0.0 ppm										
				395.5		-FILL-										
		G3 41	8.0 12.0	8.0	SP-SM	Orange-brown to light brown poorly-graded SAND with silt, no odor, wet, no sheen PID = 0.0 ppm	-	-	-	5	85	10	-	-	-	-
10				393.5 10.0	ML	Orange-brown to gray-brown SILT with sand, occasional seams of gray clayey silt, no odor, wet, no sheen PID = 0.0 ppm	-	-	-	-	20	80	-	-	-	-
				391.9 11.6	SM SM	Orange-brown to olive-brown silty SAND with gravel, no odor, wet, no sheen PID = 0.0 ppm	5	20	20	20	20	15	-	-	-	-
		G4 36	12.0 15.9			Similar to G3 (below 11.6 ft), except occasional cobbles										
15				388.3		-ALLUVIAL DEPOSITS-										
				15.2	GC	Yellow-brown clayey GRAVEL, no odor, wet, no sheen	40	10	5	5	5	25	-	-	-	-
				387.6 15.9		Note: Refusal at 15.9 ft -WEATHERED BEDROCK- -Bottom of exploration at 15.9 ft										
						Environmental Samples Collected: S1=6.0 to 8.0 ft										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water
1/26/11	-	-	-	-	8.0 ±

Sample ID

O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft)	15.9
Rock Cored (ft)	-
Samples	4G

Boring No. TG-10-02C

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-GEOPROBE-07-1 HAR HA-LIB07-R1.GLB HA-TB+CORE+WELL-07-1.GDT G:\36492\007\2011-0201 36492-007 PROBES.GPJ 18 Mar 11

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-04C

Project East Station Former MGP Site; Rochester, New York
Client Rochester Gas & Electric Corporation
Contractor Nothnagle Drilling, Inc.

File No. 36492-007
Sheet No. 1 of 1
Start 19 January 2011
Finish 19 January 2011
Driller J. Schweitzer
H&A Rep. S. Poff
Elevation 405.3
Datum NYS Barge Canal
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	MacroCore	-	Rig Make & Model: Geoprobe 6610DT
Inside Diameter (in.)	-	1.75	-	Bit Type: MC Cutting Shoe
Hammer Weight (lb)	-	-	-	Drill Mud: -
Hammer Fall (in.)	-	-	-	Casing: -
				Hoist/Hammer: - -
				PID Make & Model: RAE MiniRAE 3000

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G1 36	0.0 4.0	404.8		-TOPSOIL-										
				0.5 404.1	SM	Brown silty SAND with gravel, trace brick, no odor, dry	20	20	10	10	25	15	-	-	-	-
				1.2 403.8	SP	PID = 0.0 ppm										
				1.5 402.8	SM	Yellow poorly-graded SAND with gravel (decomposed firebrick fragments), no odor, dry	20	20	10	40	5	5	-	-	-	-
				2.5		PID = 0.0 ppm										
						Brown silty SAND with gravel, trace brick, no odor, dry										
						PID = 0.0 ppm										
		G2 32	4.0 8.0			Black CLM (30%) and WOOD CHIPS (40%) with sandy silt (30%), naphthalene-like odor, moist										
5				399.8		PID = 13.1 ppm										
				5.5	SC	Gray to light brown clayey SAND with gravel, slight odor, moist	10	15	5	10	25	35	-	-	-	-
						PID = 5.4 ppm										
				397.3		-FILL-										
		G3 40	8.0 12.0	8.0	SM	Gray to olive-brown silty SAND, possible slight odor, wet	-	-	-	5	65	30	-	-	-	-
						PID = 1.3 ppm										
10				393.3												
		G4 42	12.0 16.0	12.0	SP-SM	Light brown poorly-graded SAND with silt and gravel, no odor, wet	20	25	15	10	20	10	-	-	-	-
						PID = 0.2 ppm										
15																
		G5 24	16.0 18.3													
				387.8		-ALLUVIAL DEPOSITS-										
				17.5 387.0	ML	Tan clayey SILT with occasional gray stained seam (< 1/8 in. thick), no odor, dry	-	-	-	-	-	100	-	-	-	-
				18.3		PID = 0.7 ppm										
						Note: Refusal at 18.3 ft										
						-COMPLETELY WEATHERED BEDROCK-										
						-Bottom of exploration at 18.3 ft										
						Environmental Samples Collected: S1=2.5 to 5.5 ft S2=5.5 to 8.0 ft										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water
1/19/11	-	-	-	-	8.0 ±

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft)	18.3
Rock Cored (ft)	-
Samples	4G
Boring No.	**TG-10-04C**

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-GEOPROBE-07-1 HAR HA-LIB07-R1.GLB HA-TB+CORE+WELL-07-1.GDT G:\36492\0072011-0201 36492-007 PROBES.GPJ 18 Mar 11

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-06C

Project East Station Former MGP Site; Rochester, New York
Client Rochester Gas & Electric Corporation
Contractor Nothnagle Drilling, Inc.

File No. 36492-007
Sheet No. 1 of 2
Start 19 January 2011
Finish 19 January 2011
Driller J. Schweitzer
H&A Rep. S. Poff
Elevation 406.2
Datum NYS Barge Canal
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	MacroCore	-	Rig Make & Model: Geoprobe 6610DT
Inside Diameter (in.)	-	1.75	-	Bit Type: MC Cutting Shoe
Hammer Weight (lb)	-	-	-	Drill Mud: -
Hammer Fall (in.)	-	-	-	Casing: -
				Hoist/Hammer: - -
				PID Make & Model: RAE MiniRAE 3000

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G1 34	0.0 4.0	405.9 0.3	SM	-TOPSOIL-										
						Brown silty SAND with gravel, trace brick, coal, no odor, dry PID = 0.0 ppm	10	20	10	15	25	20	-	-	-	-
				404.2 2.0	SM	Brown to yellow-brown silty SAND with gravel, 10% brick, trace CLM, coal, no odor, dry PID = 0.0 ppm	10	10	10	10	20	30	-	-	-	-
5		G2 30	4.0 8.0													
				400.2 6.0	SM	Brown to light brown silty SAND with gravel, 5% concrete, no odor, moist PID = 0.1 ppm	15	15	10	10	25	20	-	-	-	-
		G3 15	8.0 12.0		SM	Similar to above (poor recovery)										
10																
		G4 20	12.0 16.0	394.2 12.0		Dark gray to black CLM with sand, 5% glass 5% brick, weathered petroleum-like odor, occasional spotty sheen, wet at approximately 14.0 ft PID = 7.5 ppm	5	10	10	10	10	10	-	-	-	-
15						-FILL-										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water
1/19/11	-	-	-	-	14.0 ±

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft)	21.1
Rock Cored (ft)	-
Samples	5G
Boring No.	**TG-10-06C**

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-GEOPROBE-07-1 HAR HA-LIB07-R1.GLB HA-TB+CORE+WELL-07-1.GDT G:\36492\007\2011-0201 36492-007 PROBES.GPJ 18 Mar 11

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-06C
File No. 36492-007
Sheet No. 2 of 2

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
		G5 38	16.0 20.0			Similar to G4										
				388.2		-FILL-										
				18.0	SP-SM	Black to gray poorly-graded SAND with silt, no odor, wet Note: Refusal at 21.1 ft	-	-	5	25	60	10	-	-	-	-
20		G6 12	20.0 21.1			-ALLUVIAL DEPOSITS-										
				385.1 21.1		-Bottom of exploration at 21.1 ft Environmental Samples Collected: S1=12.0 to 14.0 ft S2=18.0 to 21.0 ft										

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. TG-10-06C

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-08C

Project East Station Former MGP Site; Rochester, New York
Client Rochester Gas & Electric Corporation
Contractor Nothnagle Drilling, Inc.

File No. 36492-007
Sheet No. 1 of 2
Start 19 January 2011
Finish 19 January 2011
Driller J. Schweitzer
H&A Rep. S. Poff
Elevation 413.1
Datum NYS Barge Canal
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	MacroCore	-	Rig Make & Model: Geoprobe 6610DT
Inside Diameter (in.)	-	1.75	-	Bit Type: MC Cutting Shoe
Hammer Weight (lb)	-	-	-	Drill Mud: -
Hammer Fall (in.)	-	-	-	Casing: -
				Hoist/Hammer: - -
				PID Make & Model: RAE MiniRAE 3000

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G1 36	0.0 4.0	412.7 0.4	SM	-TOPSOIL- Dark brown to gray-brown silty SAND with gravel, 10% brick, no odor, dry PID = 0.1 ppm	10	10	15	15	25	15	-	-	-	-
				409.6 3.5	SM	Brown silty SAND with gravel, no odor, moist PID = 0.1 ppm	10	15	10	15	30	20	-	-	-	-
		G2 31	4.0 8.0			Similar to G1 (below 3.5 ft)										
5																
		G3 30	8.0 12.0			Similar to G2										
10				403.1 10.0	ML	Black to gray sandy SILT, 5% CLM, slight petroleum/naphthalene-like odor, wet PID = 4.6 ppm	5	5	5	10	35	35	-	-	-	-
				401.6 11.5	SC	Brown clayey SAND with gravel, slight odor, moist PID = 0.9 ppm	10	10	10	10	30	30	-	-	-	-
		G4 33	12.0 16.0	400.6 12.5	SM	-FILL- Yellow-brown to brown silty SAND, no odor, wet	-	-	-	-	60	40	-	-	-	-
15						-ALLUVIAL DEPOSITS-										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water
1/19/11	-	-	-	-	10.0 ±

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 19.3
Rock Cored (ft) -
Samples 5G

Boring No. TG-10-08C

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-GEOPROBE-07-1 HAR HA-LIB07-R1.GLB HA-TB+CORE+WELL-07-1.GDT G:\36492\2007\2011-0201 36492-007 PROBES.GPJ 18 Mar 11

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-08C
File No. 36492-007
Sheet No. 2 of 2

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
		G5 29	16.0 19.3		SM	Similar to G4 (below 12.5 ft) -ALLUVIAL DEPOSITS-										
				395.1 18.0	ML	Light brown sandy SILT (decomposed rock), no odor, wet to approximately 18.5 ft, dry 18.5 to 19.3 ft Note: Refusal at 19.3 ft	5	5	-	-	30	60	-	-	-	-
				393.8 19.3		-WEATHERED BEDROCK- -Bottom of exploration at 19.3 ft Environmental Samples Collected: S1=0.5 to 3.5 ft S2=10.0 to 11.5 ft										

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. TG-10-08C

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-09C

Project East Station Former MGP Site; Rochester, New York
Client Rochester Gas & Electric Corporation
Contractor Nothnagle Drilling, Inc.

File No. 36492-007
Sheet No. 1 of 1
Start 21 January 2011
Finish 21 January 2011
Driller J. Schweitzer
H&A Rep. S. Poff
Elevation 414.1
Datum NYS Barge Canal
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	MacroCore	-	Rig Make & Model: Geoprobe 6610DT
Inside Diameter (in.)	-	1.75	-	Bit Type: MC Cutting Shoe
Hammer Weight (lb)	-	-	-	Drill Mud: -
Hammer Fall (in.)	-	-	-	Casing: -
				Hoist/Hammer: - -
				PID Make & Model: RAE MiniRAE 3000

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G1 25	0.0 4.0	413.6 0.5	SM	-TOPSOIL- Orange-brown to brown silty SAND with gravel, trace brick, coal particles, no odor, moist PID = 0.2 ppm	10	10	15	10	20	25	-	-	-	-
5		G2 40	4.0 8.0		SM	Similar to G1 PID = 0.2 ppm										
		G3 25	8.0 12.0		SM	Similar to G2 PID = 0.1 ppm										
10				404.1 10.0	SM	Orange-brown to brown silty SAND with gravel, trace brick, coal particles, wood fragments, slight weathered petroleum/naphthalene-like odor, wet at approximately 11.0 ft, no sheen PID = 8.6 ppm	10	10	15	10	20	25	-	-	-	-
		G4 21	12.0 16.0		SM	Similar to G3 (below 10.0 ft)										
				401.1 13.0	SM	Brown silty SAND with gravel, approximately 50% BRICK and CONCRETE rubble fill, slight weathered petroleum/naphthalene-like odor, wet, no sheen PID = 6.7 ppm										
15		G5 12	16.0 17.0		SM	Similar to G4 (below 13.0 ft)										
				397.4 16.7 397.1 17.0	SM	Similar to above, except black (stained), slight sheen, weathered petroleum/naphthalene-like odor, wet PID = 197.3 ppm Note: Refusal at 17.0 ft -FILL- -Bottom of exploration at 17.0 ft										
						Environmental Samples Collected: S1=4.0 to 7.0 ft S2=9.0 to 11.0 ft										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water
1/21/11	-	-	-	-	11.0 ±

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft)	17
Rock Cored (ft)	-
Samples	5G
Boring No.	**TG-10-09C**

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-GEOPROBE-07-1 HAR HA-LIB07-R1.GLB HA-TB+CORE+WELL-07-1.GDT G:\36492\00712011-0201 36492-007 PROBES.GPJ 18 Mar 11

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-15C

Project East Station Former MGP Site; Rochester, New York
Client Rochester Gas & Electric Corporation
Contractor Nothnagle Drilling, Inc.

File No. 36492-007
Sheet No. 1 of 1
Start 21 January 2011
Finish 21 January 2011
Driller J. Schweitzer
H&A Rep. S. Poff
Elevation 416.1
Datum NYS Barge Canal
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	MacroCore	-	Rig Make & Model: Geoprobe 6610DT
Inside Diameter (in.)	-	1.75	-	Bit Type: MC Cutting Shoe
Hammer Weight (lb)	-	-	-	Drill Mud: -
Hammer Fall (in.)	-	-	-	Casing: -
				Hoist/Hammer: - -
				PID Make & Model: RAE MiniRAE 3000

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G1 32	0.0 4.0	415.6 0.5		-TOPSOIL-										
					SM	Brown silty SAND with gravel, trace brick, asphalt, no odor, moist PID = 0.3 ppm	10	15	10	15	30	20	-	-	-	-
				412.1 4.0		-FILL-										
						-Bottom of exploration at 4.0 ft										
						Environmental Samples Collected: S1=0.5 to 4.0 ft										

Water Level Data					
Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft)	4
Rock Cored (ft)	-
Samples	1G

Boring No. TG-10-15C

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-GEOPROBE-07-1 HAR HA-LIB07-R1.GLB HA-TB+CORE+WELL-07-1.GDT G:\36492\007\2011-0201 36492-007 PROBES.GPJ 18 Mar 11

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-18C

Project East Station Former MGP Site; Rochester, New York
Client Rochester Gas & Electric Corporation
Contractor Nothnagle Drilling, Inc.

File No. 36492-007
Sheet No. 1 of 2
Start 20 January 2011
Finish 20 January 2011
Driller J. Schweitzer
H&A Rep. S. Poff
Elevation 418.4
Datum NYS Barge Canal
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	MacroCore	-	Rig Make & Model: Geoprobe 6610DT
Inside Diameter (in.)	-	1.75	-	Bit Type: MC Cutting Shoe
Hammer Weight (lb)	-	-	-	Drill Mud: -
Hammer Fall (in.)	-	-	-	Casing: -
				Hoist/Hammer: - -
				PID Make & Model: RAE MiniRAE 3000

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G1 26	0.0 4.0	417.8	SM	Gray-brown silty SAND with gravel, no odor, moist	15	20	15	10	20	20	-	-	-	-
				0.6	SM	Brown silty SAND with gravel, 10% brick, no odor, wet at approximately 3.5 ft (perched water) PID = 0.0 ppm	10	10	15	15	20	20	-	-	-	-
		G2 30	4.0 8.0	413.9		Similar to G1 (below 0.6 ft)										
5				4.5	SM	Gray-brown to orange-brown to brown silty SAND with gravel, slight petroleum-like odor with naphthalene-like undertones, moist, no sheen PID = 1.8 ppm	5	15	10	15	30	25	-	-	-	-
				411.4 7.0	SM	Similar to above, except black-stained, sheens common throughout stratum, wet, moderate petroleum-like odor with naphthalene-like undertones PID = 71.0 ppm										
		G3 38	8.0 12.0	409.4		-FILL-										
				9.0	SP-SM	Dark gray to black poorly-graded SAND with silt, strong petroleum-like odor, with naphthalene-like undertones, wet, rainbow sheens throughout PID = 267.7 ppm	-	-	-	5	85	10	-	-	-	-
10		G4 36	12.0 16.0			Similar to G3 (below 9.0 ft)										
				404.9 13.5	SM	Black silty SAND with gravel, stained, sheens throughout, strong odor (similar to above) PID = 190.7 ppm	10	15	15	15	30	15	-	-	-	-
15						-ALLUVIAL DEPOSITS-										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water
1/20/11	-	-	-	-	7.0 ±

Sample ID

O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft)	22
Rock Cored (ft)	-
Samples	6G

Boring No. TG-10-18C

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Toughness**: L - Low M - Medium H - High **Plasticity**: N - Nonplastic L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-GEOPROBE-07-1 HAR HA-LIB07-R1.GLB HA-TB+CORE+WELL-07-1.GDT G:\36492\007\2011-0201 36492-007 PROBES.GPJ 18 Mar 11

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-18C
File No. 36492-007
Sheet No. 2 of 2

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
		G5 40	16.0 20.0		SM	Similar to G4 (below 13.5 ft)										
				399.4 19.0		-ALLUVIAL DEPOSITS-										
20		G6 16	20.0 22.0		SM	Black silty SAND with gravel, moderate petroleum-like odor with TLO undertones, moist, subangular to subrounded gravel, trace black TLM blebs PID = 30.4 ppm	20	15	10	10	20	25	-	-	-	-
				397.4 21.0		-GLACIAL TILL-										
				396.4 22.0	ML	Black to yellow-brown sandy SILT (decomposed rock), slight odor, dry, no sheens PID = 47.7 ppm	5	5	-	-	25	65	-	-	-	-
						-WEATHERED BEDROCK-										
						-Bottom of exploration at 22.0 ft										
						Environmental Samples Collected: S1=4.5 to 7.0 ft S2=9.0 to 12.0 ft										

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. TG-10-18C

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-19C

Project East Station Former MGP Site; Rochester, New York
Client Rochester Gas & Electric Corporation
Contractor Nothnagle Drilling, Inc.

File No. 36492-007
Sheet No. 1 of 1
Start 25 January 2011
Finish 25 January 2011
Driller J. Schweitzer
H&A Rep. S. Poff
Elevation 415.0
Datum NYS Barge Canal
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	MacroCore	-	Rig Make & Model: Geoprobe 6610DT
Inside Diameter (in.)	-	1.75	-	Bit Type: MC Cutting Shoe
Hammer Weight (lb)	-	-	-	Drill Mud: -
Hammer Fall (in.)	-	-	-	Casing: -
				Hoist/Hammer: - -
				PID Make & Model: RAE MiniRAE 3000

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G1 28	0.0 – 4.0	414.6 / 0.4	SM	Light brown silty SAND with gravel, no odor, dry PID = 0.0 ppm	10	10	20	20	25	15	-	-	-	-
5		G2 26	4.0 – 8.0		SM	Similar to G1, except with trace black CLM from approximately 7.0 to 7.2 ft PID = 0.0 ppm										
				407.3 / 7.7												
		G3 25	8.0 – 12.0	407.0 / 8.0	ML	White to light gray LIME/MORTAR, musty odor, moist, reactive with HCl PID = 0.0 ppm Dark gray-brown sandy SILT, trace clay, slight weathered petroleum-like odor with TLO undertones, wet, occasional slight sheen PID = 2.4 ppm	-	-	-	5	25	70	N	L	L	-
10				404.5 / 10.5	OL/ WF	Black ORGANIC SILT/decayed WOOD FIBERS, with sand, slight weathered petroleum-like odor, moist PID = 1.2 ppm	-	-	-	-	15	85	-	-	-	-
		G4 38	12.0 – 16.0			Similar to G3 (below 10.5 ft)										
				402.0 / 13.0		-FILL-										
15					ML	Yellow-brown to black sandy SILT with gravel, slight odor, moist PID = 0.8 ppm	5	10	10	10	20	45	-	-	-	-
		G5 32	16.0 – 18.3	398.7 / 16.3	ML	Similar to G4 (below 13.0 ft) -ALLUVIAL DEPOSITS- Hard tan SILT, no odor, dry (decomposed shale)	-	-	-	5	5	90	-	-	-	-
				396.7 / 18.3		Note: Refusal at 18.3 ft -WEATHERED BEDROCK- -Bottom of exploration at 18.3 ft										
						Environmental Samples Collected: S1=10.5 to 13.0 ft S2=14.0 to 16.0 ft										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water
1/25/11	-	-	-	-	8.0 ±

Sample ID

O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft)	18.3
Rock Cored (ft)	-
Samples	5G

Boring No. TG-10-19C

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-GEOPROBE-07-1 HAR HA-LIB07-R1.GLB HA-TB+CORE+WELL-07-1.GDT G:\36492\007\2011-0201 36492-007 PROBES.GPJ 18 Mar 11

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-22C

Project East Station Former MGP Site; Rochester, New York
Client Rochester Gas & Electric Corporation
Contractor Nothnagle Drilling, Inc.

File No. 36492-007
Sheet No. 1 of 2
Start 20 January 2011
Finish 20 January 2011
Driller J. Schweitzer
H&A Rep. S. Poff
Elevation 419.7
Datum NYS Barge Canal
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	MacroCore	-	Rig Make & Model: Geoprobe 6610DT
Inside Diameter (in.)	-	1.75	-	Bit Type: MC Cutting Shoe
Hammer Weight (lb)	-	-	-	Drill Mud: -
Hammer Fall (in.)	-	-	-	Casing: -
				Hoist/Hammer: - -
				PID Make & Model: RAE MiniRAE 3000

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G1 23	0.0 4.0		SM	Dark brown to gray silty SAND with gravel, 5% CLM, 5% concrete fragments, no odor, moist PID = 0.1 ppm	10	10	15	15	20	20	-	-	-	-
5		G2 12	4.0 8.0		SM	Similar to G1, except wet at approximately 7.2 ft, slight sheen, slight weathered petroleum-like odor (poor recovery) PID = 3.2 ppm										
		G3 35	8.0 12.0	411.2 8.5		-FILL-										
10					ML	Dark gray sandy SILT, trace clay, petroleum-like odor with naphthalene-like undertones, sheens common through the soil stratum, stained, occasional seams of clayey sand PID = 54.5 ppm	-	-	5	5	30	60	-	-	-	-
		G4 43	12.0 16.0		ML	Similar to above										
				405.2 14.5		-ALLUVIAL DEPOSITS-										
15					SM	Dark gray to black silty SAND with gravel, frequent seams of clayey sand, petroleum/naphthalene-like odor, moist, with seams containing sheens, trace brown OLM DNAPL, subrounded to subangular gravel PID = 162.5 ppm	10	15	15	10	15	35	-	-	-	-

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 21
Rock Cored (ft) -
Samples 6G

Boring No. TG-10-22C

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-GEOPROBE-07-1 HAR HA-LIB07-R1.GLB HA-TB+CORE+WELL-07-1.GDT G:\36492\007\2011-0201 36492-007 PROBES.GPJ 18 Mar 11

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-22C
File No. 36492-007
Sheet No. 2 of 2

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
		G5 48	16.0 20.0			Similar to G4 (below 14.5 ft)										
				399.7		-GLACIAL TILL-										
20		G6 12	20.0 21.0	20.0	GM	Yellow-brown to black silty GRAVEL with sand (decomposed shale), slight odor, no sheen, no DNAPL, moist PID = 17.2 ppm	25	25	15	10	5	20	-	-	-	-
				398.7 21.0		Note: Borehole caving in below 19.0 ft, terminated at 21.0 ft -WEATHERED BEDROCK- -Bottom of exploration at 21.0 ft										
						Environmental Samples Collected: S1=9.0 to 12.0 ft S2=20.0 to 21.0 ft										

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. TG-10-22C

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-23C

Project East Station Former MGP Site; Rochester, New York
Client Rochester Gas & Electric Corporation
Contractor Nothnagle Drilling, Inc.

File No. 36492-007
Sheet No. 1 of 1
Start 25 January 2011
Finish 25 January 2011
Driller J. Schweitzer
H&A Rep. S. Poff
Elevation 418.4
Datum NYS Barge Canal
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	MacroCore	-	Rig Make & Model: Geoprobe 6610DT
Inside Diameter (in.)	-	1.75	-	Bit Type: MC Cutting Shoe
Hammer Weight (lb)	-	-	-	Drill Mud: -
Hammer Fall (in.)	-	-	-	Casing: -
				Hoist/Hammer: - -
				PID Make & Model: RAE MiniRAE 3000

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G1 38	0.0 4.0	416.9 1.5	SM	Brown to light brown silty SAND with gravel, no odor, dry	5	15	20	20	25	15	-	-	-	-
					SC	Gray-brown to black clayey SAND with gravel, occasional pockets of black organics (decayed), slight weathered petroleum-like/musty odor, moist PID = 1.0 ppm	15	10	10	10	20	35	-	-	-	-
5		G2 42	4.0 8.0		SC	Similar to G1 (below 1.5 ft)										
		G3 39	8.0 12.0		SC	Similar to G2										
10				408.4 10.0	GC	Gray clayey GRAVEL with sand, 10% cobbles, weathered petroleum-like odor with acrid undertones, moist PID = 26.4 ppm	15	15	5	5	10	40	-	-	-	-
				406.4		-FILL-										
		G4 44	12.0 16.0	12.0	SP	Dark gray to black poorly-graded SAND with gravel, frequent cobbles, slight weathered petroleum-like odor, no sheen, wet PID = 1.7 ppm	20	15	20	25	15	5	-	-	-	-
15		G5 42	16.0 19.5		SP-SM	Similar to G4 PID = 3.5 ppm Note: Refusal at 19.5 ft										
				398.9 19.5		-ALLUVIAL DEPOSITS- -Bottom of exploration at 19.5 ft										
						Environmental Samples Collected: S1=5.0 to 7.0 ft S2=17.5 to 19.5 ft										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water
1/25/11	-	-	-	-	12.0 ±

Sample ID

O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft)	19.5
Rock Cored (ft)	-
Samples	5G

Boring No. TG-10-23C

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Toughness**: L - Low M - Medium H - High **Plasticity**: N - Nonplastic L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-GEOPROBE-07-1 HAR HA-LIB07-R1.GLB HA-TB+CORE+WELL-07-1.GDT G:\36492\007\2011-0201 36492-007 PROBES.GPJ 18 Mar 11

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-31C

Project East Station Former MGP Site; Rochester, New York
Client Rochester Gas & Electric Corporation
Contractor Nothnagle Drilling, Inc.

File No. 36492-007
Sheet No. 1 of 2
Start 27 January 2011
Finish 27 January 2011
Driller J. Schweitzer
H&A Rep. S. Poff
Elevation 424.2
Datum NYS Barge Canal
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	MacroCore	-	Rig Make & Model: Geoprobe 6610DT
Inside Diameter (in.)	-	1.75	-	Bit Type: MC Cutting Shoe
Hammer Weight (lb)	-	-	-	Drill Mud: -
Hammer Fall (in.)	-	-	-	Casing: -
				Hoist/Hammer: - -
				PID Make & Model: RAE MiniRAE 3000

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G1 35	0.0 4.0		SM	Brown to gray-brown silty SAND with gravel, 5% concrete pieces, no odor, dry PID = 0.0 ppm	10	20	15	10	25	15	-	-	-	-
		G2 37	4.0 8.0		SM	Similar to G1										
				417.4 6.8	SM	Gray to black silty SAND with gravel, approximately 20% CLM, 15% concrete, no odor, dry PID = 0.8 ppm	5	15	10	10	15	10	-	-	-	-
		G3 27	8.0 12.0			-FILL-										
				413.5 10.7	CL	Orange-brown to yellow-brown sandy CLAY with silt and gravel, no odor, moist PID = 0.0 ppm	10	15	15	10	10	40	-	-	-	-
		G4 40	12.0 16.0		CL	Similar to above										
15						-ALLUVIAL DEPOSITS-										

Water Level Data					
Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water
1/27/11	-	-	-	-	18.0 ±

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 24.5
Rock Cored (ft) -
Samples 7G
Boring No. TG-10-31C

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Toughness**: L - Low M - Medium H - High **Plasticity**: N - Nonplastic L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-GEOPROBE-07-1 HAR HA-LIB07-R1.GLB HA-TB+CORE+WELL-07-1.GDT G:\36492\0071\2011-0201 36492-007 PROBES.GPJ 18 Mar 11

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-31C
File No. 36492-007
Sheet No. 2 of 2

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
		G5 42	16.0 20.0		CL	Similar to G4										
				404.2												
20		G6 37	20.0 24.0	20.0	SM	Light brown to olive-brown silty SAND with gravel, weathered petroleum-like odor (diesel/fuel oil-like odor), slight sheen, wet PID = 14.5 ppm	15	25	25	10	10	15	-	-	-	-
						-ALLUVIAL DEPOSITS-										
				400.7 23.5	ML	Black to yellow-brown SILT, hard/compact, slight odor, dry (decomposed shale/siltstone) PID = 2.1 ppm	-	-	-	-	10	90	-	-	-	-
		G7 6	24.0 24.5	399.7 24.5		Note: Refusal at 24.5 ft										
						-WEATHERED BEDROCK-										
						-Bottom of exploration at 24.5 ft										
						Environmental Samples Collected: S1=7.0 to 9.0 ft S2=20.0 to 22.0 ft S3=24.0 to 24.5 ft										

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. TG-10-31C

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-35C

Project East Station Former MGP Site; Rochester, New York
Client Rochester Gas & Electric Corporation
Contractor Nothnagle Drilling, Inc.

File No. 36492-007
Sheet No. 1 of 2
Start 25 January 2011
Finish 25 January 2011
Driller J. Schweitzer
H&A Rep. S. Poff
Elevation 438.4
Datum NYS Barge Canal
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	MacroCore	-	Rig Make & Model: Geoprobe 6610DT
Inside Diameter (in.)	-	1.75	-	Bit Type: MC Cutting Shoe
Hammer Weight (lb)	-	-	-	Drill Mud: -
Hammer Fall (in.)	-	-	-	Casing: -
				Hoist/Hammer: - -
				PID Make & Model: RAE MiniRAE 3000

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G1 44	0.0 4.0		SM	Brown to light brown silty SAND with gravel, trace asphalt pieces, no odor, moist PID = 0.0 ppm	10	10	15	15	30	20	-	-	-	-
5		G2 43	4.0 8.0		SM	Similar to G1, except 5% brick, trace wood (lumber-type), frequent cobbles, no odor, moist PID = 0.0 ppm	10	10	15	10	30	20	-	-	-	-
10		G3 39	8.0 12.0		SM	Similar to G2, except 5% concrete, trace brick, frequent cobbles PID = 0.0 ppm										
15		G4 38	12.0 16.0		SM	Similar to G3, except occasional pocket of gray-brown silty sand, no odor to slight musty odor PID = 0.0 ppm										
20		G5 37	16.0 20.0		SM	Similar to G4 -FILL-										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water
1/25/11	-	-	-	-	26.0 ±

Sample ID

O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft)	39.5
Rock Cored (ft)	-
Samples	10G

Boring No. TG-10-35C

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-35C
File No. 36492-007
Sheet No. 2 of 2

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
20		G6 36	20.0 24.0		SM	Similar to G5, except bottom 9 in. is gravel/rock fragments (cobble)										
		G7 24	24.0 28.0		SM	Similar to G6, except wet at approximately 26.0 ft										
25						-FILL-										
				412.4 26.0	SM	Orange-brown silty SAND with gravel, no odor, wet PID = 0.0 ppm	15	20	10	15	25	15	-	-	-	-
				410.4												
		G8 14	28.0 32.0	28.0	GW-GM	Orange-brown to brown well-graded GRAVEL with silt and sand, no odor, wet, no sheen (poor recovery) PID = 0.0 ppm	20	30	15	15	10	10	-	-	-	-
30																
		G9 30	32.0 36.0	405.9 32.5	ML	Orange-brown to light brown sandy SILT, poorly stratified, no odor, wet, no sheen PID = 0.0 ppm	5	5	5	10	25	50	-	-	-	-
35																
		G10 44	36.0 39.5		ML	Similar to G9										
						-ALLUVIAL DEPOSITS-										
				400.2 38.2	ML	Light brown sandy SILT, with gravel, no odor, dry (completely weathered shale/siltstone) PID = 0.0 ppm										
				398.9 39.5		Note: Refusal at 39.5 ft										
						-WEATHERED BEDROCK-										
						-Bottom of exploration at 39.5 ft										
						Environmental Samples Collected: S1=24.0 to 26.0 ft S2=36.0 to 38.0 ft										

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. TG-10-35C

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-37C

Project East Station Former MGP Site; Rochester, New York
Client Rochester Gas & Electric Corporation
Contractor Nothnagle Drilling, Inc.

File No. 36492-007
Sheet No. 1 of 1
Start 27 January 2011
Finish 27 January 2011
Driller J. Schweitzer
H&A Rep. S. Poff
Elevation 425.8
Datum NYS Barge Canal
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	MacroCore	-	Rig Make & Model: Geoprobe 6610DT
Inside Diameter (in.)	-	1.75	-	Bit Type: MC Cutting Shoe
Hammer Weight (lb)	-	-	-	Drill Mud: -
Hammer Fall (in.)	-	-	-	Casing: -
				Hoist/Hammer: - -
				PID Make & Model: RAE MiniRAE 3000

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G1 34	0.0 4.0		SM	Brown silty SAND with gravel, trace brick, concrete, CLM, no odor, moist PID = 0.0 ppm	10	10	15	20	20	25	-	-	-	-
5		G2 27	4.0 8.0		SM	Similar to G1 PID = 0.0 ppm										
				418.8 7.0	SM	Similar to G1, except approximately 30% brick, no odor, moist PID = 0.0 ppm										
		G3 24	8.0 11.9		SM	Similar to G2 (below 7.0 ft), except wet at approximately 11.6 ft										
10						Note: Refusal at 11.9 ft										
				413.9 11.9		-FILL- -Bottom of exploration at 11.9 ft										
						Environmental Samples Collected: S1=2.0 to 4.0 ft S2=9.5 to 11.5 ft										
						Note: Offset 5 ft west to reattempt. Refusal at 11.9 ft with conditions similar to above										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water
1/27/11	-	-	-	-	11.6 ±

Sample ID

O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft)	11.9
Rock Cored (ft)	-
Samples	3G

Boring No. TG-10-37C

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Toughness**: L - Low M - Medium H - High **Plasticity**: N - Nonplastic L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-GEOPROBE-07-1 HAR HA-LIB07-R1.GLB HA-TB+CORE+WELL-07-1.GDT G:\36492\007\2011-0201 36492-007 PROBES.GPJ 18 Mar 11

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-39C

Project East Station Former MGP Site; Rochester, New York
Client Rochester Gas & Electric Corporation
Contractor Nothnagle Drilling, Inc.

File No. 36492-007
Sheet No. 1 of 2
Start 25 January 2011
Finish 25 January 2011
Driller J. Schweitzer
H&A Rep. S. Poff
Elevation 418.7
Datum NYS Barge Canal
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	MacroCore	-	Rig Make & Model: Geoprobe 6610DT
Inside Diameter (in.)	-	1.75	-	Bit Type: MC Cutting Shoe
Hammer Weight (lb)	-	-	-	Drill Mud: -
Hammer Fall (in.)	-	-	-	Casing: -
				Hoist/Hammer: - -
				PID Make & Model: RAE MiniRAE 3000

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G1 37	0.0 4.0	418.4 0.3	SM	-TOPSOIL-										
						Brown to light brown silty SAND with gravel, 5% total brick and concrete, trace asphalt pieces, no odor, moist PID = 0.0 ppm	10	10	10	15	25	25	-	-	-	-
		G2 44	4.0 8.0		SM	Similar to G1, except with trace clay PID = 0.0 ppm										
5																
		G3 35	8.0 12.0		SM	Similar to G2, except trace wood (lumber type, wood odor only) PID = 0.1 ppm										
10																
		G4 30	12.0 16.0		SM	Similar to G3 PID = 0.0 ppm										
				404.7 14.0	SC	Olive-brown to gray-brown clayey SAND with gravel, no odor, moist PID = 0.4 ppm	5	15	15	10	25	20	-	-	-	-
15						-FILL-										

Water Level Data					
Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water
1/25/11	-	-	-	-	19.0 ±

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 24
Rock Cored (ft) -
Samples 6G
Boring No. TG-10-39C

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-GEOPROBE-07-1 HAR HA-LIB07-R1.GLB HA-TB+CORE+WELL-07-1.GDT G:\36492\007\2011-0201 36492-007 PROBES.GPJ 18 Mar 11

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-39C
File No. 36492-007
Sheet No. 2 of 2

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
		G5 39	16.0 20.0		SC	Similar to G4 (below 14.0 ft)										
				399.9 18.8												
				399.2 19.5		Dark brown to dark gray COAL ASH/CINDERS with CLM, slight sheen and petroleum-like odor from approximately 19.0 to 19.5 ft	-	-	10	35	50	5	-	-	-	-
20					CL	PID = 73.4 ppm	-	-	-	5	15	80	N	M	L-M	-
		G6 41	20.0 24.0			-FILL- Olive-brown to yellow-brown CLAY with sand, frequent seams of fine sand with sheen, petroleum-like odor and brown OLM coating sand grains, wet, stratified										
						PID = 174.1 ppm										
				395.7 23.0		Light brown clayey SILT with sand (completely weathered shale/siltstone), no odor, dry, occasional gray-stained seam	-	5	5	5	5	80	-	-	-	
				394.7 24.0		PID = 20.8 ppm -WEATHERED BEDROCK- -Bottom of exploration at 24.0 ft										

Environmental Samples Collected:
S1=5.0 to 7.0 ft
S2=21.0 to 23.0 ft

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. TG-10-39C

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-41C

Project East Station Former MGP Site; Rochester, New York
Client Rochester Gas & Electric Corporation
Contractor Nothnagle Drilling, Inc.

File No. 36492-007
Sheet No. 1 of 2
Start 27 January 2011
Finish 27 January 2011
Driller J. Schweitzer
H&A Rep. S. Poff
Elevation 413.8
Datum NYS Barge Canal
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	MacroCore	-	Rig Make & Model: Geoprobe 6610DT
Inside Diameter (in.)	-	1.75	-	Bit Type: MC Cutting Shoe
Hammer Weight (lb)	-	-	-	Drill Mud: -
Hammer Fall (in.)	-	-	-	Casing: -
				Hoist/Hammer: - -
				PID Make & Model: RAE MiniRAE 3000

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G1 31	0.0 4.0		SM	Gray-brown to brown silty SAND with gravel, no odor, dry	-	20	25	20	20	15	-	-	-	-
				412.5 1.3		Black CLM and COAL CINDERS with ALM, sand-sized particles, no odor, dry, with pocket of red and black clay from approximately 3.2 to 3.5 ft PID = 0.0 ppm										
		G2 33	4.0 8.0			Similar to above, except with 30% silty fine sand										
5				407.8 6.0	SC	Yellow-brown to gray-brown clayey SAND, no odor, moist PID = 0.0 ppm	-	10	15	15	30	30	-	-	-	-
				406.8 7.0	SM	Gray to pink silty SAND, no odor, dry, reactive with HCl, with trace brick fragments (possible decomposed cement/mortar) PID = 0.0 ppm	-	10	5	15	55	15	-	-	-	-
		G3 36	8.0 12.0	405.3 8.5	SM	Gray brown silty SAND with gravel, trace brick, coal, CLM, no odor, moist PID = 0.0 ppm	5	10	15	25	30	15	-	-	-	-
10				403.8 10.0		Blue-gray to white LIME/MORTAR, no odor, dry, granular										
				403.4 10.4	ML	PID = 0.0 ppm Black sandy SILT, trace gravel, slight organic (swamp-like) odor, moist PID = 1.8 ppm	-	-	-	-	40	60	N	L	L	-
		G4 38	12.0 16.0													
				400.3 13.5	CL	Similar to G3 (below 10.4 ft), except sandy CLAY	-	-	-	-	30	70	N	M	M	-
15						-FILL-										
				398.5 15.3	SM	Black silty SAND, no odor, moist PID = 0.8 ppm	-	-	5	30	45	20	-	-	-	-

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water
1/27/11	-	-	-	-	20.0 ±

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (ft) 31.8
Rock Cored (ft) -
Samples 8G

Boring No. TG-10-41C

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-GEOPROBE-07-1 HAR HA-LIB07-R1.GLB HA-TB+CORE+WELL-07-1.GDT G:\36492\007\2011-0201 36492-007 PROBES.GPJ 18 Mar 11

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-41C
File No. 36492-007
Sheet No. 2 of 2

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
		G5 45	16.0 20.0	396.8 17.0	SM	Black silty SAND, no odor, moist -FILL-	-	-	5	30	45	20	-	-	-	-
					CL	Yellow-brown to tan silty CLAY, laminated, no odor, moist; frequent light gray stained seams, occasional gravel pockets (generally stained black) PID = 1.5 ppm (stained) -GLACIOLACUSTRINE DEPOSITS-	-	-	-	-	5	95	N	H	M-H	-
20		G6 26	20.0 24.0	393.8 20.0	CL	Yellow-brown to black sandy CLAY with gravel, petroleum/naphthalene-like odor, moist, frequent gravelly lenses or layers exhibit stain, odor, sheen and some (at approximately 25, 25.5, 26.3 and 27.6 ft) contain brown OLM DNAPL coating grain surfaces (lens/layer thickness with OLM generally 1 to 3 in.)										
25		G7 32	24.0 28.0			Similar to G6 PID (unstained)=1.5 ppm; PID (stained)=28.7 ppm; PID (OLM)=201.6 ppm										
30		G8 35	28.0 31.8			Similar to G7 -GLACIAL TILL-										
				382.8 31.0 382.0 31.8	ML	Yellow-brown SILT with sand, no odor, dry (decomposed shale/siltstone) PID = 3.0 ppm Note: Refusal at 31.9 ft -WEATHERED BEDROCK- -Bottom of exploration at 31.8 ft	-	-	-	-	10	90	-	-	-	-

Environmental Samples Collected:
S1=3.0 to 5.0 ft
S2=11.0 to 13.0 ft
S3=18.0 to 20.0 ft
S4= 31.0 to 31.8 ft

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. TG-10-41C

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-42C

Project East Station Former MGP Site; Rochester, New York
Client Rochester Gas & Electric Corporation
Contractor Nothnagle Drilling, Inc.

File No. 36492-007
Sheet No. 1 of 2
Start 25 January 2011
Finish 25 January 2011
Driller J. Schweitzer
H&A Rep. S. Poff
Elevation 425.2
Datum NYS Barge Canal
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	MacroCore	-	Rig Make & Model: Geoprobe 6610DT
Inside Diameter (in.)	-	1.75	-	Bit Type: MC Cutting Shoe
Hammer Weight (lb)	-	-	-	Drill Mud: -
Hammer Fall (in.)	-	-	-	Casing: -
				Hoist/Hammer: - -
				PID Make & Model: RAE MiniRAE 3000

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G1 41	0.0 4.0		SM	Brown to light brown silty SAND with gravel, trace concrete, asphalt, no odor, dry PID = 0.0 ppm	10	10	10	10	45	15				
				422.2 3.0	SM	Gray-brown silty SAND with gravel, slight weathered petroleum-like (diesel-like) odor, moist	5	10	10	5	50	20	-	-	-	-
		G2 28	4.0 8.0	421.2 4.0	SM	PID = 24.7 ppm Similar to G1 (below 3.0 ft), except slight odor PID = 5.5 ppm										
5				419.2 6.0	SM	Brown to gray-brown to yellow-brown silty SAND with gravel, 5% brick, no odor, moist PID = 0.0 ppm	15	10	10	15	25	20	-	-	-	-
		G3 38	8.0 12.0		SM	Similar to G2 (below 6.0 ft), except with layer of black COAL CINDERS and CLM from approximately 10.0 to 10.3 ft PID = 0.2 ppm										
10		G4 38	12.0 16.0		SM	Similar to G3, except frequent cobbles, no cinder/CLM, dry PID = 0.0 ppm										
				412.2 13.0	SC	-FILL- Yellow-brown to light brown clayey SAND with gravel, no odor, moist PID = 0.0 ppm	10	15	10	10	25	630	-	-	-	-
15		G5 24	16.0 20.0		SC	Similar to G4 (below 13.0 ft), except orange-brown to brown										
				407.2 18.0	GW	Yellow-brown to light brown well-graded GRAVEL with sand, no odor, wet, no sheen PID = 0.0 ppm -ALLUVIAL DEPOSITS-	20	30	20	15	10	5	-	-	-	-
20																

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water
1/25/11	-	-	-	-	18.0 ±

Sample ID

O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft)	24.5
Rock Cored (ft)	-
Samples	7G

Boring No. TG-10-42C

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-42C
File No. 36492-007
Sheet No. 2 of 2

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
20		G6 20	20.0 24.0		GW	Similar to G5 (below 18.0 ft)										
				401.2		-ALLUVIAL DEPOSITS-										
		G7 2	24.0 24.5	24.0 400.7 24.5	GP	Yellow-brown to light brown GRAVEL with sand (decomposed rock), petroleum-like odor with naphthalene-like undertones, brown OLM DNAPL partially coating surfaces of rock within fractures PID = 89.6 ppm -WEATHERED BEDROCK- -Bottom of exploration at 24.5 ft	40	35	10	5	5	5	-	-	-	-

Environmental Samples Collected:
S1=3.0 to 5.0 ft
S2=16.0 to 18.0 ft

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. TG-10-42C

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-44C

Project East Station Former MGP Site; Rochester, New York
Client Rochester Gas & Electric Corporation
Contractor Nothnagle Drilling, Inc.

File No. 36492-007
Sheet No. 1 of 1
Start 26 January 2011
Finish 26 January 2011
Driller J. Schweitzer
H&A Rep. S. Poff
Elevation 399.9
Datum NYS Barge Canal
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	MacroCore	-	Rig Make & Model: Geoprobe 6610DT
Inside Diameter (in.)	-	1.75	-	Bit Type: MC Cutting Shoe
Hammer Weight (lb)	-	-	-	Drill Mud: -
Hammer Fall (in.)	-	-	-	Casing: -
				Hoist/Hammer: - -
				PID Make & Model: RAE MiniRAE 3000

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G1 40	0.0 4.0	399.4 0.5	SM	-TOPSOIL-										
						Brown silty SAND, no odor, moist PID = 0.0 ppm	-	-	-	-	80	20	-	-	-	-
				396.6 3.3	SM	Gray-brown to brown silty SAND with gravel, trace CLM, slight acrid odor, moist PID = 0.6 ppm	5	15	10	15	35	20	-	-	-	-
5		G2 42	4.0 8.0			Similar to G1 (below 3.3 ft)										
				393.1 6.8		Black, CLM with sand (~30% sand), sand-sized CLM particles, acrid odor, dry PID = 16.7 ppm										
		G3 36	8.0 12.0	392.5 7.4		Similar to above (between 3.3 and 6.8 ft)										
10				389.7 10.2	SP	Yellow-brown poorly-graded SAND with gravel, no odor, wet, no sheen PID = 0.0 ppm	15	20	25	15	20	5	-	-	-	-
		G4 36	12.0 16.0	387.4 12.5		Black CLM (sand- and gravel-sized), 5% brick, 5% wood fibers, strong acrid odor resembling wet ash with sweet undertones, occasional spotty sheen PID = 69.5 ppm										
15						Note: Semi-plastic globule of TLM from approximately 14.6 to 14.8 ft PID = 186.7 ppm										
		G5 38	16.0 19.5	383.9 16.0		Similar to G4, except approximately 50% CLM, 50% brick particles, trace ALM, trace wood fibers, odors and sheens similar to G4 PID = 68.3 ppm										
				380.4 19.5		-FILL-										
						-Bottom of exploration at 19.5 ft										
						Environmental Samples Collected: S1=1.0 to 3.0 ft S2=8.0 to 10.0 ft										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water
1/26/11	-	-	-	-	10.0 ±

Sample ID

O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft)	19.5
Rock Cored (ft)	-
Samples	5G
Boring No.	**TG-10-44C**

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-GEOPROBE-07-1 HAR HA-LIB07-R1.GLB HA-TB+CORE+WELL-07-1.GDT G:\36492\0072011-0201 36492-007 PROBES.GPJ 18 Mar 11

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-46C

Project East Station Former MGP Site; Rochester, New York
Client Rochester Gas & Electric Corporation
Contractor Nothnagle Drilling, Inc.

File No. 36492-007
Sheet No. 1 of 1
Start 26 January 2011
Finish 26 January 2011
Driller J. Schweitzer
H&A Rep. S. Poff
Elevation 400.2
Datum NYS Barge Canal
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	MacroCore	-	Rig Make & Model: Geoprobe 6610DT
Inside Diameter (in.)	-	1.75	-	Bit Type: MC Cutting Shoe
Hammer Weight (lb)	-	-	-	Drill Mud: -
Hammer Fall (in.)	-	-	-	Casing: -
				Hoist/Hammer: - -
				PID Make & Model: RAE MiniRAE 3000

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G1 45	0.0 4.0	399.4 0.8		-TOPSOIL-										
					SM	Light brown silty SAND, no odor, moist	-	-	-	-	85	15	-	-	-	-
				397.5 2.7	SP-SM	Light brown poorly-graded SAND with silt, slight acrid/modeling glue-like odor, dry	-	5	20	25	40	10	-	-	-	-
				396.7 3.5	SM	PID = 25.0 ppm	-	10	15	15	30	15	-	-	-	-
5		G2 46	4.0 8.0			Dark gray to green-gray silty SAND,10% CLM, 5% brick particles, acrid odor with sweet undertones, dry PID = 12.1 ppm										
				394.2 6.0	SM	Dark brown clayey SAND, 5% brick particles, acrid odor with sweet undertones, dry PID = 1.7 ppm	-	5	10	10	40	30	-	-	-	-
				392.9 7.3	ML	Gray to blue sandy SILT, with decayed wood chip fragments, acrid odor resembling wet ash with sweet (glue-like) undertones, dry	-	-	10	10	30	50	-	-	-	-
		G3 27	8.0 12.0	391.7 8.5	OL/WF	PID = 11.5 ppm Dark brown ORGANIC SILT and WOOD FIBERS, acrid odor resembling wet ash with sweet (glue-like) undertones, moist PID = 130.8 ppm										
10				389.2 11.0		Gray to black CLM and BRICK particles, occasional thin pockets of silty sand with gravel, musty/ash-like odor, wet at approximately 15.8 ft, no sheen Similar to G3 (below 11.0 ft)										
		G4 23	12.0 16.0													
15																
		G5 14	16.0 18.5			Similar to G4, except with gravel/rock fill Note: Refusal at 18.5 ft										
				381.7 18.5		-FILL- -Bottom of exploration at 18.5 ft										
						Environmental Samples Collected: S1=4.0 to 6.0 ft S2=8.0 to 10.0 ft										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water
1/26/11	-	-	-	-	15.8 ±

Sample ID

O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft)	18.5
Rock Cored (ft)	-
Samples	5G

Boring No. TG-10-46C

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Toughness**: L - Low M - Medium H - High **Plasticity**: N - Nonplastic L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-GEOPROBE-07-1 HAR HA-LIB07-R1.GLB HA-TB+CORE+WELL-07-1.GDT G:\36492\00712011-0201 36492-007 PROBES.GPJ 18 Mar 11

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-48C

Project East Station Former MGP Site; Rochester, New York
Client Rochester Gas & Electric Corporation
Contractor Nothnagle Drilling, Inc.

File No. 36492-007
Sheet No. 1 of 1
Start 27 January 2011
Finish 27 January 2011
Driller J. Schweitzer
H&A Rep. S. Poff
Elevation 400.6
Datum NYS Barge Canal
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	MacroCore	-	Rig Make & Model: Geoprobe 6610DT
Inside Diameter (in.)	-	1.75	-	Bit Type: MC Cutting Shoe
Hammer Weight (lb)	-	-	-	Drill Mud: -
Hammer Fall (in.)	-	-	-	Casing: -
				Hoist/Hammer: - -
				PID Make & Model: RAE MiniRAE 3000

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G1 42	0.0 – 4.0	400.3 / 0.3	SM	-TOPSOIL-										
						Light brown to brown silty SAND, no odor, wet (perched water), no sheen PID = 0.0 ppm	-	-	-	-	75	25	-	-	-	-
				397.2 / 3.4	SP-SM	Light brown to tan to gray poorly-graded SAND with silt, slight musty/acrid odor resembling wet ash with sweet to glue-like undertones, dry	-	5	20	25	40	10	-	-	-	-
				396.7 / 3.9	SM	PID = 13.4 ppm	-	5	10	20	20	15	-	-	-	-
5		G2 39	4.0 – 8.0		SM	Dark gray to green-gray silty SAND, approximately 30% CLM particles, trace wood fibers, moderate musty/acrid odor resembling wet ash with sweet to glue-like undertones, dry PID = 18.9 ppm										
				393.1 / 7.5		Yellow-brown to orange to black CLM and COAL CINDERS (approximately 70%) with silt and sand, moderate musty/acrid odor resembling wet ash with sweet to glue-like undertones PID = 2.1 ppm	-	-	5	5	10	10	-	-	-	-
		G3 28	8.0 – 12.0			Similar to G2 (below 7.5 ft), except wet at approximately 10.5 ft PID = 3.7 ppm										
10				388.6 / 12.0		Similar to G3, except dark brown, slight sheen										
		G4 30	12.0 – 16.0	386.6 / 14.0		Gray to black to red-brown CLM and BRICK particles, with WOOD FIBERS, slight sheen throughout, strong musty/acrid odor resembling wet ash with sweet to glue-like undertones, wet PID = 113.8 ppm										
15				384.6 / 16.0		Similar to G4 (below 14.0 ft), except trace wood fibers PID = 17.6 ppm										
		G5 12	16.0 – 18.5			Note: Refusal at 18.5 ft										
				382.1 / 18.5		-FILL-										
						-Bottom of exploration at 18.5 ft										
						Environmental Samples Collected: S1=1.0 to 3.0 ft S2=8.5 to 10.5 ft										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water
1/27/11	-	-	-	-	10.5 ±

Sample ID

O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft)	18.5
Rock Cored (ft)	-
Samples	5G

Boring No. TG-10-48C

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-GEOPROBE-07-1 HAR HA-LIB07-R1.GLB HA-TB+CORE+WELL-07-1.GDT G:\36492\007\2011-0201 36492-007 PROBES.GPJ 18 Mar 11

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-52C

Project East Station Former MGP Site; Rochester, New York
Client Rochester Gas & Electric Corporation
Contractor Nothnagle Drilling, Inc.

File No. 36492-007
Sheet No. 1 of 2
Start 27 January 2011
Finish 27 January 2011
Driller J. Schweitzer
H&A Rep. S. Poff
Elevation 405.8
Datum NYS Barge Canal
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	MacroCore	-	Rig Make & Model: Geoprobe 6610DT
Inside Diameter (in.)	-	1.75	-	Bit Type: MC Cutting Shoe
Hammer Weight (lb)	-	-	-	Drill Mud: -
Hammer Fall (in.)	-	-	-	Casing: -
				Hoist/Hammer: - -
				PID Make & Model: RAE MiniRAE 3000

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G1 27	0.0 4.0	405.5 0.3	SP-SM	-TOPSOIL- Light brown poorly-graded SAND with silt, no odor, dry PID = 0.0 ppm	-	-	-	-	90	10	-	-	-	-
		G2 25	4.0 8.0		SP-SM	Similar to G1										
5				400.3 5.5	SM	Light brown to yellow-brown to gray-brown silty SAND with gravel, 10% brick and concrete fragments, 10% CLM particles, no odor, dry PID = 2.4 ppm	10	15	10	10	20	15	-	-	-	-
		G3 24	8.0 12.0		SM	Similar to G2 (below 5.5 ft) PID = 1.9 ppm										
10		G4 32	12.0 16.0		SM	Similar to G3, except wet at approximately 14.0 ft PID = 2.2 ppm										
15				390.6 15.2		-FILL- Black WOOD FIBERS, petroleum/naphthalene-like odor, wet, sheen throughout, possible trace black TLM coating on surfaces										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water
1/27/11	-	-	-	-	14.0 ±

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft)	21
Rock Cored (ft)	-
Samples	5G
Boring No.	**TG-10-52C**

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Toughness**: L - Low M - Medium H - High **Plasticity**: N - Nonplastic L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-GEOPROBE-07-1 HAR HA-LIB07-R1.GLB HA-TB+CORE+WELL-07-1.GDT G:\36492\007\2011-0201 36492-007 PROBES.GPJ 18 Mar 11

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-52C
File No. 36492-007
Sheet No. 2 of 2

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
		G5 36	16.0 20.0	389.3 16.5		PID = 28.6 ppm Similar to G4 (below 15.2 ft)	-	-	-	-	10	15	-	-	-	-
						Black CLM and BRICK particles with silt and sand, wet, rainbow sheens common, black to dark brown TLM coating most surfaces PID = 215.8 ppm										
20		G6 10	20.0 21.0			Similar to G5 (below 16.5 ft)										
				384.8 21.0		-FILL- -Bottom of exploration at 21.0 ft										
						Environmental Samples Collected: S1=12.0 to 14.0 ft										

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. TG-10-52C

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-55C

Project East Station Former MGP Site; Rochester, New York
Client Rochester Gas & Electric Corporation
Contractor Nothnagle Drilling, Inc.

File No. 36492-007
Sheet No. 1 of 2
Start 25 January 2011
Finish 25 January 2011
Driller J. Schweitzer
H&A Rep. S. Poff
Elevation 411.9
Datum NYS Barge Canal
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	MacroCore	-	Rig Make & Model: Geoprobe 6610DT
Inside Diameter (in.)	-	1.75	-	Bit Type: MC Cutting Shoe
Hammer Weight (lb)	-	-	-	Drill Mud: -
Hammer Fall (in.)	-	-	-	Casing: -
				Hoist/Hammer: - -
				PID Make & Model: RAE MiniRAE 3000

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G1 33	0.0 4.0	411.2 0.7		-TOPSOIL- (frozen)										
					SM	Light brown silty SAND, occasional root fibers, no odor, moist PID = 0.0 ppm	-	-	-	5	75	20	-	-	-	-
				408.6 3.3												
5		G2 24	4.0 8.0			Black CLM and COAL CINDERS (sand- and fine gravel-sized particles dominate), no odor, dry PID = 0.3 ppm										
		G3 22	8.0 12.0			Similar to G2 PID = 0.3 ppm										
10		G4 28	12.0 16.0			Similar to G3 PID = 1.0 ppm										
15						-FILL-										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water
1/25/11	-	-	-	-	18.6 ±

Sample ID

O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft)	25.5
Rock Cored (ft)	-
Samples	7G

Boring No. TG-10-55C

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-GEOPROBE-07-1 HAR HA-LIB07-R1.GLB HA-TB+CORE+WELL-07-1.GDT G:\36492\007\2011-0201 36492-007 PROBES.GPJ 18 Mar 11

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-55C
File No. 36492-007
Sheet No. 2 of 2

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
15				395.9												
		G5 29	16.0 20.0	16.0		Similar to G4, except slight weathered petroleum-like odor PID = 21.6 ppm										
				393.3												
				18.6		Similar to above, except slight weathered petroleum/naphthalene-like odor, wet, slight sheen PID = 68.6 ppm										
				392.2		-FILL-										
20		G6 30	20.0 24.0	19.7	SM	Light brown silty SAND with gravel, frequent pockets and seams stained gray, weathered petroleum-like odor with naphthalene-like undertones, slight sheen PID = 71.2 ppm	15	15	10	10	20	30	-	-	-	-
				389.9												
				22.0	SP-SM	Black poorly-graded SAND with silt and gravel, black stained, petroleum/naphthalene-like odor, wet, slight sheen, occasional blebs of black TLM, black TLM occasionally present as coating on particles PID = 205 ppm	10	20	10	15	35	10	-	-	-	-
						-ALLUVIAL DEPOSITS-										
		G7 15	24.0 25.5	387.6 24.3	SC	Yellow-brown clayey SAND, occasional seam with gray stain, slight odor, moist PID = 49.9 ppm	-	-	-	10	25	65	-	-	-	-
25				386.4 25.5		Note: Refusal at 25.5 ft										
						-WEATHERED BEDROCK-										
						-Bottom of exploration at 25.5 ft										
						Environmental Samples Collected: S1=16.0 to 18.6 ft S2=19.7 to 22.0 ft S3=22.0 to 24.3 ft										

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. TG-10-55C

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-56C

Project East Station Former MGP Site; Rochester, New York
Client Rochester Gas & Electric Corporation
Contractor Nothnagle Drilling, Inc.

File No. 36492-007
Sheet No. 1 of 2
Start 26 January 2011
Finish 26 January 2011
Driller J. Schweitzer
H&A Rep. S. Poff
Elevation 415.9
Datum NYS Barge Canal
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	MacroCore	-	Rig Make & Model: Geoprobe 6610DT
Inside Diameter (in.)	-	1.75	-	Bit Type: MC Cutting Shoe
Hammer Weight (lb)	-	-	-	Drill Mud: -
Hammer Fall (in.)	-	-	-	Casing: -
				Hoist/Hammer: - -
				PID Make & Model: RAE MiniRAE 3000

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G1 23	0.0 4.0	415.6 0.3	SP-SM	-BITUMINOUS CONCRETE-										
						Gray-brown poorly-graded SAND with silt and gravel, no odor, dry PID = 0.0 ppm	20	20	15	10	25	10	-	-	-	-
				413.9 2.0	SP-SM	Brown poorly-graded SAND with silt, no odor, dry PID = 0.0 ppm	-	10	-	5	75	10	-	-	-	-
		G2 36	4.0 8.0		SP-SM	Similar to G1 (below 2.0 ft), except trace brick										
5				410.9 5.0		Gray to white to beige LIME, no odor to slight musty odor with acrid undertones, dry, granular, reactive with HCl PID = 0.4 ppm	-	5	10	25	55	5	-	-	-	-
		G3 40	8.0 12.0	407.4 8.5		Similar to G2 (below 5.0 ft), except gray										
					SM	Dark brown silty SAND, trace brick, no odor, dry PID = 0.6 ppm	-	10	20	20	35	15	-	-	-	-
10				405.2 10.7		-FILL-										
					SP	Black poorly-graded SAND, petroleum-like odor, wet, sheen PID = 77.6 ppm	-	5	20	35	35	5	-	-	-	-
		G4 38	12.0 16.0	404.2 11.7	SM	Black silty SAND, petroleum-like odor with naphthalene-like undertones, wet, sheen PID = 46.8 ppm	-	-	-	-	80	20	-	-	-	-
						-ALLUVIAL DEPOSITS-										
15				400.9 15.0	CL	Black silty CLAY with sand, slight petroleum-like odor, moist PID = 14.6 ppm	-	-	-	5	20	75	-	-	-	-

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water
1/26/11	-	-	-	-	10.7 ±

Sample ID

O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft)	20.8
Rock Cored (ft)	-
Samples	6G

Boring No. TG-10-56C

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-GEOPROBE-07-1 HAR HA-LIB07-R1.GLB HA-TB+CORE+WELL-07-1.GDT G:\36492\0071\2011-0201 36492-007 PROBES.GPJ 18 Mar 11

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-56C
File No. 36492-007
Sheet No. 2 of 2

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
		G5 35	16.0 20.0			Similar to G4 (below 15.0 ft) PID = 12.7 ppm										
				397.7 18.2	SM	Black silty SAND, strong petroleum-like odor with naphthalene-like undertones, wet, grains generally coated with black TLM PID = 422.3 ppm	-	-	5	5	10	80	-	-	-	-
				397.2 18.7	ML	-ALLUVIAL DEPOSITS- Yellow-brown SILT with sand, compact, well bonded in-situ, no odor, wet PID = 22.4 ppm										
20		G6 6	20.0 20.8	395.4 20.5		-GLACIAL TILL- Note: Refusal at 20.8 ft										
				395.1 20.8		-WEATHERED BEDROCK- -Bottom of exploration at 20.8 ft										

Environmental Samples Collected:
S1=5.0 to 8.0 ft
S2=15.0 to 18.0 ft

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. TG-10-56C

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-57C

Project East Station Former MGP Site; Rochester, New York
Client Rochester Gas & Electric Corporation
Contractor Nothnagle Drilling, Inc.

File No. 36492-007
Sheet No. 1 of 2
Start 27 January 2011
Finish 27 January 2011
Driller J. Schweitzer
H&A Rep. S. Poff
Elevation 406.4
Datum NYS Barge Canal
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	MacroCore	-	Rig Make & Model: Geoprobe 6610DT
Inside Diameter (in.)	-	1.75	-	Bit Type: MC Cutting Shoe
Hammer Weight (lb)	-	-	-	Drill Mud: -
Hammer Fall (in.)	-	-	-	Casing: -
				Hoist/Hammer: - -
				PID Make & Model: RAE MiniRAE 3000

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G1 39	0.0 4.0	406.0 0.4	SM	-TOPSOIL- Brown silty SAND with gravel, frequent bricks from approximately 2.0 to 2.5 ft, no odor, moist PID = 0.0 ppm	10	10	20	15	20	25	-	-	-	-
				403.4 3.0		Gray to black to white LIME and CLM with coal cinders, slight musty odor, dry PID = 0.0 ppm										
		G2 25	4.0 8.0	401.9 4.5	SM	Gray-brown silty SAND with gravel, trace lime, CLM, slight musty odor, moist PID = 0.0 ppm	10	20	15	20	20	15	-	-	-	-
5				400.9 5.5	CL	Yellow-brown to brown CLAY with sand, no odor, wet PID = 0.0 ppm	-	-	-	5	20	75	-	-	-	-
		G3 0	8.0 12.0			No recovery, very loose materials -FILL-										
10				396.4 10.0		Note: Stratum at 10.0 ft estimated/inferred										
		G4 40	12.0 16.0		CL	Olive-brown to tan silty CLAY, laminated, no odor, wet PID = 0.0 ppm	-	-	-	-	5	95	-	-	-	-
15				390.4 16.0	ML	Yellow-brown to light brown sandy SILT, no odor, wet, no sheen PID = 0.0 ppm	-	-	5	10	35	50	-	-	-	-
		G5 46	16.0 20.0	388.4 18.0	GW	Yellow-brown to gray-brown well-graded GRAVEL with sand, frequent cobbles, no odor, wet, no sheen -ALLUVIAL DEPOSITS-	30	25	25	10	5	5	-	-	-	-
20																

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water
1/27/11	-	-	-	-	12.0 ±

Sample ID

O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft)	21.5
Rock Cored (ft)	-
Samples	6G

Boring No. TG-10-57C

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Toughness**: L - Low M - Medium H - High **Plasticity**: N - Nonplastic L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-GEOPROBE-07-1 HAR HA-LIB07-R1.GLB HA-TB+CORE+WELL-07-1.GDT G:\36492\007\2011-0201 36492-007 PROBES.GPJ 18 Mar 11

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GEOPROBE REPORT DRAFT

Boring No. TG-10-57C
File No. 36492-007
Sheet No. 2 of 2

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
20		G6 10	20.0 21.5			Similar to G5 (below 18.0 ft) PID = 0.0 ppm Note: Refusal at 21.5 ft										
				384.9 21.5		-ALLUVIAL DEPOSITS- -Bottom of exploration at 21.5 ft										
						Environmental Samples Collected: S1=3.0 to 4.5 ft S2=5.5 to 7.5 ft										

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. TG-10-57C

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-58C

Project East Station Former MGP Site; Rochester, New York
Client Rochester Gas & Electric Corporation
Contractor Nothnagle Drilling, Inc.

File No. 36492-007
Sheet No. 1 of 2
Start 21 January 2011
Finish 21 January 2011
Driller J. Schweitzer
H&A Rep. S. Poff
Elevation 416.3
Datum NYS Barge Canal
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	MacroCore	-	Rig Make & Model: Geoprobe 6610DT
Inside Diameter (in.)	-	1.75	-	Bit Type: MC Cutting Shoe
Hammer Weight (lb)	-	-	-	Drill Mud: -
Hammer Fall (in.)	-	-	-	Casing: -
				Hoist/Hammer: - -
				PID Make & Model: RAE MiniRAE 3000

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G1 25	0.0 4.0	416.0 0.3	SM	-TOPSOIL-										
						Brown to yellow-brown to gray silty SAND, trace gravel, asphalt, no odor, dry, layered fills PID = 0.1 ppm	-	-	5	10	60	25	-	-	-	-
				412.3												
		G2 30	4.0 8.0	4.0	SM	Similar to G1, except 5% brick, 5% CLM from approximately 4.0 to 7.3 ft PID = 0.0 ppm	-	-	5	10	55	20	-	-	-	-
5				408.9												
				7.4 408.3		Light gray to white LIME, trace CLM, reactive with HCl, no odor, moist, PID = 0.0 ppm										
		G3 20	8.0 12.0	8.0		Similar to above, except trace LIME PID = 0.0 ppm										
10				406.3												
				10.0	ML	Yellow-brown to gray-brown to olive-brown sandy SILT, slight weathered petroleum-like odor, wet, no sheen PID = 0.6 ppm	-	-	5	10	35	50	-	-	-	-
		G4 29	12.0 16.0			Similar to G3 (below 10.0 ft)										
						-FILL-										
				401.8 14.5	ML	Yellow-brown to light brown SILT with sand, occasional layers of silty clay (up to approximately 1 in. thick), slight odor, wet PID = 1.8 ppm	-	-	-	-	20	80	-	-	-	-
15																

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water
1/21/11	-	-	-	-	10.0 ±

Sample ID

O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Splitspoon Sample
G - Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft)	17.4
Rock Cored (ft)	-
Samples	5G

Boring No. TG-10-58C

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-GEOPROBE-07-1 HAR HA-LIB07-R1.GLB HA-TB+CORE+WELL-07-1.GDT G:\36492\007\2011-0201 36492-007 PROBES.GPJ 18 Mar 11

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-58C
File No. 36492-007
Sheet No. 2 of 2

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
		G5 12	16.0 17.4	399.5 16.8		Similar to G3 (below 14.5 ft) -ALLUVIAL DEPOSITS-										
				398.9 17.4	ML	Light brown SILT (completely weathered shale), occasional seam (< 1/16 in. thick) with gray stain, slight odor, dry PID = 1.4 ppm Note: Refusal at 17.4 ft -WEATHERED BEDROCK- -Bottom of exploration at 17.4 ft		-	-	-	10	90	-	-	-	-

Environmental Samples Collected:
S1=5.0 to 7.5 ft
S2=10.0 to 12.0 ft

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. TG-10-58C

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-68C

Project East Station Former MGP Site; Rochester, New York
Client Rochester Gas & Electric Corporation
Contractor Nothnagle Drilling, Inc.

File No. 36492-007
Sheet No. 1 of 2
Start 26 January 2011
Finish 26 January 2011
Driller J. Schweitzer
H&A Rep. S. Poff
Elevation 419.4
Datum NYS Barge Canal
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	MacroCore	-	Rig Make & Model: Geoprobe 6610DT
Inside Diameter (in.)	-	1.75	-	Bit Type: MC Cutting Shoe
Hammer Weight (lb)	-	-	-	Drill Mud: -
Hammer Fall (in.)	-	-	-	Casing: -
				Hoist/Hammer: - -
				PID Make & Model: RAE MiniRAE 3000

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		G1 43	0.0 4.0		SW	Light gray-brown well-graded SAND with gravel, no odor, dry PID = 0.0 ppm	10	20	20	25	20	5	-	-	-	-
				417.4 2.0	SM	Brown to black silty SAND with gravel, 20% coal cinders and ALM, 15% CLM, trace concrete, no odor, dry PID = 2.4 ppm	10	20	20	25	20	5	-	-	-	-
		G2 29	4.0 8.0		SM	Similar to G1 (below 2.0 ft)										
5				412.7 6.7	SM	Yellow-brown to light brown silty SAND, no odor, moist PID = 2.6 ppm	-	10	20	20	30	20	-	-	-	-
				411.4		-FILL-										
		G3 48	8.0 12.0	8.0 410.6	MH	Brown to gray-brown ELASTIC SILT, slight organic odor, moist PID = 7.6 ppm	-	-	-	-	5	95	-	-	-	-
				8.8	ML	Brown to gray-brown sandy SILT, some staining, slight petroleum-like odor, moist PID = 52.4 ppm	-	-	-	5	30	65	-	-	-	-
10				409.1 10.3	SM	Gray-brown silty SAND, petroleum-like odor with possible garlic-like undertones, wet, sheen throughout, trace brown OLM coating grain surfaces PID = 377.4 ppm	-	-	-	-	75	25	-	-	-	-
		G4 46	12.0 16.0		SM	Similar to G3 (below 10.3 ft), except coarsening with depth	-	10	20	25	30	15	-	-	-	-
				405.9		-ALLUVIAL DEPOSITS-										
				13.5	SM	Yellow-brown to black silty SAND with gravel, petroleum-like odor with naphthalene-like undertones, sheen throughout PID = 126.2 ppm	20	10	10	5	20	35	-	-	-	-
15				404.4 15.0	SM	Similar to above, except black, some black TLM coating particles										
		G5 25	16.0 20.0		SM	Similar to G4 (below 13.5 ft) PID = 144.2 ppm										
				400.4 19.0		-GLACIAL TILL-										
20																

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water
1/26/11	-	-	-	-	10.3 ±

Sample ID
- O - Open End Rod
- T - Thin Wall Tube
- U - Undisturbed Sample
- S - Splitspoon Sample
- G - Geoprobe

Well Diagram
- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (ft)	24
Rock Cored (ft)	-
Samples	6G

Boring No. TG-10-68C

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-GEOPROBE-07-1 HAR HA-LIB07-R1.GLB HA-TB+CORE+WELL-07-1.GDT G:\36492\007\2011-0201 36492-007 PROBES.GPJ 18 Mar 11

HALEY & ALDRICH

GEOPROBE REPORT DRAFT

Boring No. TG-10-68C
File No. 36492-007
Sheet No. 2 of 2

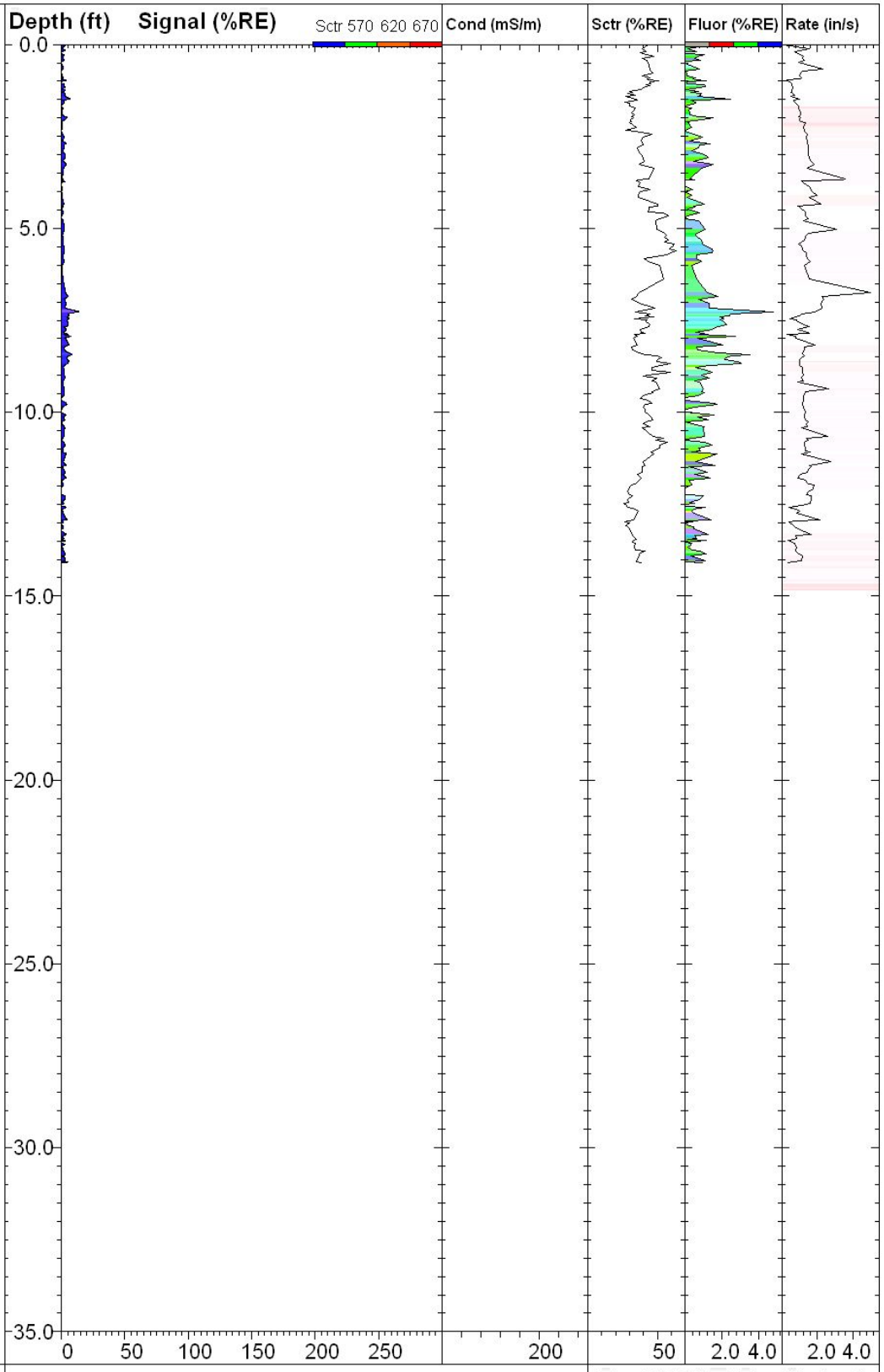
Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
20		G6 24	20.0 24.0		CL	Black to yellow-brown silty CLAY with sand (completely weathered shale), stained throughout, petroleum/naphthalene-like odor, moist PID = 61.4 ppm	5	5	5	5	10	70	-	-	-	-
				396.7 22.7		Similar to above, except yellow-brown, occasional layers stained (up to approximately 3 in. thick), slight odor, dry PID = 14.3 ppm										
				395.4 24.0		-WEATHERED BEDROCK- -Bottom of exploration at 24.0 ft										

Environmental Samples Collected:
S1=8.0 to 10.0 ft
S2=10.5 to 13.5 ft

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. TG-10-68C

Callouts



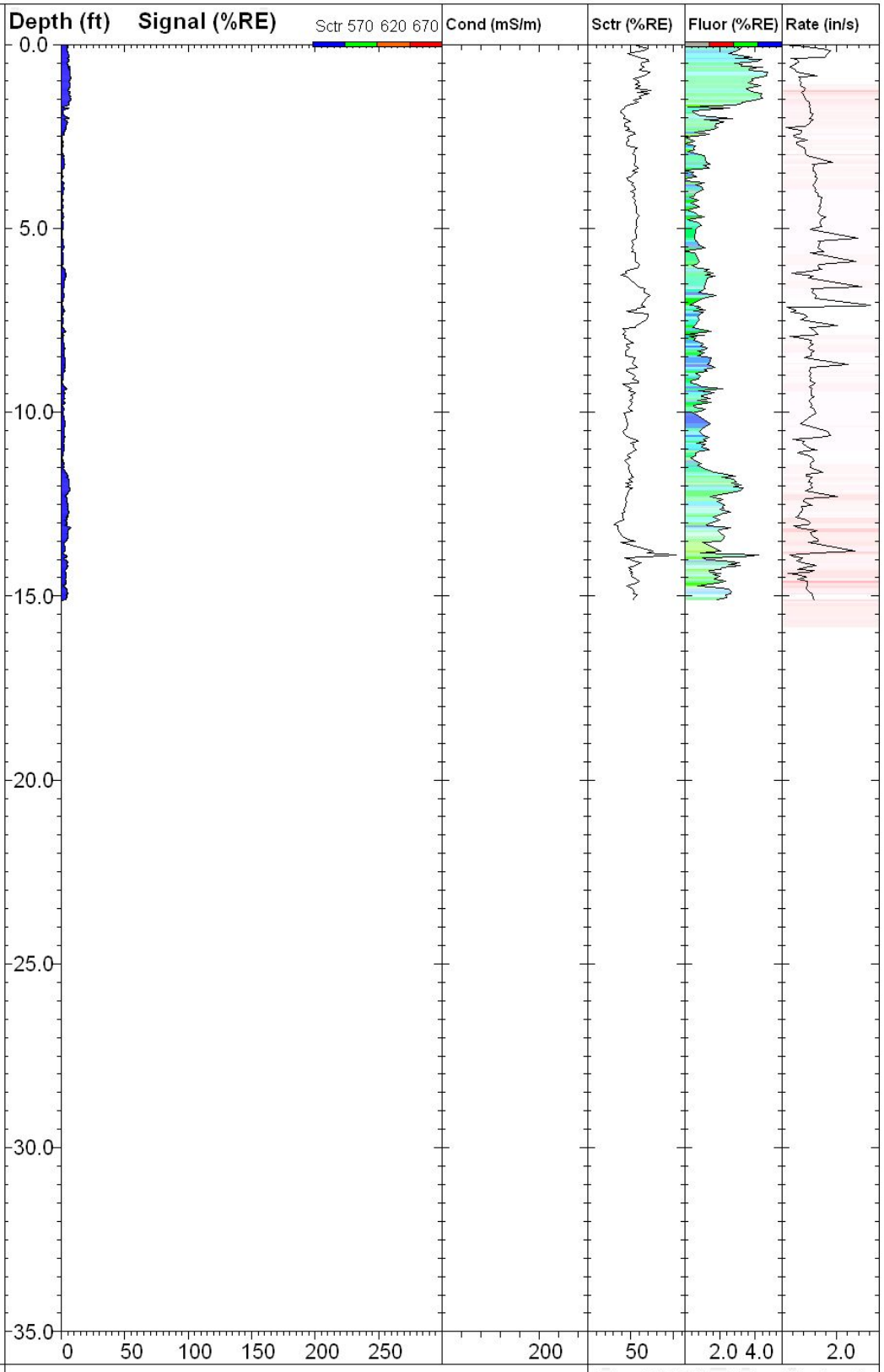
DAKOTA TECHNOLOGIES
FARGO, ND 701.237.4908
WWW.DAKOTATECHNOLOGIES.COM

TG-10-01

TarGOST By Dakota
www.DakotaTechnologies.com

Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **14.10 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **14.1 %RE @ 7.26 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-22 14:24 EST**

Callouts



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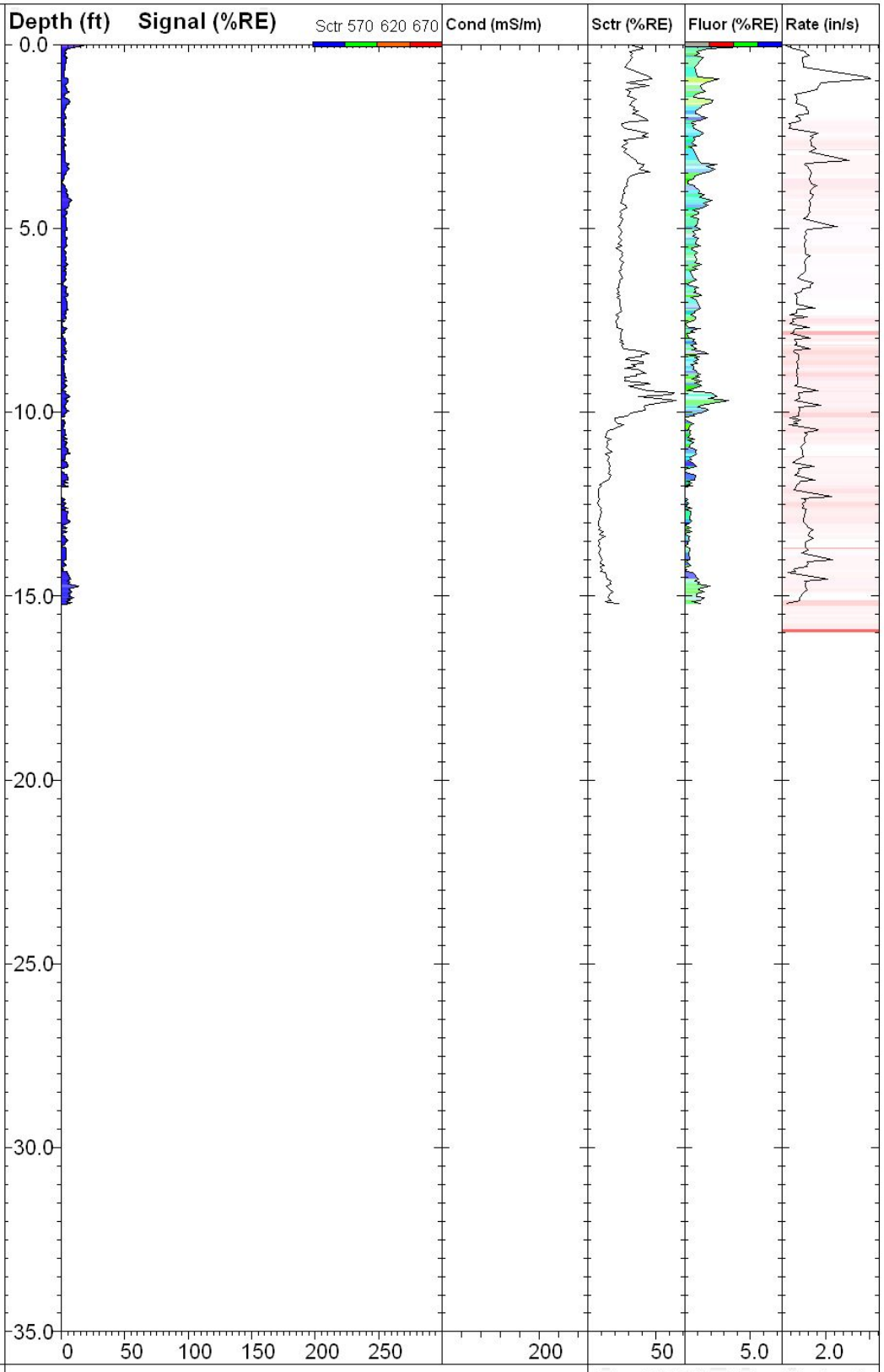
TG-10-02

TarGOST By Dakota
www.DakotaTechnologies.com

Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **15.11 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **7.5 %RE @ 0.91 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-21 14:58 EST**

Callouts



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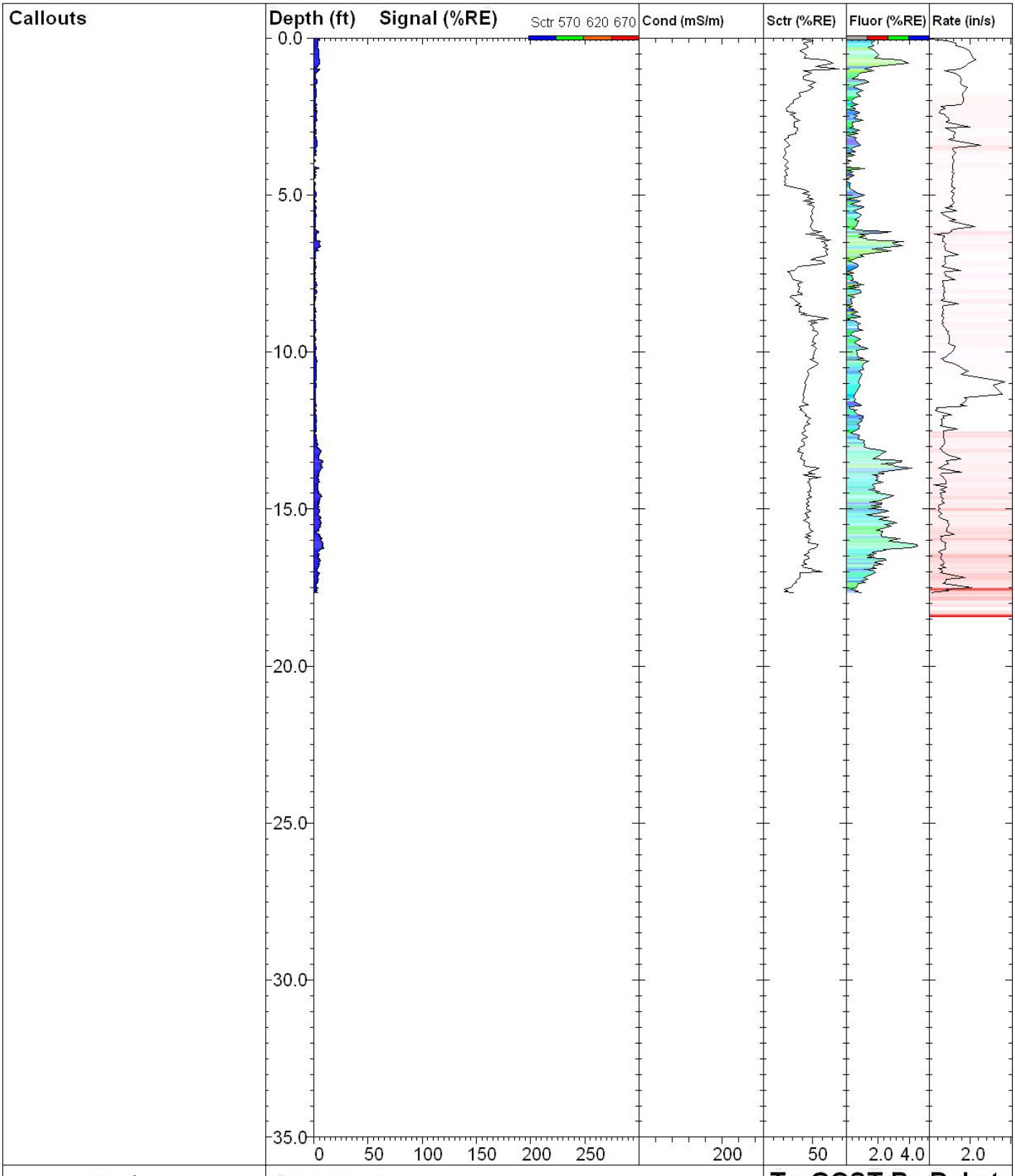
TG-10-03

TarGOST By Dakota
www.DakotaTechnologies.com

Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **15.22 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **21.2 %RE @ 0.00 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-19 12:40 EST**



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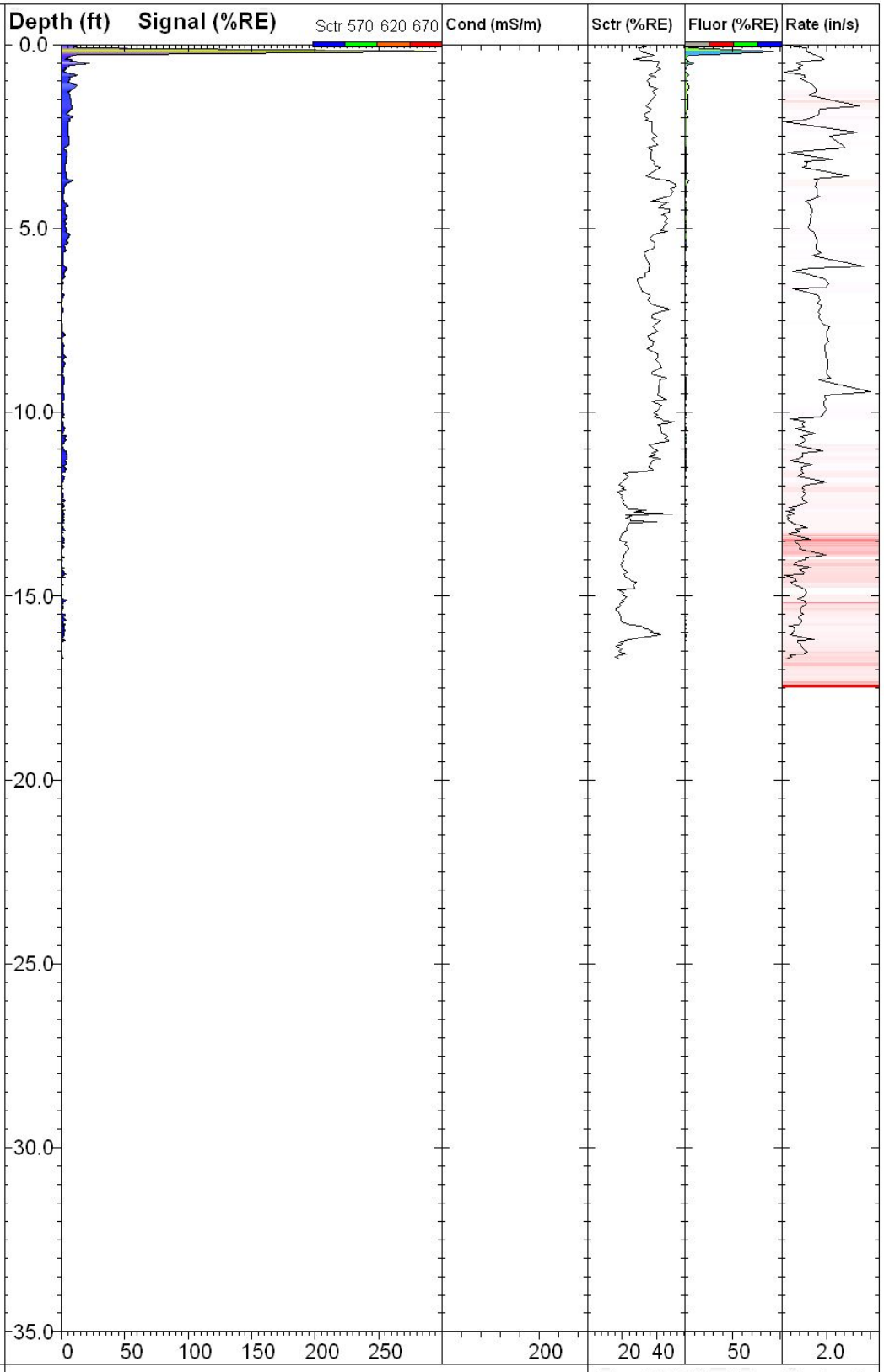
TG-10-04

TarGOST By Dakota
www.DakotaTechnologies.com

Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **17.67 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **9.1 %RE @ 16.24 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-19 12:58 EST**

Callouts



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TG-10-05

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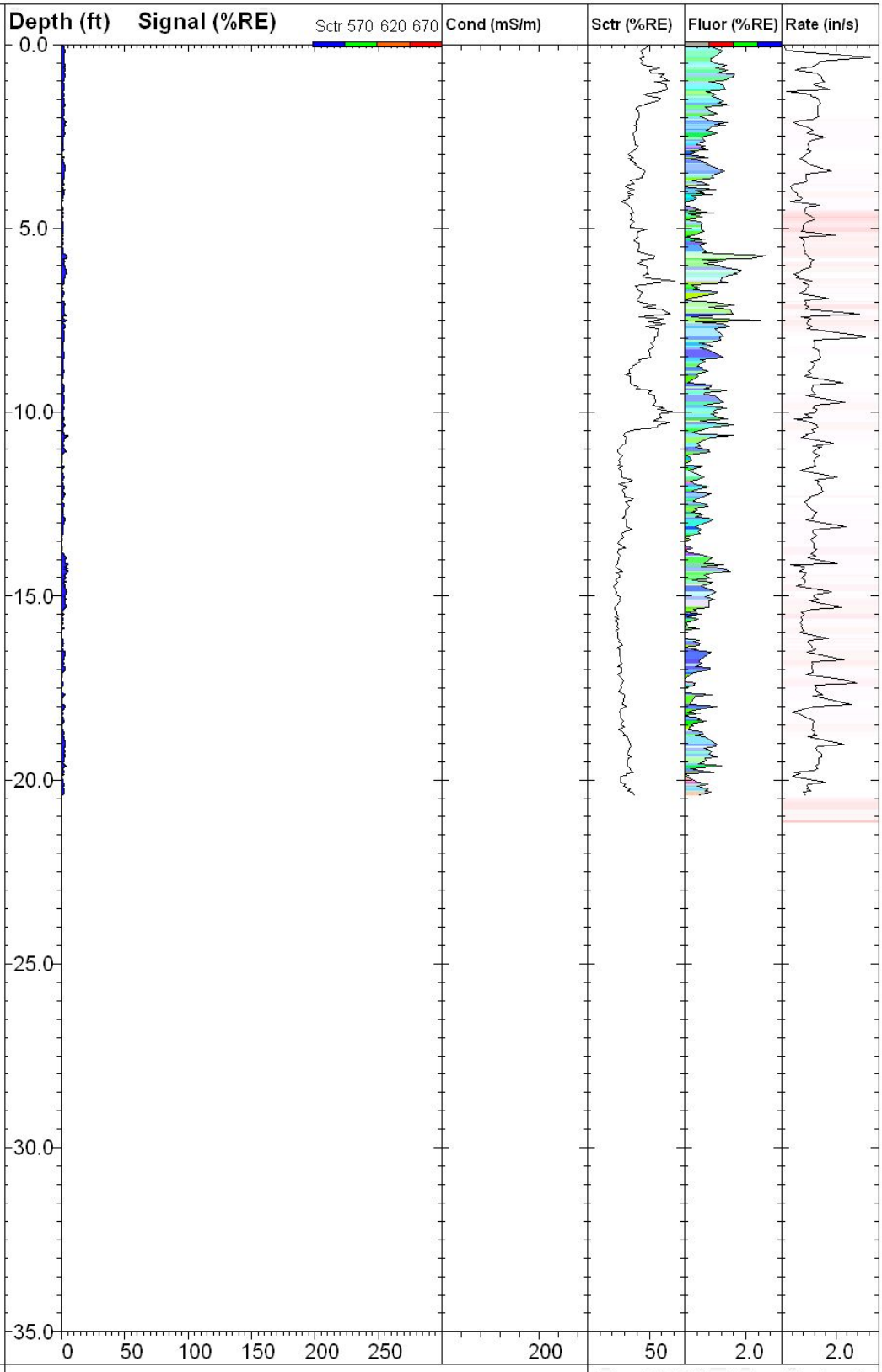
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **16.73 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **296.5 %RE @ 0.19 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-21 15:13 EST**

Callouts



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TG-10-06

TarGOST By Dakota
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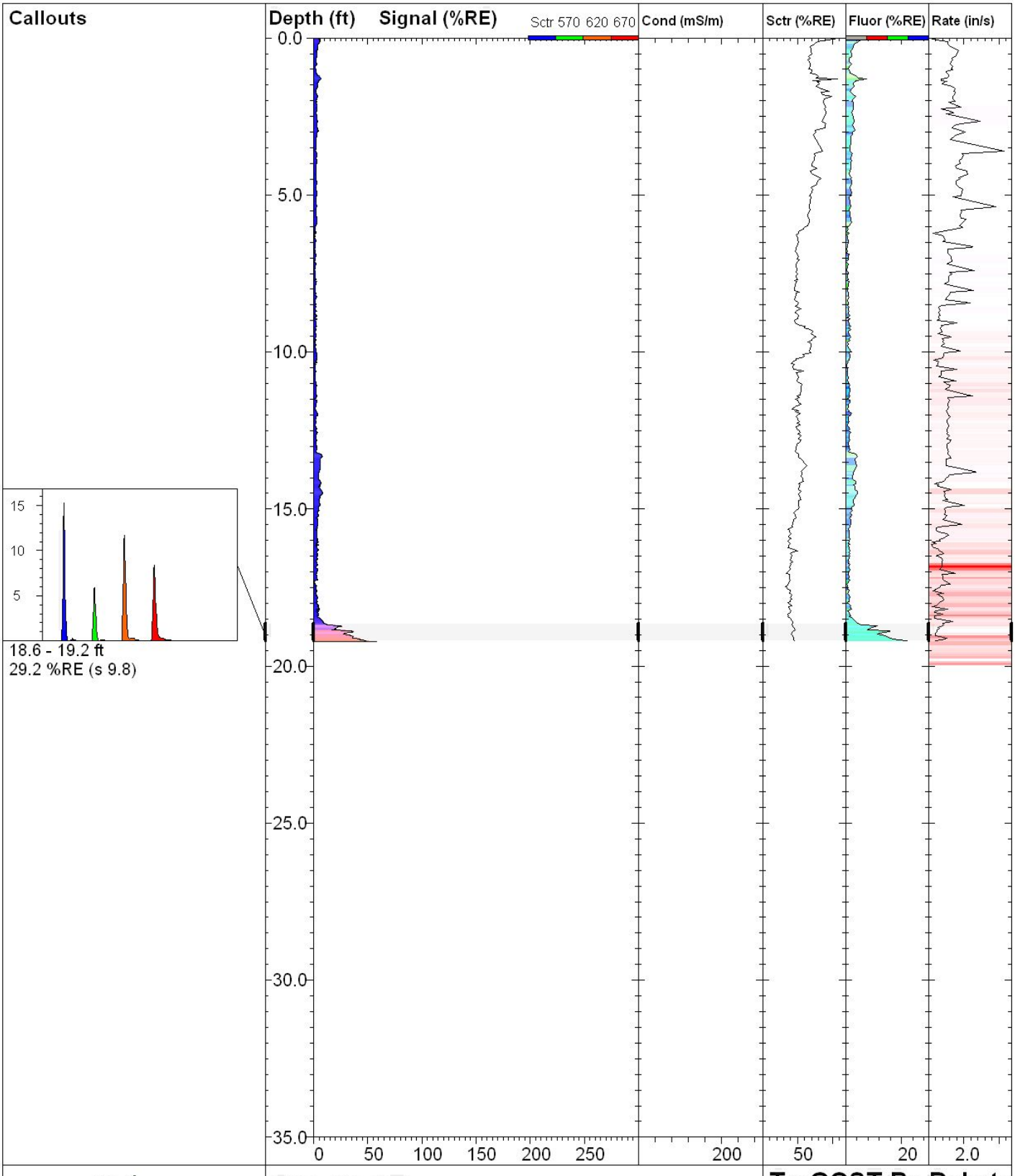
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **20.42 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **5.5 %RE @ 14.15 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-19 13:13 EST**



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TG-10-07

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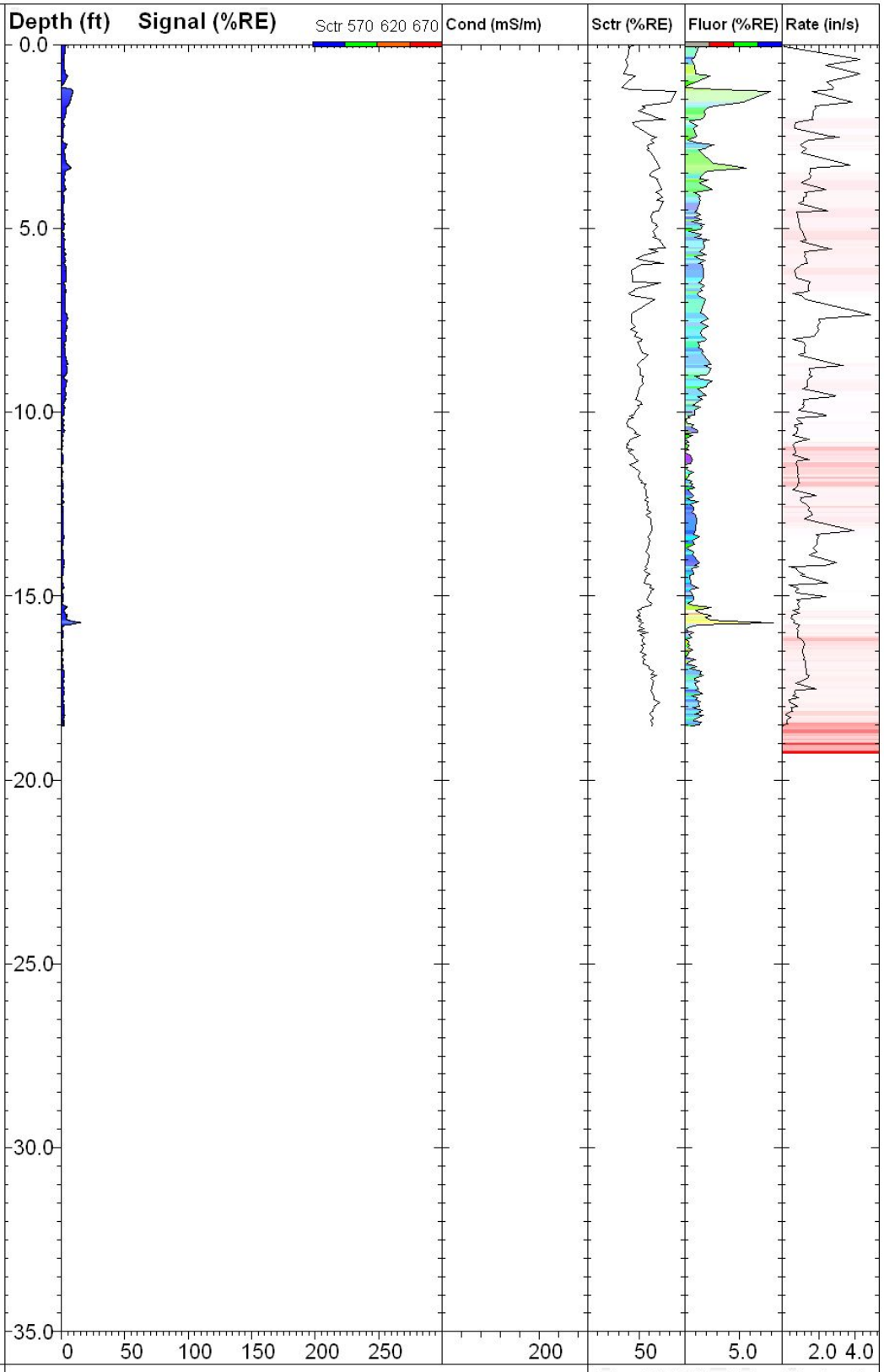
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **19.22 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **58.9 %RE @ 19.22 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-19 09:13 EST**

Callouts



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TG-10-08

TarGOST By Dakota
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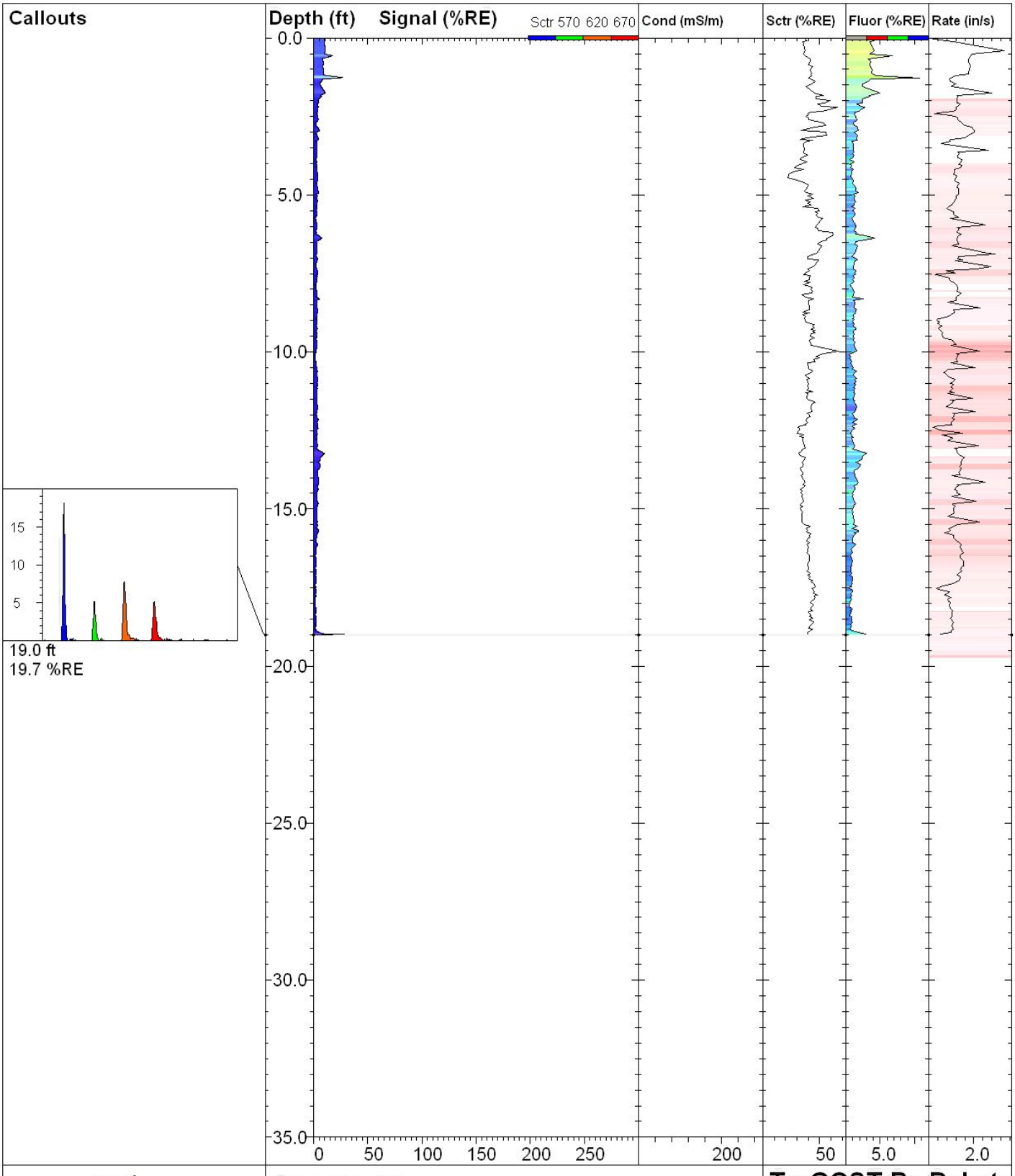
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **18.52 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **15.2 %RE @ 15.72 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-19 10:26 EST**



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TG-10-09

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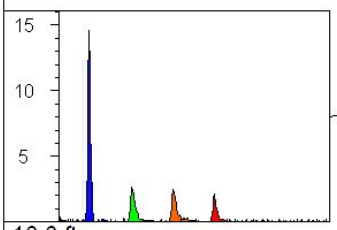
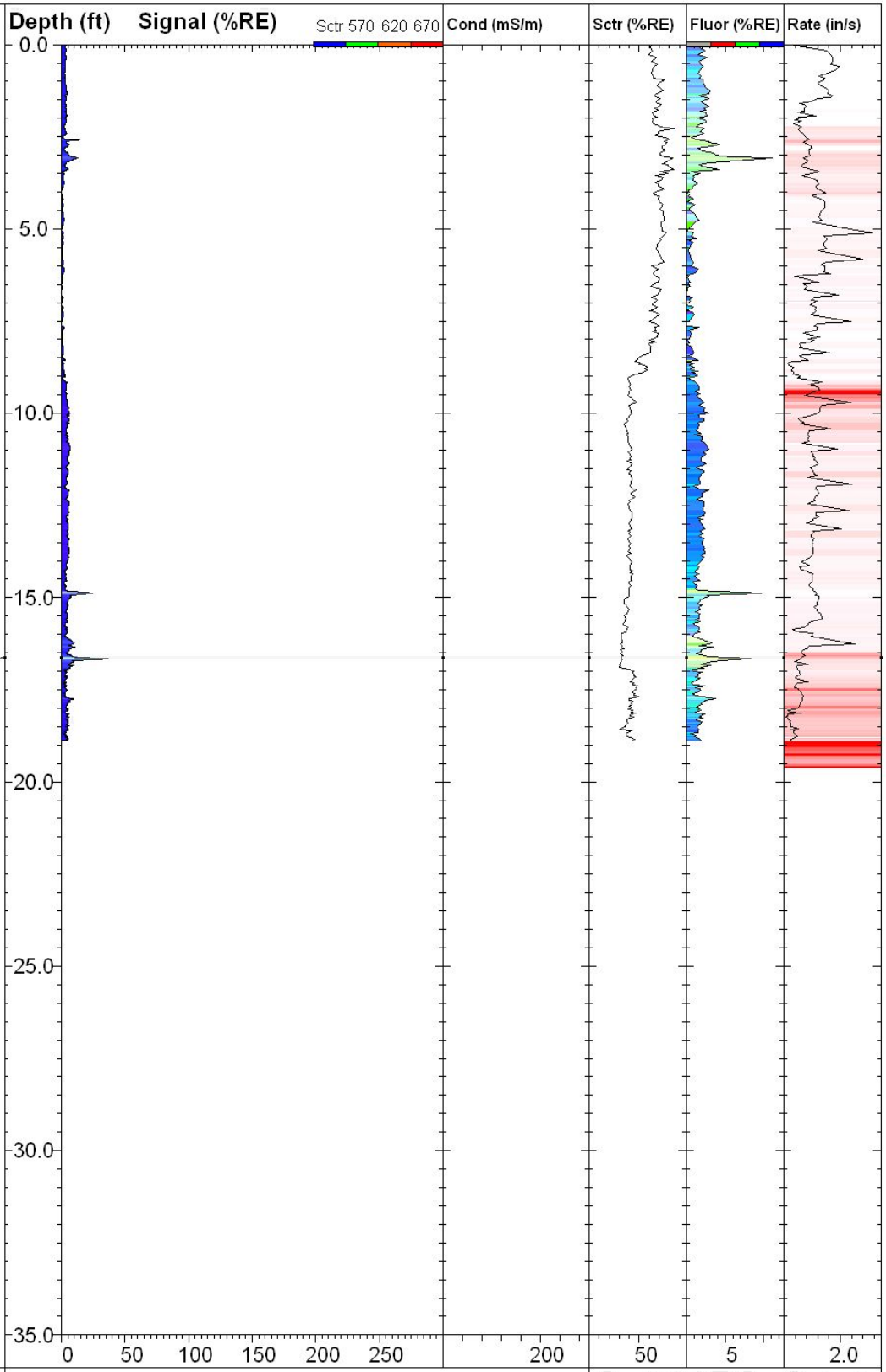
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **18.99 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **29.0 %RE @ 18.98 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-18 15:09 EST**

Callouts



16.6 ft
10.7 %RE



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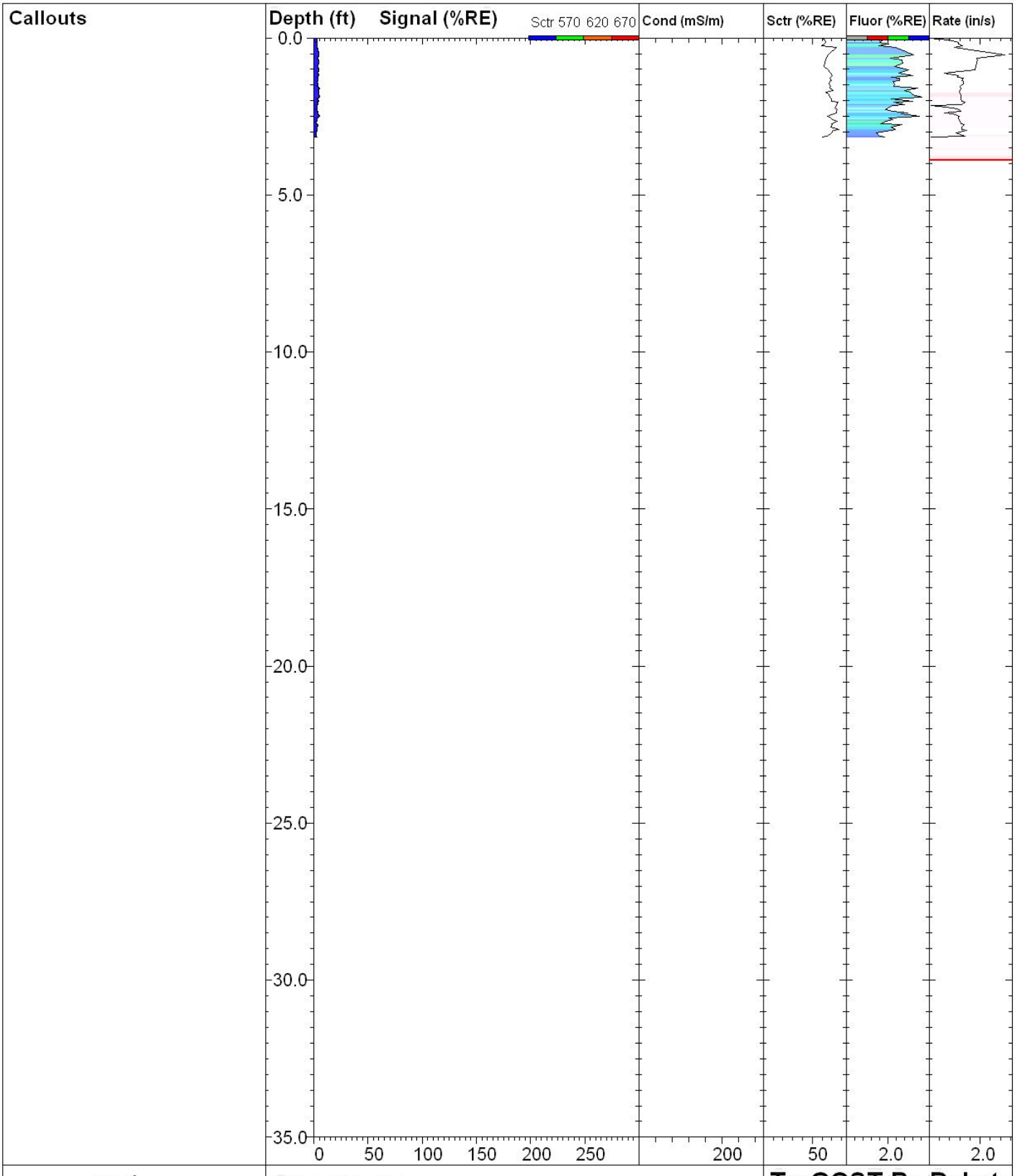
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **18.87 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **37.0 %RE @ 16.66 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-19 10:50 EST**



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TG-10-11

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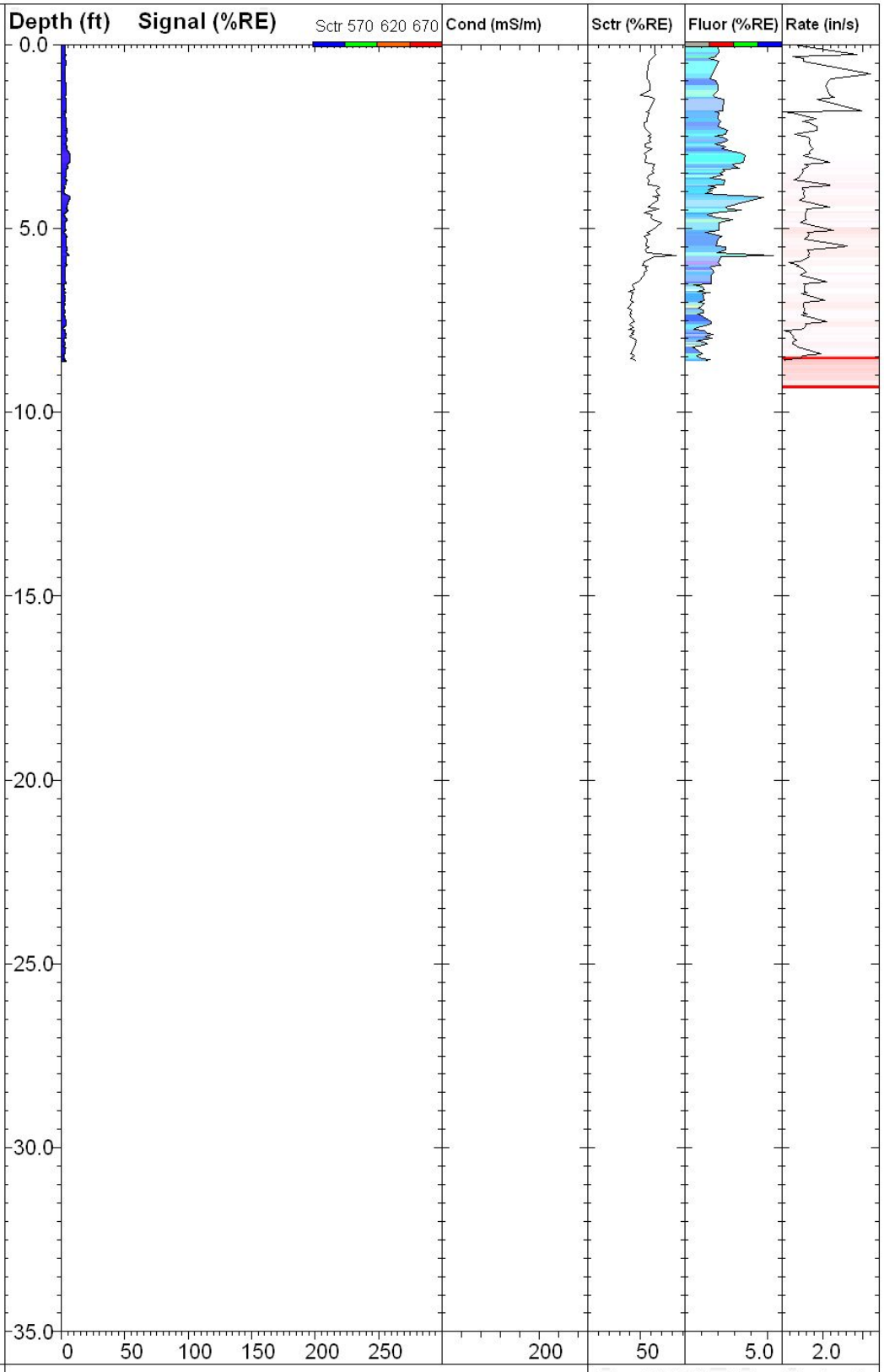
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **3.15 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **5.4 %RE @ 2.49 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-19 09:33 EST**

Callouts



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TG-10-12

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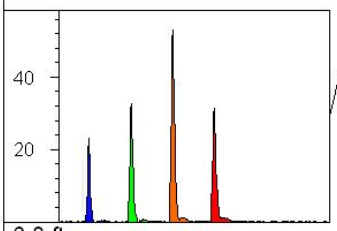
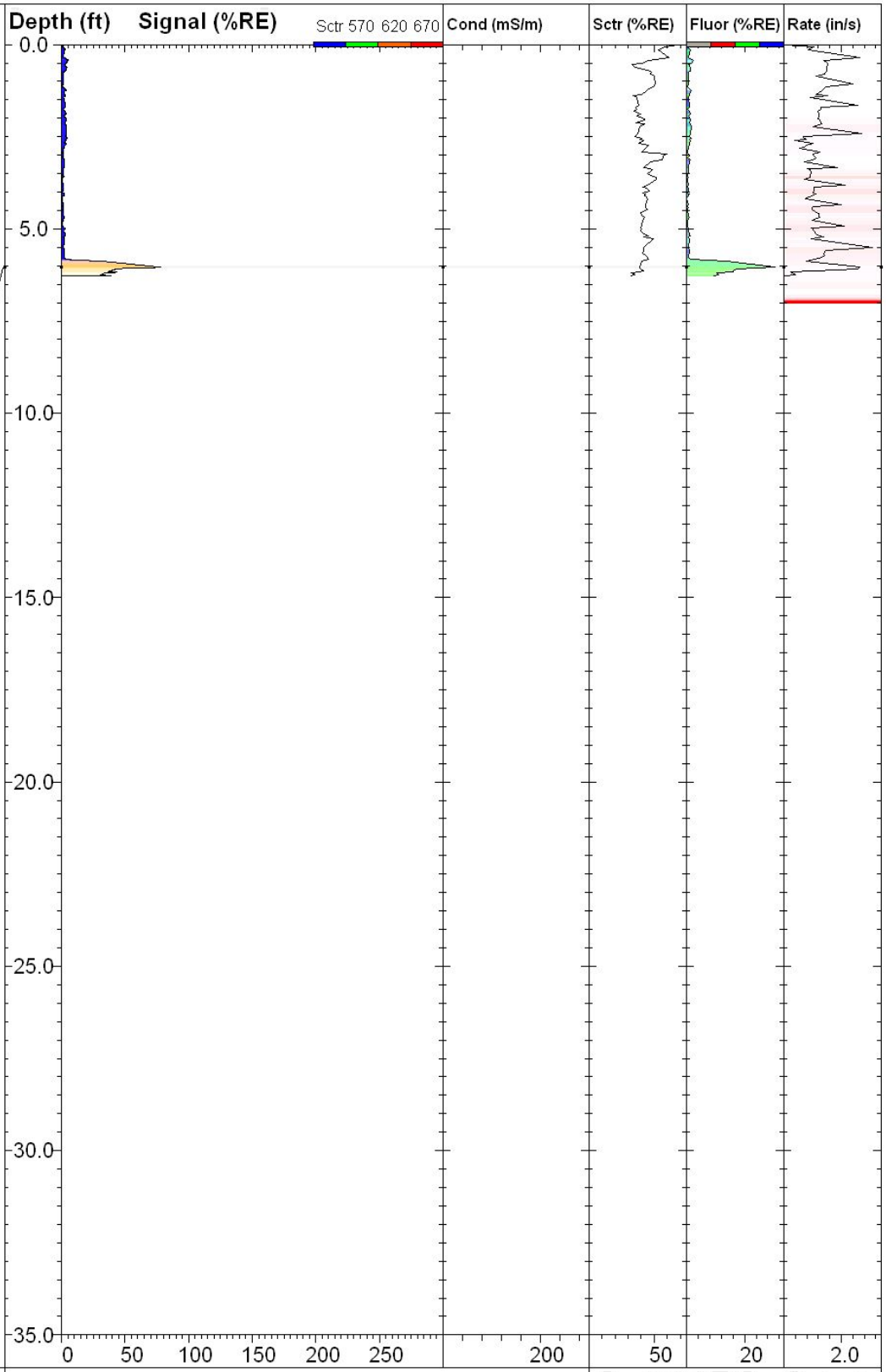
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **8.62 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **7.2 %RE @ 4.16 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-19 08:56 EST**

Callouts



6.0 ft
78.5 %RE



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TG-10-13

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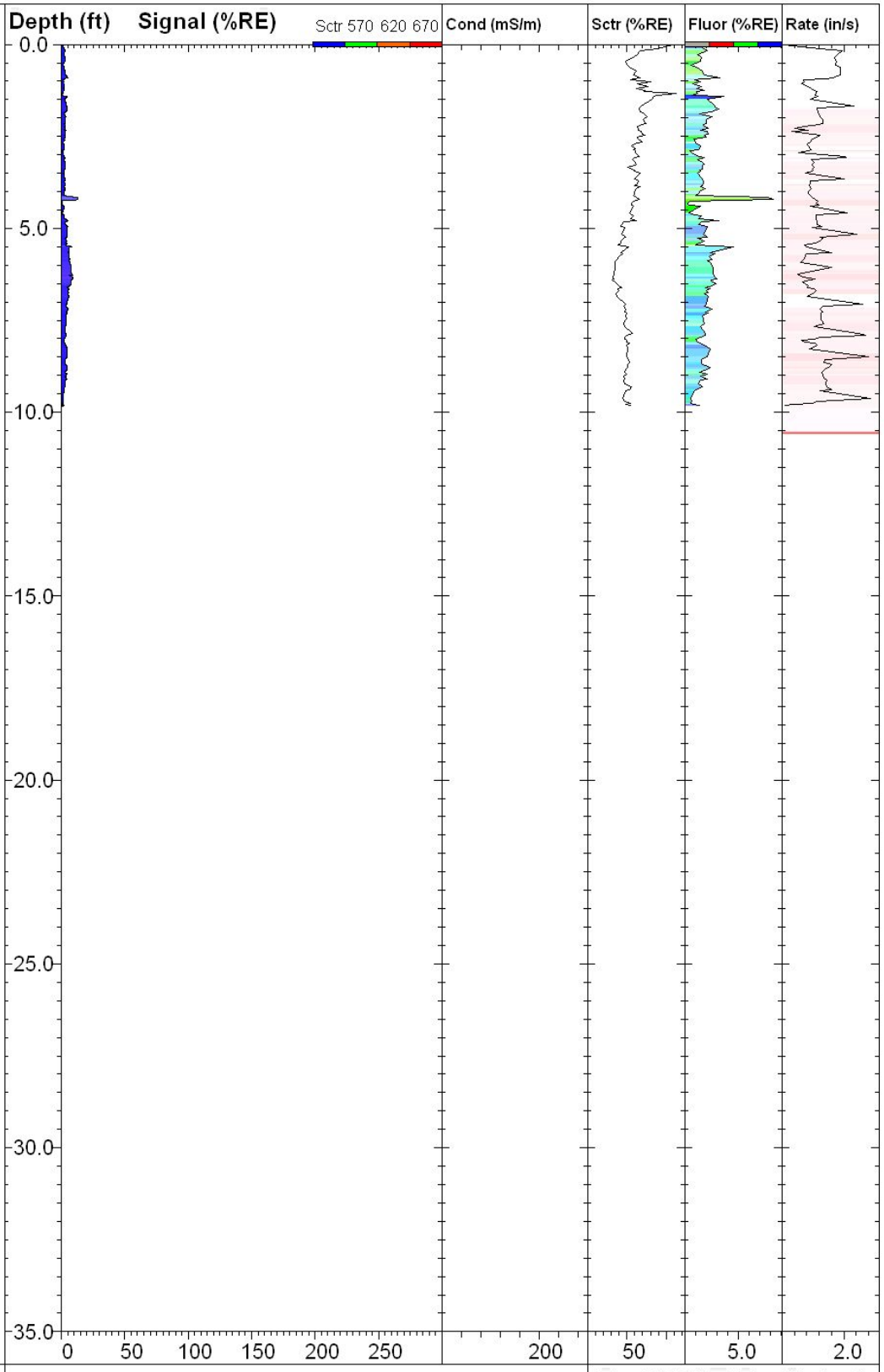
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.27 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **78.5 %RE @ 6.04 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-19 13:30 EST**

Callouts



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TG-10-14

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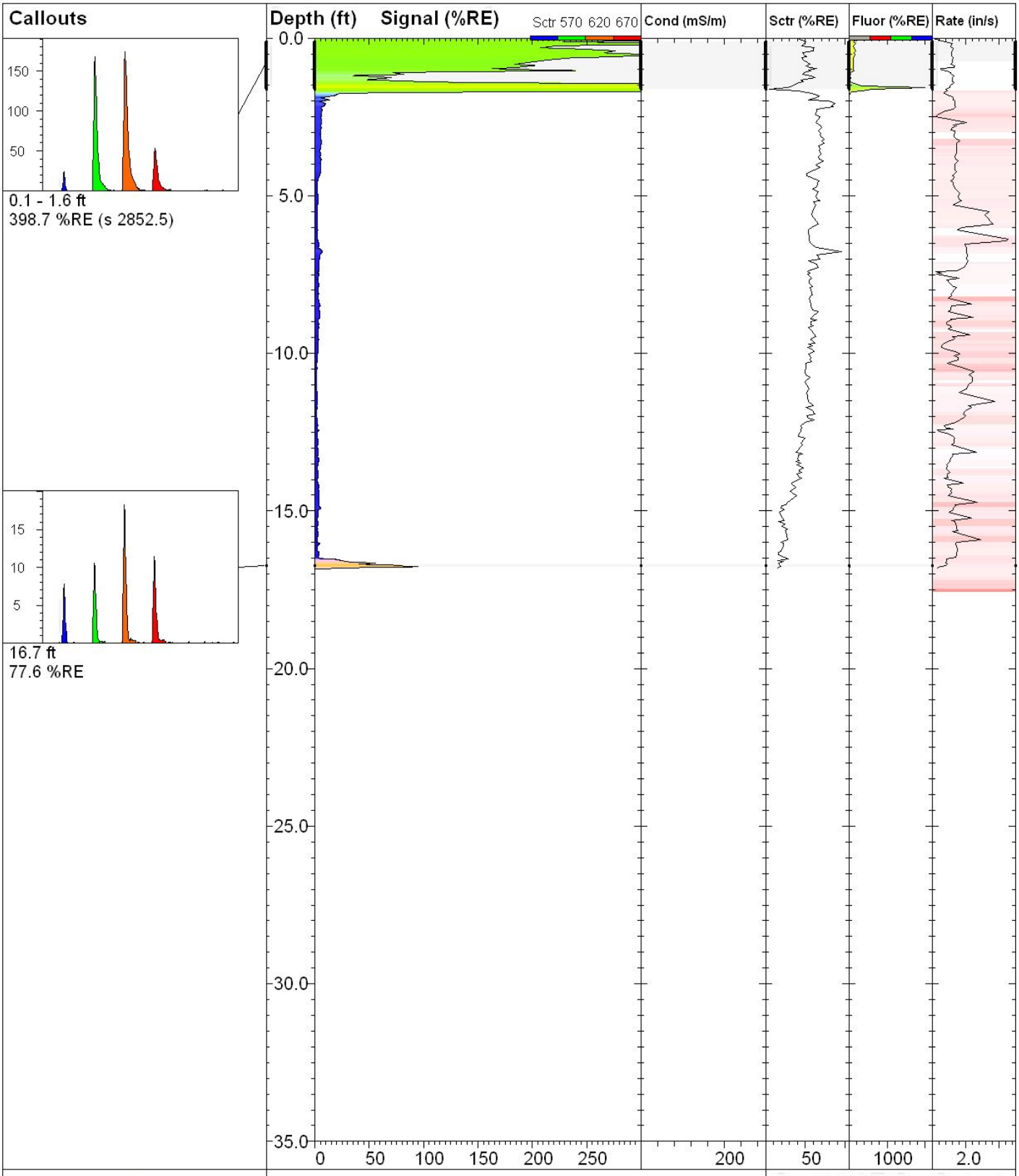
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **9.83 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **12.7 %RE @ 4.22 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-19 10:10 EST**



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TG-10-15

TarGOST By Dakota
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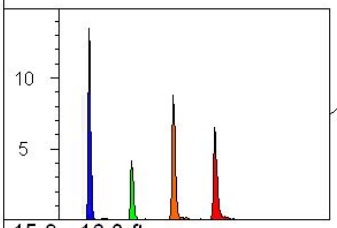
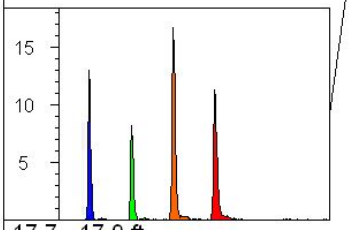
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **16.83 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **13863.5 %RE @ 1.62 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-18 14:47 EST**

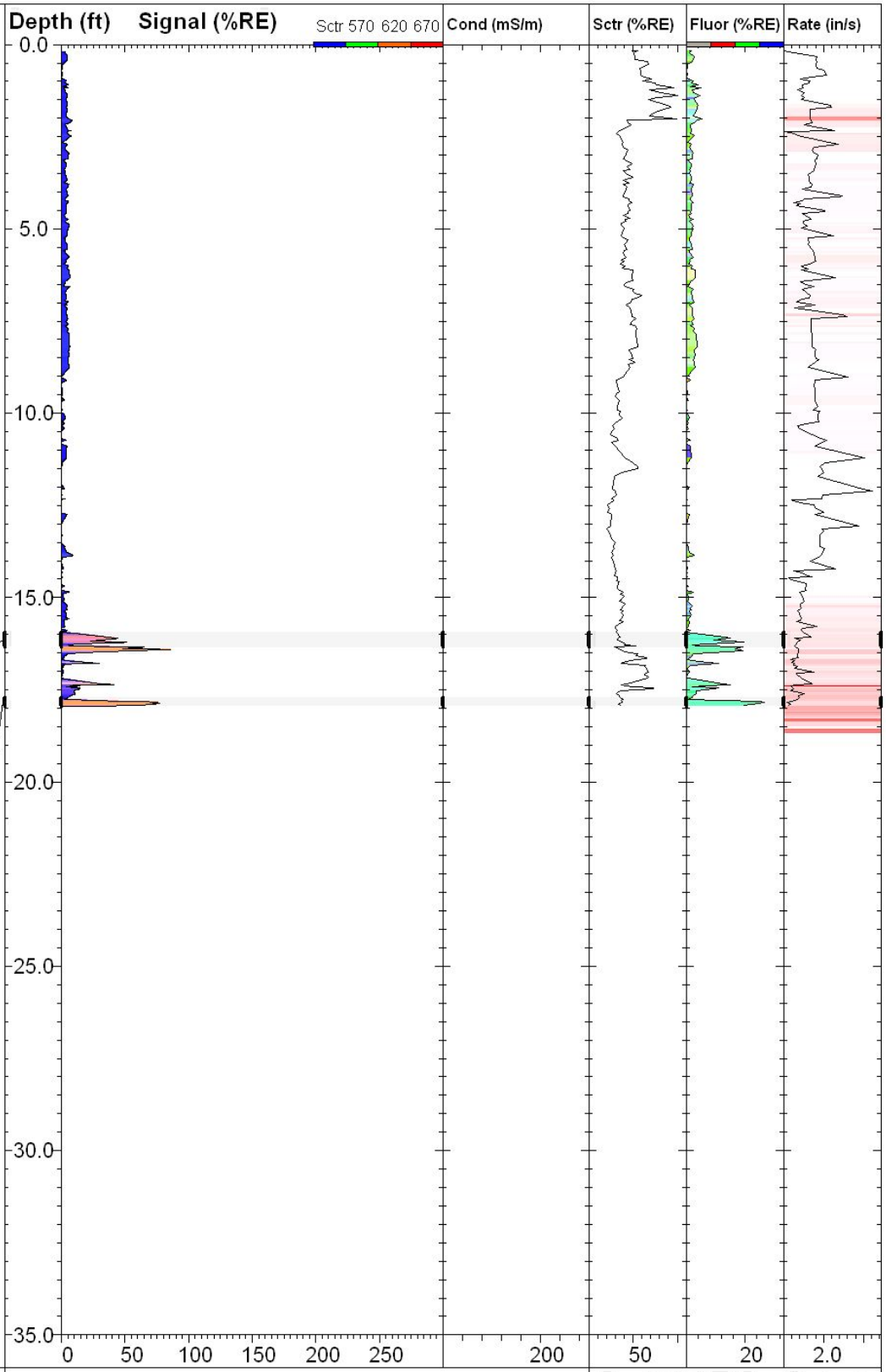
Callouts



15.9 - 16.3 ft
24.3 %RE (s 21.7)



17.7 - 17.9 ft
47.5 %RE (s 27.2)



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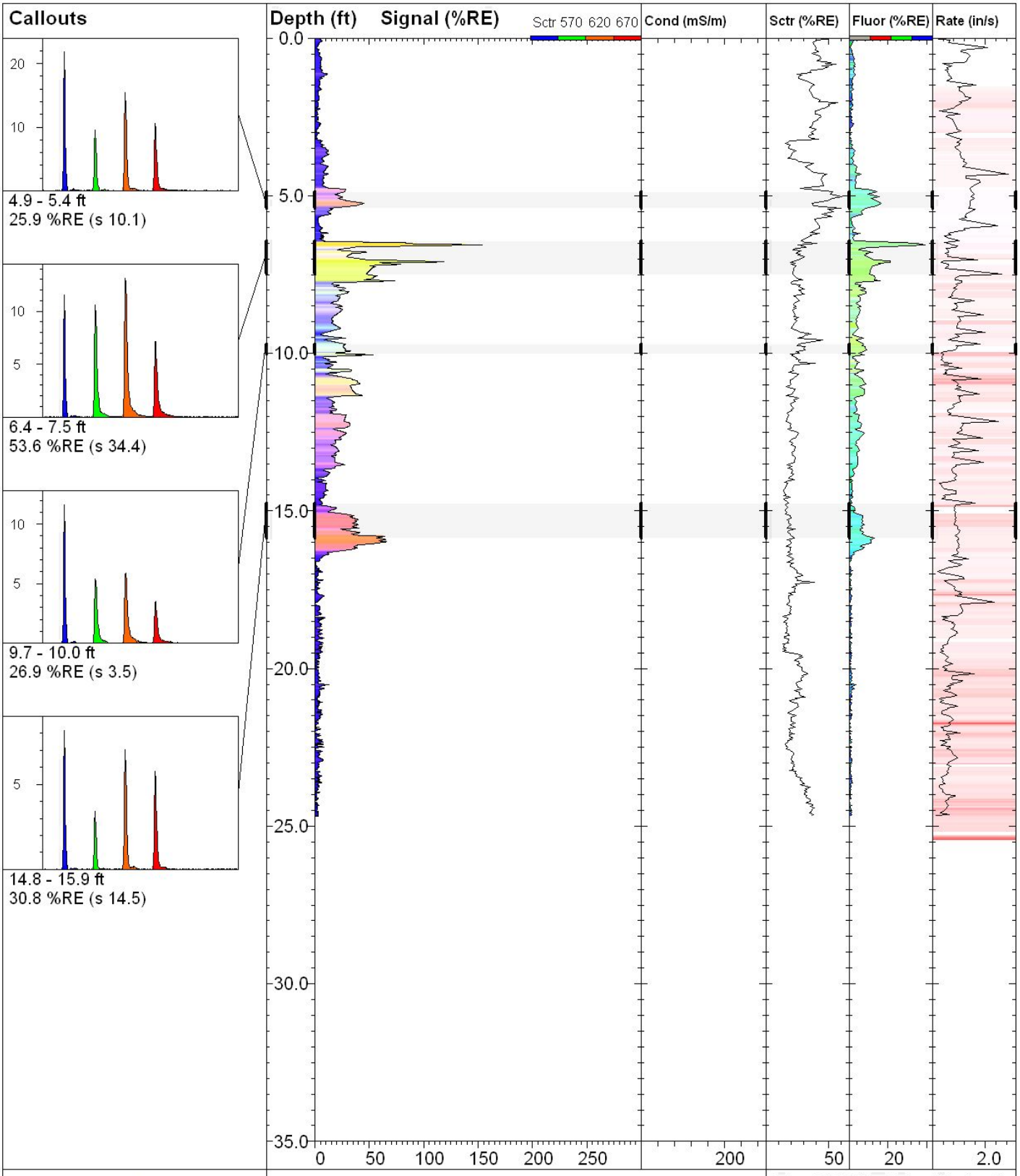
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **17.94 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **87.1 %RE @ 16.41 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-21 16:31 EST**



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TG-10-17

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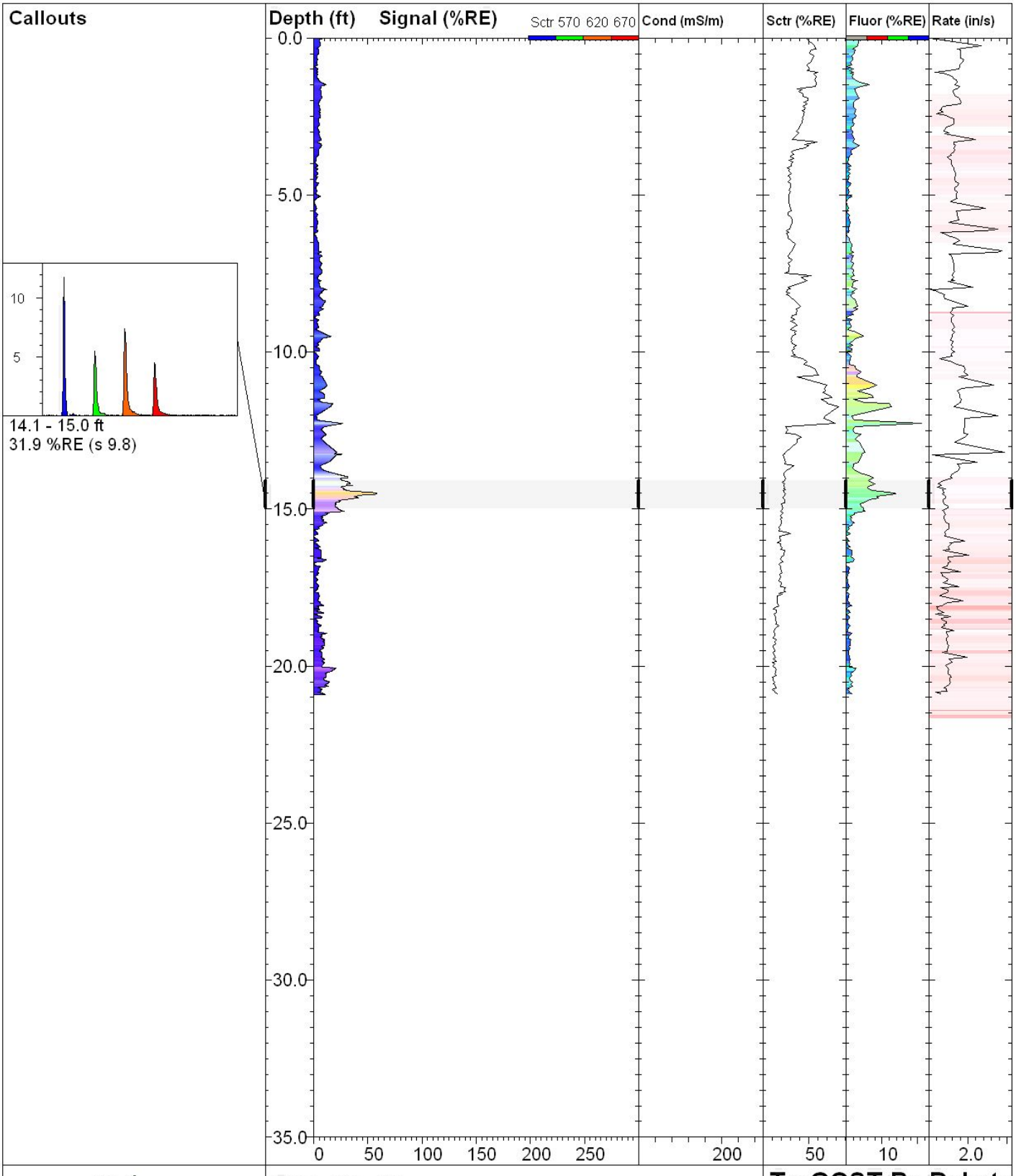
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **24.70 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **155.8 %RE @ 6.56 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-20 09:50 EST**



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TG-10-18

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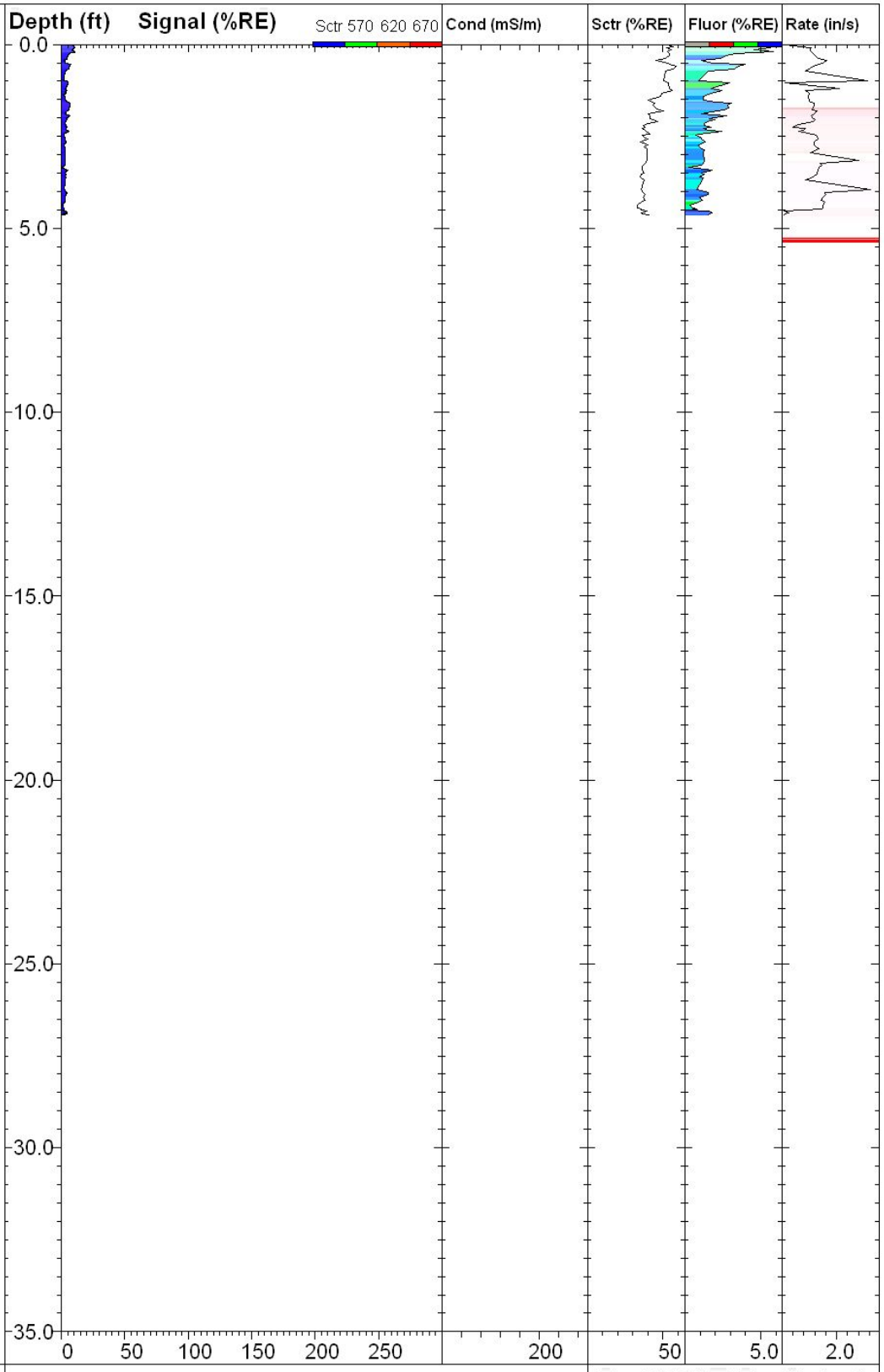
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **20.91 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **57.9 %RE @ 14.48 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-20 10:42 EST**

Callouts



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TG-10-18A

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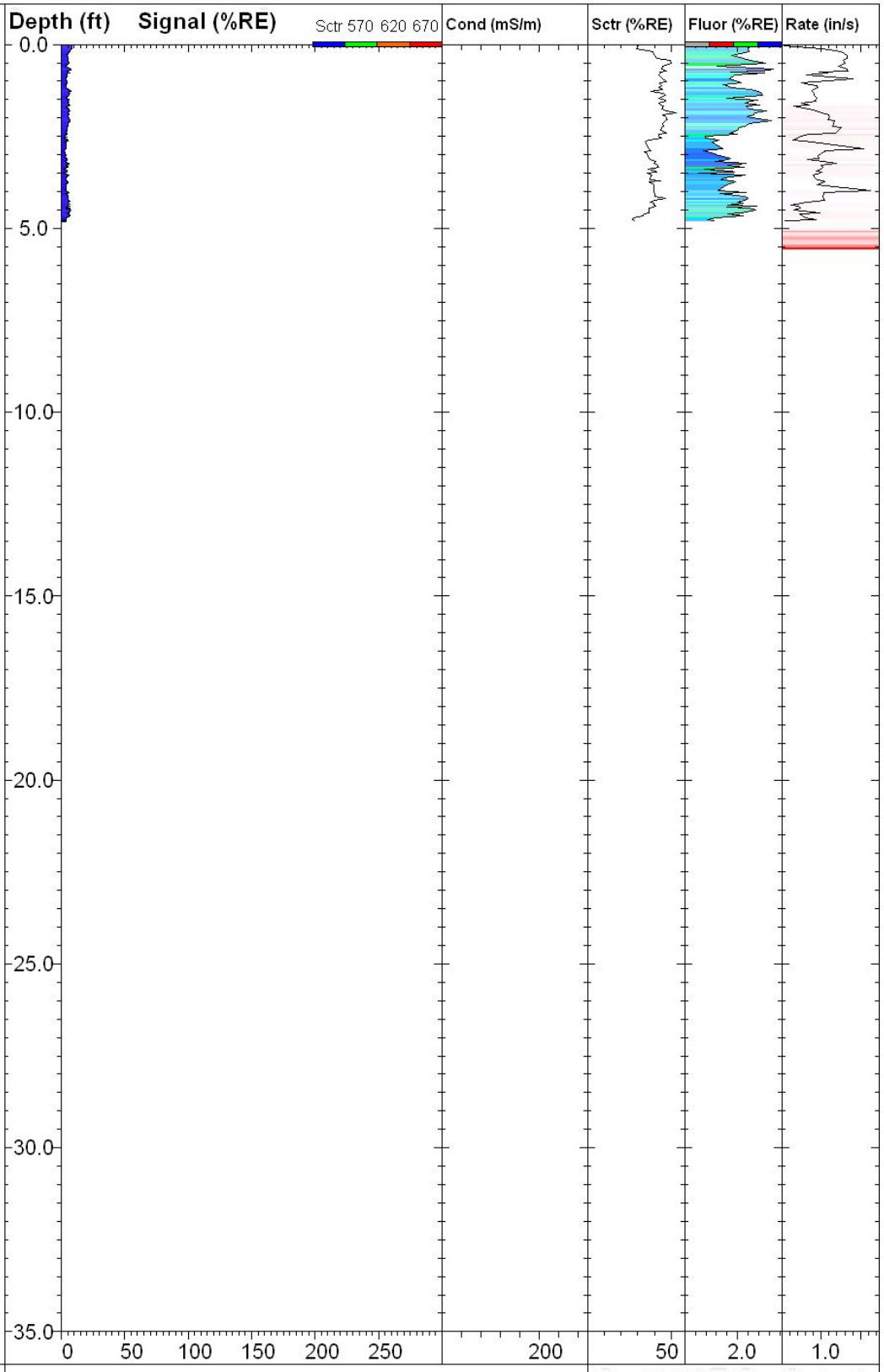
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **4.64 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **11.0 %RE @ 0.21 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-20 10:22 EST**

Callouts



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TG-10-18B

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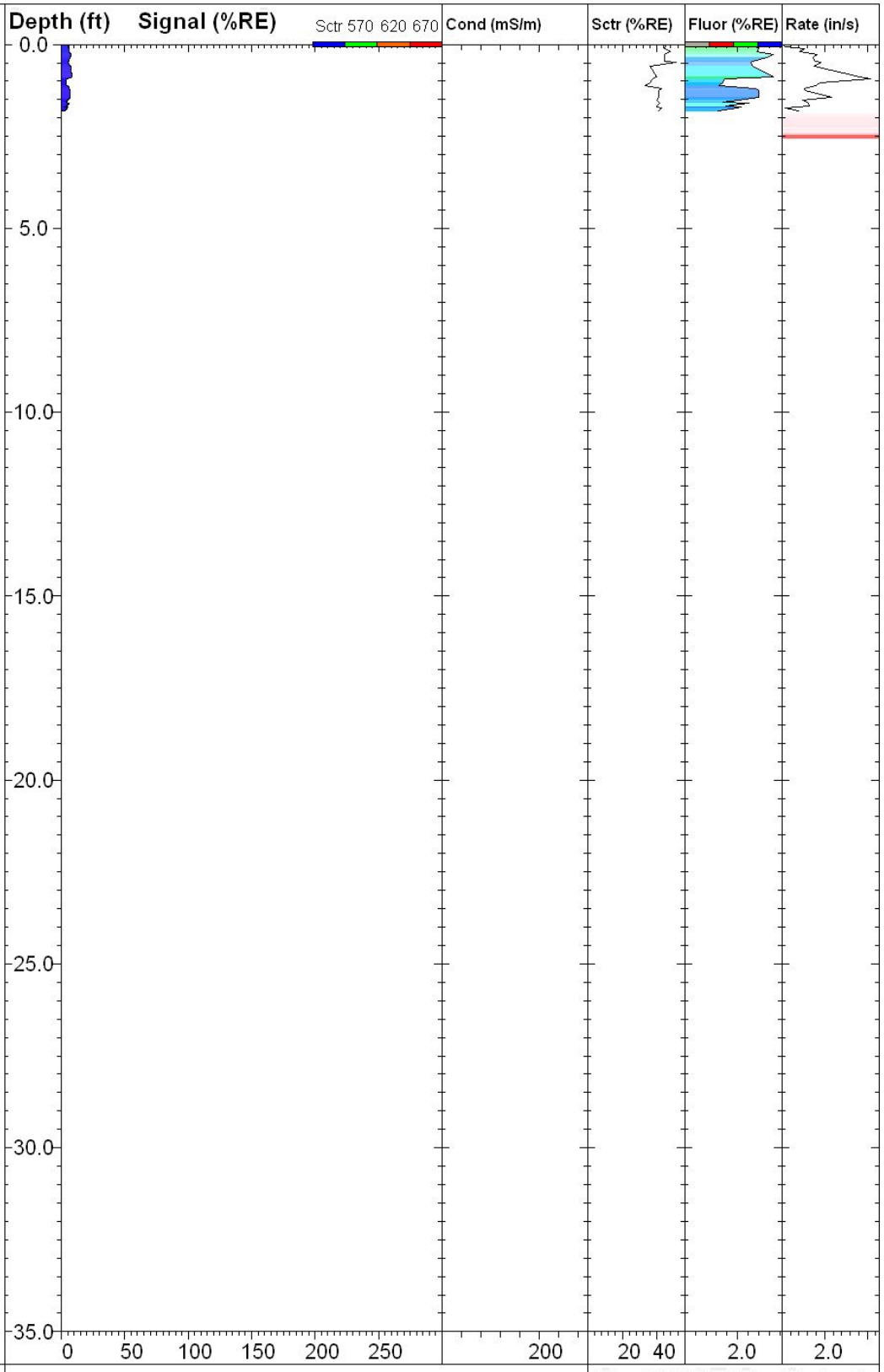
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **4.81 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **8.1 %RE @ 0.11 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-20 10:29 EST**

Callouts



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TG-10-18C

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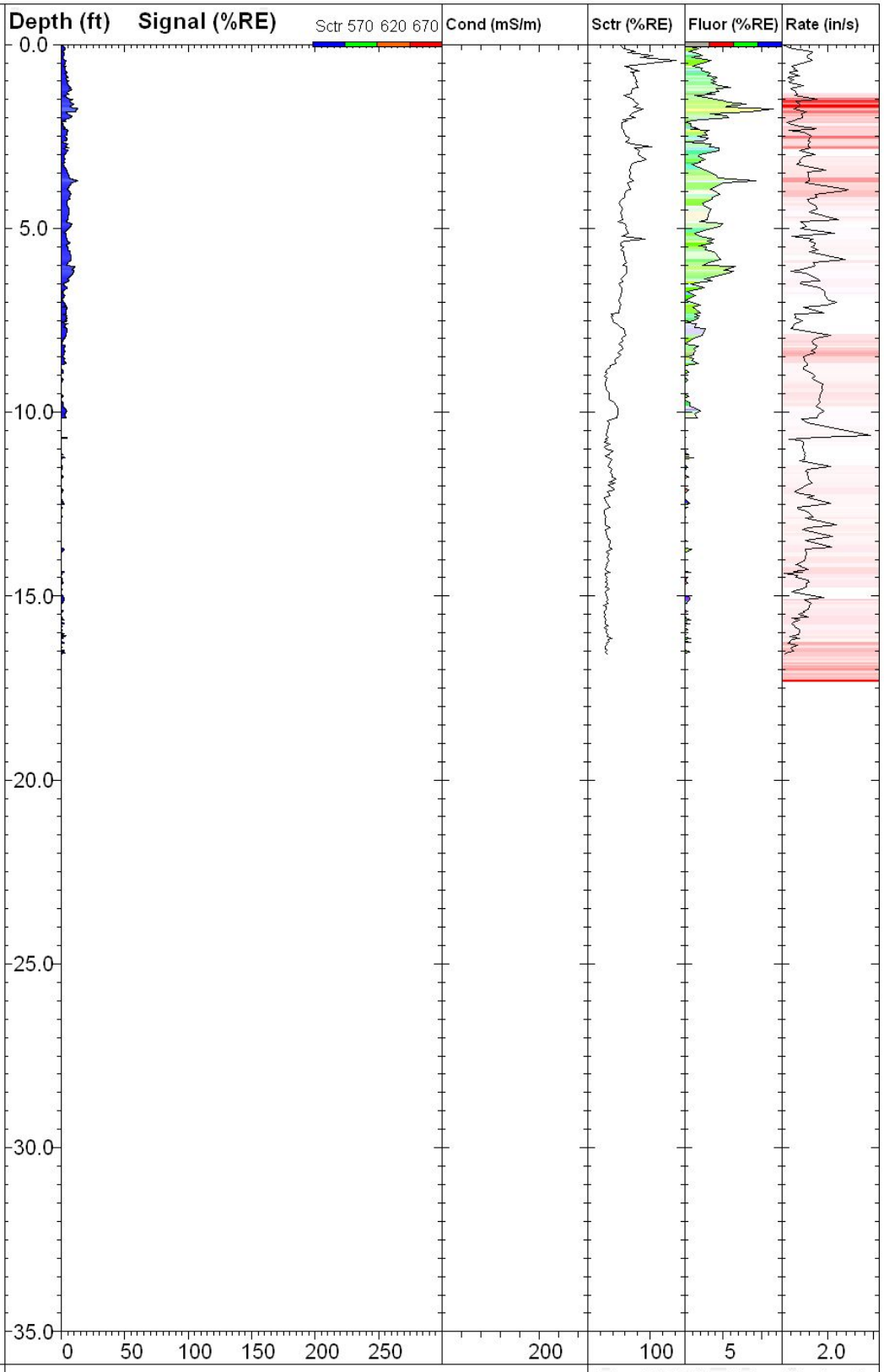
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **1.80 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **8.4 %RE @ 0.89 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-20 10:38 EST**

Callouts



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TG-10-19

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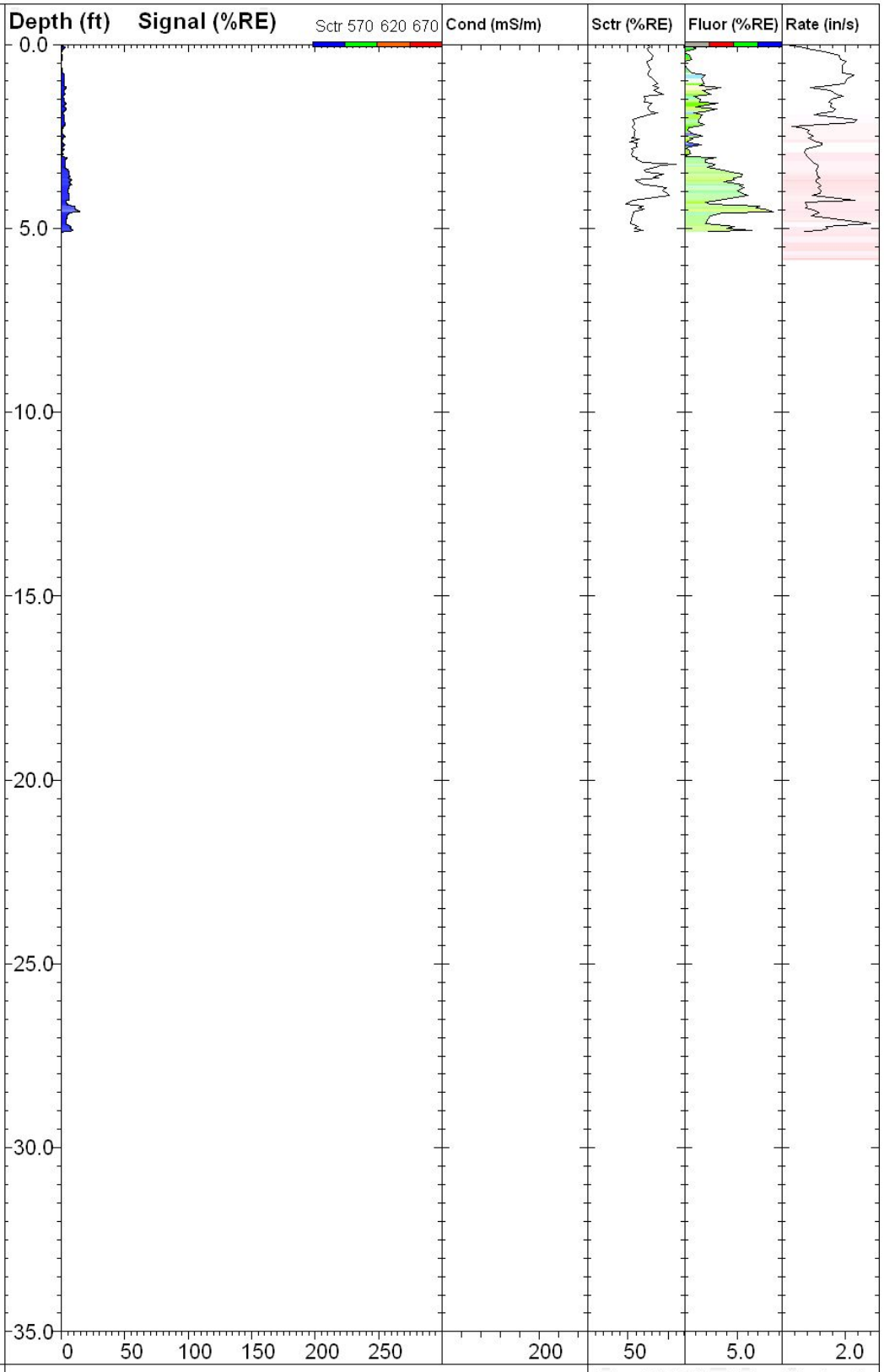
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **16.57 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **12.9 %RE @ 1.74 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-21 16:52 EST**

Callouts



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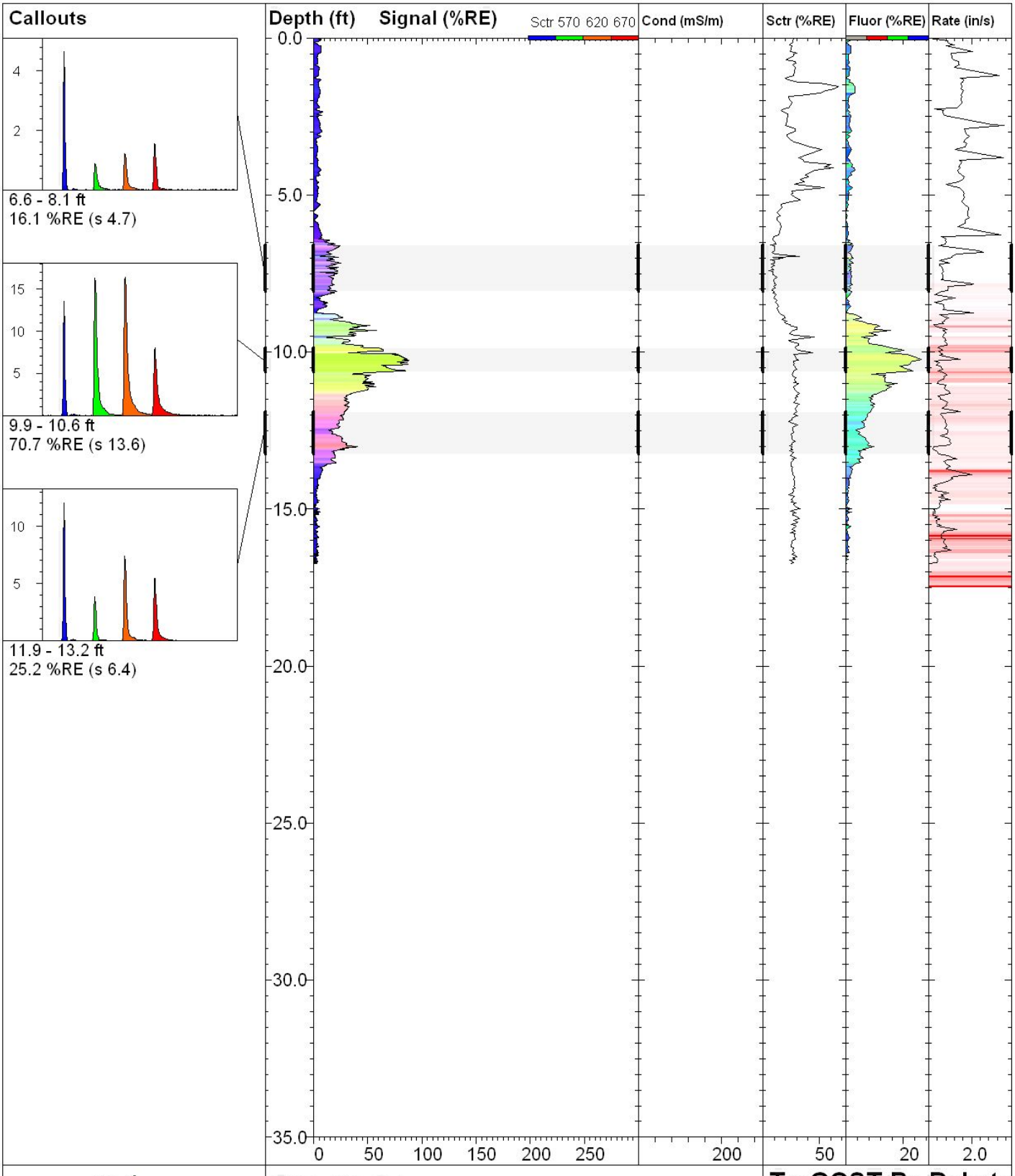
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **5.09 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **14.7 %RE @ 4.54 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-20 16:41 EST**



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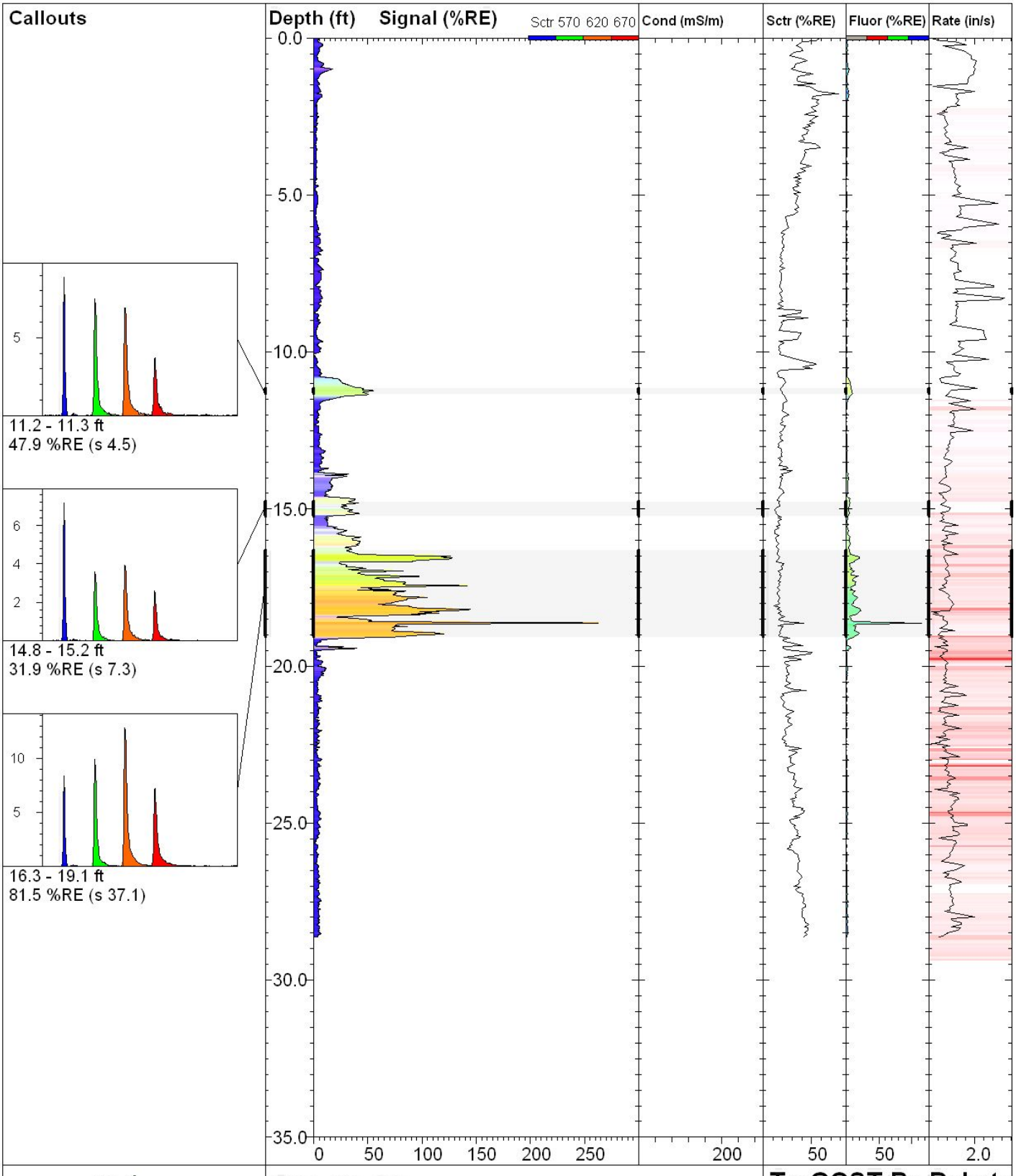
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **16.73 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **88.2 %RE @ 10.27 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-20 09:27 EST**



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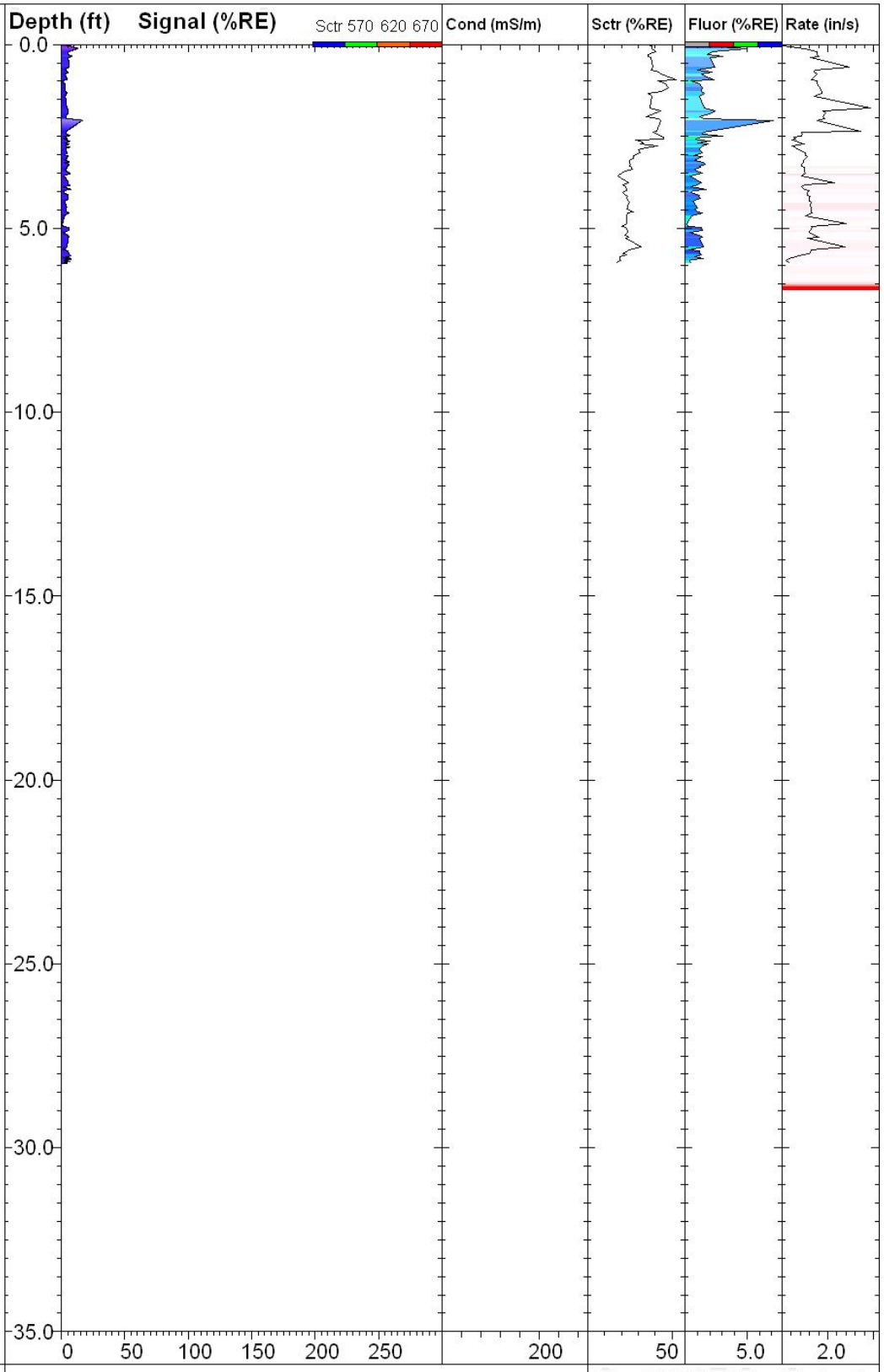
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **28.62 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **272.5 %RE @ 18.62 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-20 11:18 EST**

Callouts



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TG-10-22A

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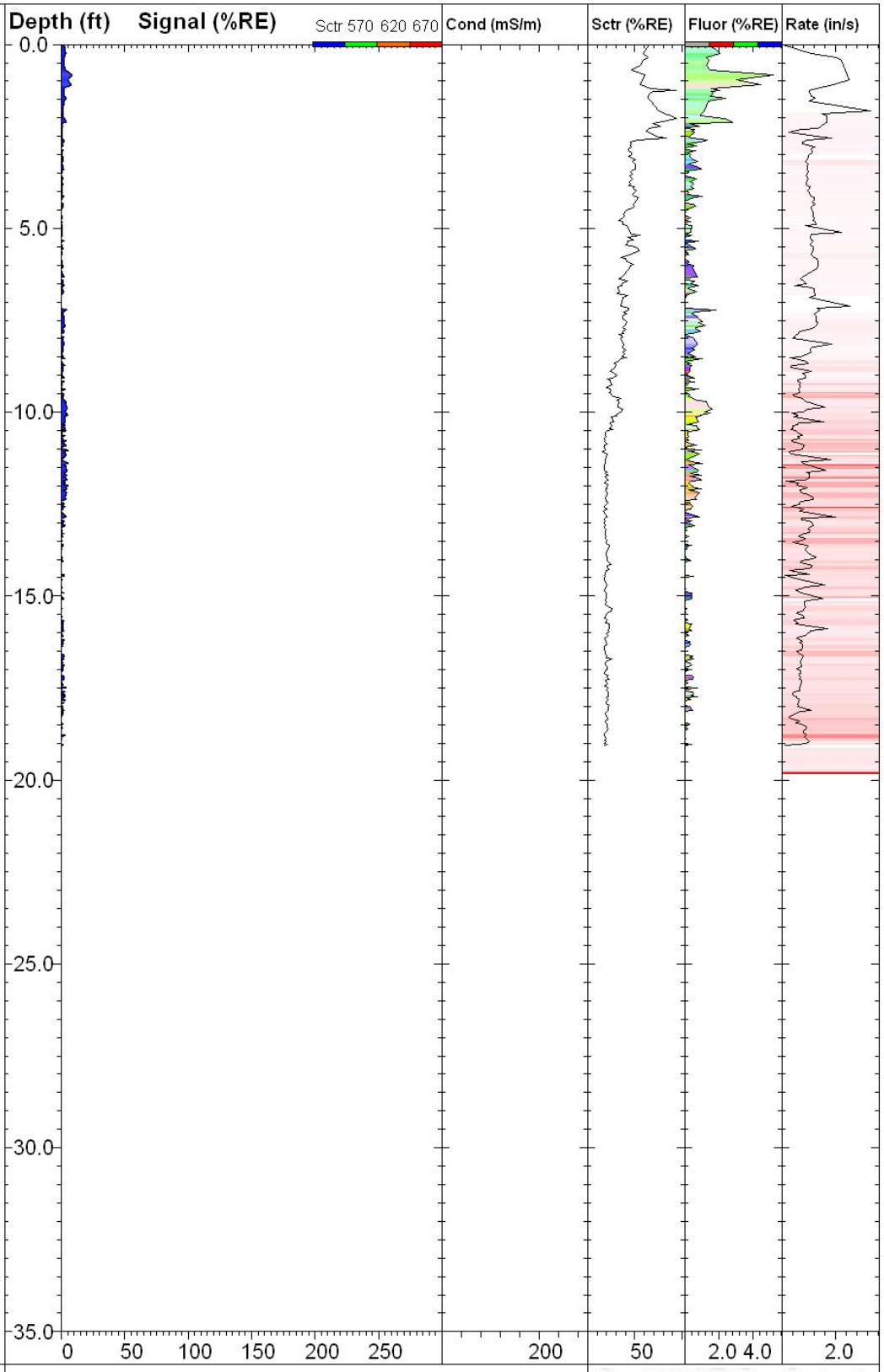
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **5.95 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **16.5 %RE @ 2.06 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-20 11:09 EST**

Callouts



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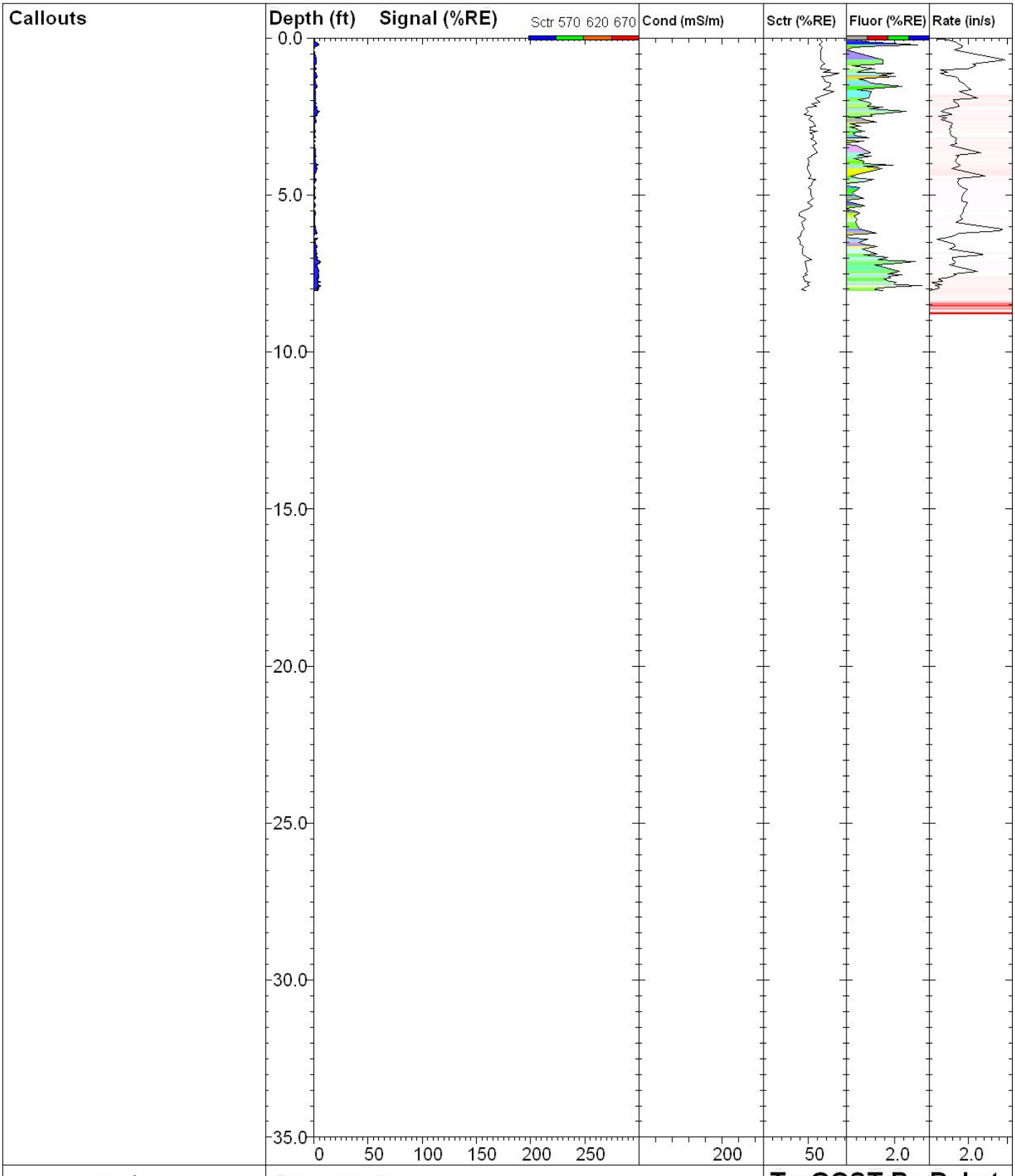
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **19.07 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **8.4 %RE @ 0.83 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-20 15:28 EST**



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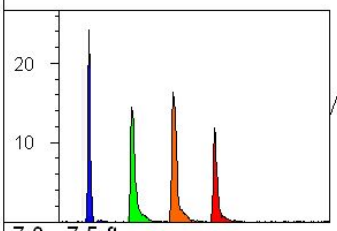
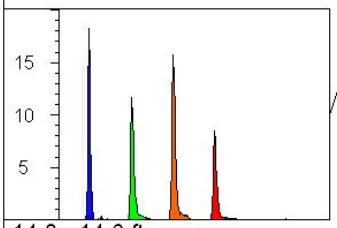
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **8.04 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **6.3 %RE @ 7.12 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-20 15:48 EST**

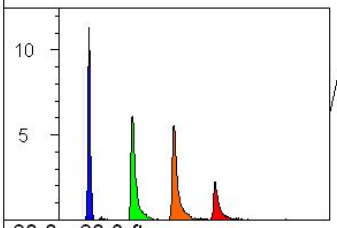
Callouts



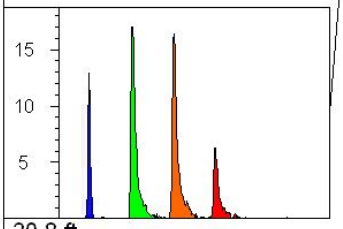
7.3 - 7.5 ft
40.2 %RE (s 54.1)



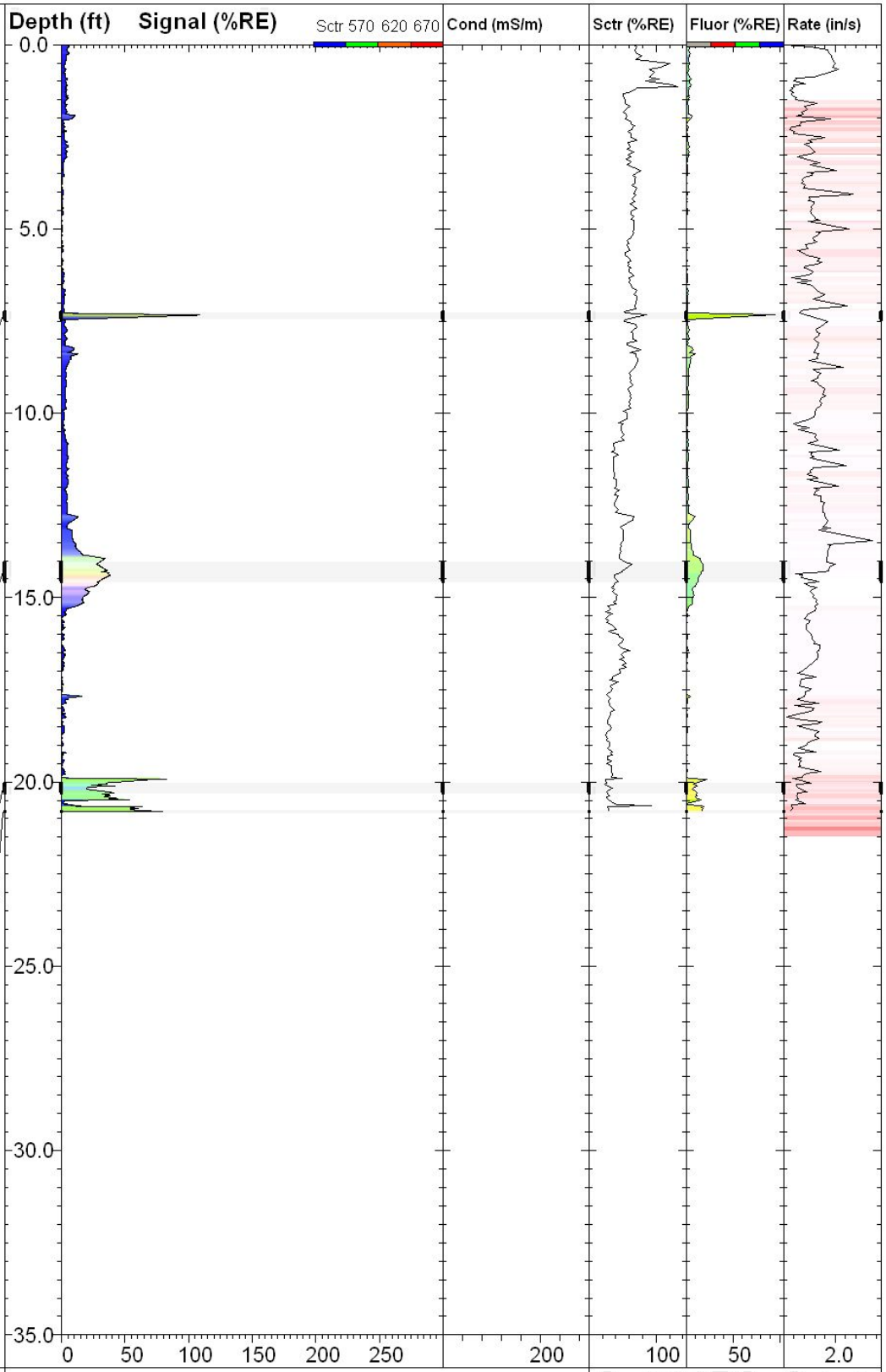
14.0 - 14.6 ft
32.7 %RE (s 3.8)



20.0 - 20.3 ft
29.7 %RE (s 8.9)



20.8 ft
80.5 %RE



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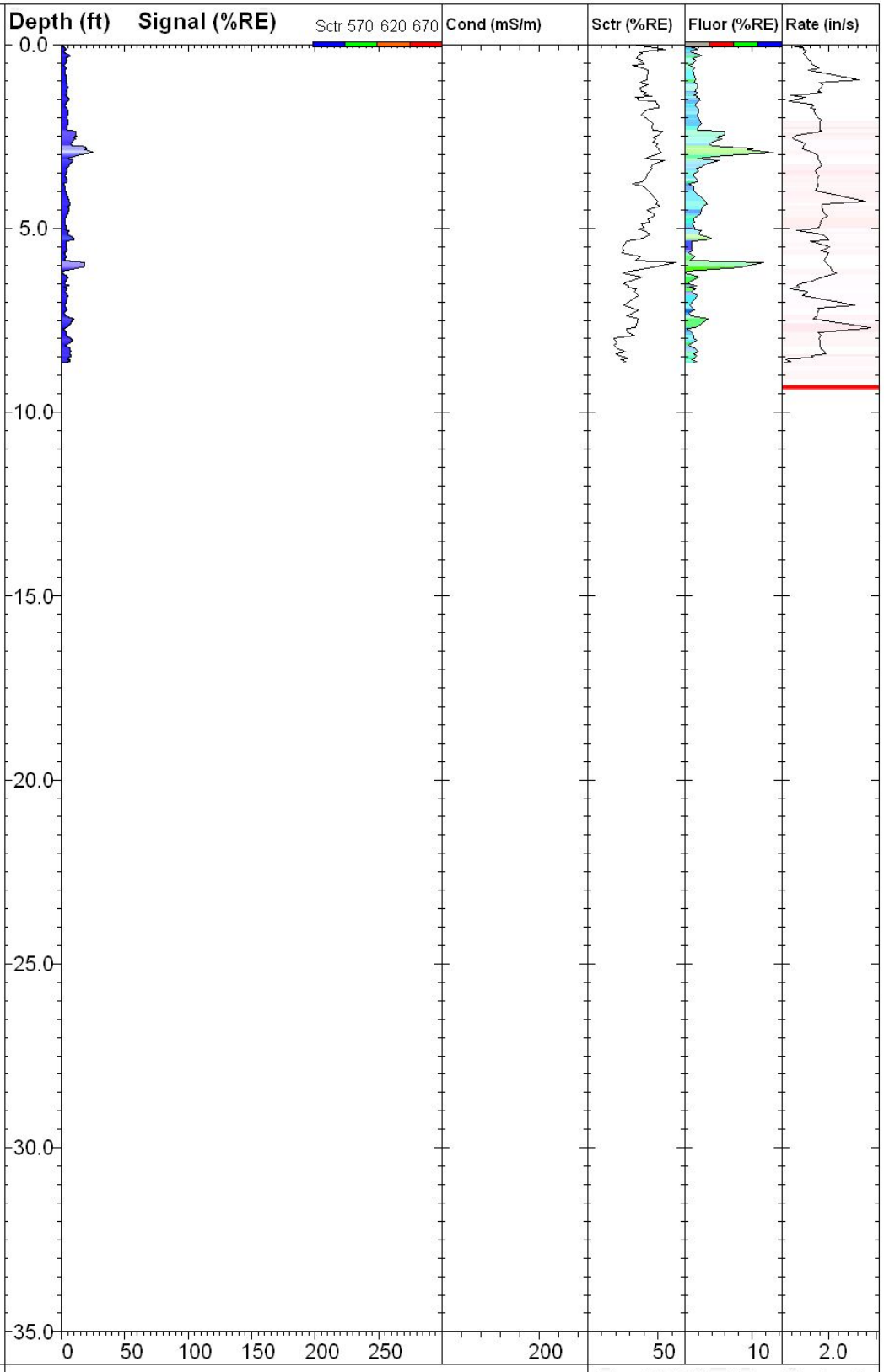
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **20.80 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **110.4 %RE @ 7.34 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-20 16:05 EST**

Callouts



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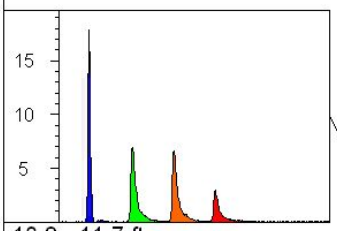
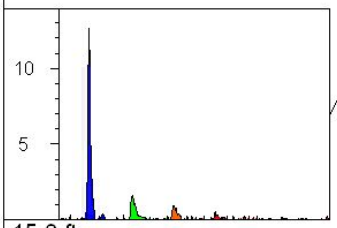
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **8.64 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **25.0 %RE @ 2.93 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-20 14:22 EST**

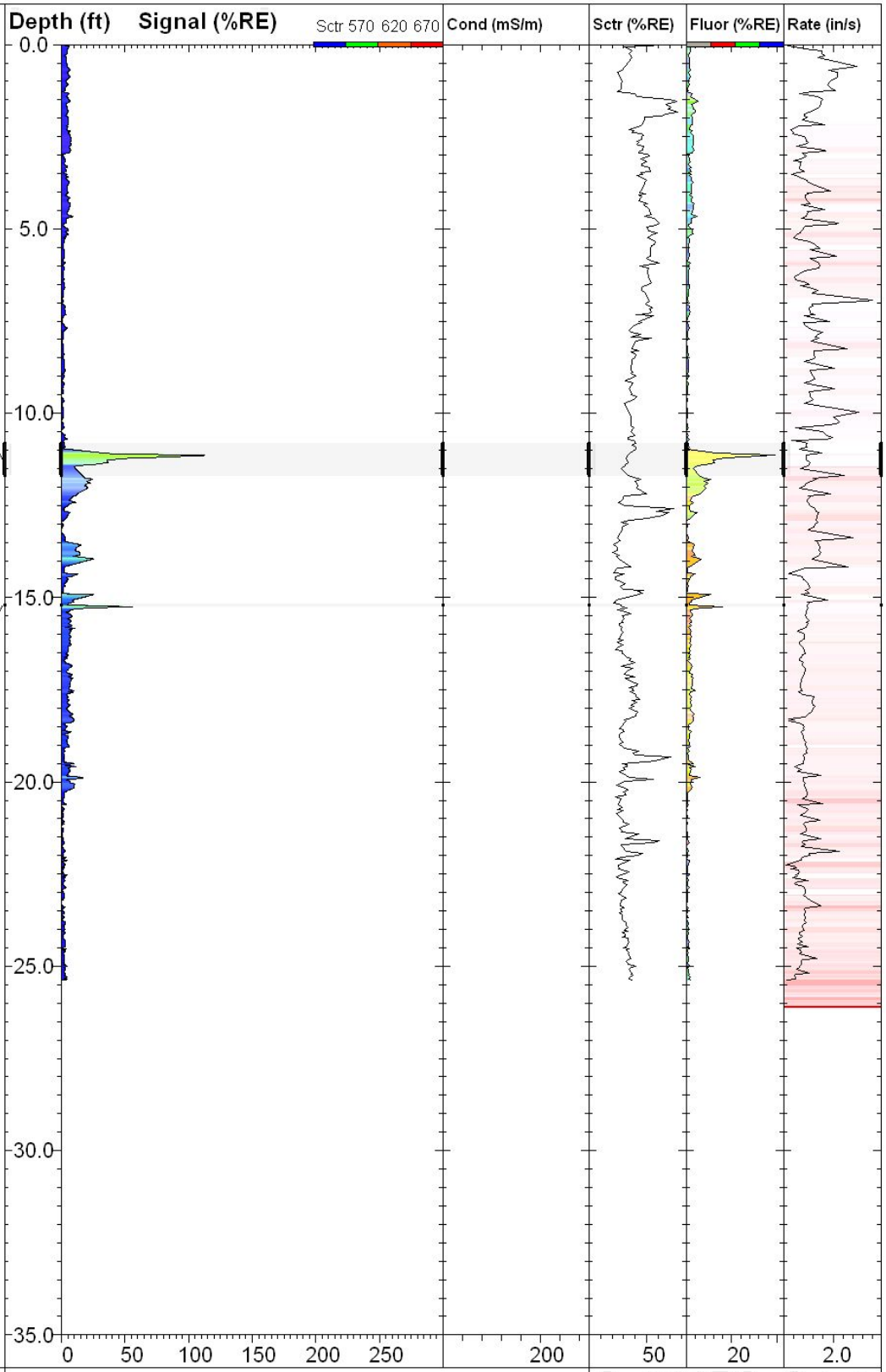
Callouts



10.8 - 11.7 ft
26.6 %RE (s 31.6)



15.2 ft
4.6 %RE



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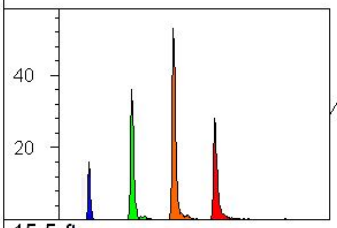
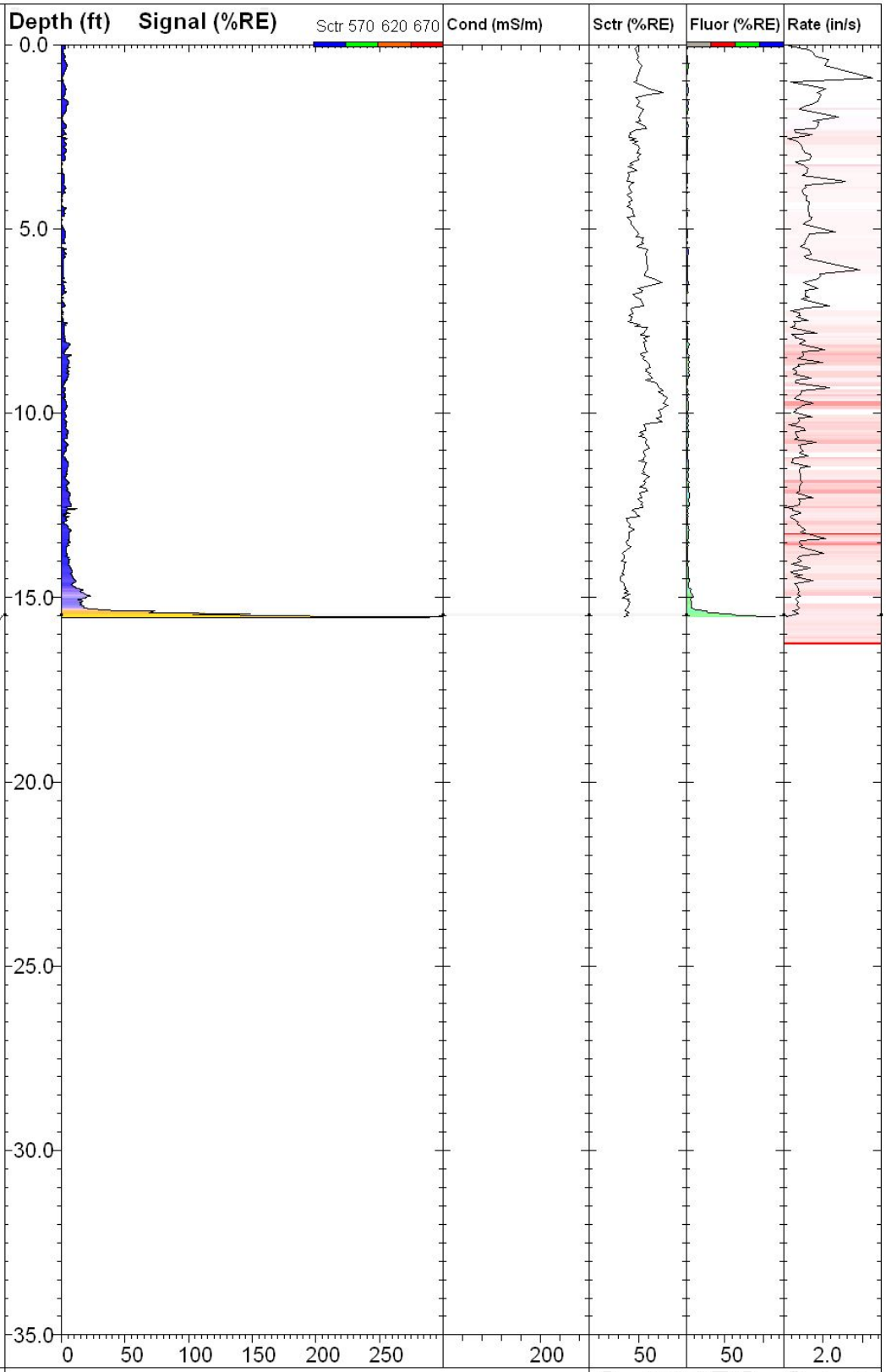
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **25.36 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **114.4 %RE @ 11.14 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-20 15:06 EST**

Callouts



15.5 ft
127.3 %RE



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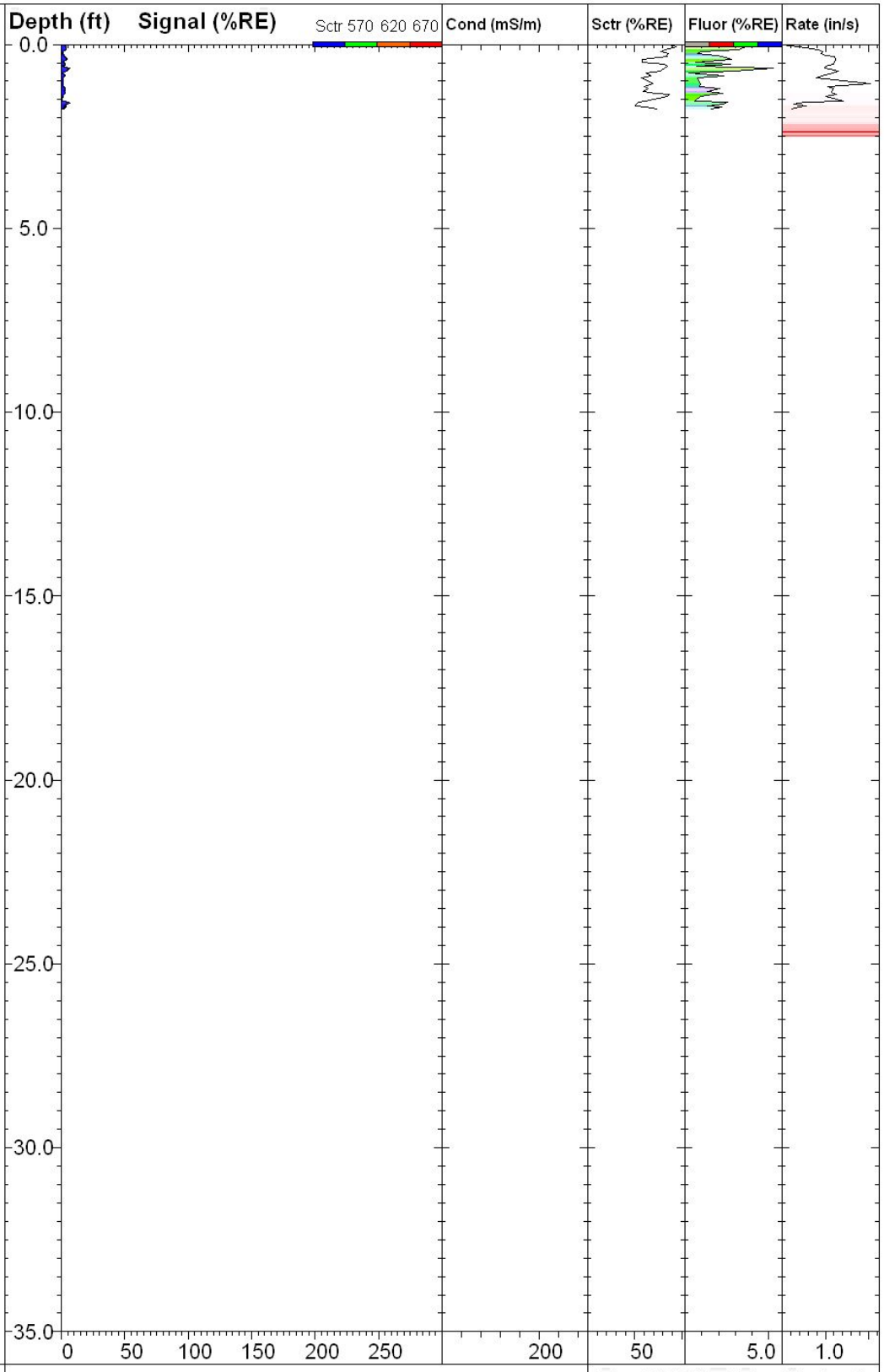
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **15.55 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **326.9 %RE @ 15.53 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-21 08:29 EST**

Callouts



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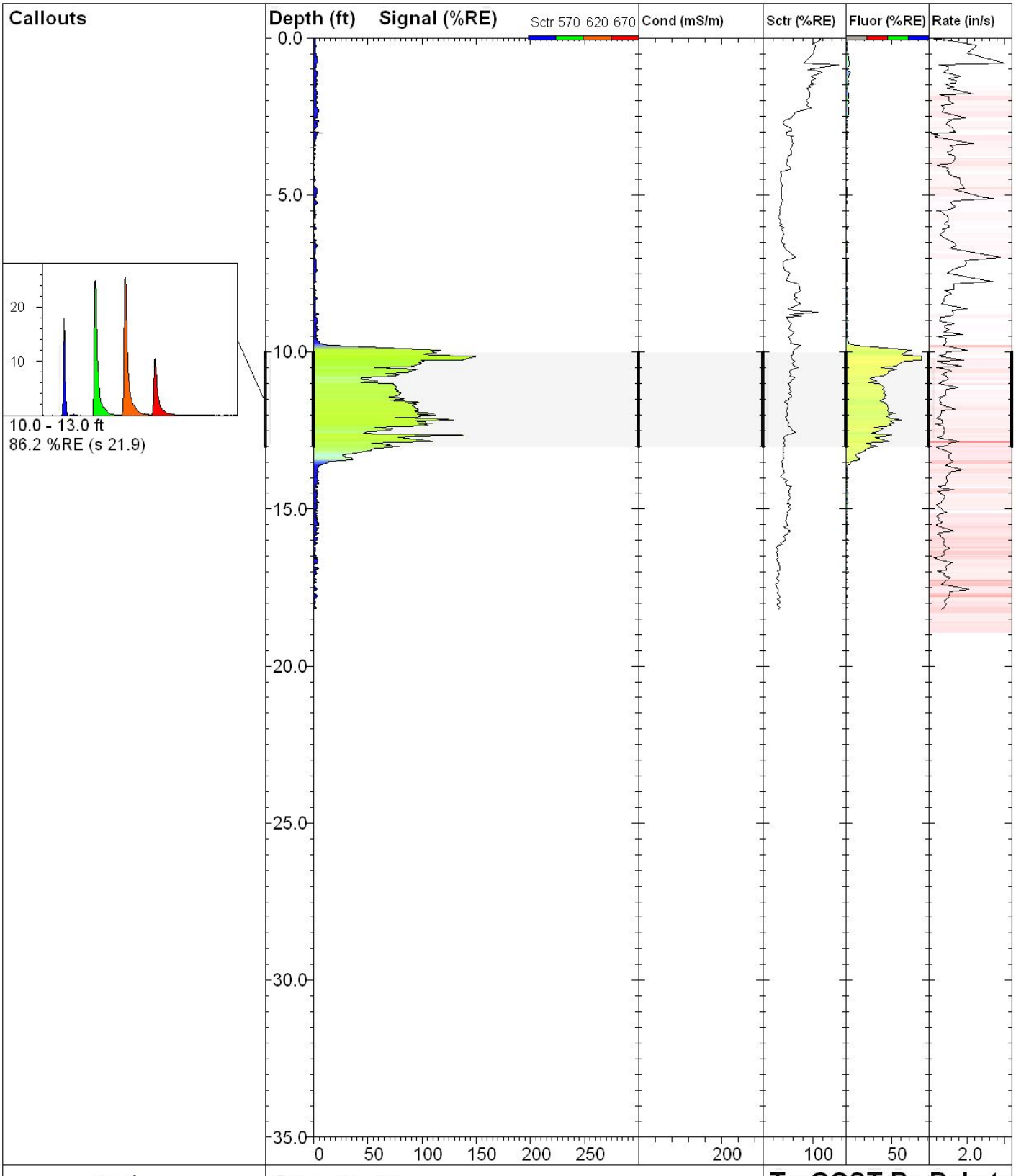
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **1.77 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **7.1 %RE @ 1.60 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-21 08:25 EST**



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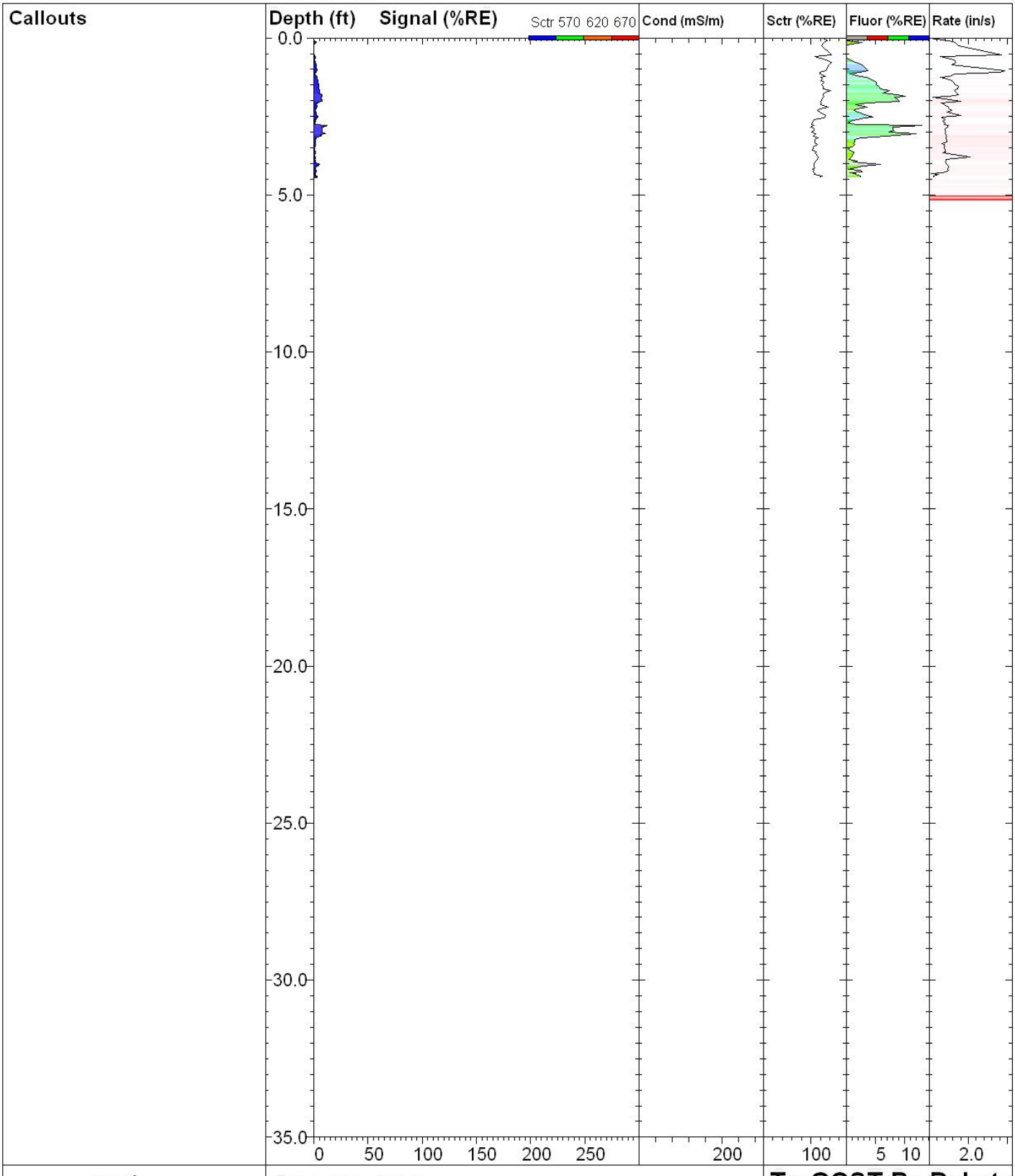
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **18.19 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **150.5 %RE @ 10.13 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-21 09:06 EST**



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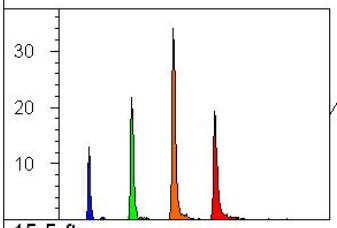
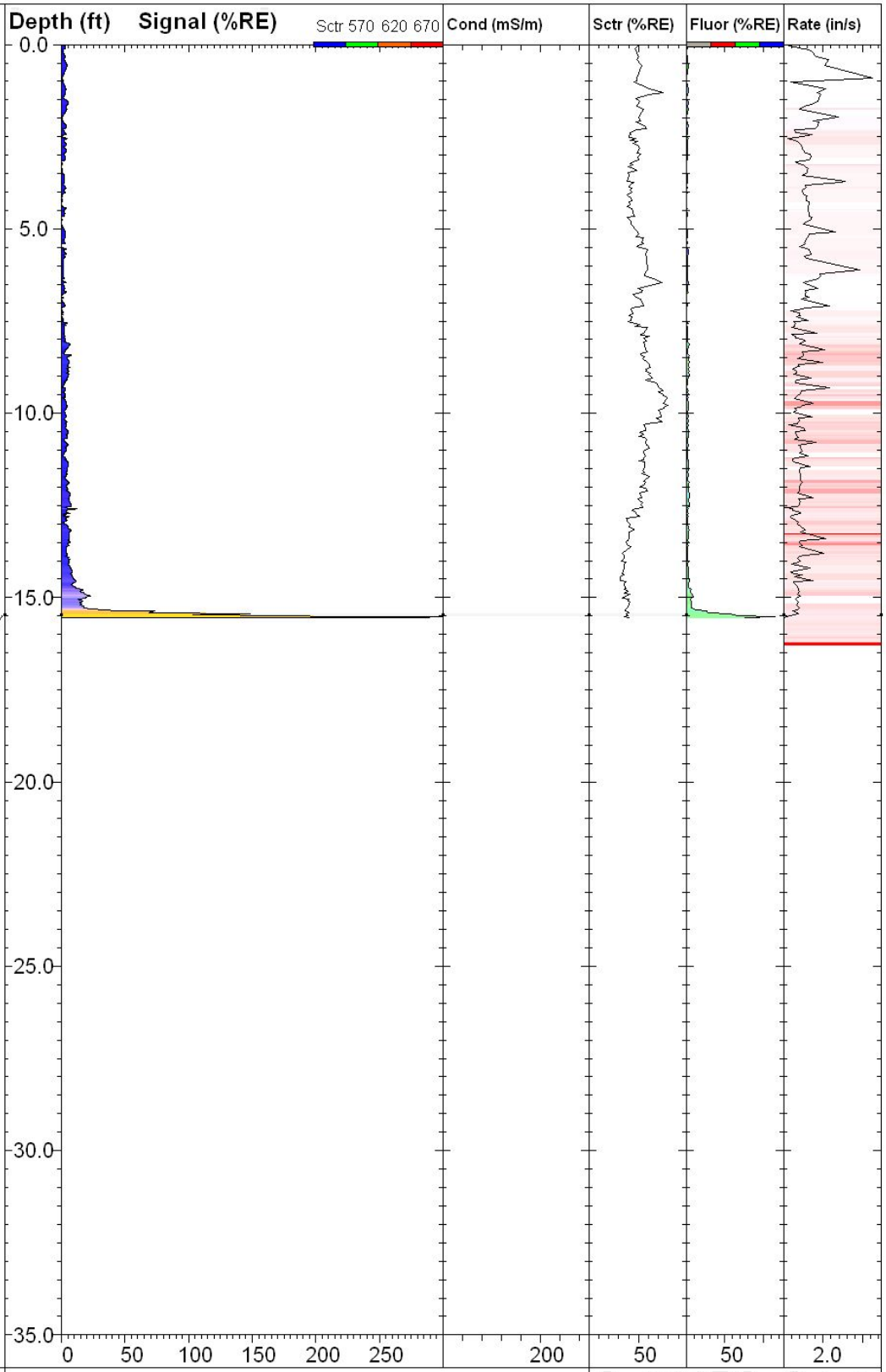
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **4.44 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **12.2 %RE @ 2.79 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-21 08:46 EST**

Callouts



15.5 ft
98.7 %RE



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TG-10-29B

TarGOST By Dakota
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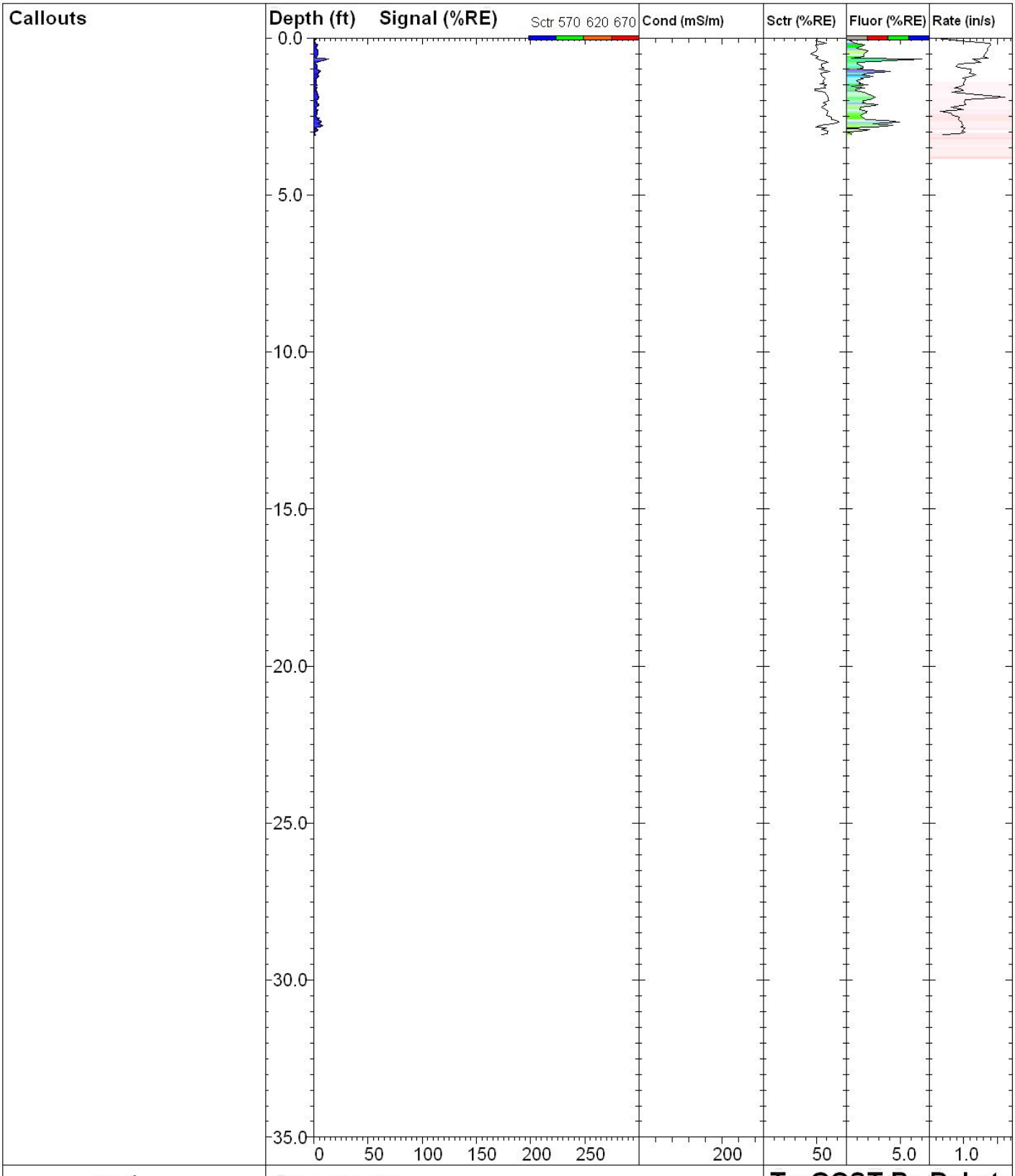
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **15.55 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **326.9 %RE @ 15.53 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-21 08:29 EST**



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TG-10-30

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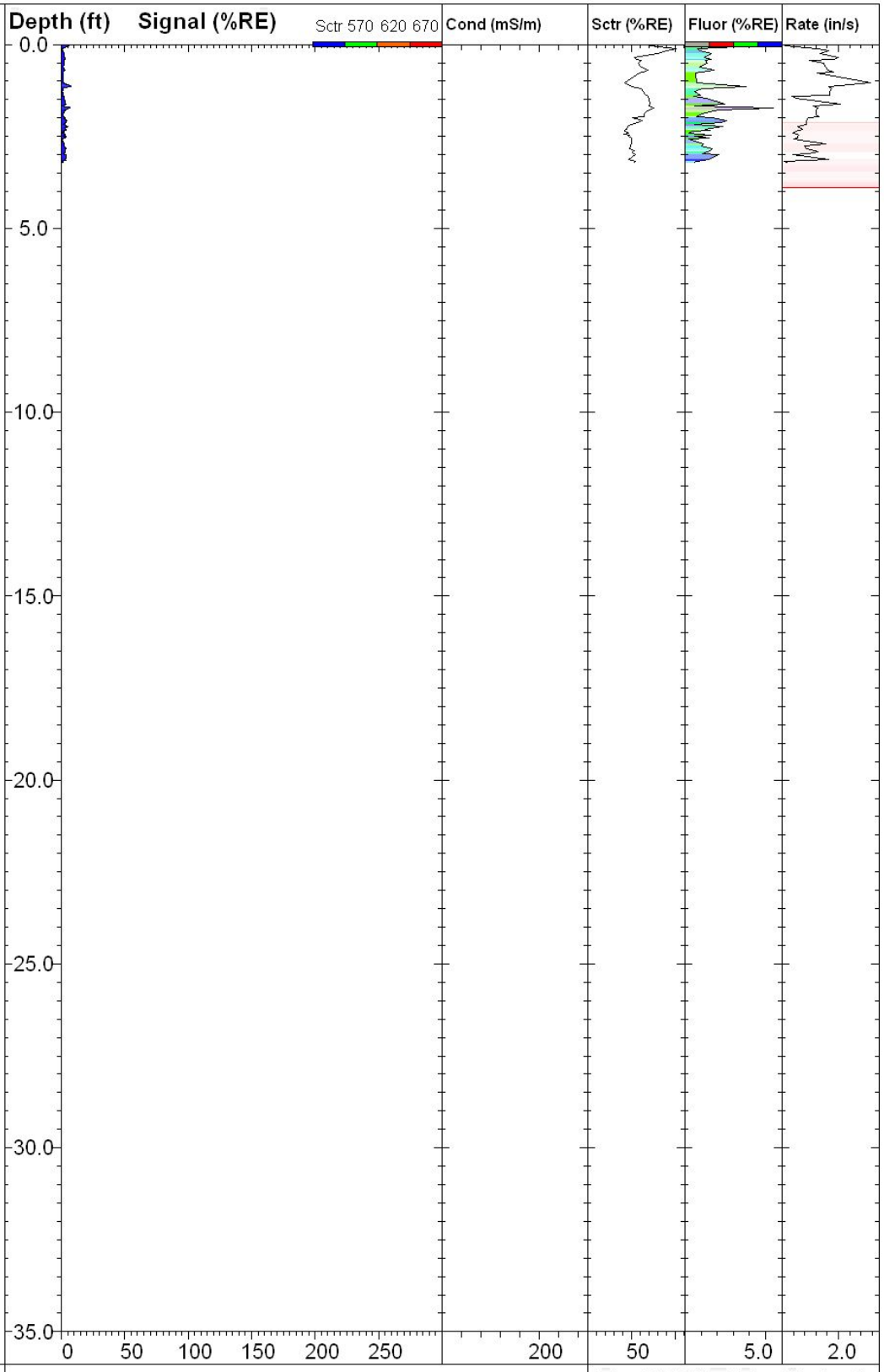
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **3.09 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **13.7 %RE @ 0.67 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-21 09:38 EST**

Callouts



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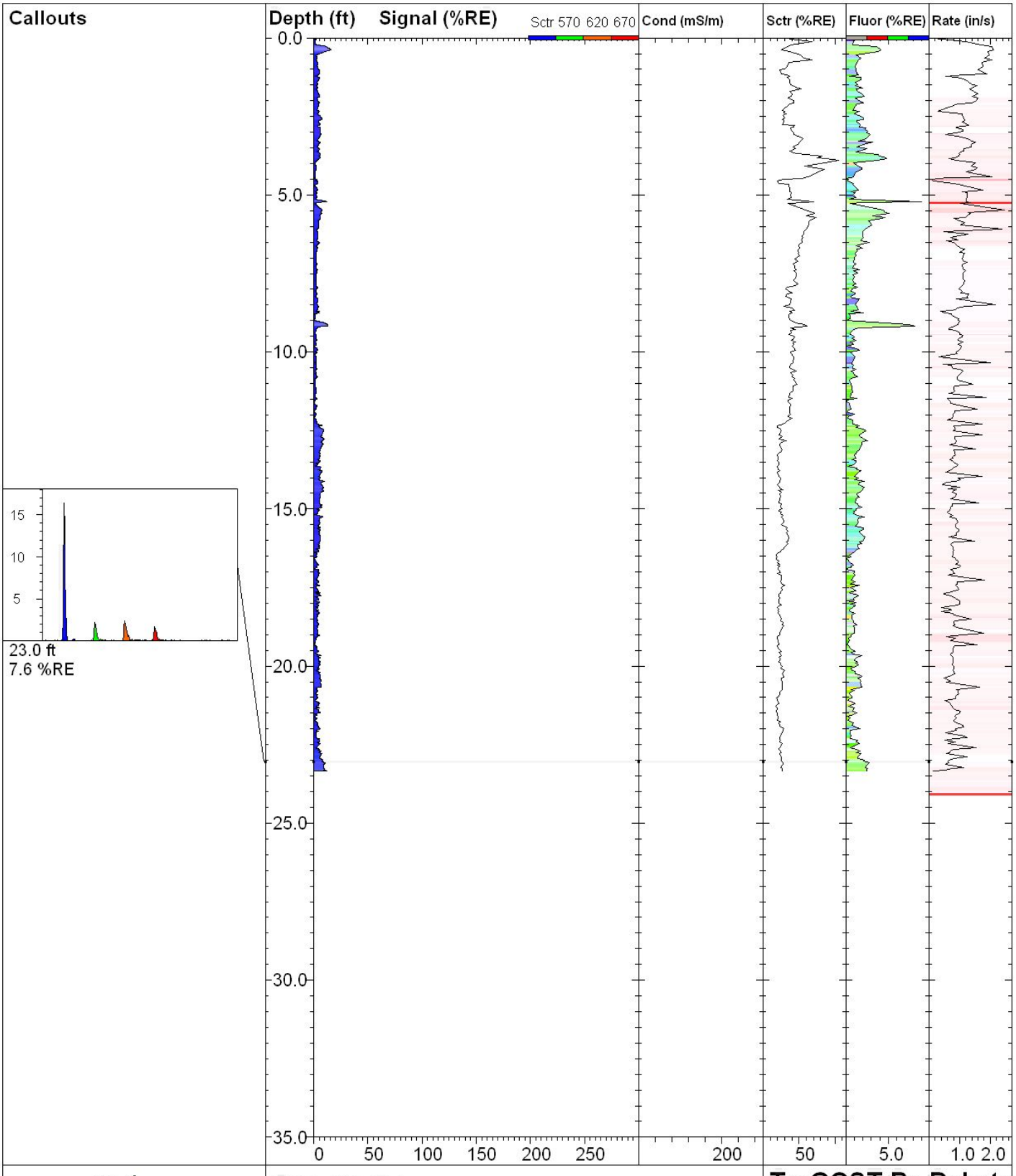
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **3.20 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **7.6 %RE @ 1.14 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-21 09:28 EST**



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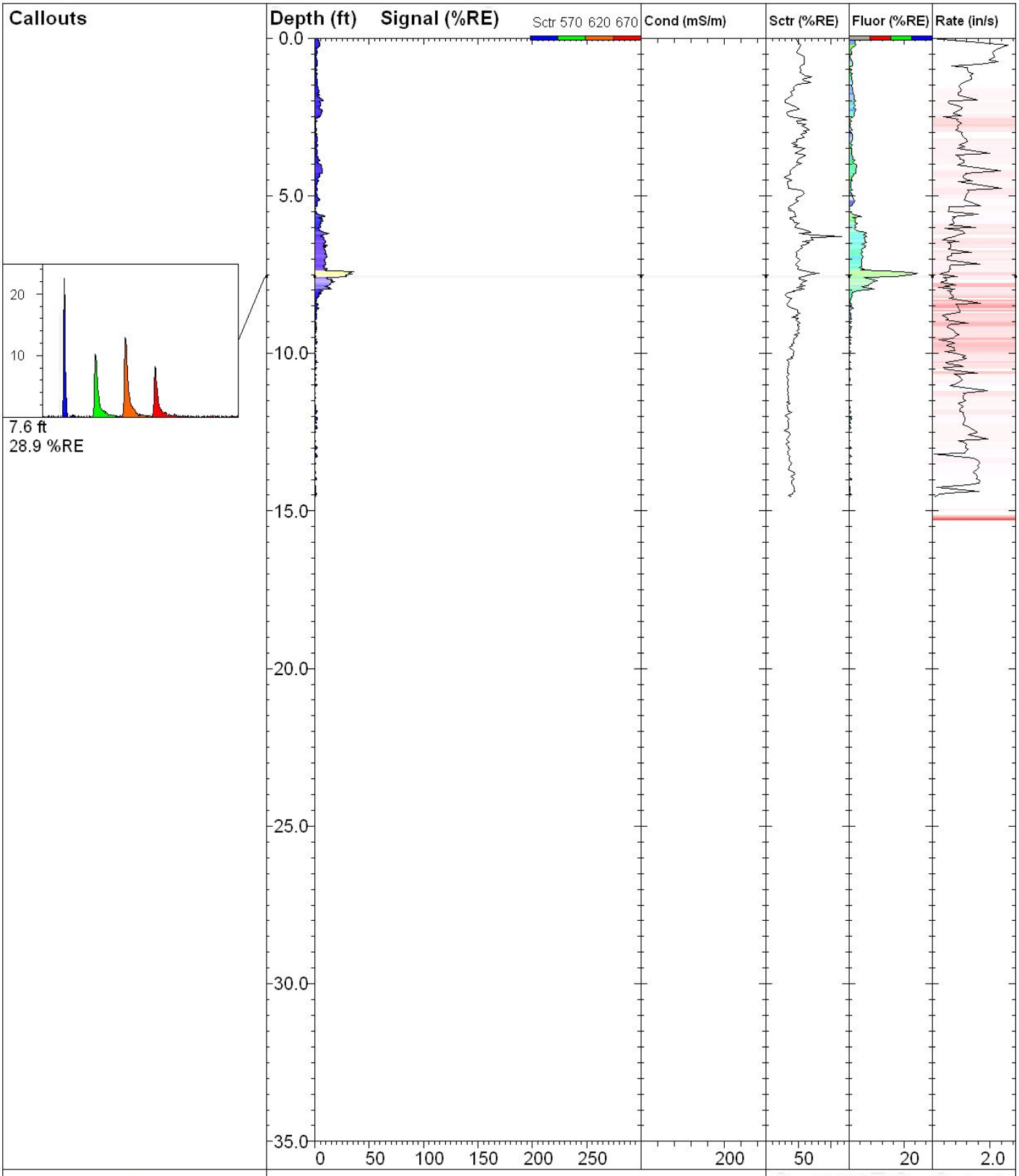
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **23.35 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **16.2 %RE @ 0.38 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-21 11:38 EST**



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TG-10-32

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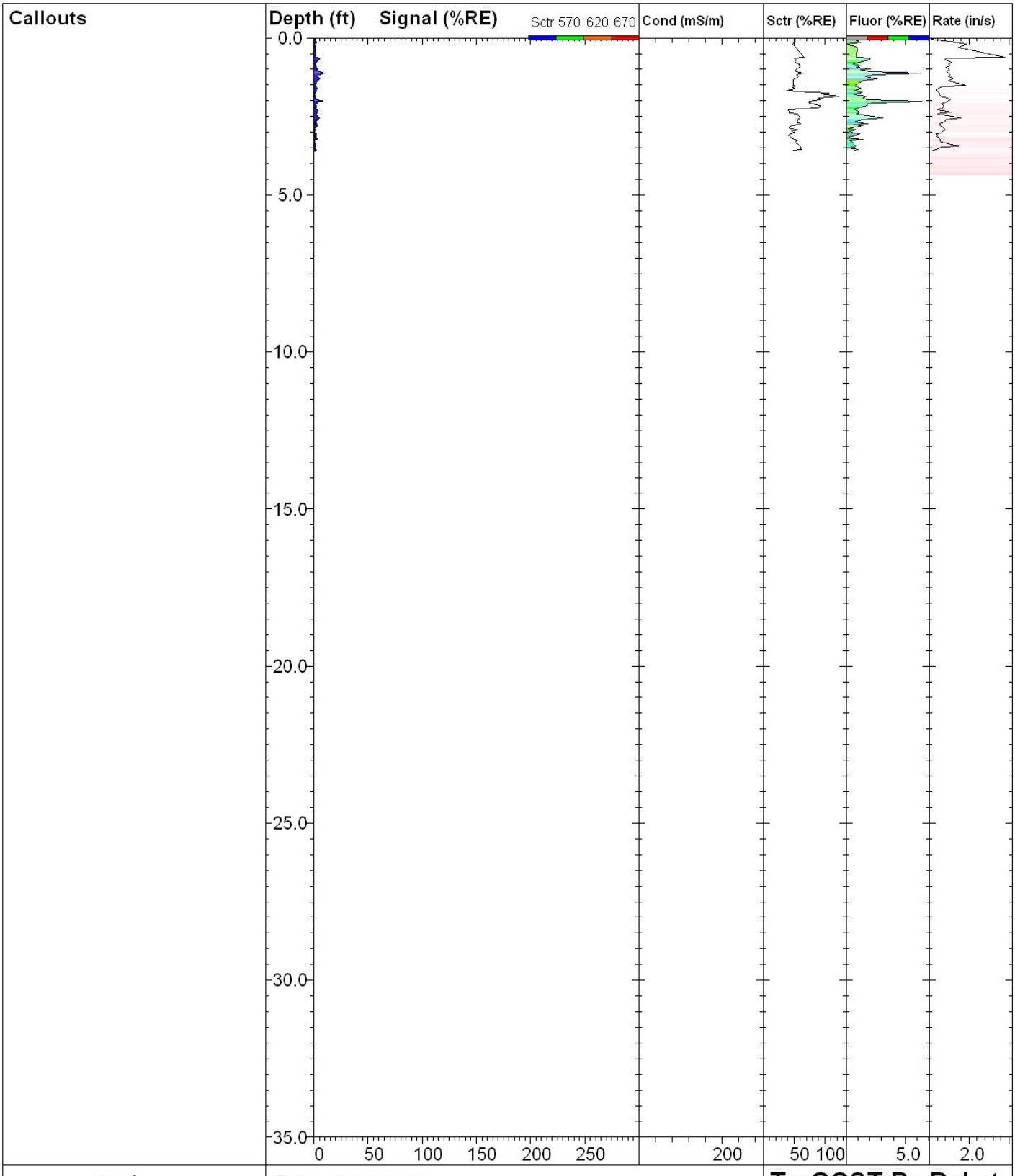
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **14.55 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **36.1 %RE @ 7.41 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-21 11:22 EST**



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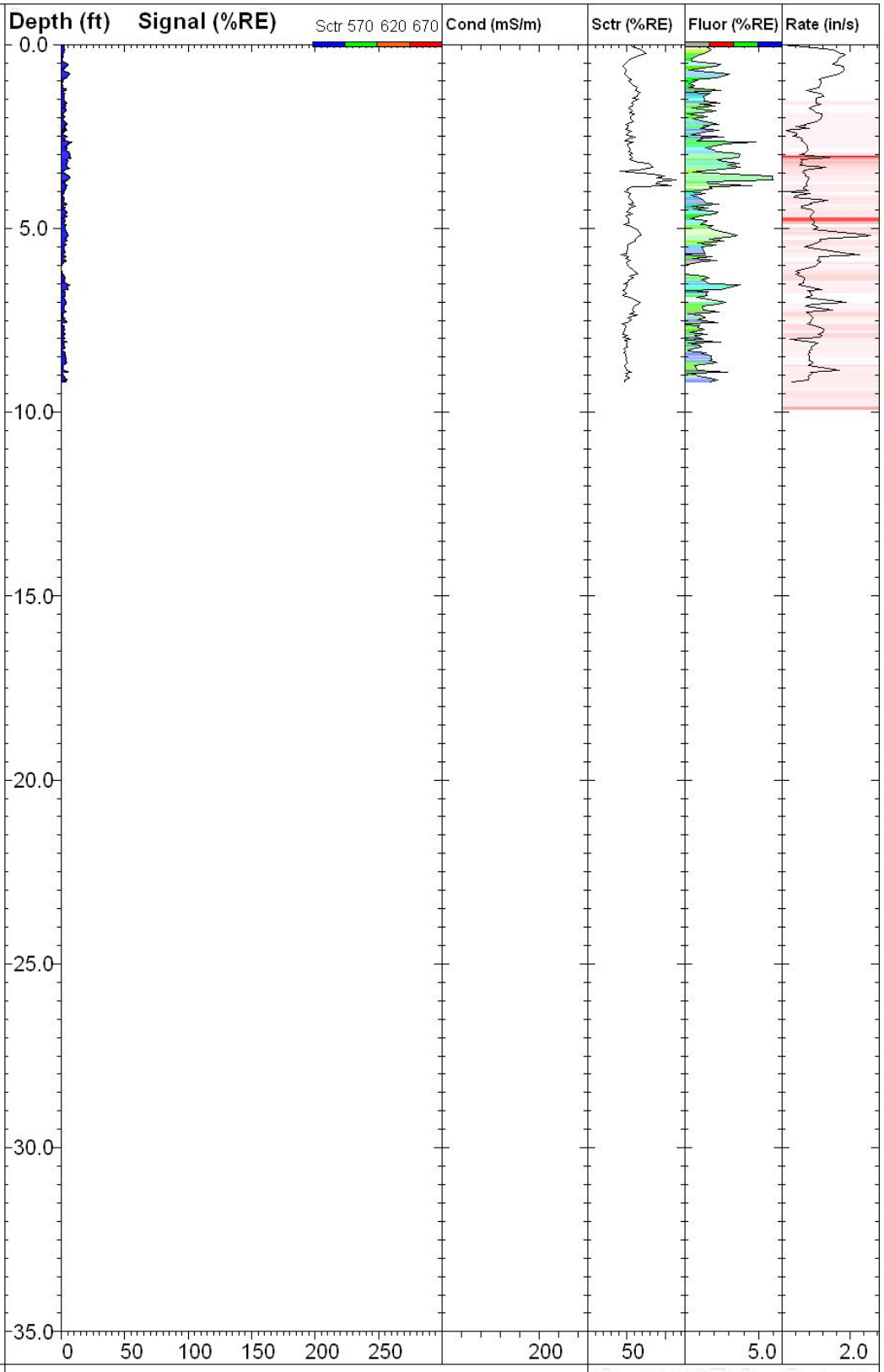
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **3.60 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **9.8 %RE @ 1.12 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-21 11:14 EST**

Callouts



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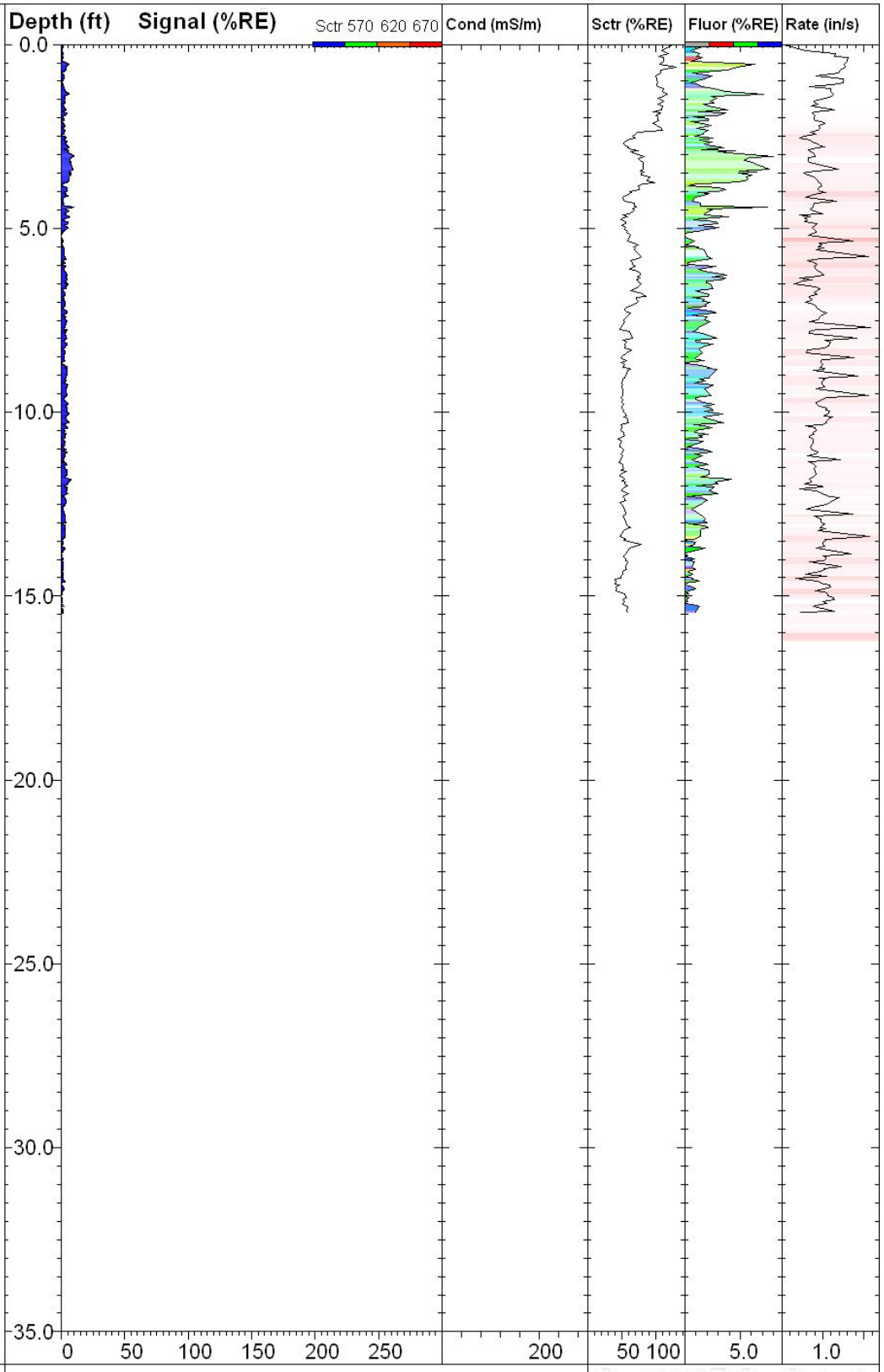
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **9.17 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **8.3 %RE @ 2.66 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-21 09:54 EST**

Callouts



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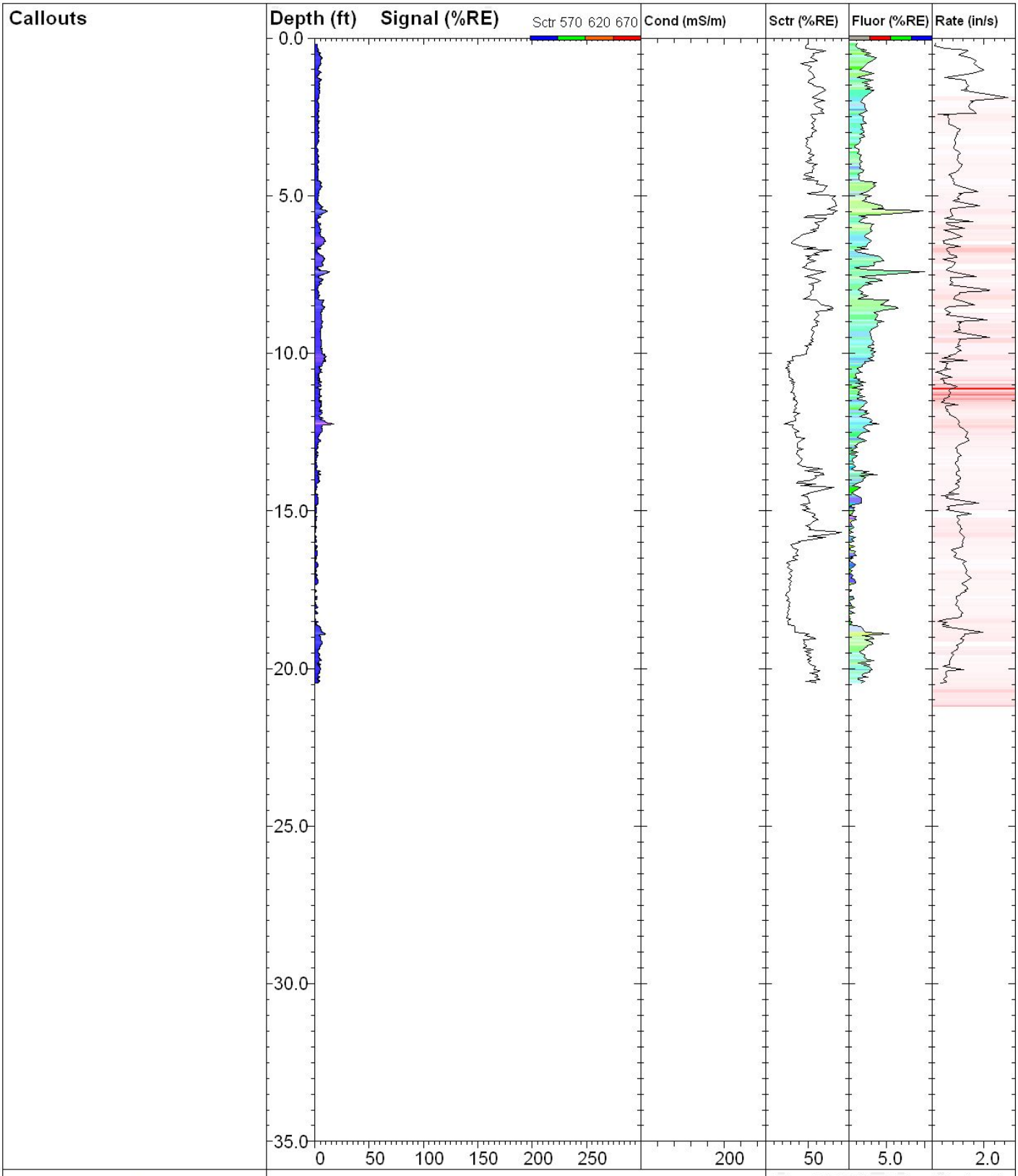
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **15.46 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **10.5 %RE @ 4.43 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-21 10:16 EST**



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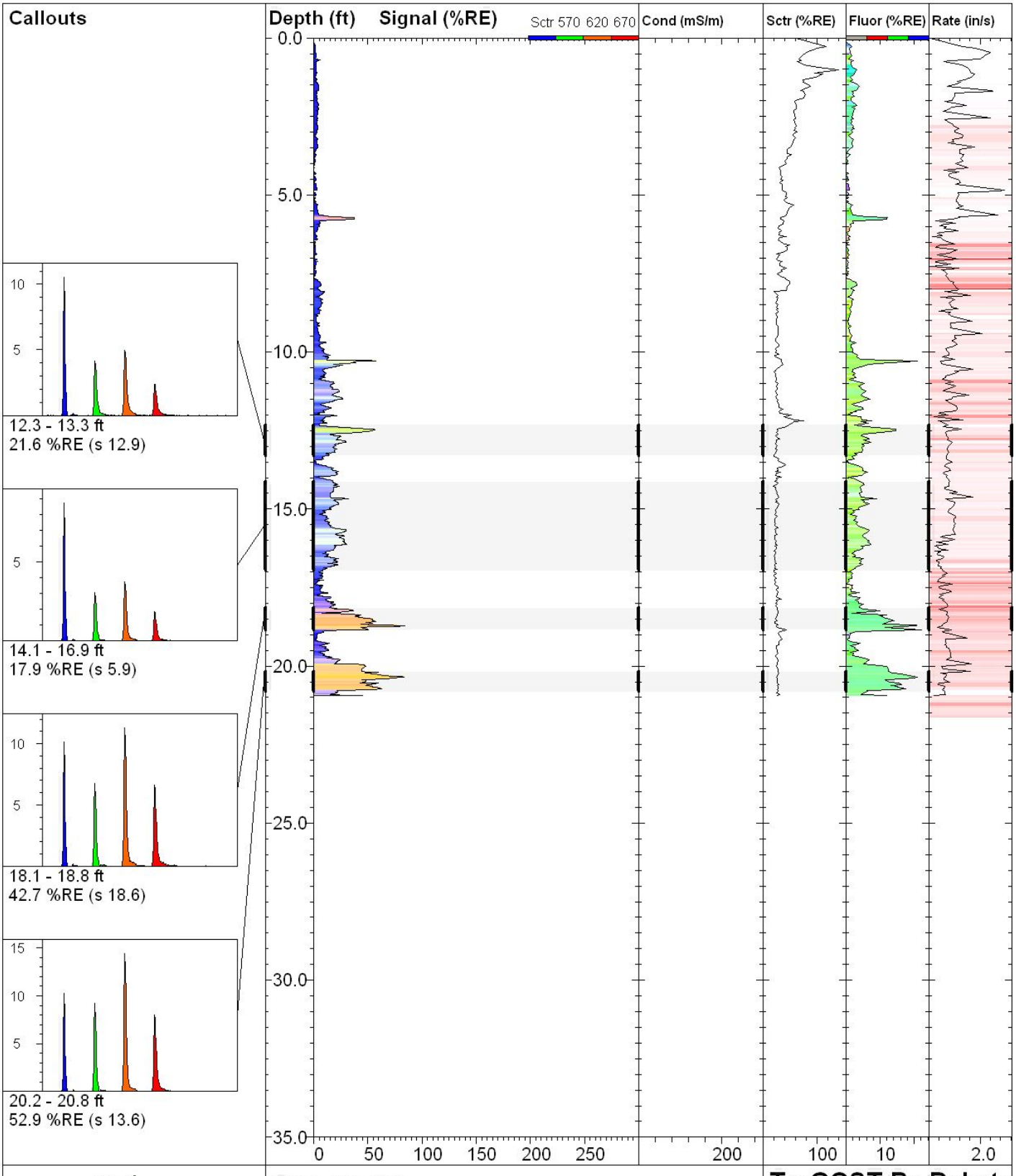
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **20.46 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **18.2 %RE @ 12.25 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-21 10:53 EST**



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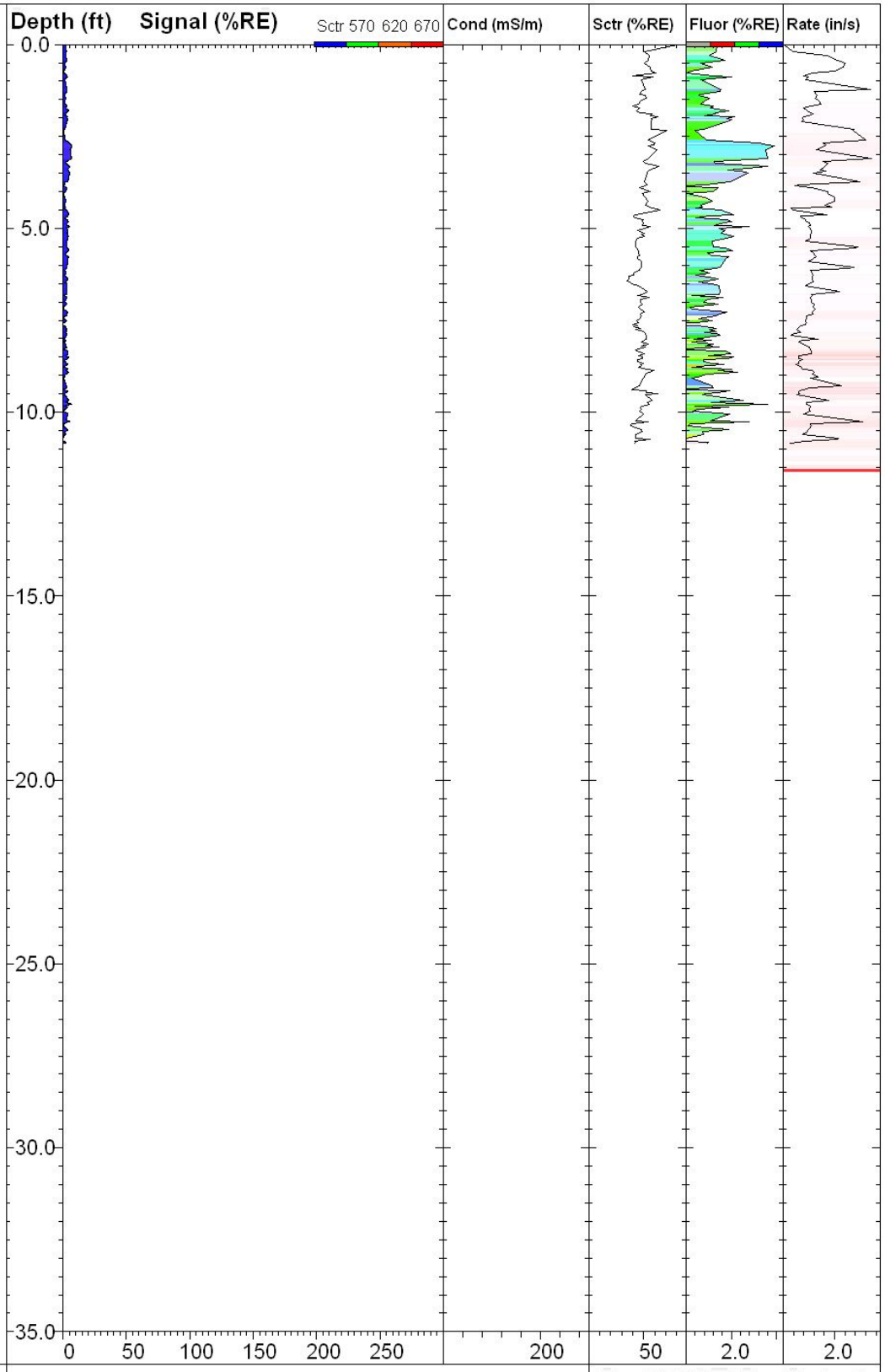
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **20.94 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **84.6 %RE @ 18.72 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-22 15:16 EST**



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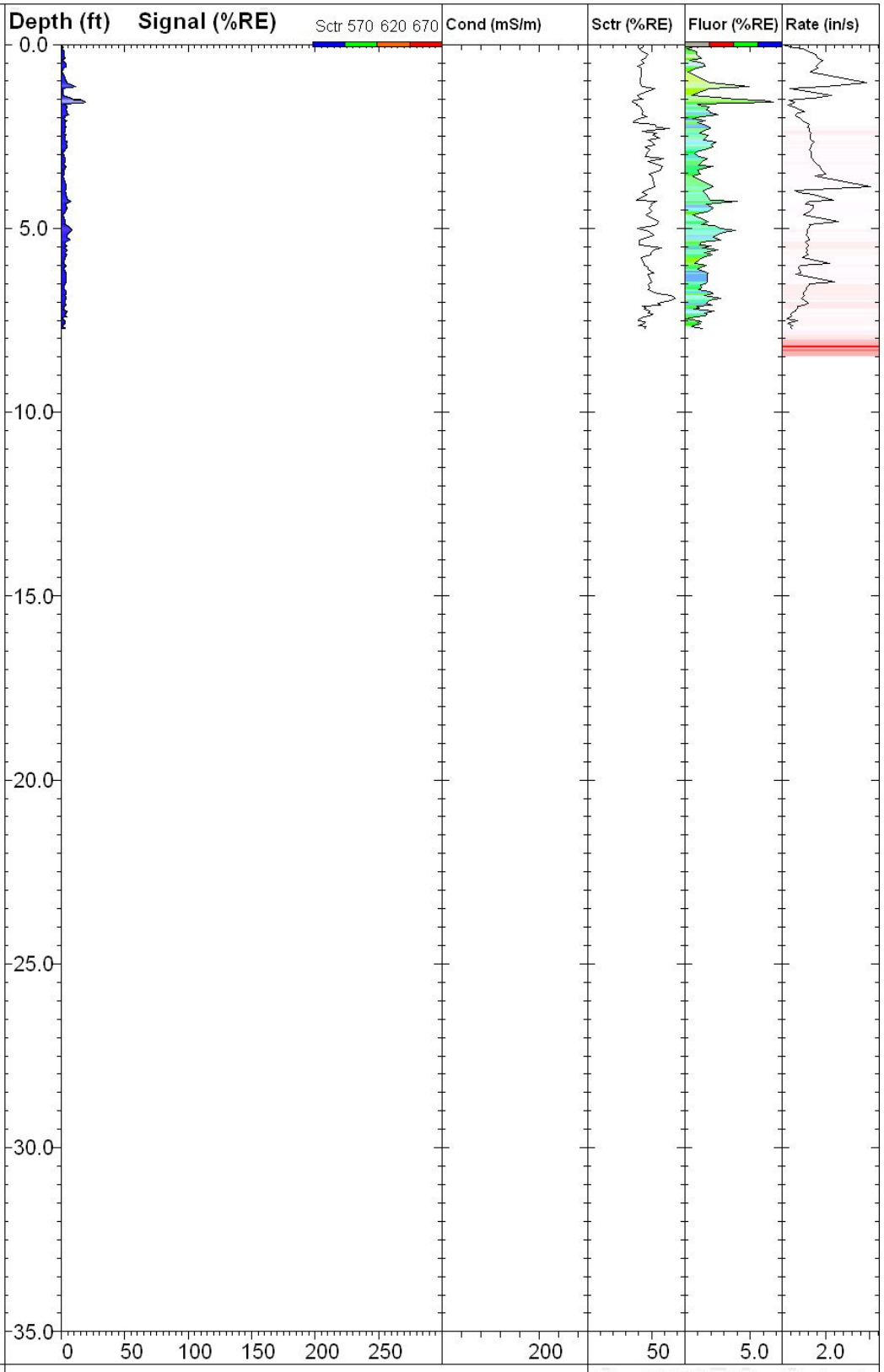
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **10.85 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **7.2 %RE @ 2.77 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-22 15:01 EST**

Callouts



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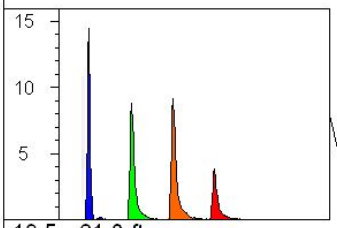
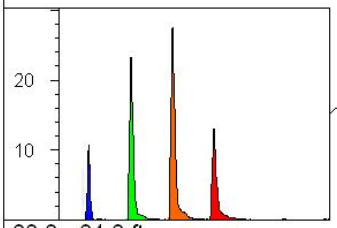
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **7.73 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **19.2 %RE @ 1.58 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-22 14:53 EST**

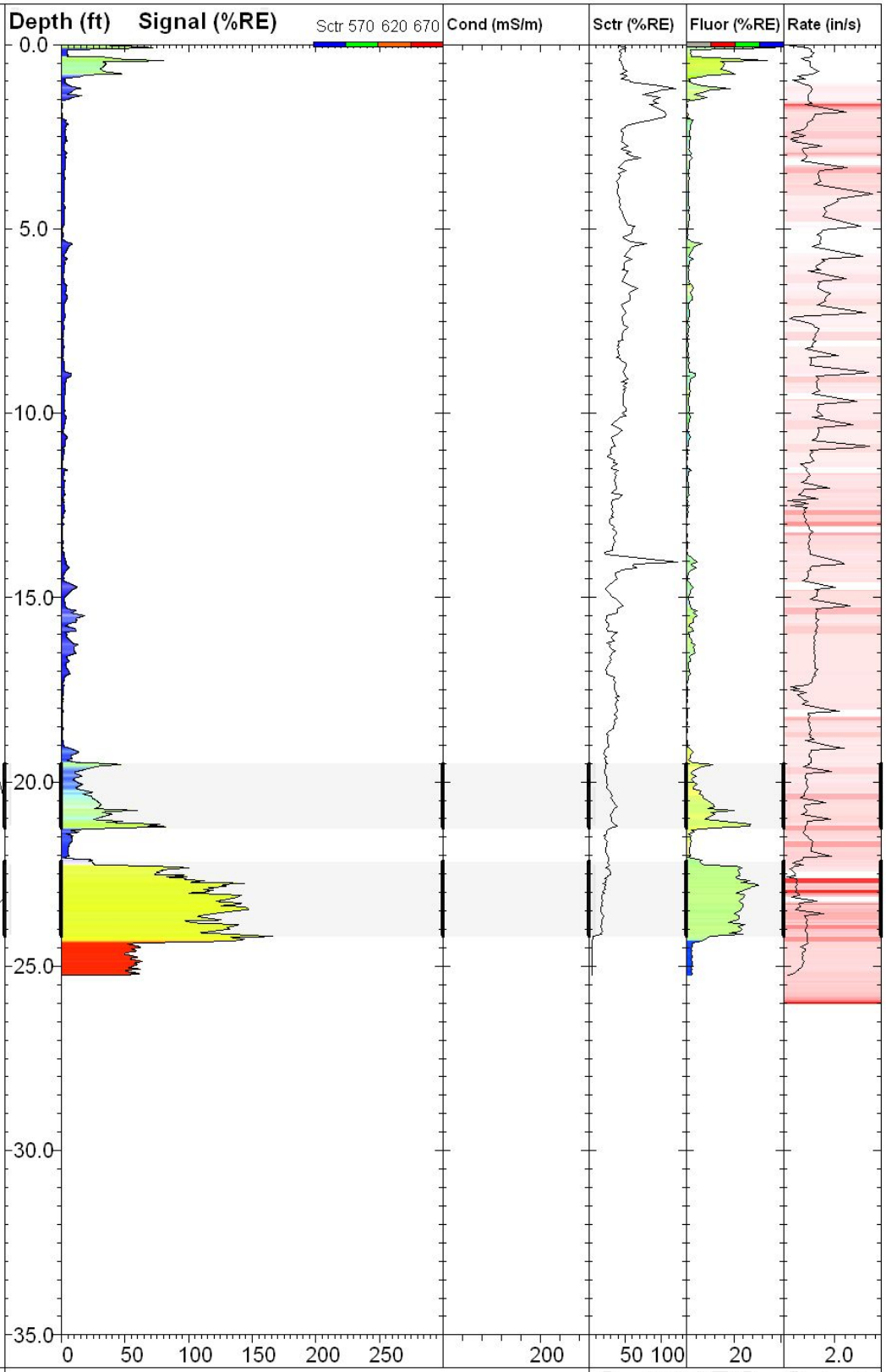
Callouts



19.5 - 21.3 ft
31.0 %RE (s 18.5)



22.2 - 24.2 ft
101.5 %RE (s 30.9)



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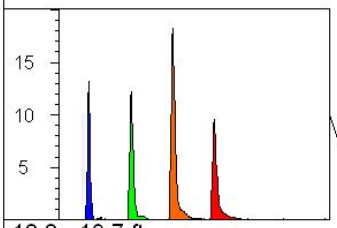
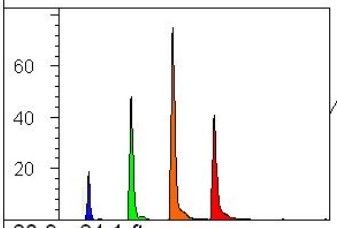
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **25.25 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **167.0 %RE @ 24.19 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-18 13:13 EST**

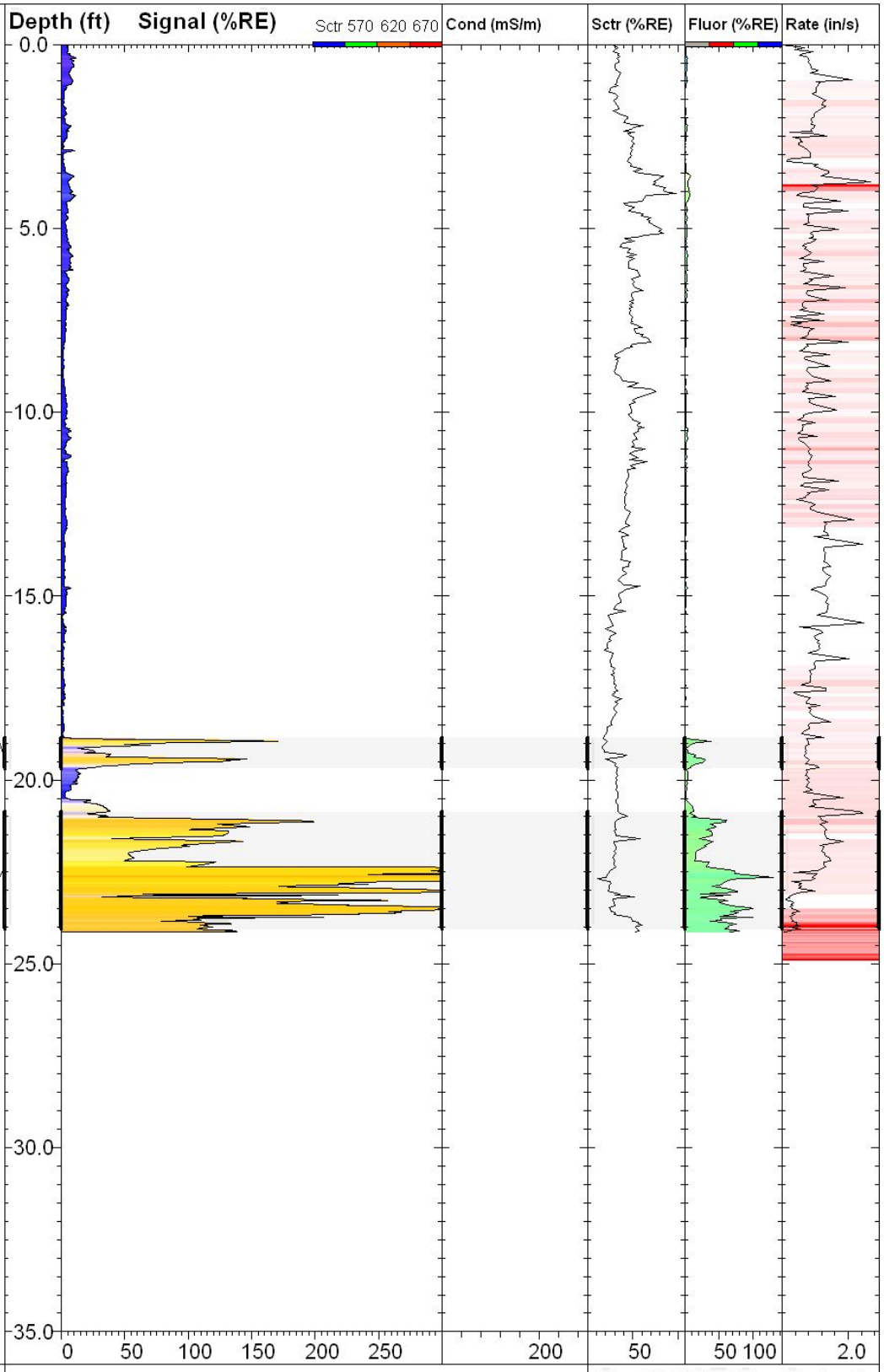
Callouts



18.8 - 19.7 ft
54.9 %RE (s 46.2)



20.9 - 24.1 ft
162.6 %RE (s 112.3)



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TG-10-39

TarGOST By Dakota
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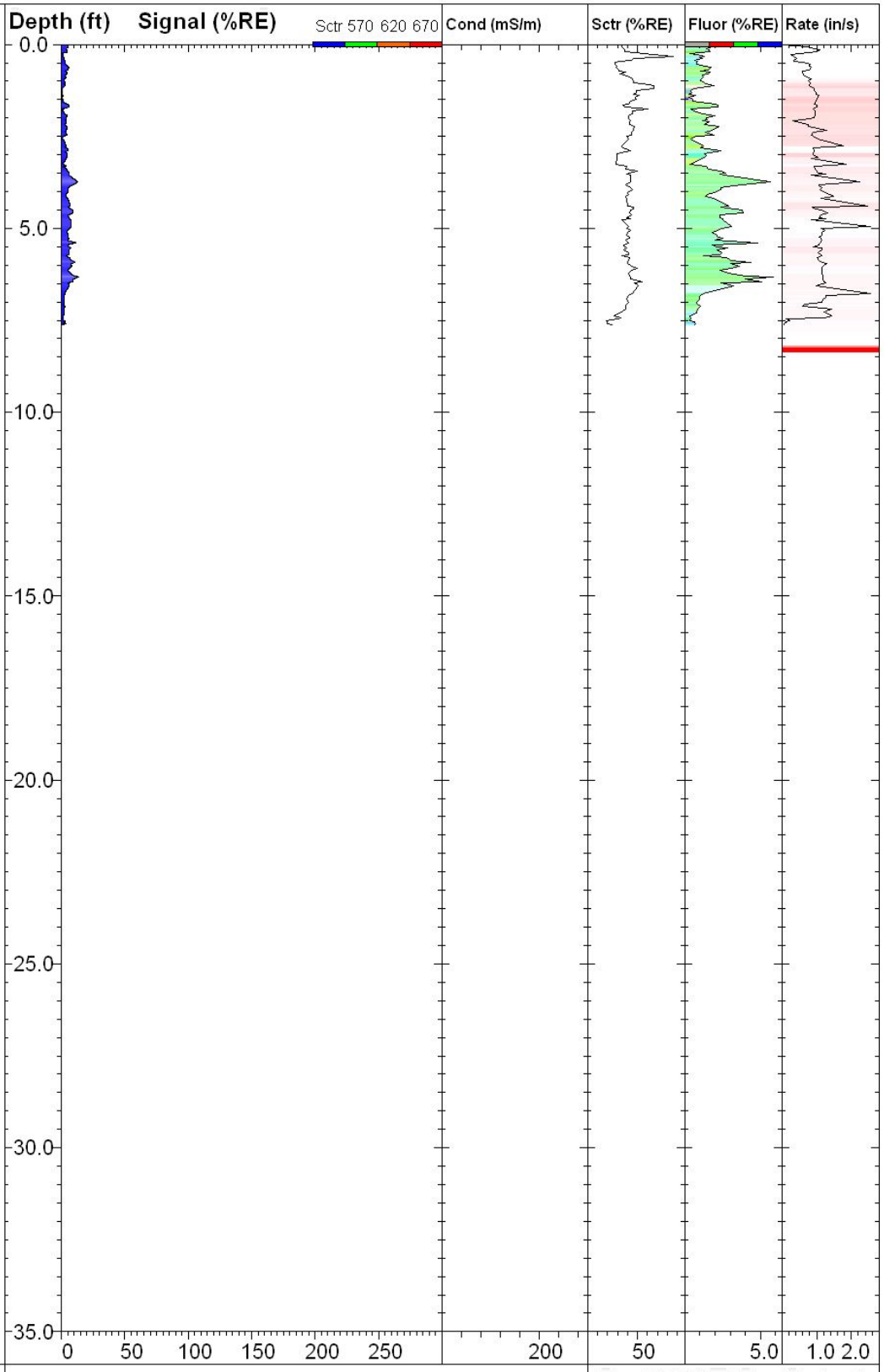
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **24.14 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **730.5 %RE @ 22.67 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-18 12:54 EST**

Callouts



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TG-10-39A

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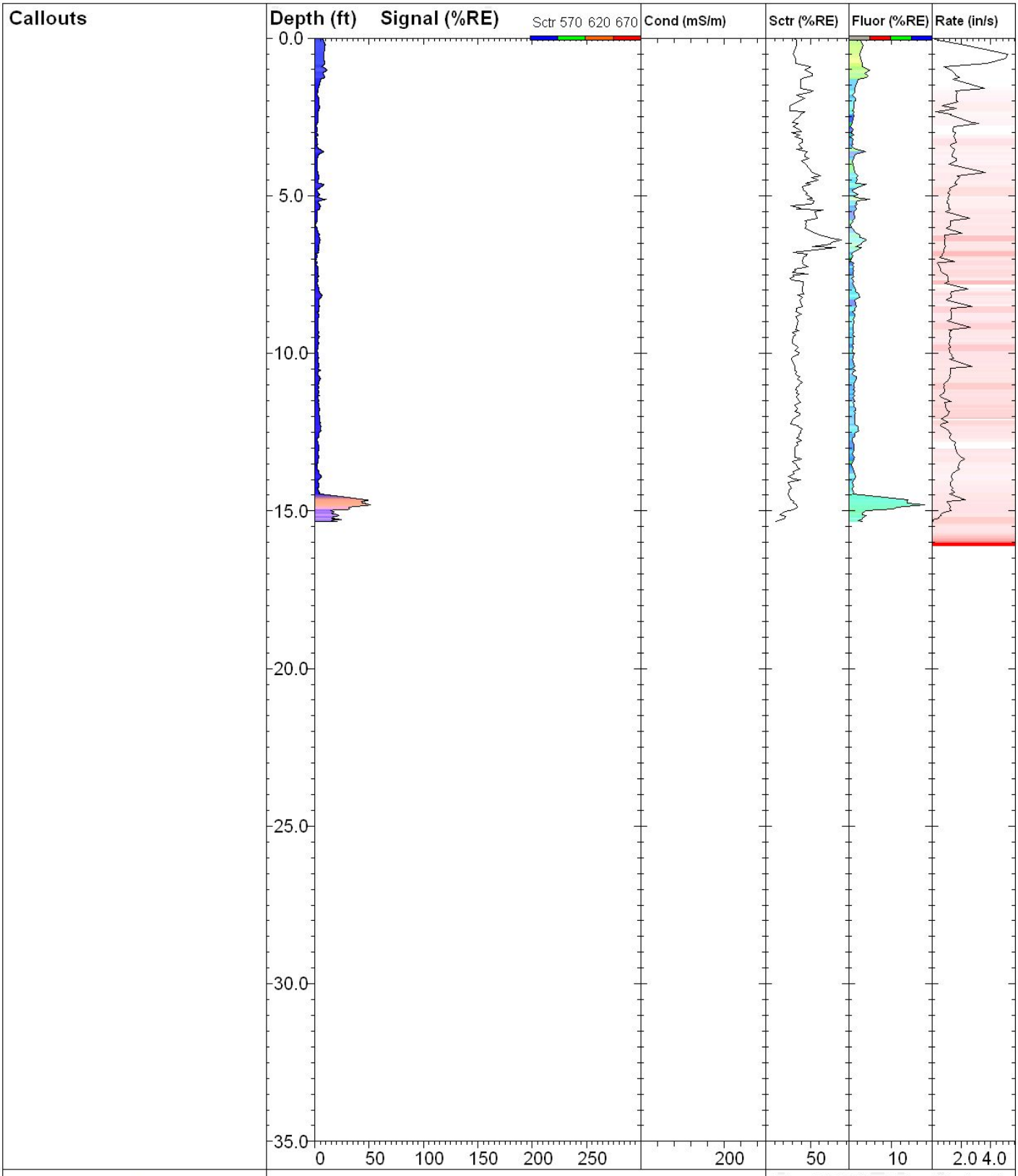
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **7.63 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **13.7 %RE @ 6.32 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-18 12:47 EST**



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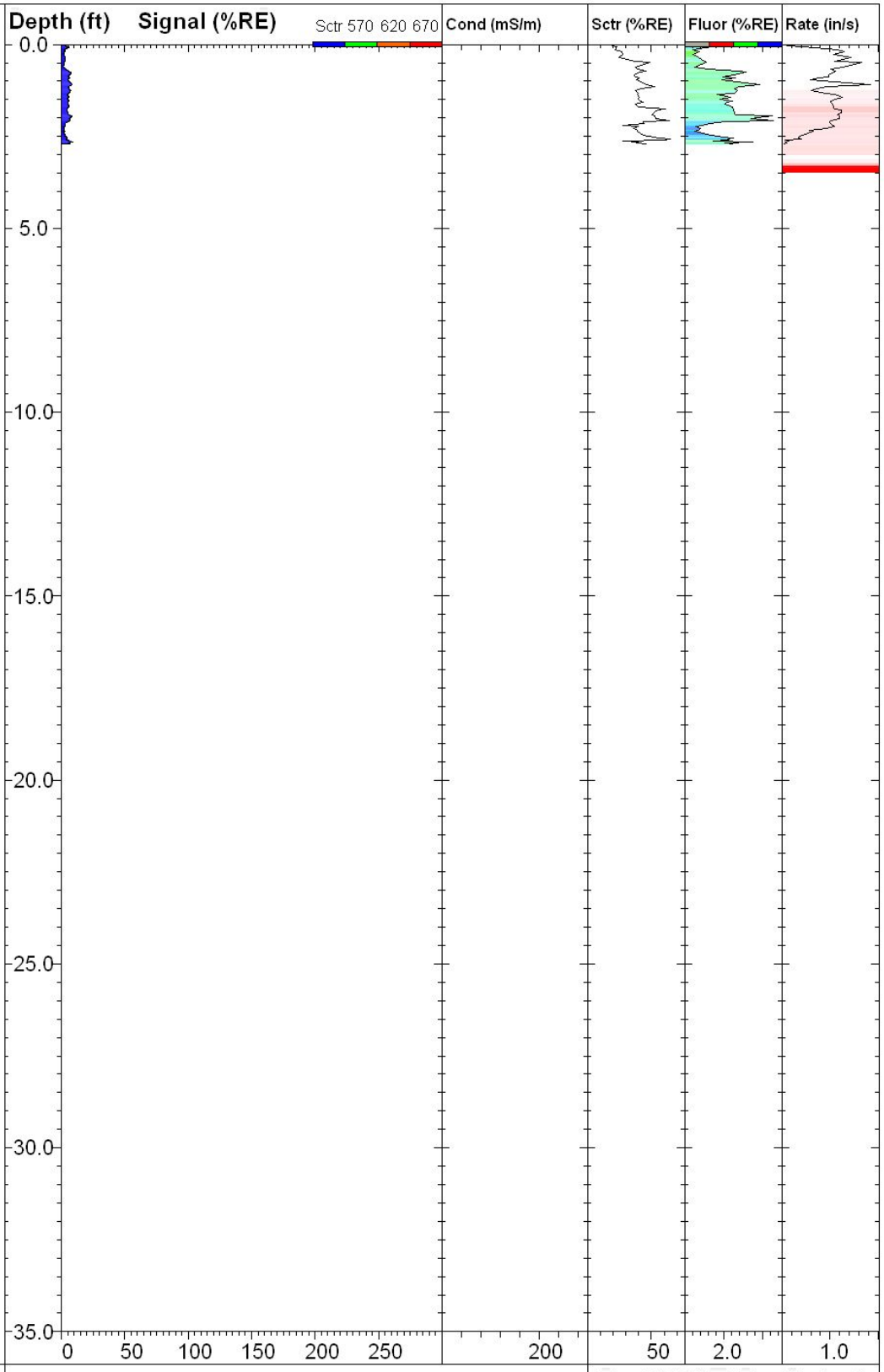
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **15.34 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **51.7 %RE @ 14.81 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-18 14:11 EST**

Callouts



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TG-10-40A

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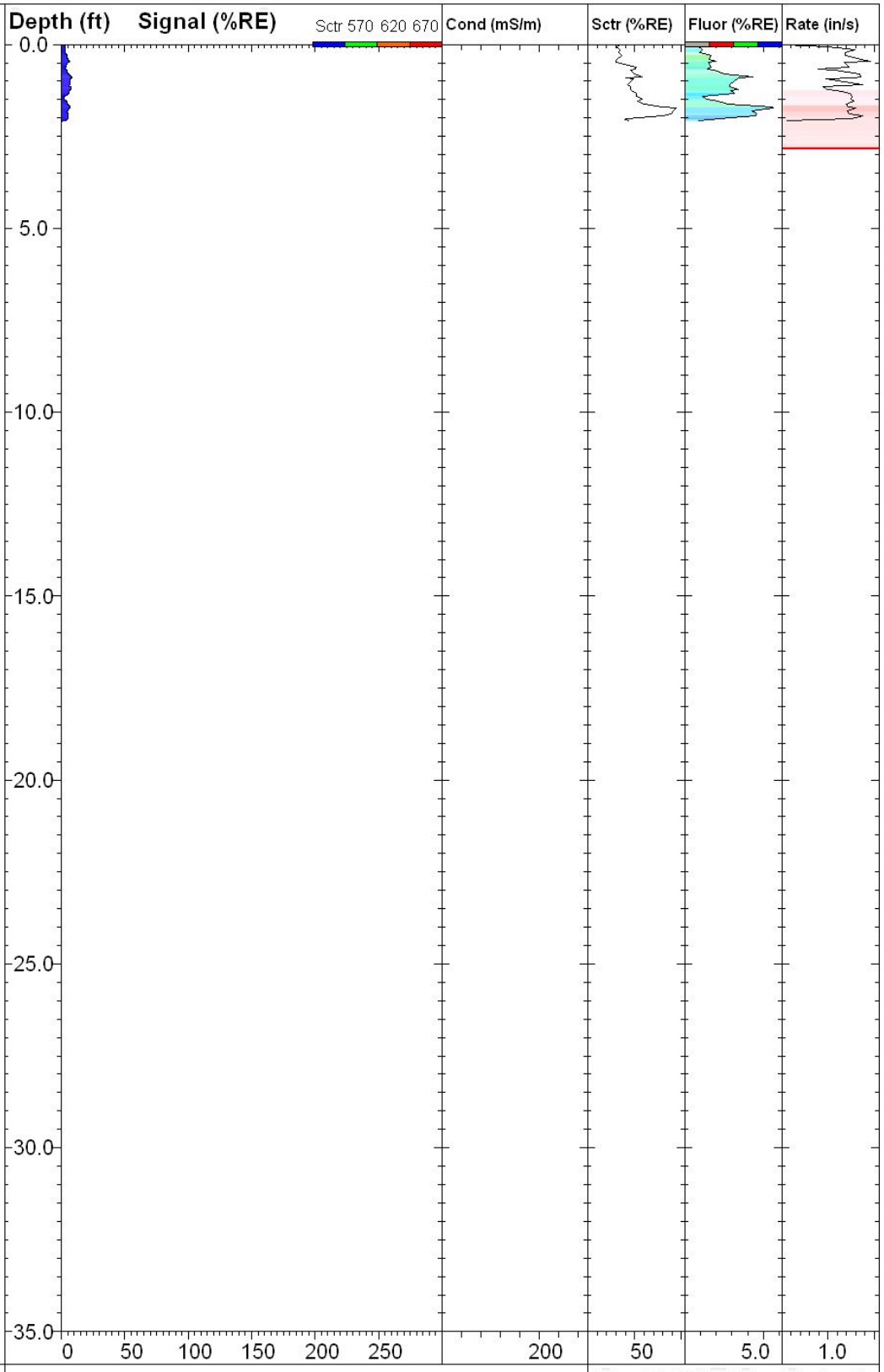
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **2.72 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **9.4 %RE @ 2.65 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-18 14:02 EST**

Callouts



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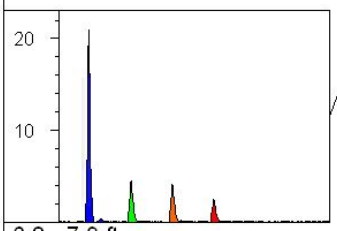
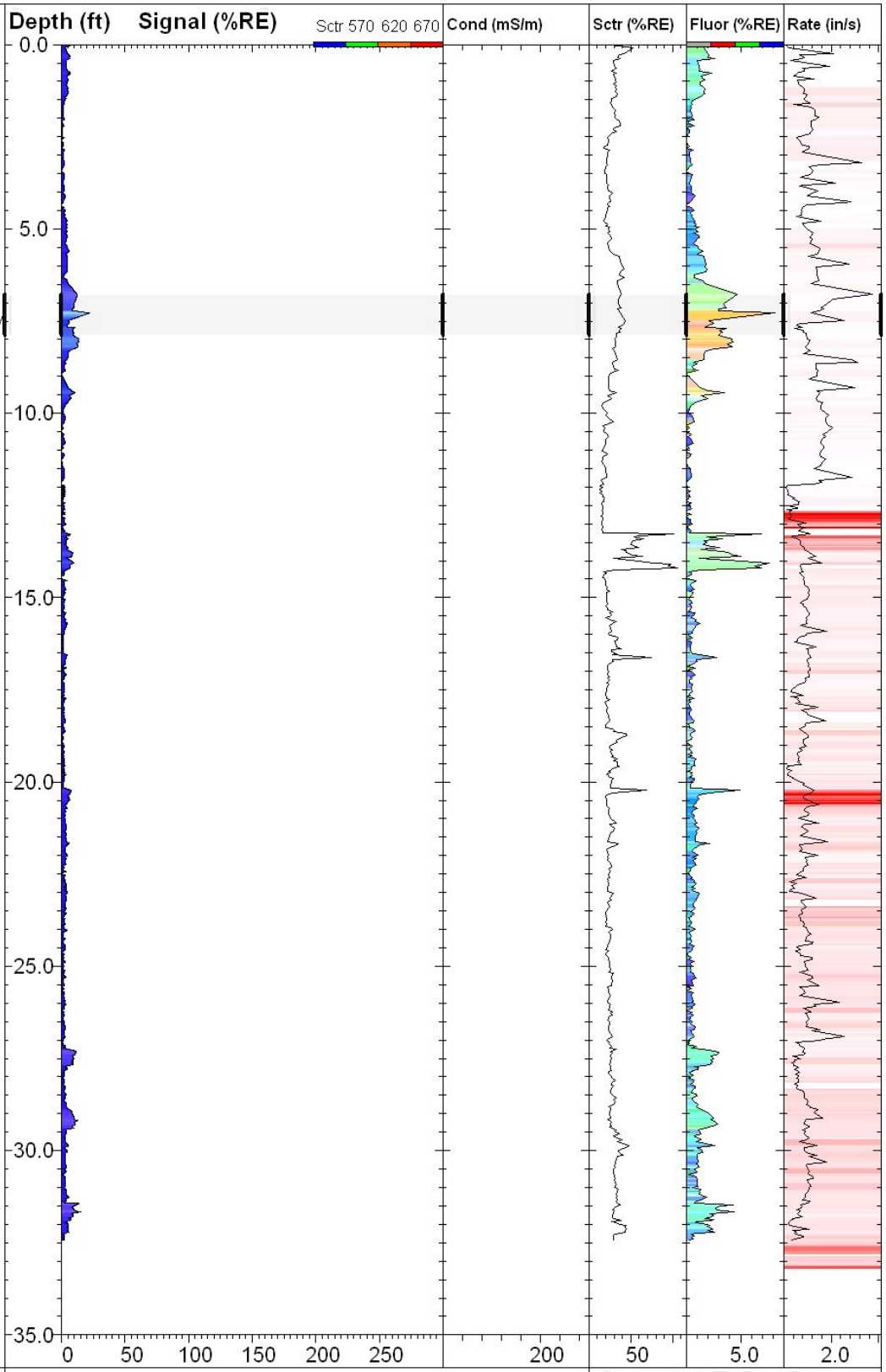
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **2.09 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **8.6 %RE @ 0.91 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-18 14:07 EST**

Callouts



6.8 - 7.9 ft
8.9 %RE (s 3.9)



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TarGOST By Dakota
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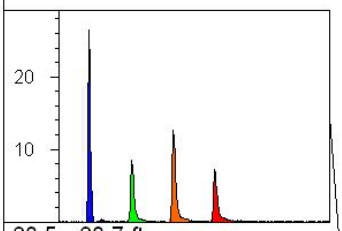
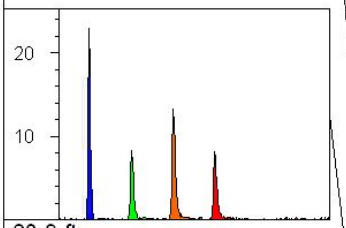
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **32.43 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **22.1 %RE @ 7.28 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-18 11:07 EST**

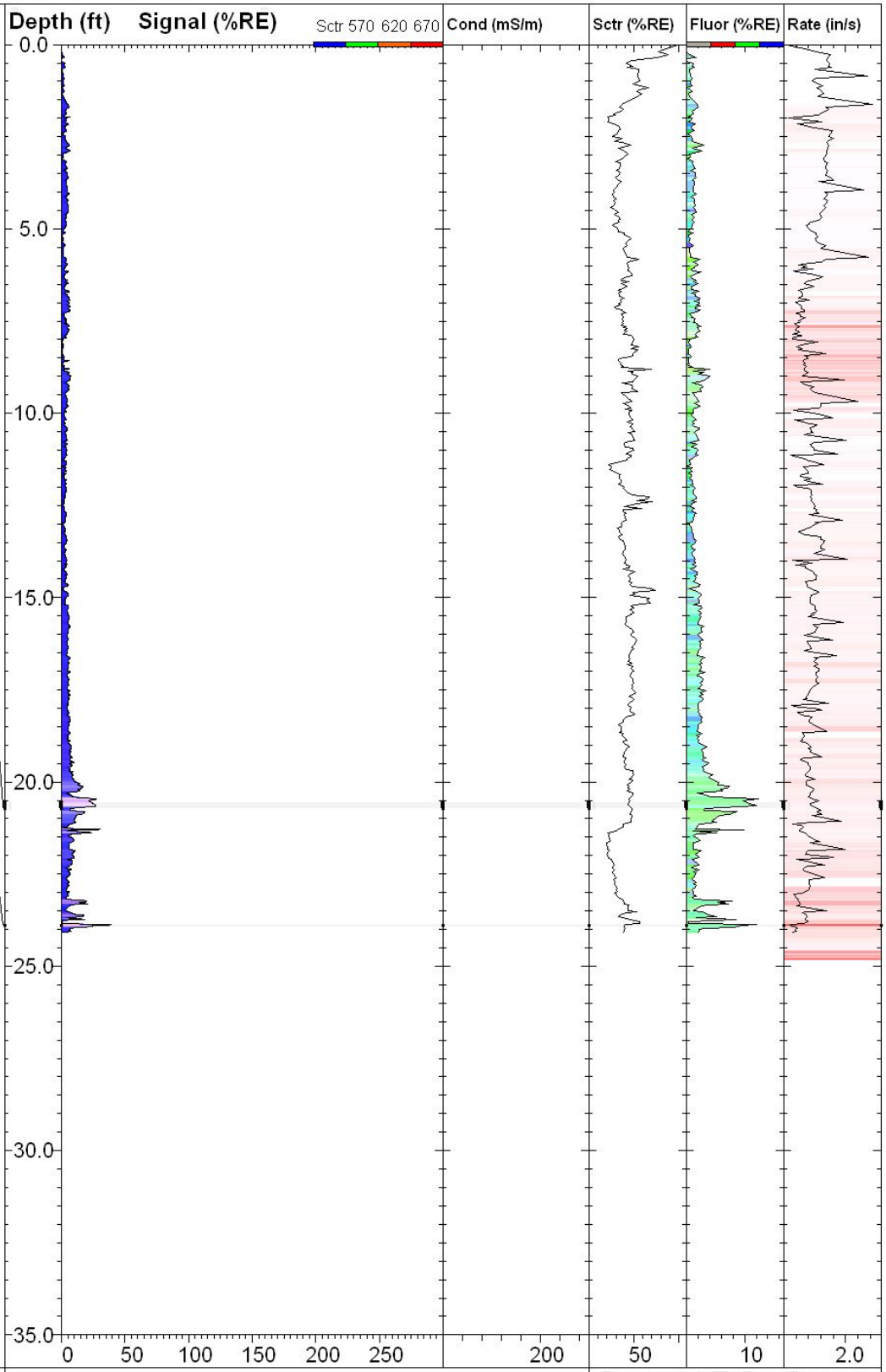
Callouts



20.5 - 20.7 ft
21.4 %RE (s 8.5)



23.9 ft
23.8 %RE



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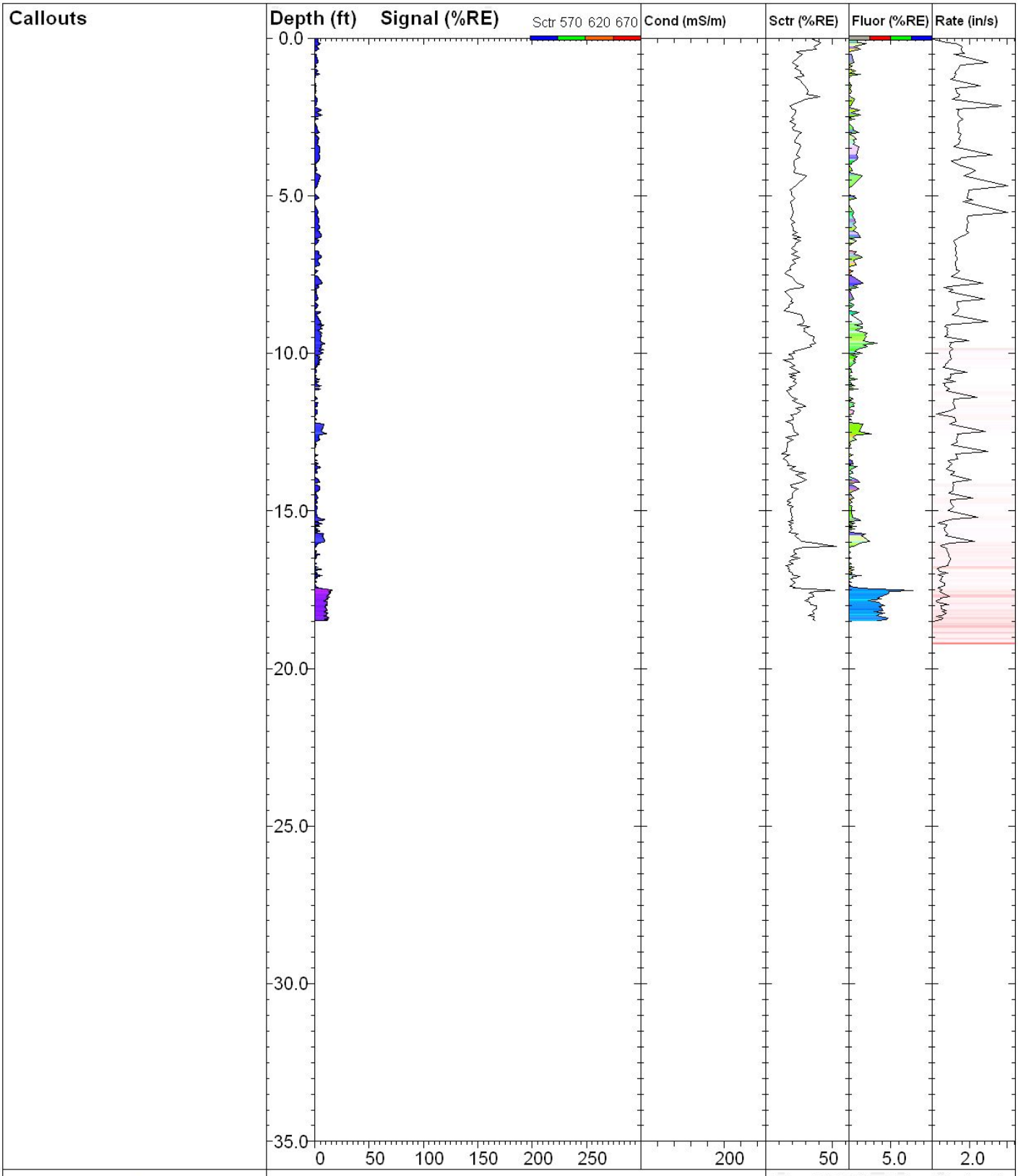
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **24.09 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **40.6 %RE @ 23.88 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-21 11:57 EST**



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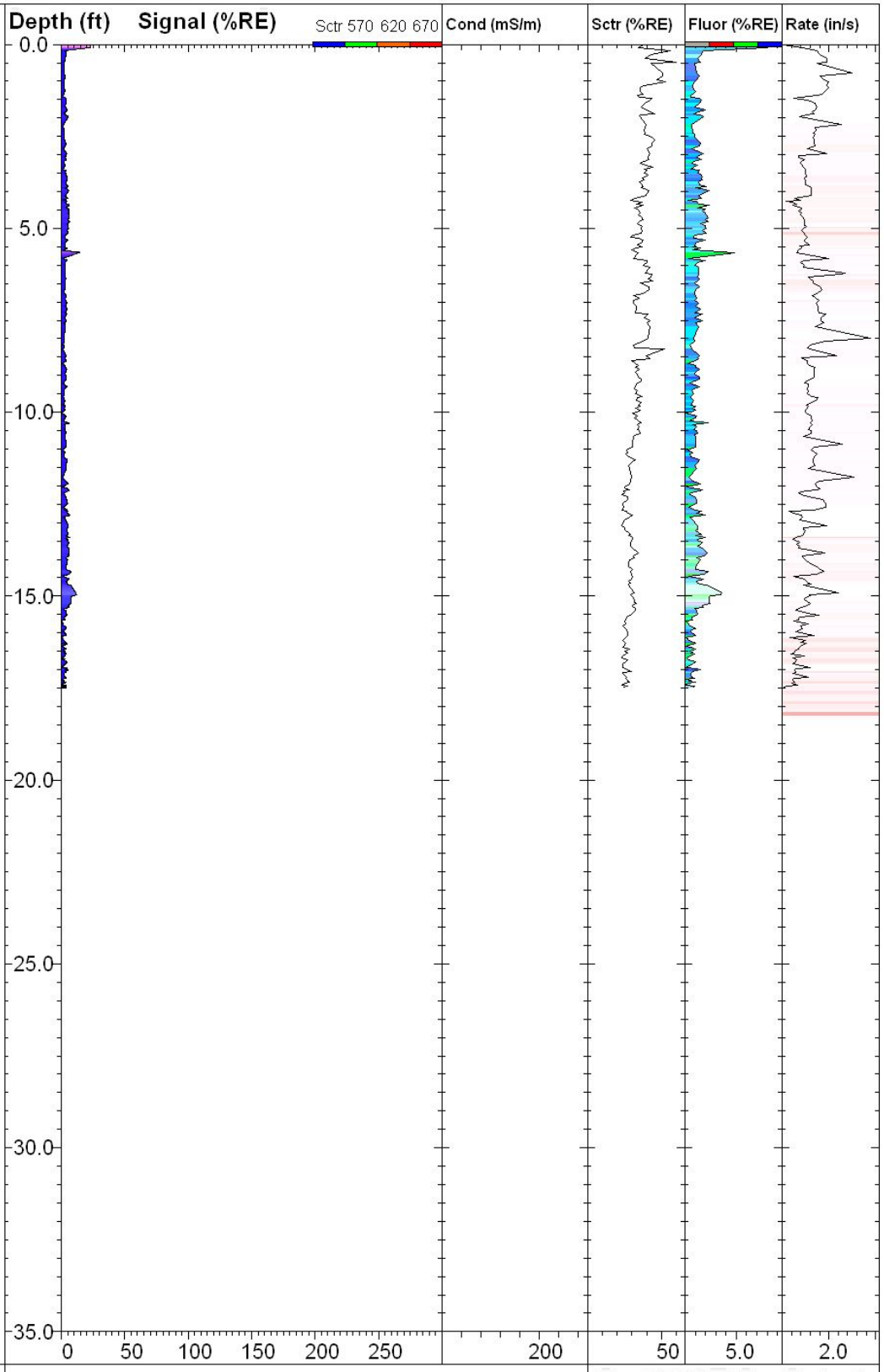
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **18.48 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **16.0 %RE @ 17.51 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-22 14:02 EST**

Callouts



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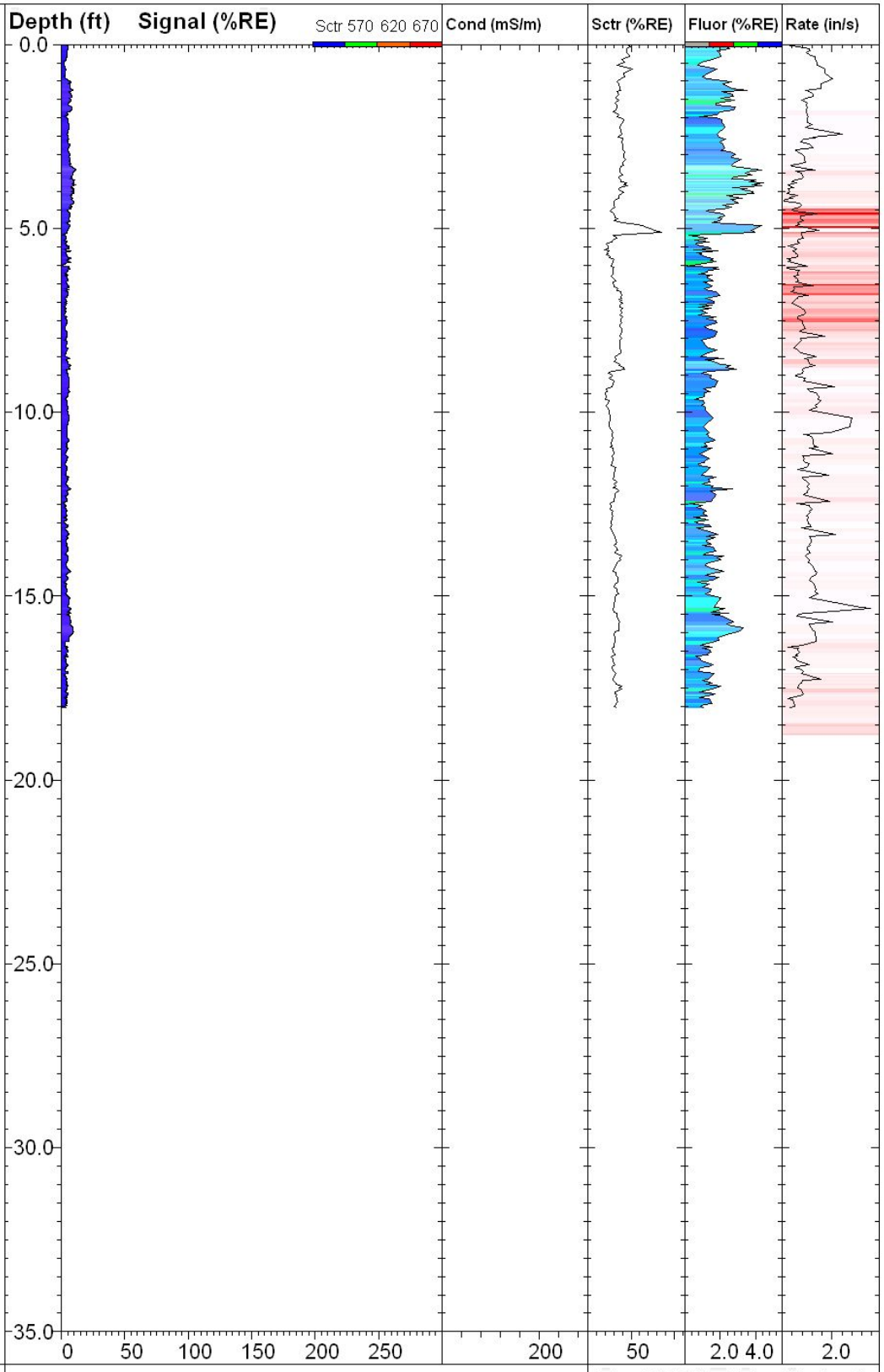
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **17.49 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **23.3 %RE @ 0.00 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-22 13:22 EST**

Callouts



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TarGOST By Dakota
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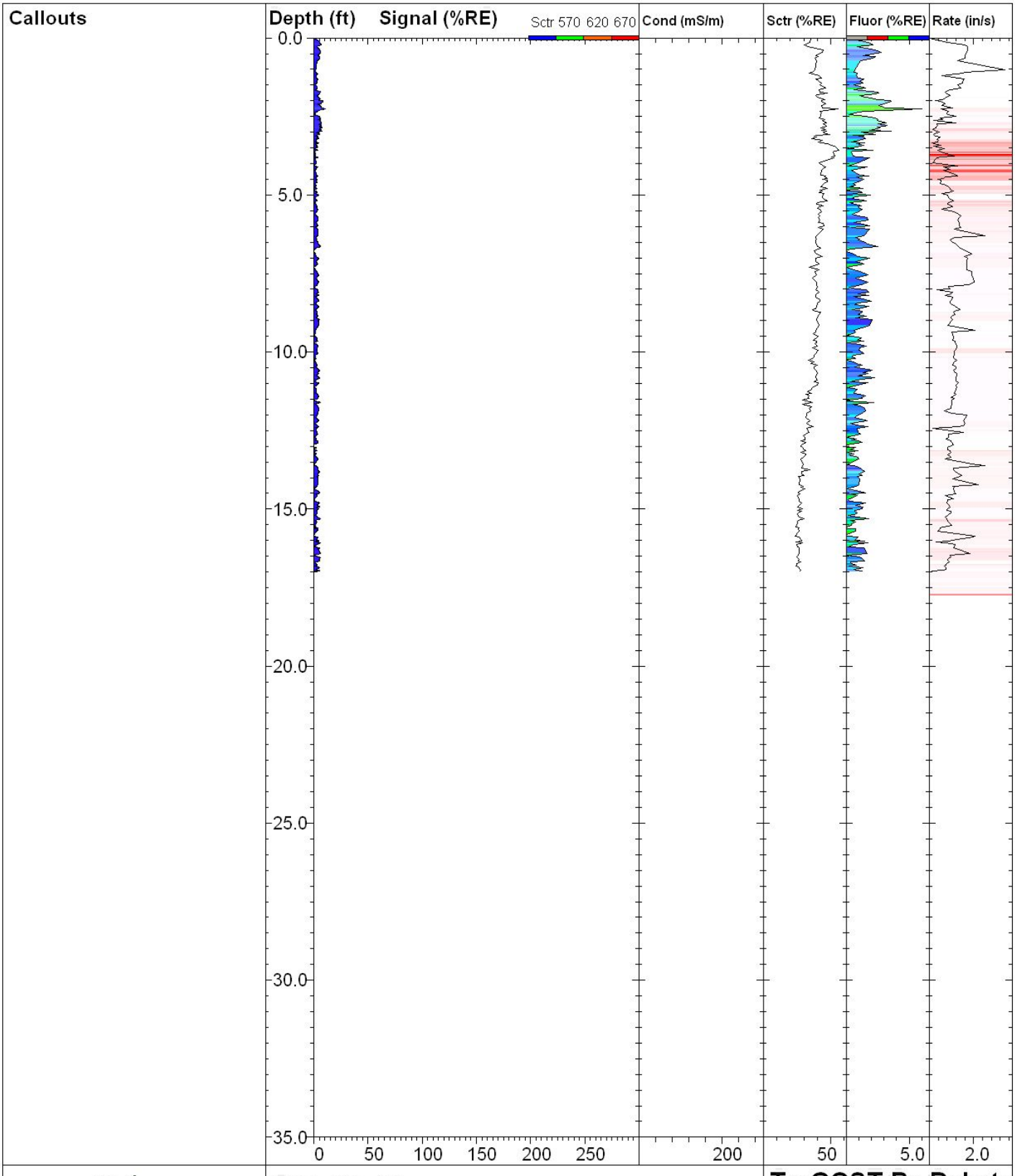
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **18.03 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **11.7 %RE @ 3.41 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-22 13:02 EST**



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TG-10-46

TarGOST By Dakota
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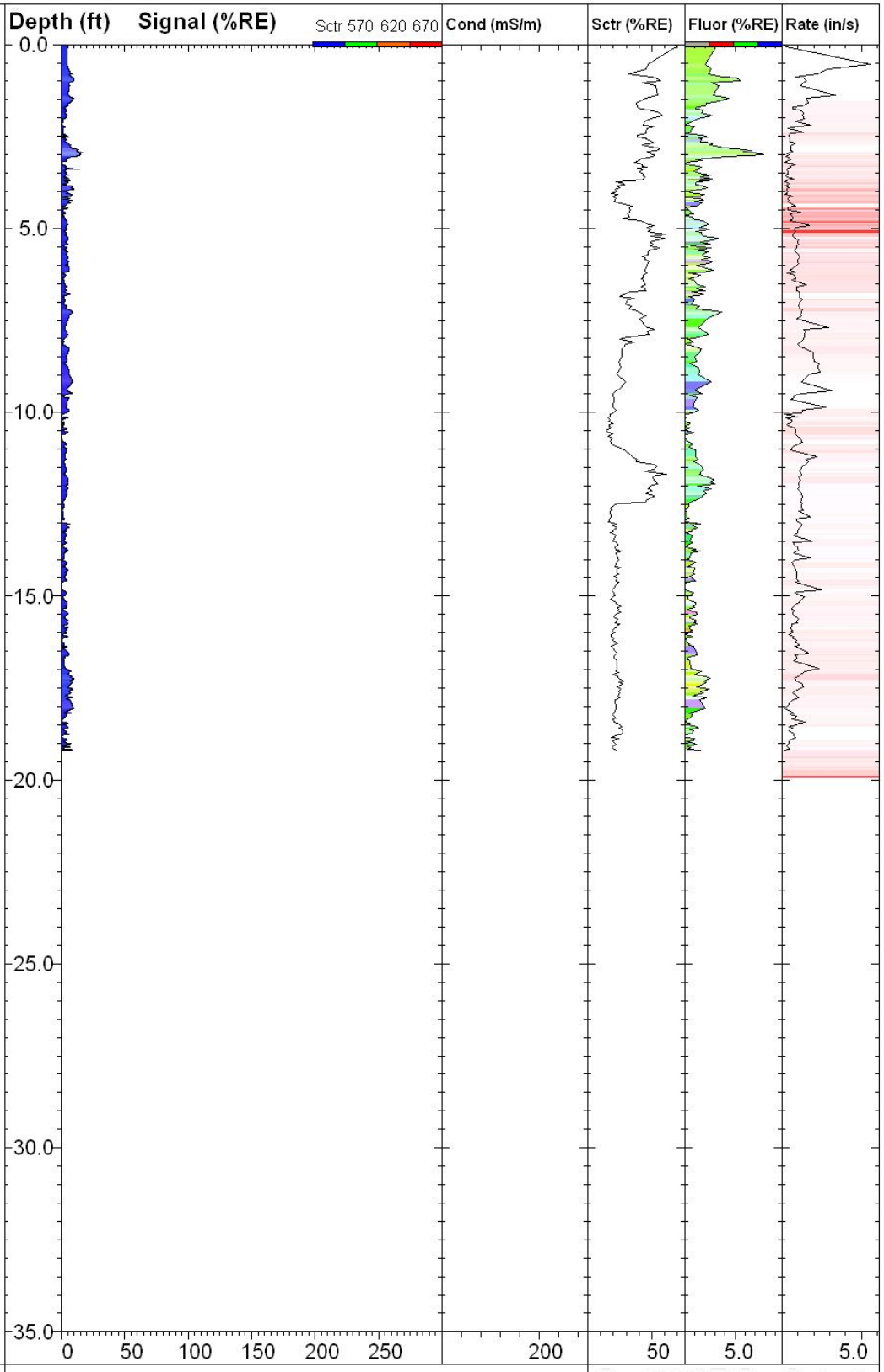
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **16.99 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **10.8 %RE @ 2.26 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-22 12:31 EST**

Callouts



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TG-10-47

TarGOST By Dakota
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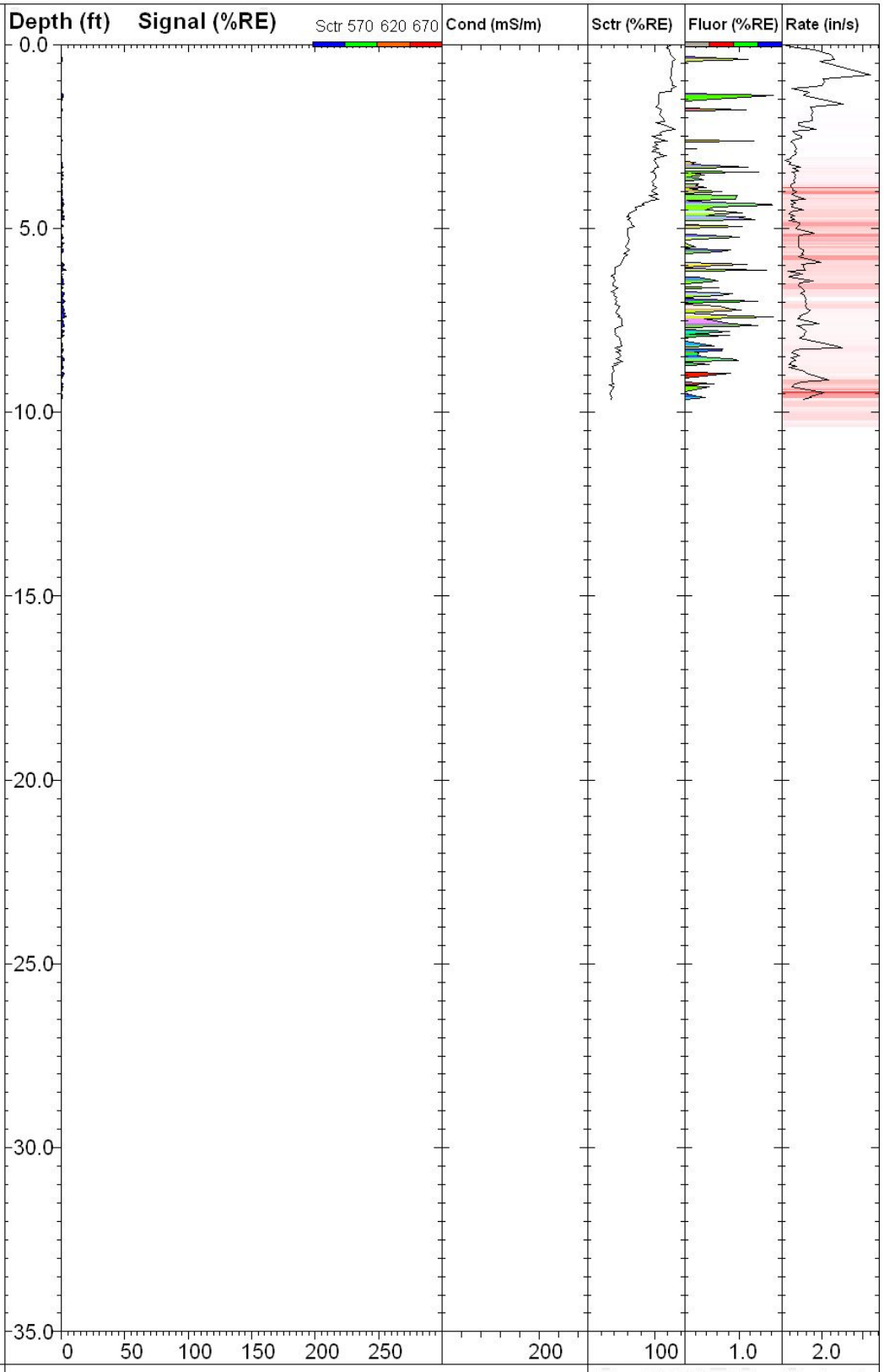
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **19.20 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **17.0 %RE @ 2.94 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-22 11:28 EST**

Callouts



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TG-10-48

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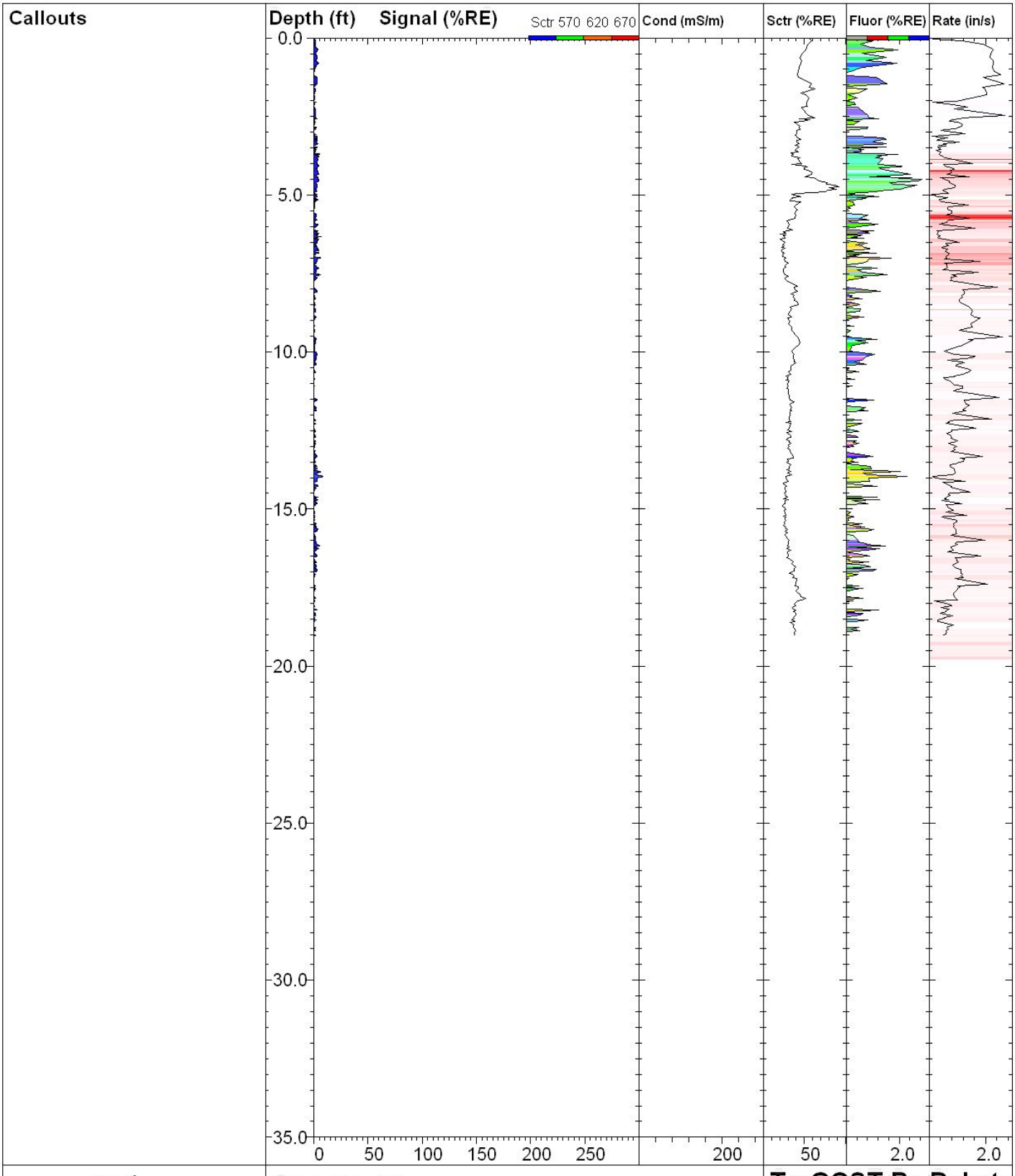
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **9.66 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **3.7 %RE @ 6.14 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-22 11:06 EST**



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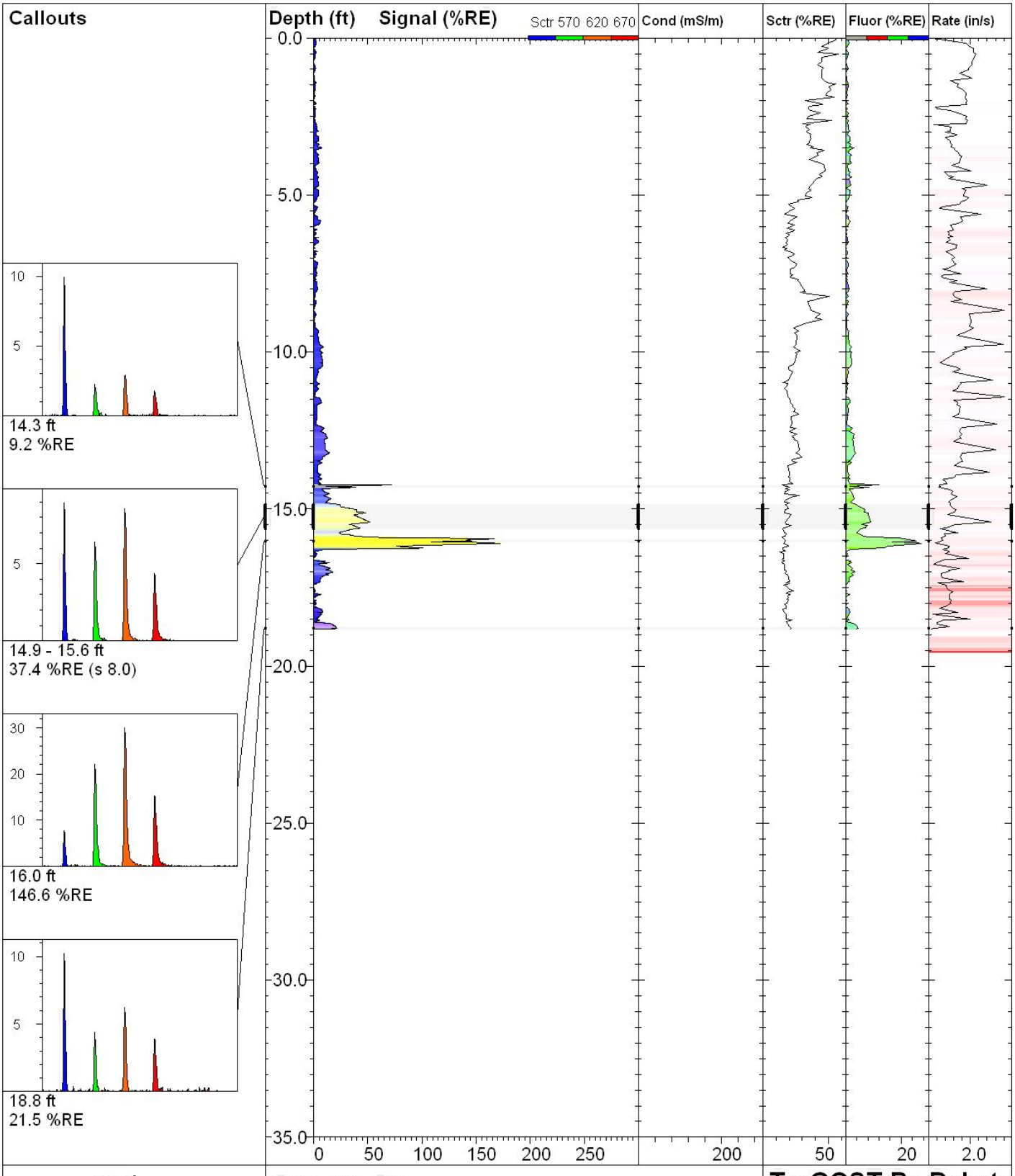
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **19.03 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **8.5 %RE @ 13.97 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-22 10:50 EST**



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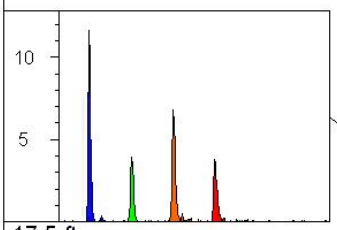
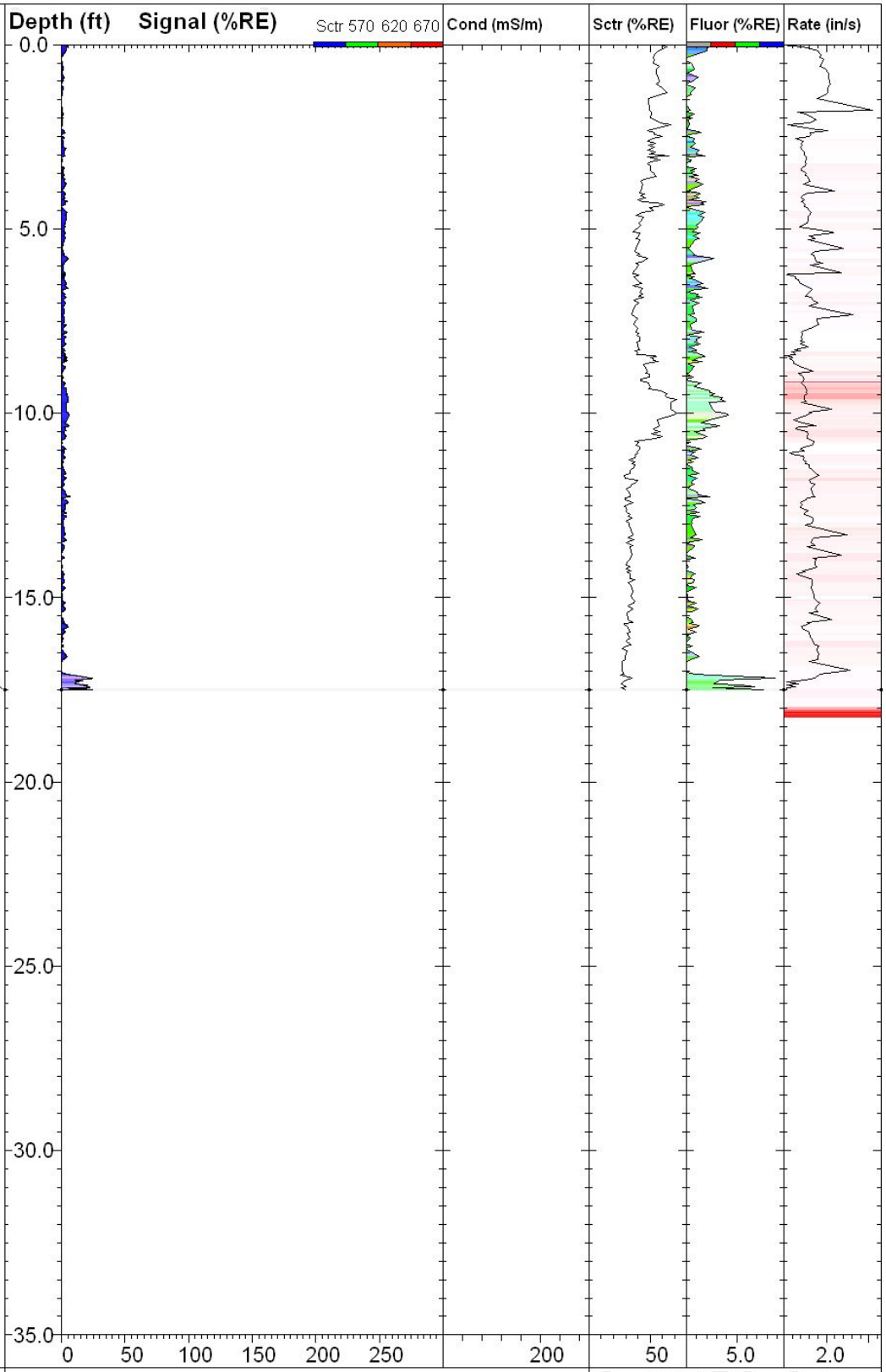
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **18.83 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **174.2 %RE @ 16.09 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-22 10:30 EST**

Callouts



17.5 ft
19.4 %RE



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TG-10-51

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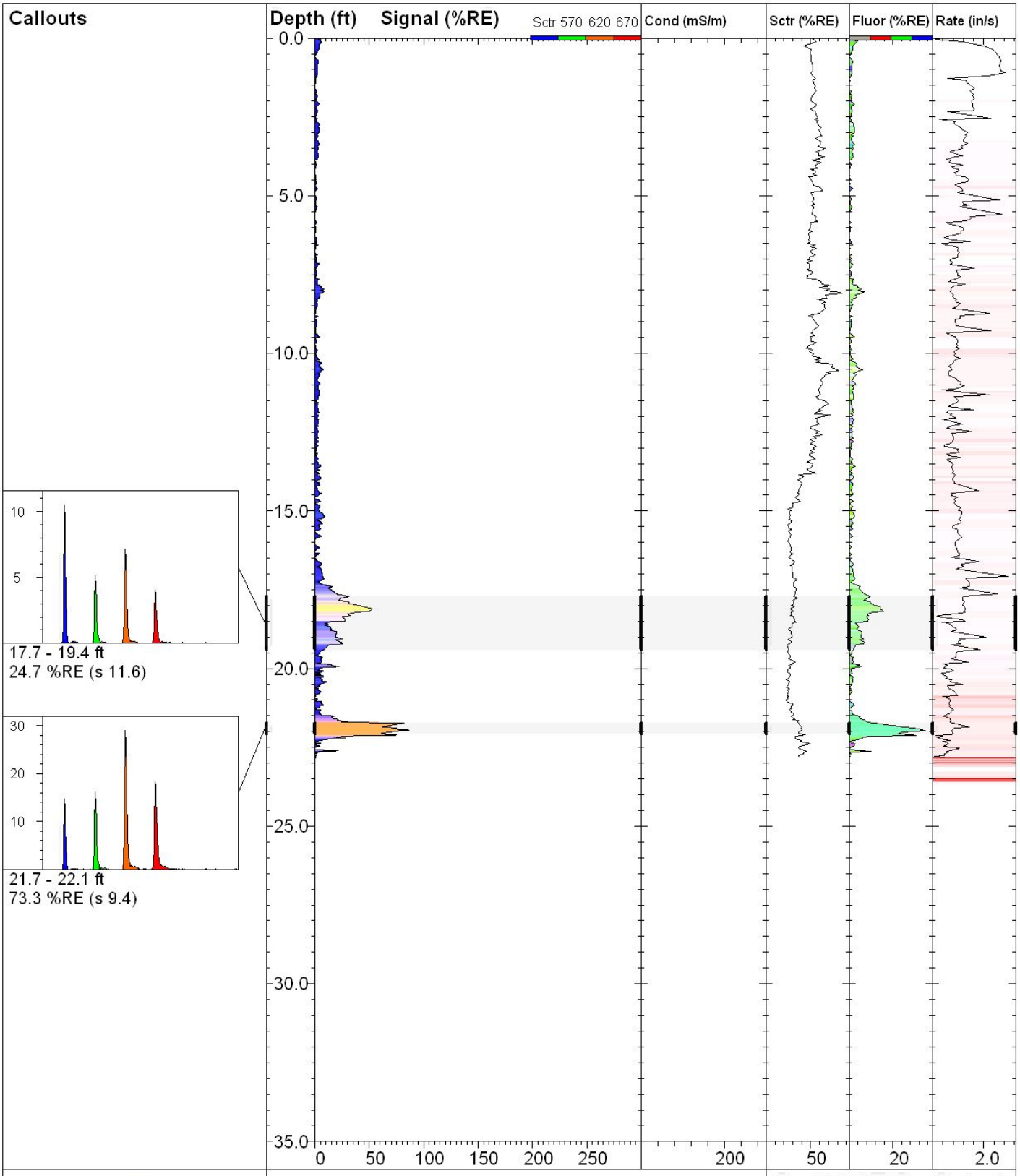
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **17.50 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **25.7 %RE @ 17.49 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-22 10:06 EST**



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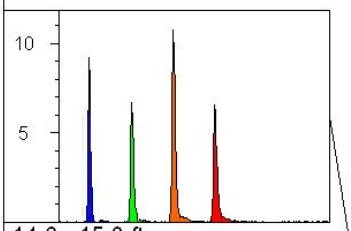
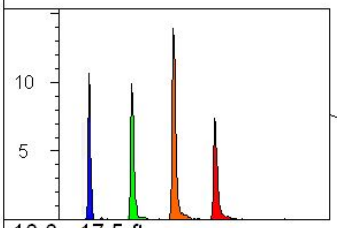
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **22.83 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **87.1 %RE @ 21.95 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-22 09:41 EST**

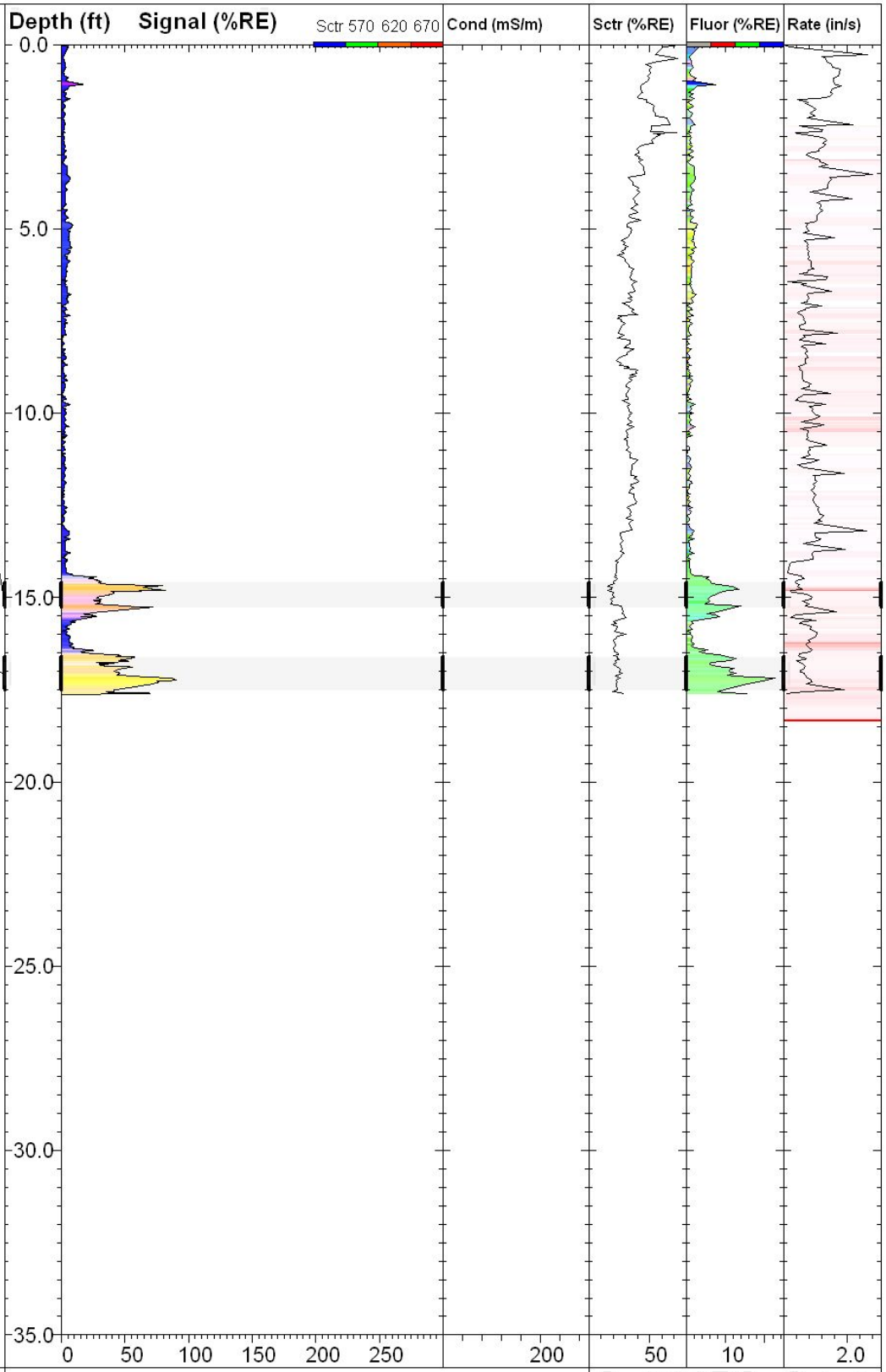
Callouts



14.6 - 15.3 ft
44.4 %RE (s 17.9)



16.6 - 17.5 ft
52.9 %RE (s 16.4)



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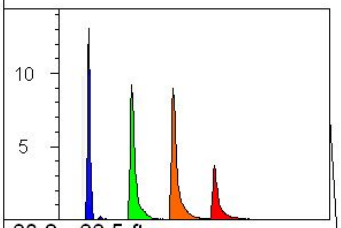
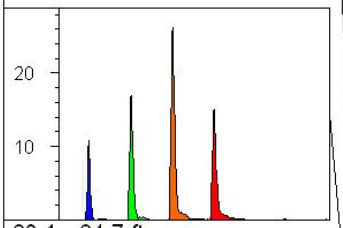
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **17.62 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **90.1 %RE @ 17.24 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-22 09:20 EST**

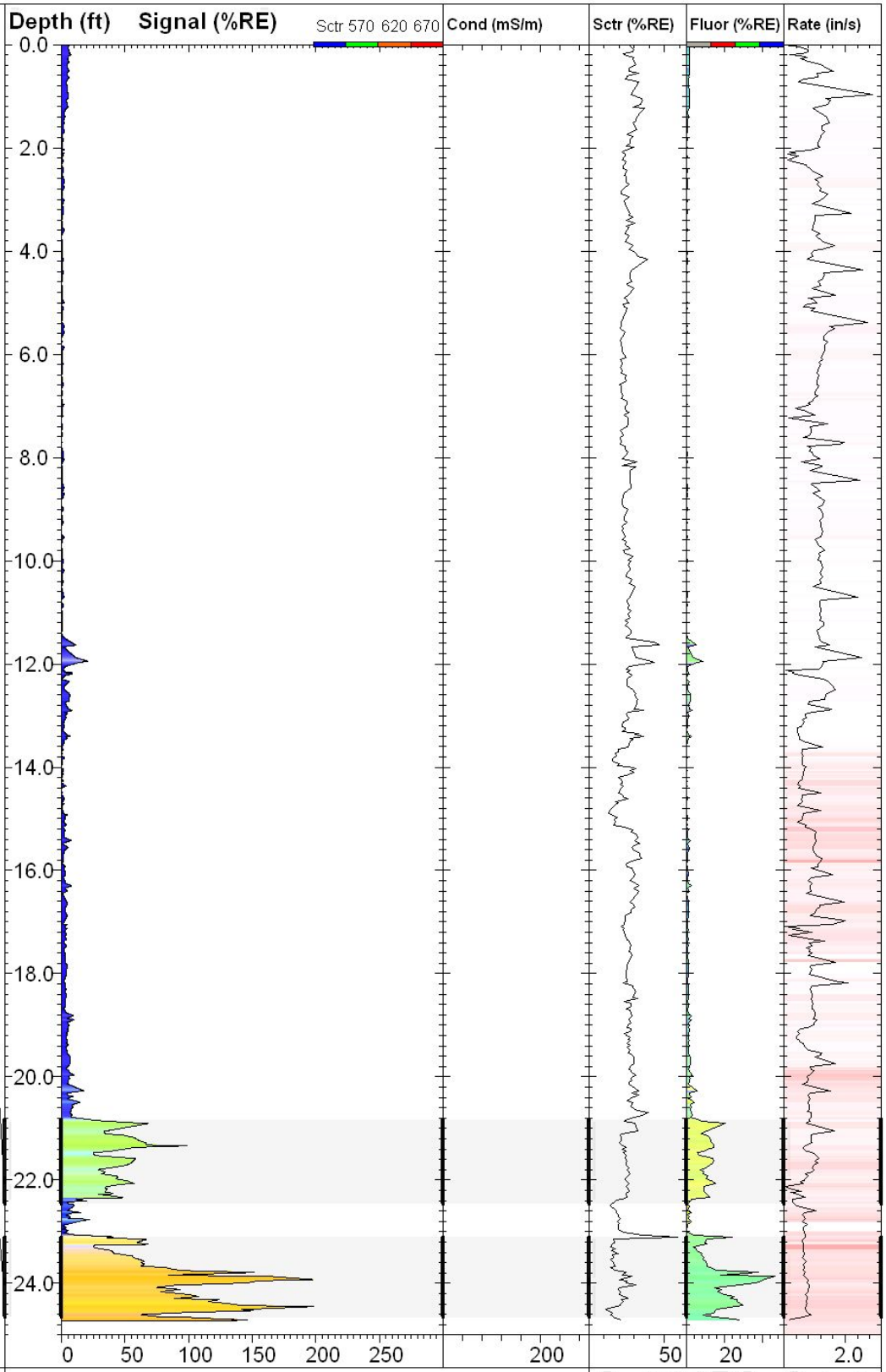
Callouts



20.8 - 22.5 ft
40.7 %RE (s 18.1)



23.1 - 24.7 ft
89.1 %RE (s 43.7)



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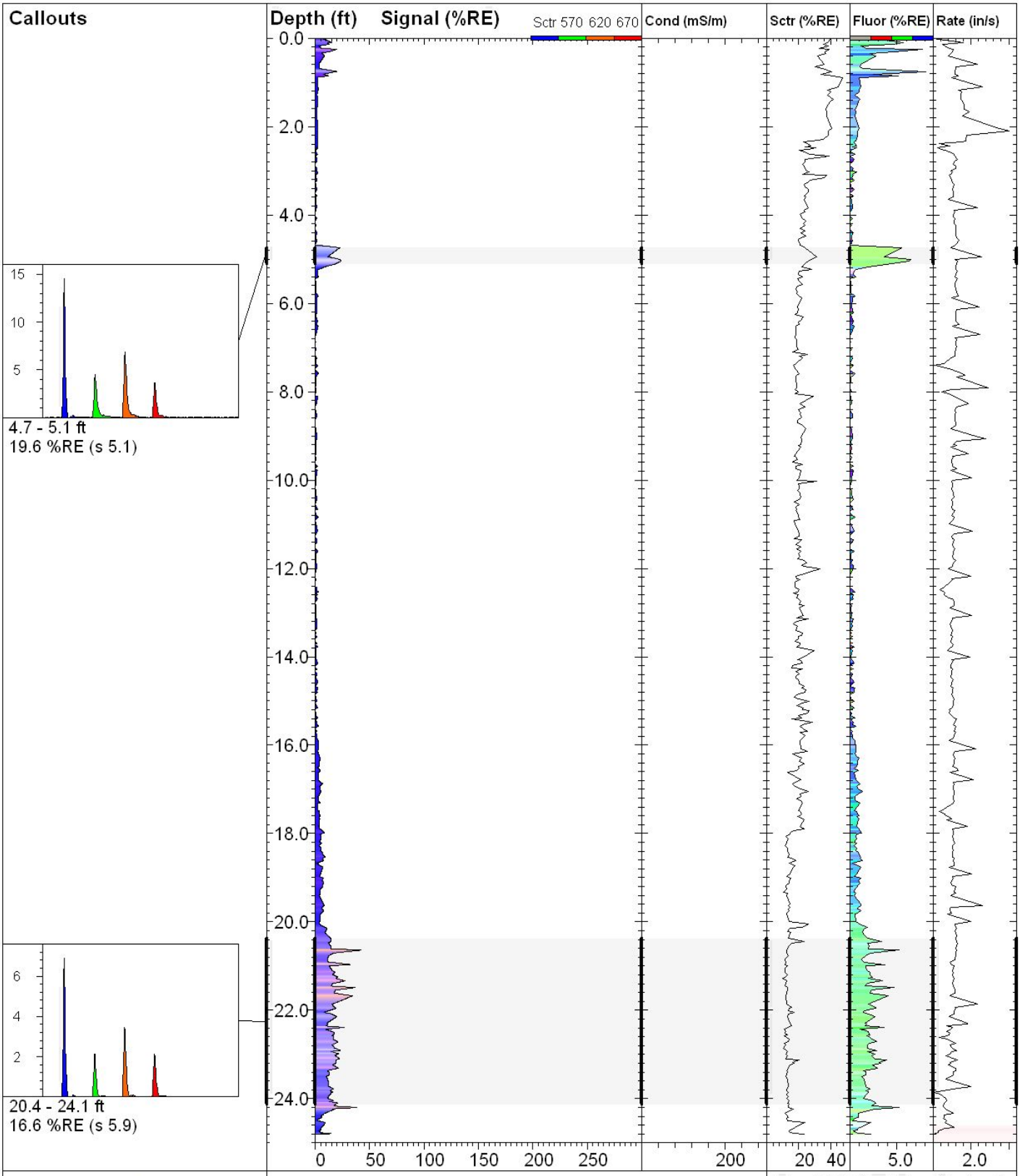
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **24.72 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **200.2 %RE @ 24.45 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-18 10:11 EST**



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TG-10-55

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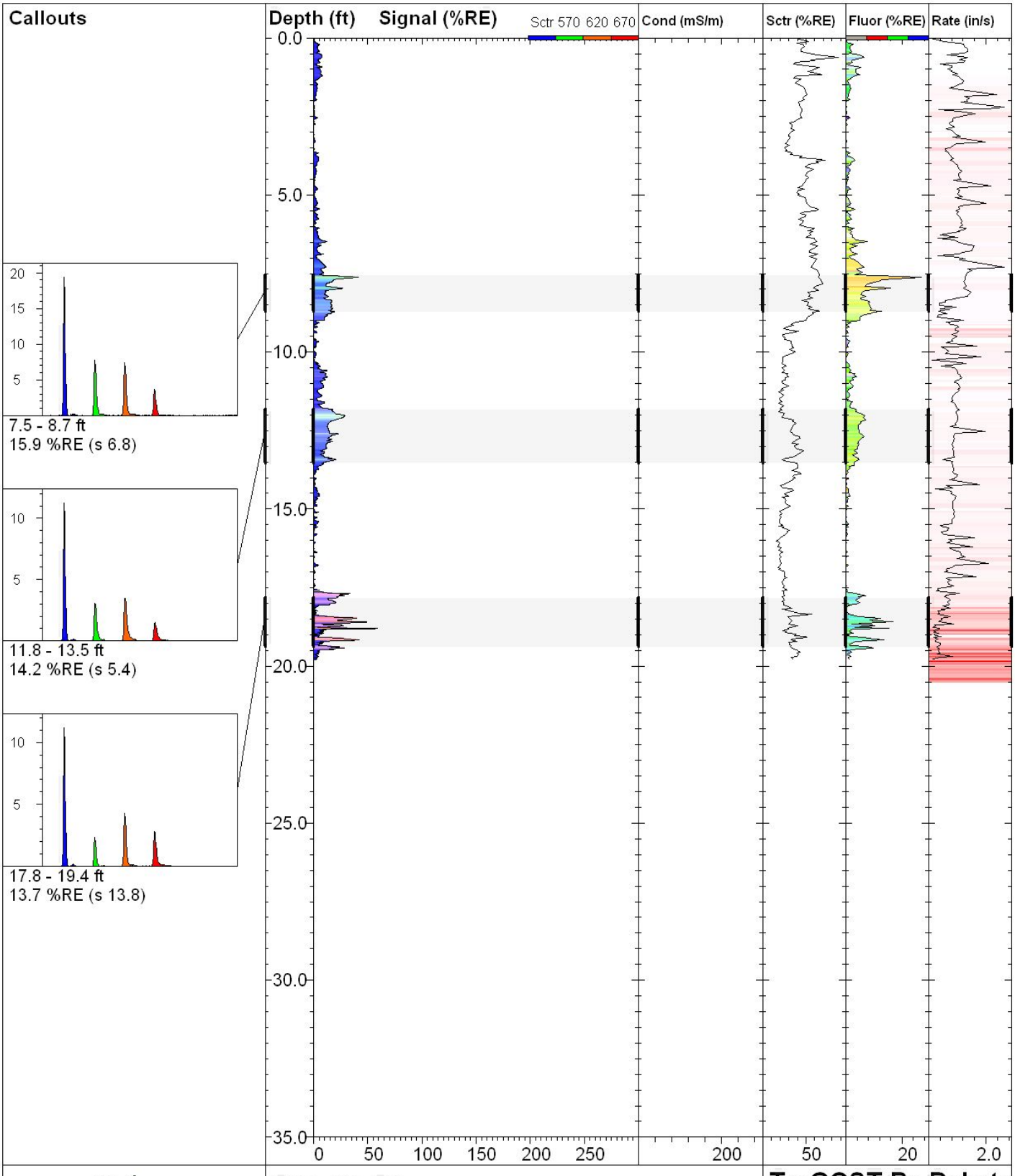
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **24.81 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **42.3 %RE @ 20.64 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-18 09:38 EST**



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TG-10-56

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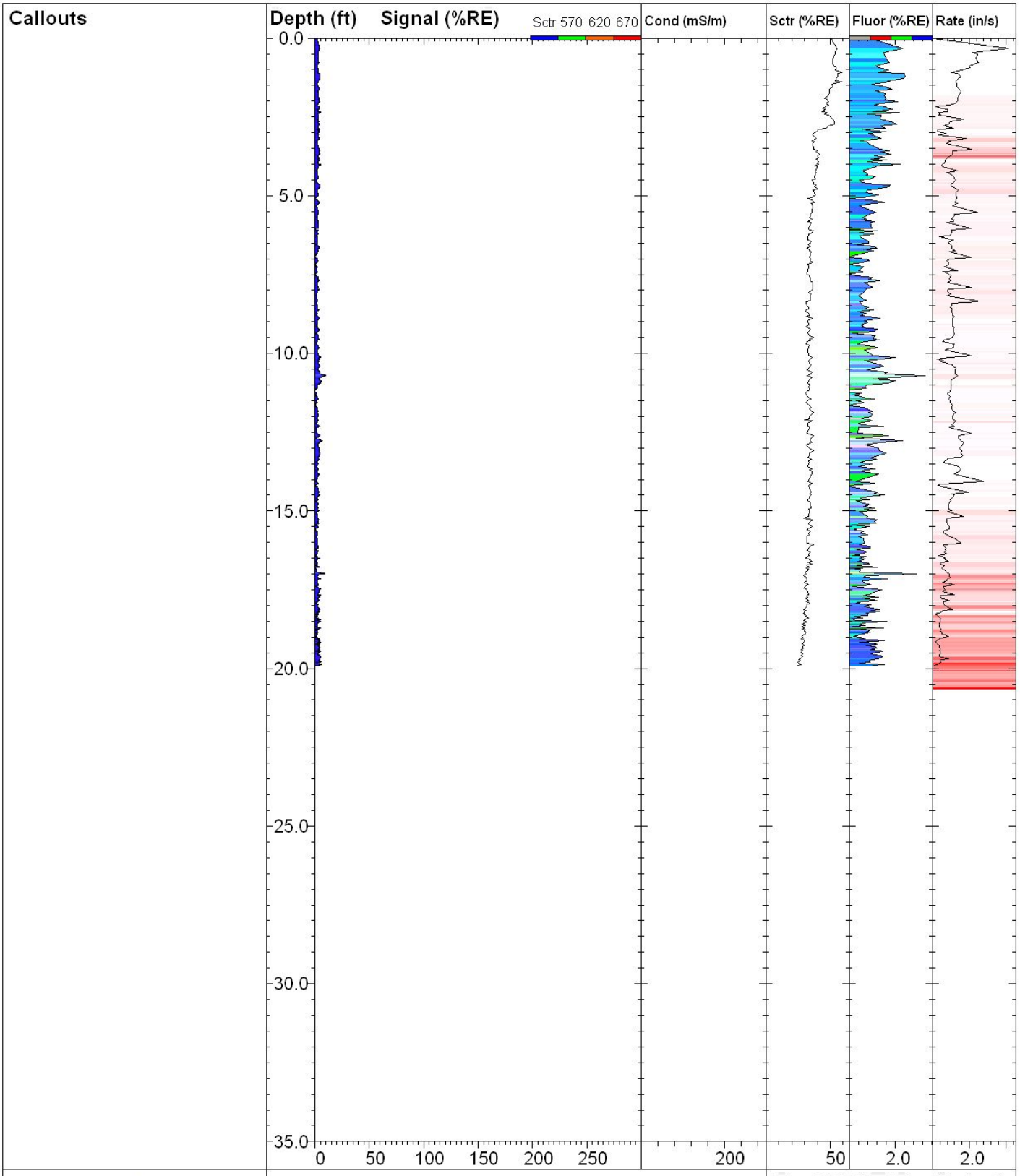
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **19.79 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **59.2 %RE @ 18.80 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-21 15:49 EST**



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TG-10-58

TarGOST By Dakota
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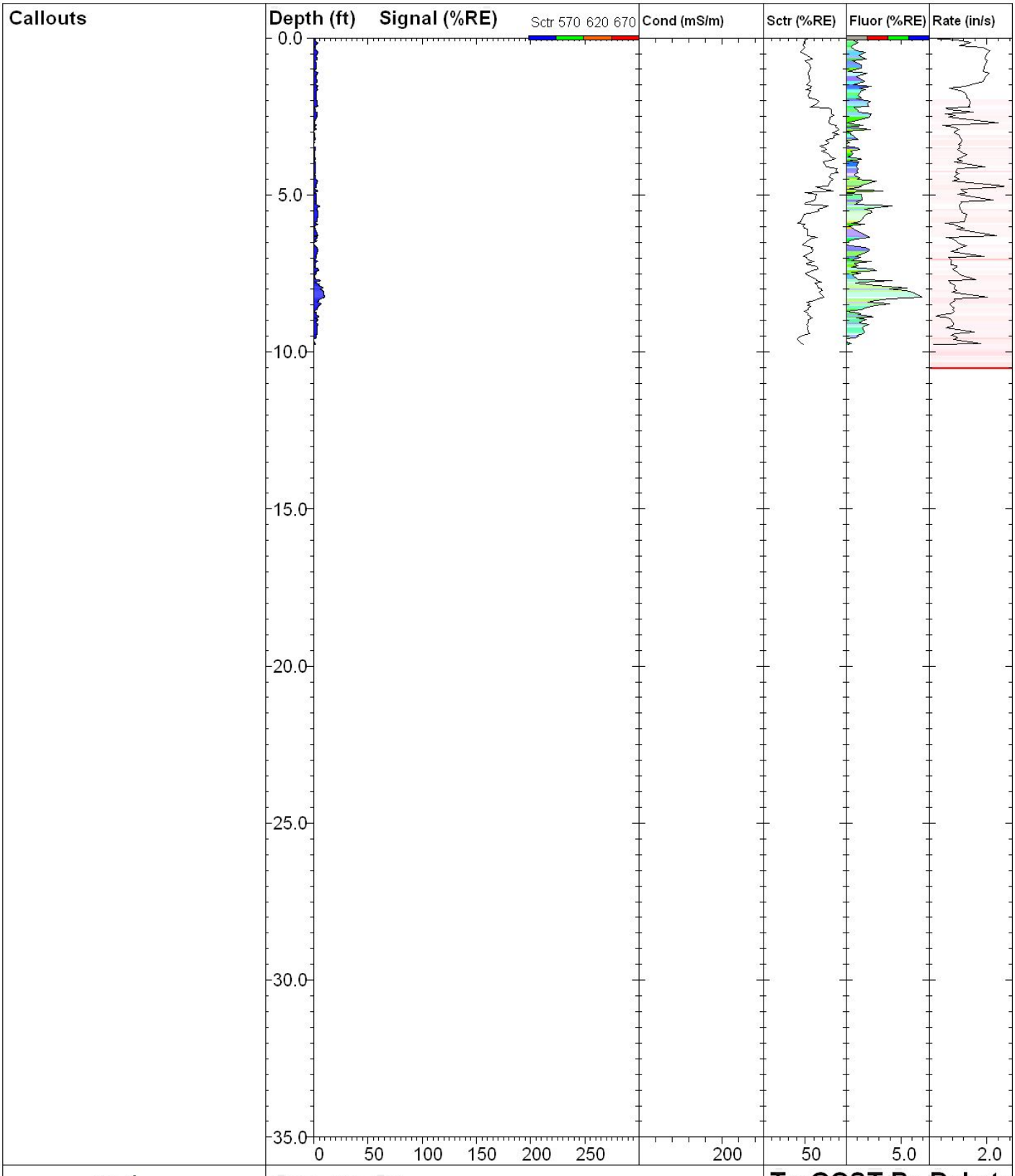
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **19.91 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **10.3 %RE @ 10.70 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-19 11:05 EST**



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TG-10-59

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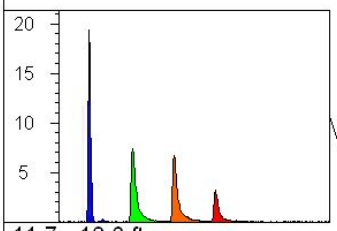
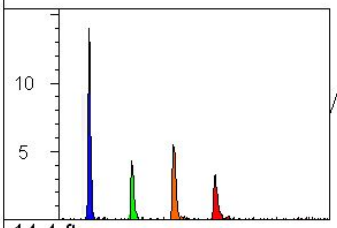
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **9.76 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **9.6 %RE @ 8.26 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-21 10:04 EST**

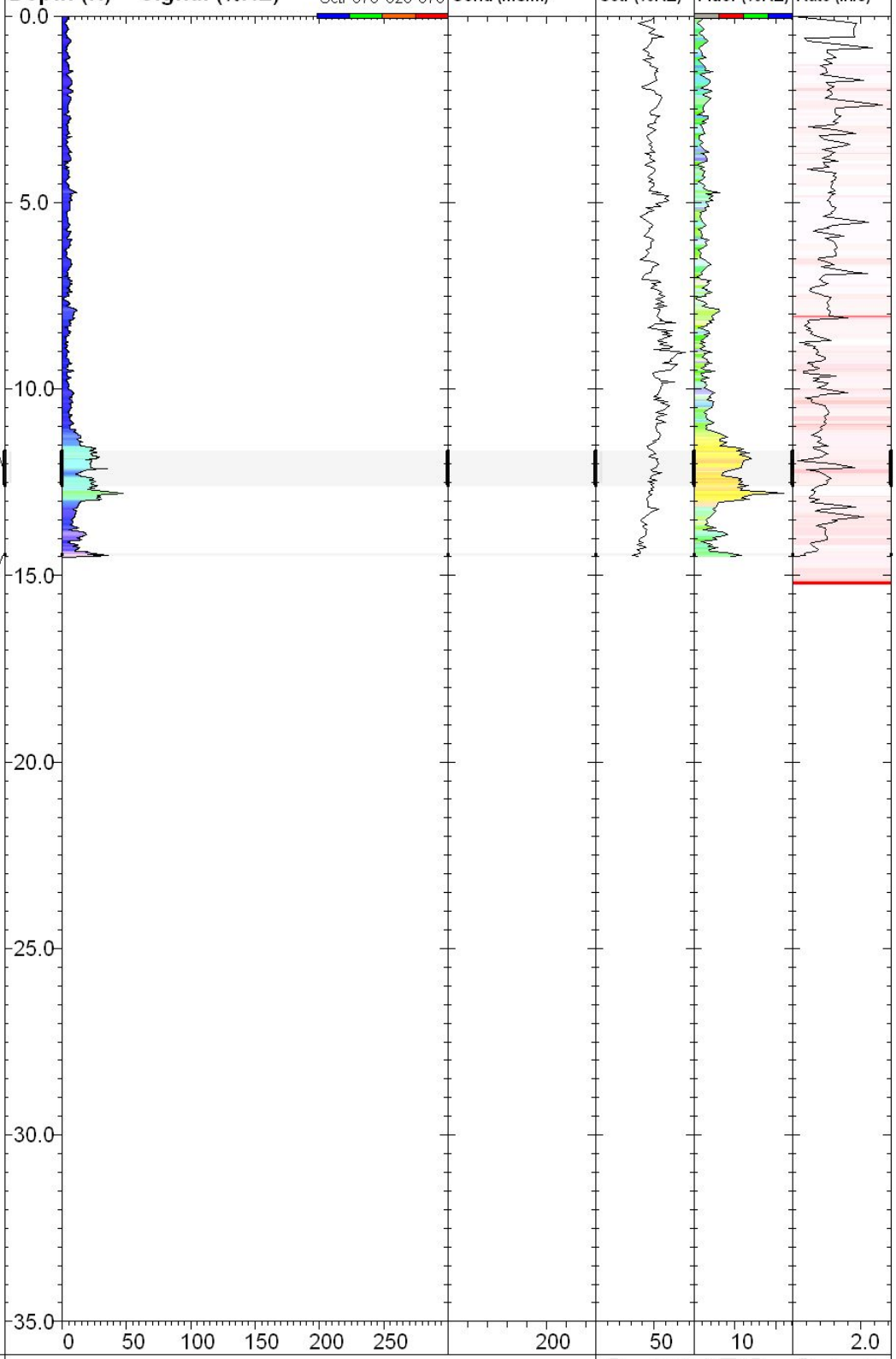
Callouts



11.7 - 12.6 ft
22.5 %RE (s 5.4)



14.4 ft
15.3 %RE



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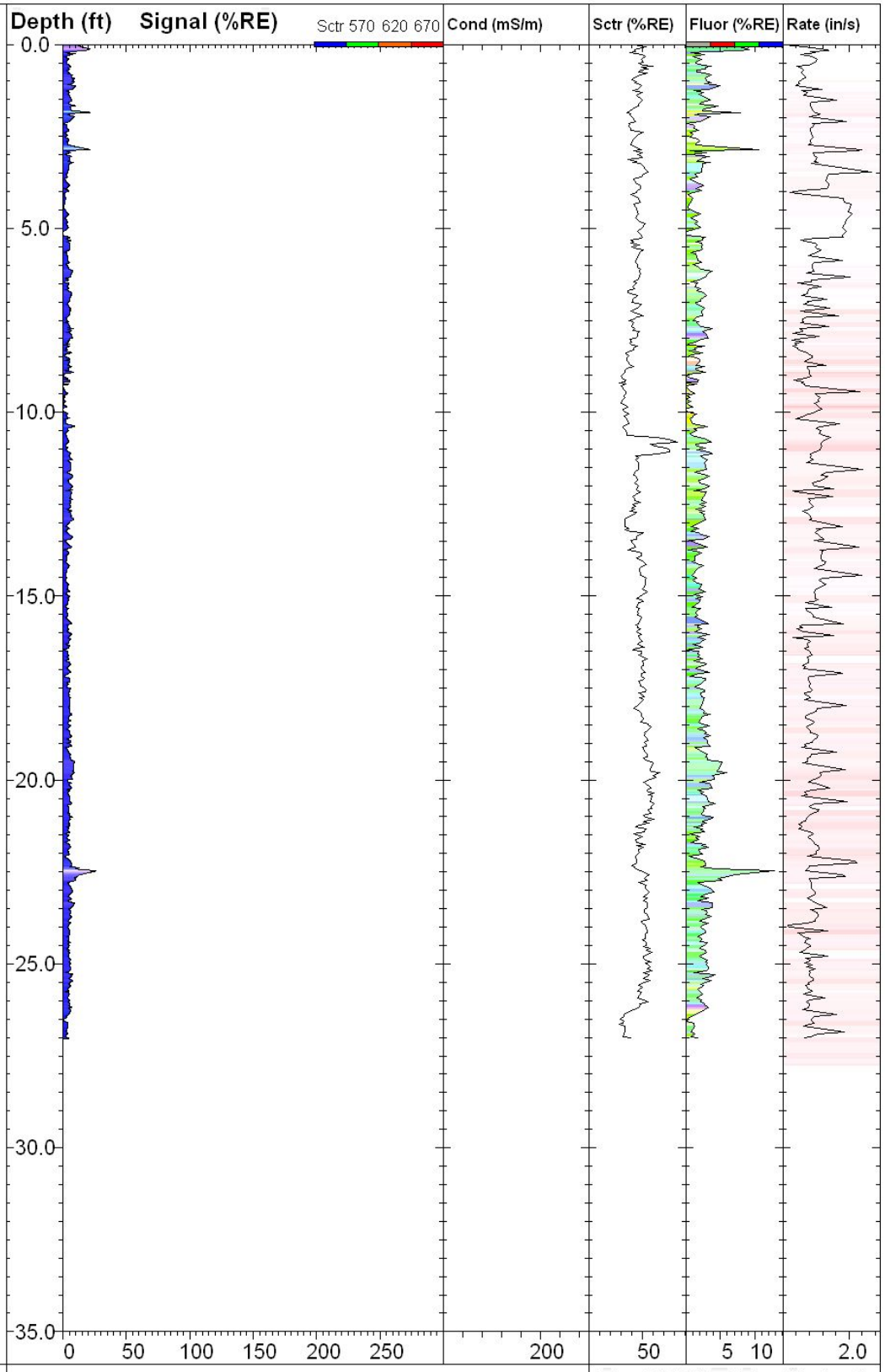
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **14.50 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **47.7 %RE @ 12.80 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-24 08:28 EST**



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TG-10-61

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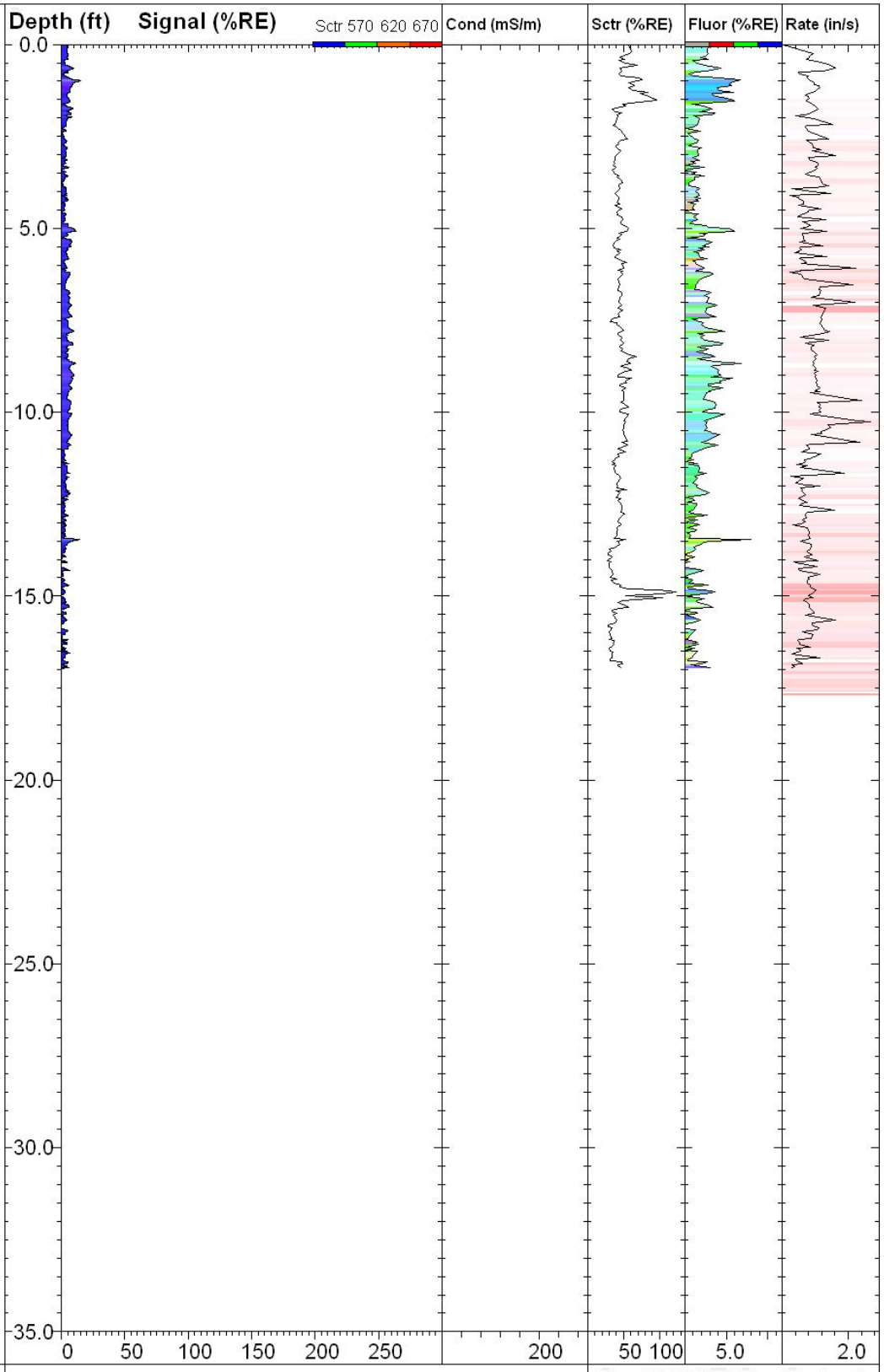
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **27.03 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **26.5 %RE @ 22.47 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-24 08:49 EST**

Callouts



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TG-10-62

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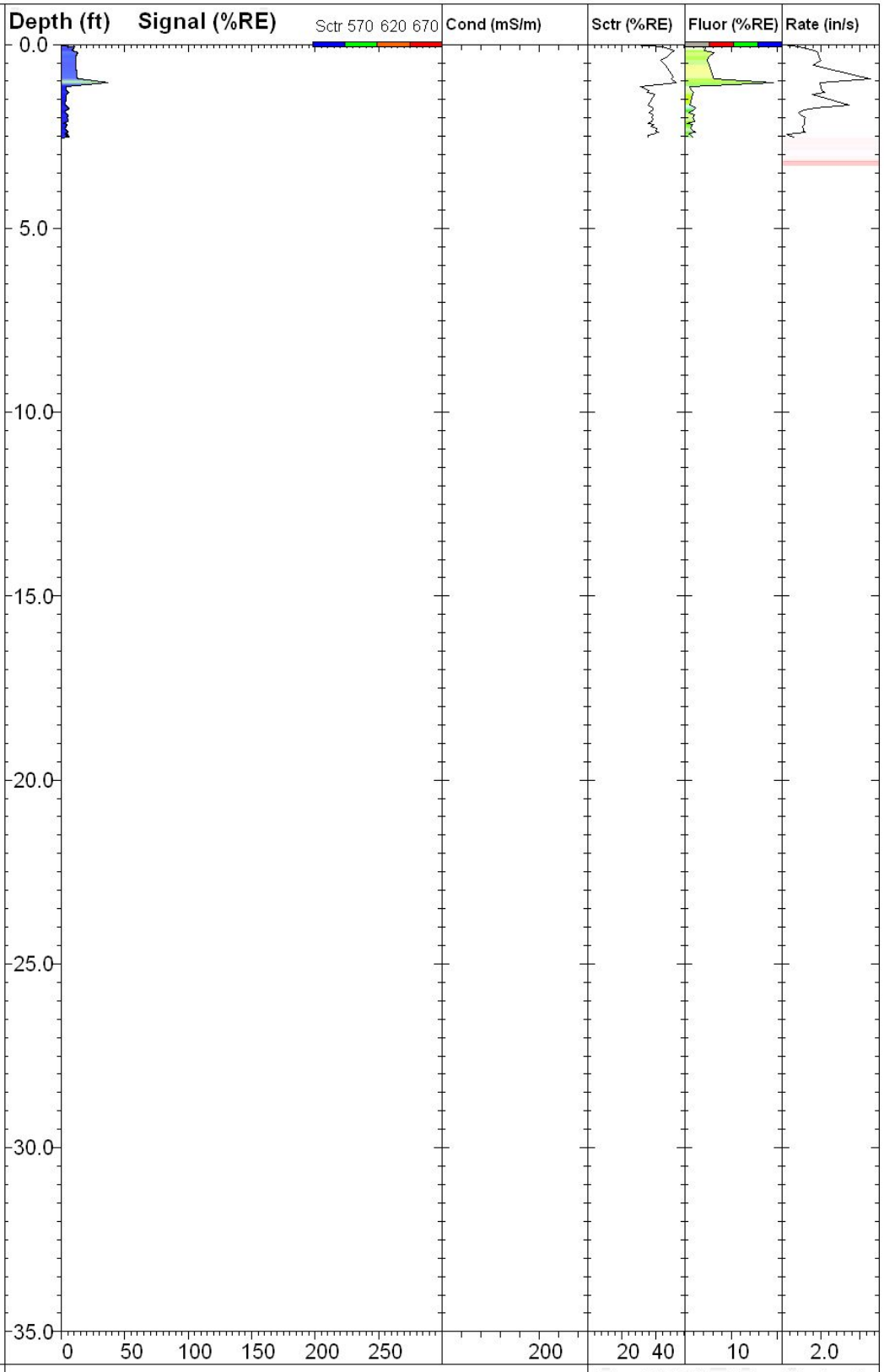
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **16.96 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **15.8 %RE @ 0.98 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-24 09:14 EST**

Callouts



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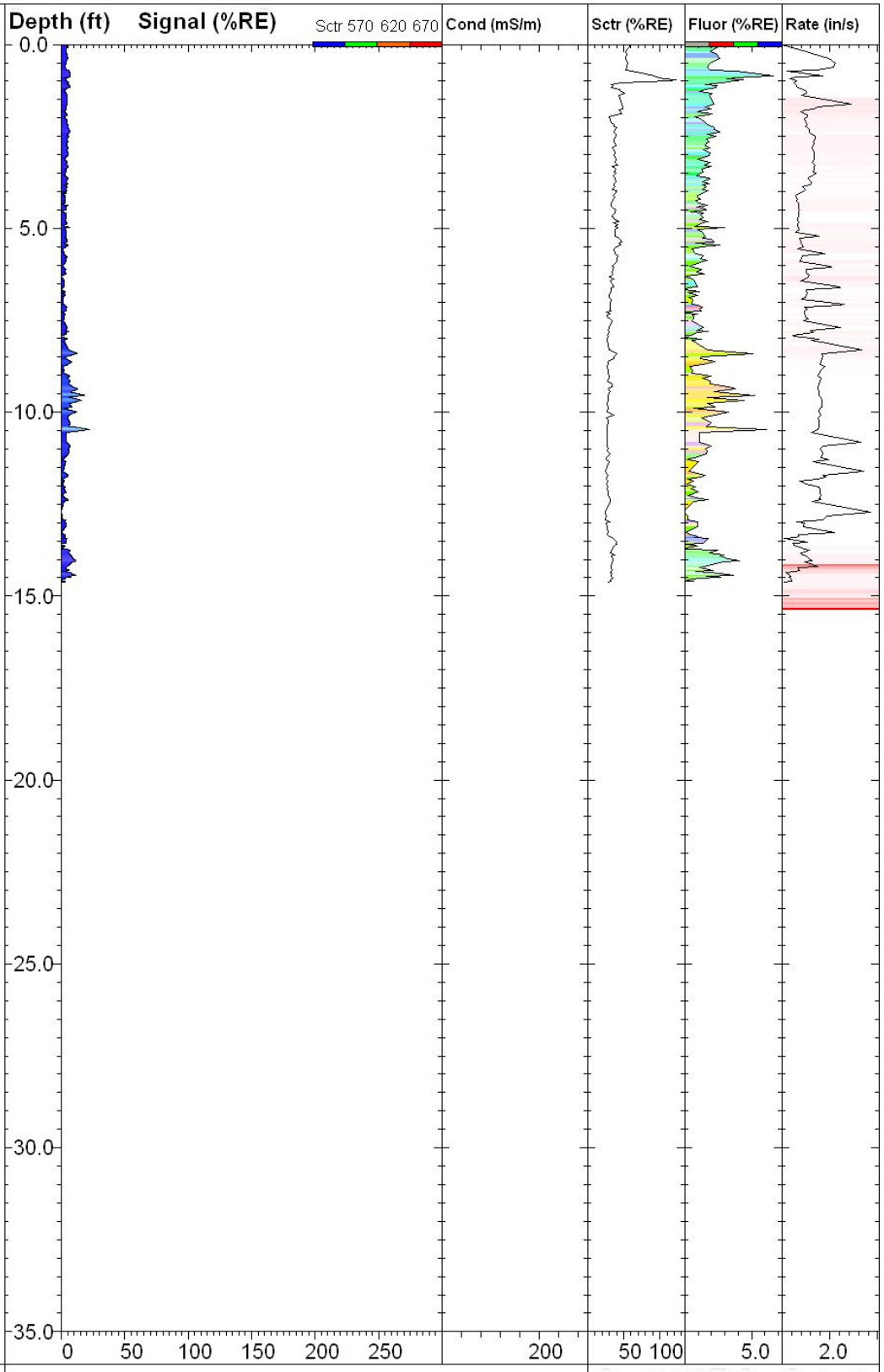
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **2.54 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **37.0 %RE @ 1.04 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-24 09:55 EST**

Callouts



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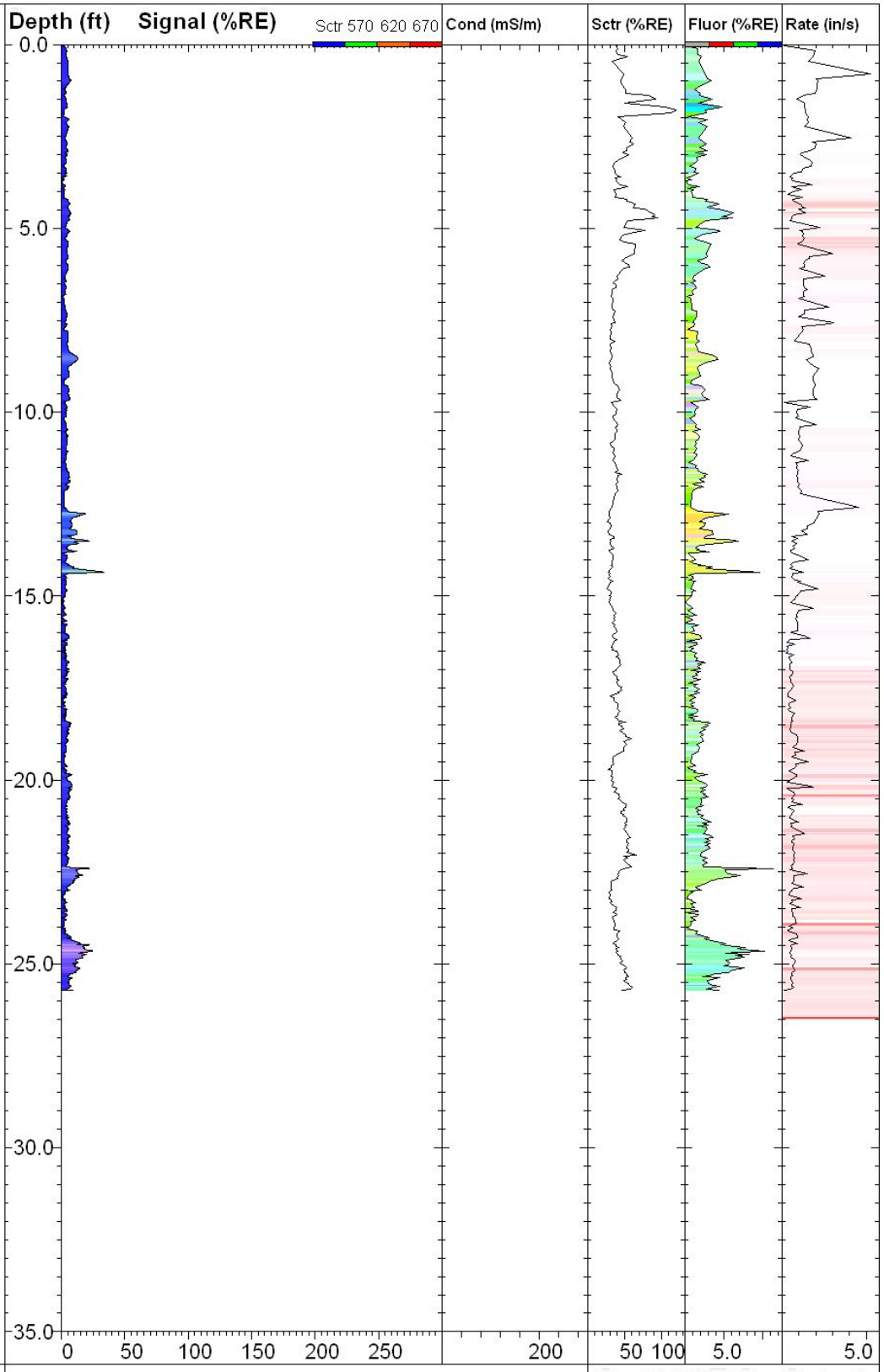
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **14.62 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **22.3 %RE @ 10.47 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-24 10:11 EST**

Callouts



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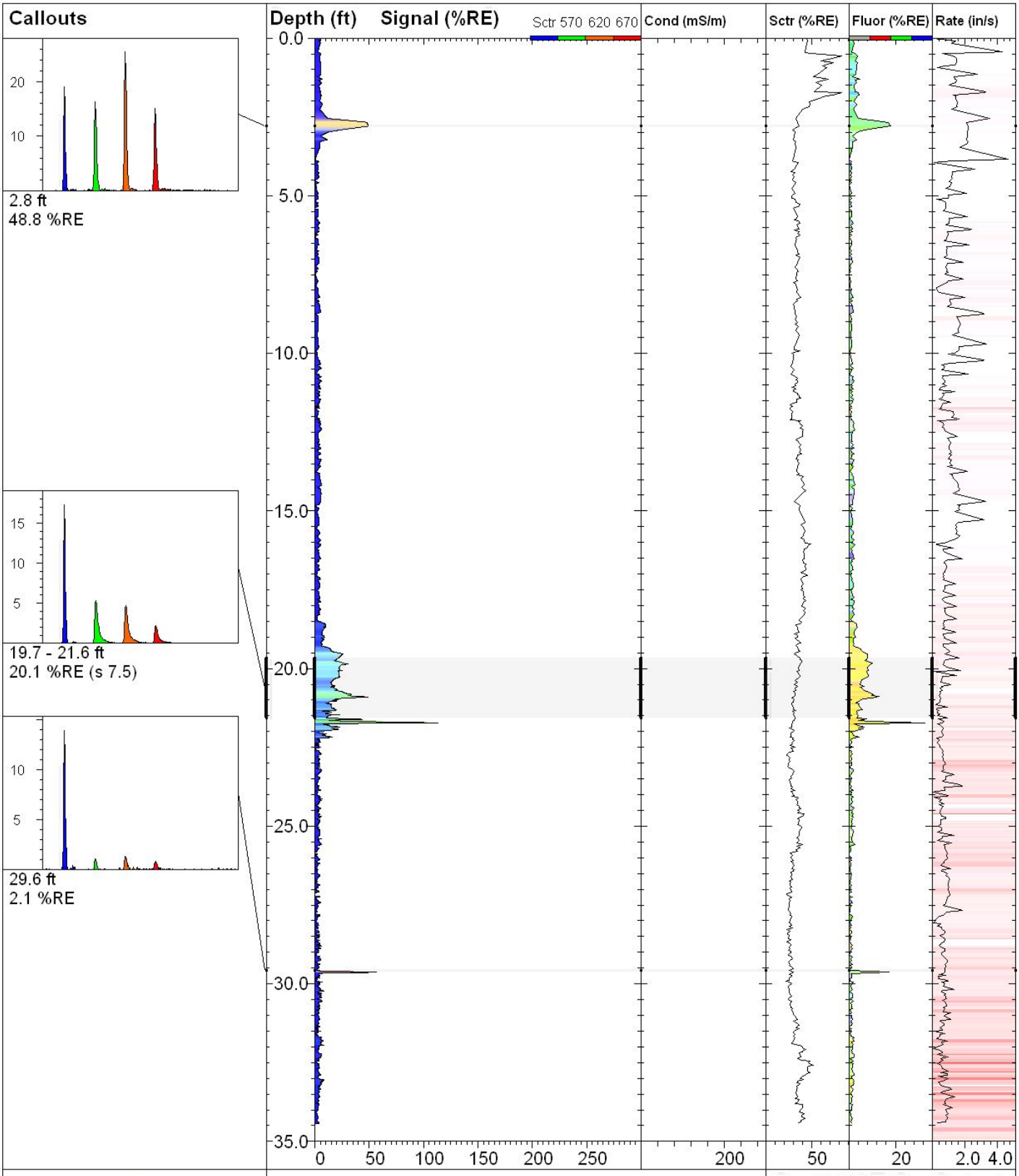
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **25.73 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **34.4 %RE @ 14.35 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-24 10:32 EST**



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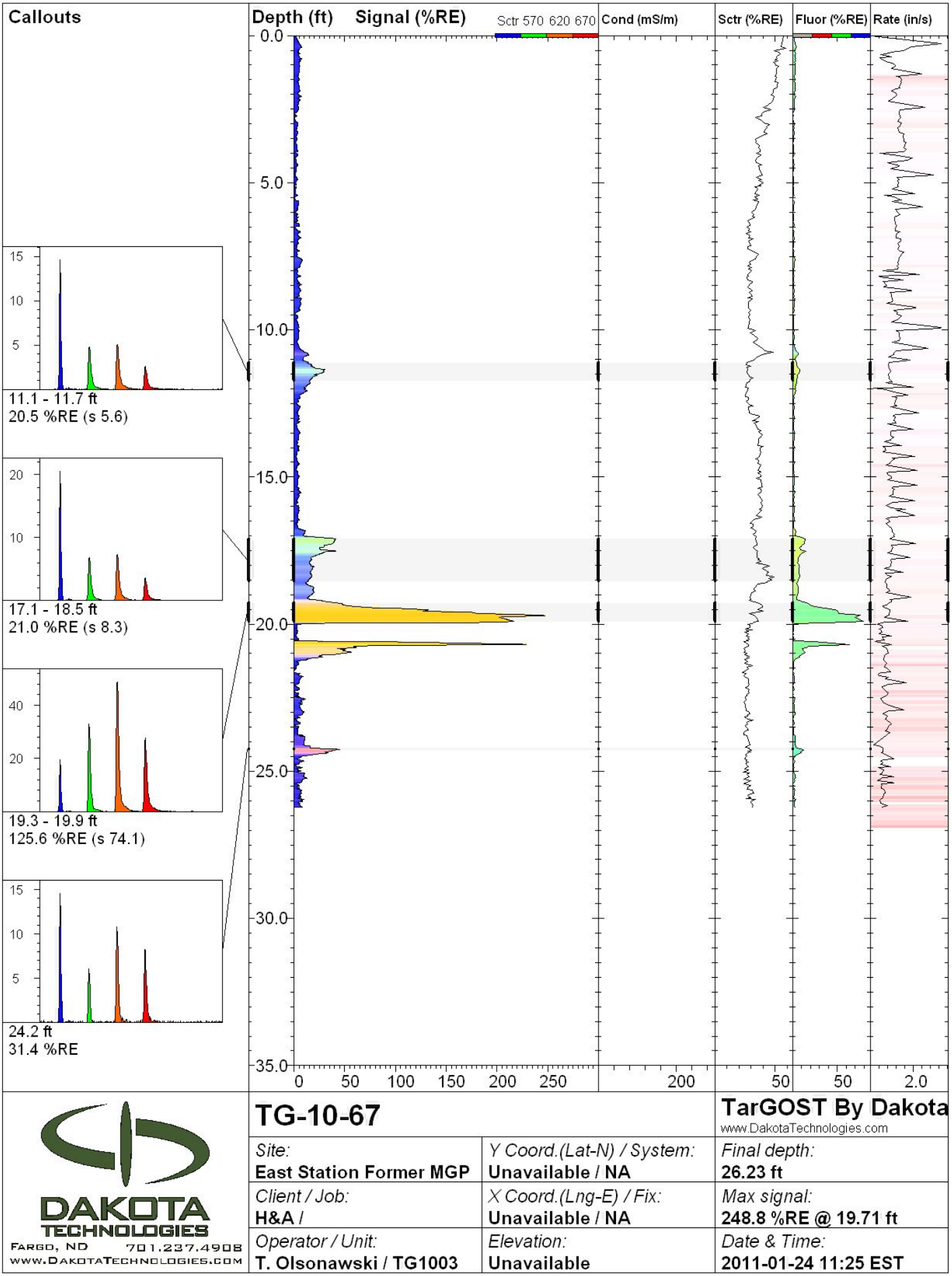
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **34.43 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **113.8 %RE @ 21.73 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-24 10:59 EST**



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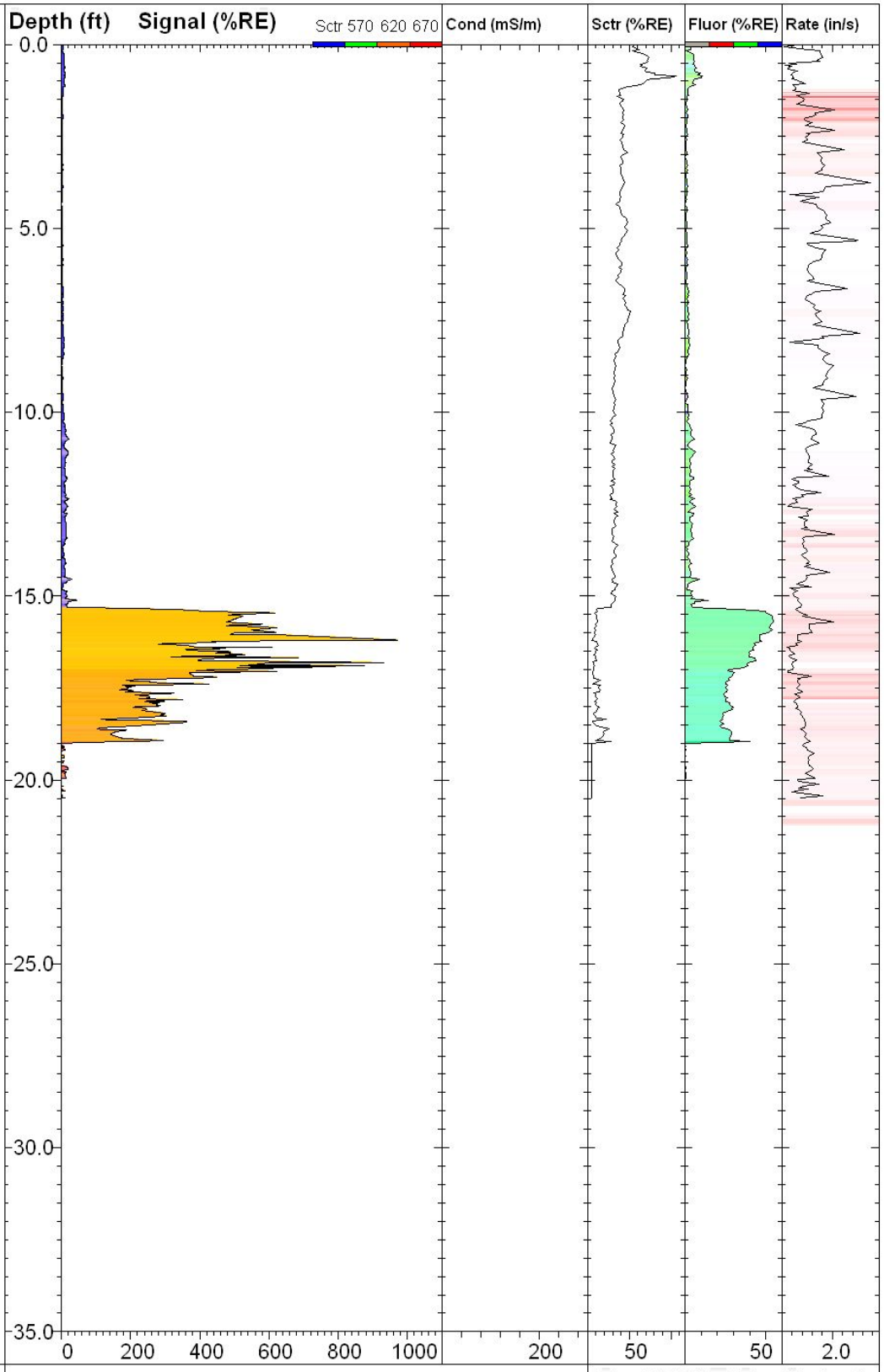
Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **26.23 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **248.8 %RE @ 19.71 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-24 11:25 EST**

Callouts



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TG-10-68

TarGOST By Dakota
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Site: **East Station Former MGP**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **20.49 ft**
Client / Job: **H&A /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **971.9 %RE @ 16.19 ft**
Operator / Unit: **T. Olsonawski / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2011-01-24 11:46 EST**