4-11-96

04-36-204037

PLEASE PRINT

State of Wisconsin Substance Release Notification Form

24-Hour Emergency Hotline Number: 1-800-943-0003 Form 4400-91 Rev. 11-95

Date and Mil. Time of Incident	Date and Mil. Time Reported 4/11/96 - 1245

04-36-204037

Person Reporting Tom Tisa	**Telephone #** (412) 562-1922
Representing Agency, Firm, or Citizen Fisher Hamilton	
Responsible Party Fisher Hamilton	
Contact Name David Tice	**Telephone #** (414) 794-6326
Address 1316 18th Street P.O. Box 137, Two Rivers, WI 54241	**City, State, Zip Code** Two Rivers, WI 54241

Substance Involved	Amount & Units Released	Amt. Recovered	Is this a 304 (11004 42 USC) spill?
Hydraulic Oil	? ?	7-55gal. drums (soil)	☐ Yes ☐ No ☐ Unknown

☒ Solid ☐ Semisolid ☐ Liquid ☐ Gas Color _____ Odor _____

Exact Location (inc. address, facility name, mileage, bldg. #, etc.)
Main Plant (Wood plant)

City Two Rivers	**County** Manitowoc	**Lat/long**
DNR Region NER	___¼___¼sec___T___NR___(E/W)	**Weather Cond.**

Cause of Incident
Elevator

Spilled Substance Impact To:
Check (✓) all that apply
- ☐ Air ☐ Potential
- ☒ Soil ☐ Potential
- ☐ Groundwater ☒ Potential ??
- ☐ Surface Water ☐ Potential
  Name: _____
- ☐ Storm Sewer ☐ Potential
- ☐ Sanitary Sewer ☐ Potential
- ☐ Concrete/Asphalt ☐ Potential
- ☐ Private Well ☐ Potential
- ☐ Contained/Recovered
- ☐ Other: _____

Spill Source:
- ☐ Transportation Accident, Fuel Supply Tank Spill
- ☐ Transportation Accident, Load Spill
- ☒ Industrial Facility ☐ Paper Mill ☐ Chemical Co.
- ☐ Ag Coop/Facility/Food Factory/Facility
- ☐ Gas/Service Station/Garage/Auto Dealer, Repair Shop
- ☐ Pipeline, Terminal, Tank Farm, Oil Jobber/Wholesaler
- ☐ Public Property (city, state, church, school, etc.)
- ☐ Utility Co., Power Generating/Transfer Facility
- ☐ Private Property (home/farm)
- ☐ Construction, Excavation, Wrecking, Quarry, Mine
- ☐ Airport Facility ☐ Railroad Facility
- ☐ Other _____

Action Taken By Spiller
- ☐ No Action Taken
- ☐ No Action Needed
- ☐ Monitor
- ☒ Cleanup Method: Soil removal
- ☐ Waste Destination: _____
- ☐ Containment
- ☒ Contractor Hired
  Name: Sigma Environmental
- ☐ Other: _____

Injuries? ☐ Yes ☒ No If yes, how many? ____ **Has an evacuation occurred?** ☐ Yes ☒ No **Potential?** ☐ Yes ☐ No

Are there any resource damages? ☐ Yes ☒ No ☐ Potential **What kinds?** _____

Other Agencies Notified (✓ first column if notified); Check (✓) both columns if on scene

☐ ☐ Fire Department/Hazmat	☐ ☒ Local DNR	☐ ☐ EPA
☐ ☐ Local Law Enforcement	☐ ☐ Div. Emer. Gov.	☐ ☐ Nat'l Resp. Ctr. 800-442-8802
☐ ☐ LEPC or Local Emer. Gov.	☐ ☐ DATCP 608-224-4500	☐ ☐ Chemtrec 800-424-9300
☐ ☐ Regional Response Team	☐ ☐ DHSS 608-266-2830	☐ ☐ Other_____

Incident Commander, if known: _____
Phone: _____

Prepared By:(Print) Denise Danelski (Sign) Denise Danelski	**Date:** 4/11/96	**Rpt'd to DATCP?** ☐Yes ☐No
Person Notified: " "	**Region Notified:** NER **Time:** 1245	**Date:** 4/11/96
Invstgtd By:(Print) (Sign)	**Date:**	**Site Closed?** ☒Yes ☐No
Spill Coordinator Signoff: 4-26-96	**Transferred to ERP?** ☒No ☐Yes; Case # _____	**NFA Letter Sent?** ☒Yes ☒No 5-20-96 RLC
		Spill Packet Sent? ☐Yes ☒No

☒ Additional Comments on Reverse

TE0405-32-40

PLEASE PRINT

State of Wisconsin Substance Release Report (Con't)
Form 4400-91 Rev. 11-95

Date and Military Time of Incident	Responsible Party

Additional Comments:

Initial DRO - 55 ppm.

Sigma - DRO - 40-50 ppm.

Soil taken to Ridgeview Landfill

414-794-6356

WISCONSIN
DEPT. OF NATURAL RESOURCES

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
William R. Selbig, District Director

Lake Michigan District Headquarters
PO Box 10448, 1125 N. Military Ave.
Green Bay, WI 54307-0448
TELEPHONE 414-492-5800
FAX 414-492-5913
TDD 414-492-5812

May 20, 1996

David Tice
Fischer Hamilton Scientific, Inc.
1316 18th Street
Two Rivers, WI 54241

SUBJECT: No Further Action, Fischer Hamilton Scientific, Inc. Hydraulic Oil Release, 1316 18th Street, Two Rivers, Wisconsin

Dear Mr. Tice:

The Department has received the response summary and closure request from David Bauer of Sigma Environmental Services, regarding the hydraulic oil release referenced above. The Wisconsin Department of Natural Resources has reviewed the response summary and concur that the environment has been restored to the extent practicable as provided in ch. NR 708.09, Wis. Adm. Code. Therefore, the Department is requiring no further action at this time.

The above-named site has not been reviewed by the LMD District Closure Committee for a determination for case close out as provided in ch. NR 726, Wis. Adm. Code.

You should note that this letter does not constitute Department "certification" under s. 144.765 (2)(a)3, Stats., as created by 1993 Wisconsin Act 453 (May 12, 1994). Persons who meet the definition of "purchaser" in s. 144.765 (1)(c) must receive Department pre-approval prior to conducting a site investigation in order to be eligible for the liability exemption under s. 144.765, Stats.

We appreciate your efforts to protect and restore the environment at this site. If you have any questions regarding this No Further Action determination, please contact me at the number listed below.

Sincerely,

Roxanne Nelezen Chronert
Spills Coordinator - Hydrogeologist
Telephone: (414)492-5592

cc: David Bauer; Sigma Environmental Services, Inc.
220 E. Ryan Road; Oak Creek, WI 53154-4533

CLOSURE\NFACTION.LET

SIGMA
ENVIRONMENTAL SERVICES INC.

220 East Ryan Road
Oak Creek, WI 53154-4533
414-768-7144
FAX: 414-768-7158

May 15, 1996

Project Reference #3452

Ms. Roxanne Nelezene-Chronert
Department of Natural Resources.
P.O. Box 10448
1125 N. Military Avenue
Green Bay, WI 54307-0448

Re: Investigation of an Elevator Hydraulic Oil Release and Request for Case Closure, Fisher Hamilton Scientific, Inc., 1316 18th Street, Two Rivers, Wisconsin.

Dear Ms. Chronert:

On behalf of Fisher Hamilton Scientific, Inc., Sigma Environmental Services, Inc. (Sigma) has completed an environmental site investigation at the above referenced property (hereafter, the "site"). The investigation focused on an area immediately adjacent to an elevator suspected to have released hydraulic oil to the subsurface. The scope of the investigation was based upon analytical results of soil samples obtained from hand auger soil samples collected on April 2, 1996. The main objective of this investigation was to progress toward case closure status with the WDNR's Lake Michigan District office.

Laboratory analytical data of soil samples collected from beneath the base of the concrete encasement (4 feet [58 mg/kg] and 6 feet [54 mg/kg], Table 1, Figure 1), indicated concentration of Diesel Range Organics (DRO) to be present above the Wisconsin Department of Natural Resources (WDNR) 10 mg/kg trigger guideline requiring further investigation. The hydraulic oil release was reported to the WDNR on April 11, 1996. The site, as of yet, has not been ranked by the WDNR's Lake Michigan District.

Investigation activities were conducted in general accordance with the requirements of Wisconsin Administrative Code, Chapter NR 700. This involved identifying (to the extent practicable) the lateral and vertical extent of subsurface soil impacts attributable to the hydraulic oil release, to permit the characterization of the impacted soil media.

SCOPE OF WORK SUMMARY

Considering approximately 2 cubic yards of impacted soil was removed from the auxiliary casing surrounding the hydraulic ram during elevator equipment upgrade activities (Figure 1), and considering the existing facility provides coverage of any remaining low level subsurface impacts, the potential for continued subsurface impacts have been appreciably minimized.

However, in accordance with Wisconsin Statute 144.76 and in general conformance NR 716, the following strategy was recommended (Sigma, April 18, 1996[1]) and subsequently completed (Sigma, April 16 and May 6, 1996).

Soil Sample Collection

On March 6, 1996, approximately 2 cubic yards of soil was removed by Northwestern Elevator Co., Inc. personnel from an auxiliary casing surrounding a hydraulic elevator jack at the site (Figure 1). The soil was containerized in seven 55-gallon drums, and a composite soil sample of the drummed contents was collected and submitted for Protocol Bio-4 characterization (Attachment A) for disposal and/or treatment.

On April 16, 1996, Sigma personnel were present at the site to collect a soil sample from the base of the open ended auxiliary casing (Figure 1) to assess potential subsurface impacts at depth (approximately 52 feet below ground surface). The soil sample was retrieved via an auger bucket lowered to the base of the auxiliary casing. The soil sample was collected and submitted for DRO analysis. Results

To characterize and delineate the area of hydraulic oil impacts to soil, two soil borings were installed on either side of the elevator shaft at locations in the current manufacturing area, and adjacent underground parking garage structures (Figure 2). The soil borings were completed on May 6, 1996 utilizing specialized skid mounted indoor drilling equipment. Subsurface drilling at each of the borehole locations (B-1 and B-2) was initially proposed for completion to depths of approximately 55 feet below ground surface. However, due to the anticipated shallow position of the water table surface beneath the facility (estimated 10 to 20 feet below ground surface), soil samples submitted for laboratory analysis were obtained from the observed unsaturated and unsaturated/saturated soil column beneath the facility.

Soil samples were collected using a split-spoon sampling device at each of the soil boring locations. Each soil sample was classified based on physical characteristics, and were semi-qualitatively screened for the presence of total ionizable volatile organic compound (VOC) vapors with the aid of a flame-ionization detector (FID). Each soil sample was placed into a pre-cooled ice chest for potential constituent evaluation (DRO) by the project analytical laboratory. Soil samples were selected for constituent evaluation based on visual classification, FID screening results, and the relative position of the observed water table surface (if encountered). Two soil samples per borehole were submitted to the project laboratory for qualitative analysis

---

[1] Sigma Environmental Services, Inc., April 18, 1996, "Cost Proposal for the Investigation of an Elevator Hydraulic Oil Release".

to assess the vertical extent of potential hydraulic oil impacts. One soil sample was collected from the upper portion of the soil column (10 foot interval) to assess shallow subsurface quality. An additional soil sample was submitted from the soil column beneath the upper 10 foot column (between 10 and 20 foot interval) to assess deeper subsurface quality.

INVESTIGATIVE RESULTS

Site Geology and Hydrogeology

The predominant natural, undisturbed soil deposit beneath the site is comprised of a poorly graded fine to medium grain sand with fine gravel (upper 12.5 feet), grading to a silty fine sand and silt sequence to a depth of at least 26 feet below ground surface. The WDNR soil boring log information and borehole abandonment forms are included in Attachment B.

During the installation of soil borings B-1 and B-2, saturated conditions were noted in the soil sample cores at approximately 13.5 to 14 feet below ground surface. Water table wells have not been installed at the site, therefore, ground water gradients have not been established.

Soil Sample Analytical Results

Soil samples composited from the approximately 2 cubic yards of soil removed from the auxiliary casing (submitted for Protocol Bio-4 constituent characterization), indicate that the impacted soil analyzed is characteristically non-hazardous. A soil sample obtained from the natural clay base of the open ended auxiliary casing (approximately 52 feet below ground surface) indicate a concentration of DRO slightly above the laboratory quantification limit (4.0 mg/kg) at 5.8 mg/kg (Table 1). No quantifiable concentrations of DRO were present in soil samples obtained from soil borings B-1/8-10', B-1/12-14', B-2/6-8', and B-2/10-12' sampled intervals.

Field screening of soil samples with the FID meter indicated concentrations of total ionizable volatile organic compound vapors were not present in any of the samples to a depth of at least 26 feet below ground surface (total depth of soil boring B-1). Table 1 provides a comprehensive summary of the soil quality data, and Attachment C includes copies of the laboratory analytical data reports.

In summary, shallow soil impacts appear to be confined to the area immediately beneath the cast concrete pit surrounding the elevator shaft (4 feet below pit base [58 mg/kg], and 6 feet below pit base [54mg/kg]). These concentrations are significantly below the Wisconsin Administrative Code, Chapter NR 720 soil cleanup standard of 100 mg/kg DRO. Additionally, the existing concrete floor and the facility structure effectively minimize any potential contact with affected soil left in place, and will therefore, minimize the potential migration of

constituents from soil into groundwater.

Based on the results of the investigative data collected, and on the fact that approximately 2 cubic yards of impacted soil was removed for disposal from the hydraulic ram auxiliary casing, no additional investigation or restoration is recommended at the site. Furthermore, Sigma on behalf of Fisher Hamilton Scientific, Inc. hereby petitions the WDNR Lake Michigan District for consideration of case closure status.

If you should have any questions or comments please feel free to contact us at (800) 732-4671.

Very truly yours,

SIGMA ENVIRONMENTAL SERVICES, INC.

David G. Bauer, CPG
Project Manager/Hydrogeologist

Paul S. Zovic, CHMM
Director Technical Services

Enclosures

cc: Tom Tisa - Fisher Scientific, Pittsburgh, PA
David Tice - Fisher Hamilton Scientific, Two Rivers, WI

Table 1
Soil Quality Data
Fisher Hamilton Scientific, Inc.
Two Rivers, Wisconsin

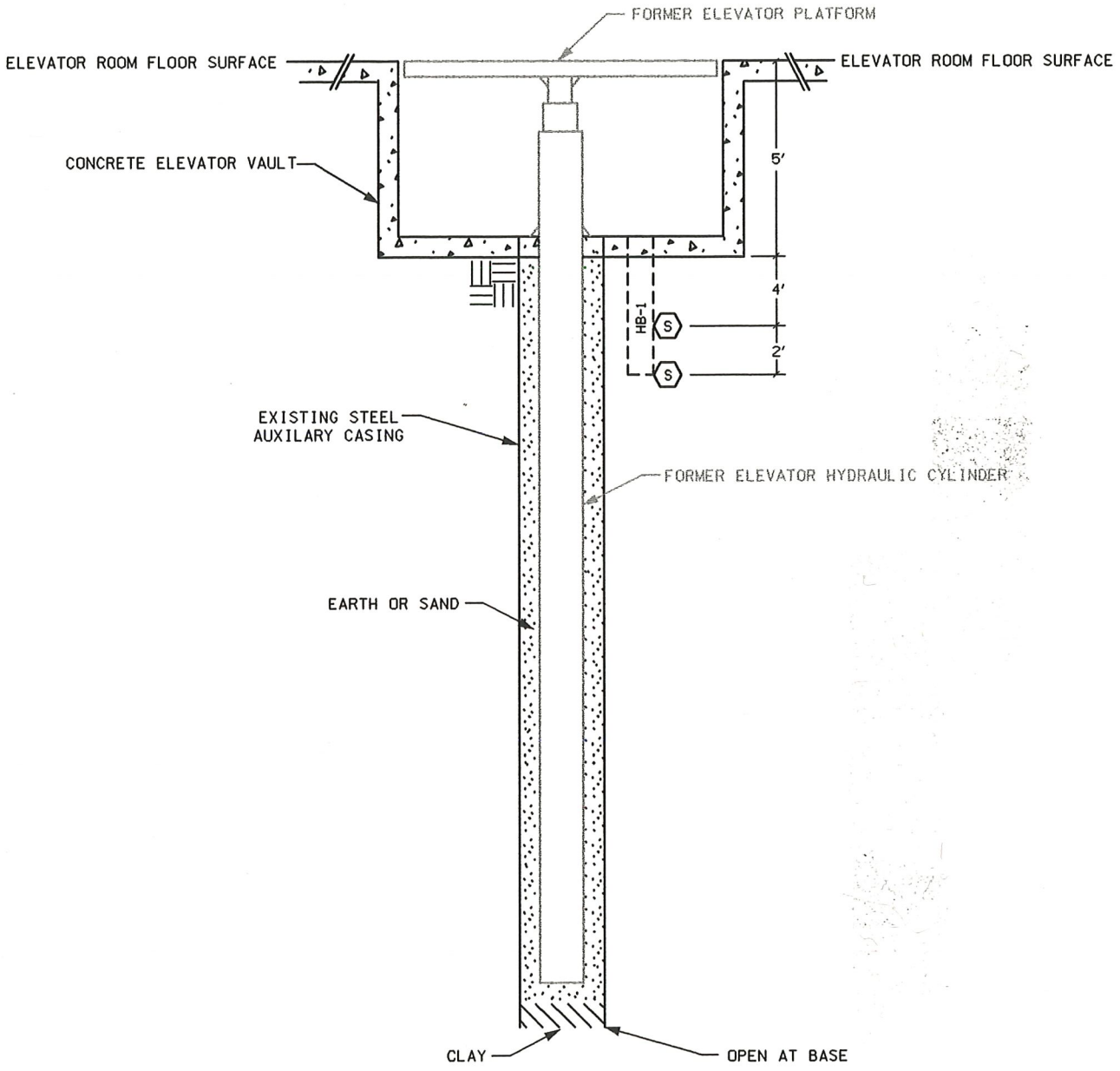
Soil Sample Identification		HB-1	HB-1	Elev. Shaft	B-1	B-1	B-2	B-2	Composite[1]
Depth of Sample Collection (ft)		4.0	6.0	52	8 to 10	12 to 14	6 to 8	10 to 12	12.5 to 49
Date Collected		04/02/96	04/02/96	04/16/96	05/06/96	05/06/96	05/06/96	05/06/96	03/06/96
Analyte	**Units**								
Total Ionizable VOC Vapors	i.u.	ND	ND	ND	ND	ND	ND	ND	ND
Diesel Range Organics	mg/kg	58	54	5.8	<5.7	<6.0	<5.0	<6.2	55
% Chlorine	%	NA	NA	NA	NA	NA	NA	NA	0.16
Lead	mg/kg	NA	NA	NA	NA	NA	NA	NA	3.4
Aroclor 1016	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.020
Aroclor 1221	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.020
Aroclor 1232	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.020
Aroclor 1242	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.020
Aroclor 1248	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.020
Aroclor 1254	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.020
Aroclor 1260	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.020
Moisture	%	NA	NA	NA	NA	NA	NA	NA	40
1,1-Dichloroethene	mg/l	NA	NA	NA	NA	NA	NA	NA	<0.050
1,2-Dichloroethane	mg/l	NA	NA	NA	NA	NA	NA	NA	<0.050
Benzene	mg/l	NA	NA	NA	NA	NA	NA	NA	<0.050
Carbon Tetrachloride	mg/l	NA	NA	NA	NA	NA	NA	NA	<0.050
Chlorobenzene	mg/l	NA	NA	NA	NA	NA	NA	NA	<0.050
Chloroform	mg/l	NA	NA	NA	NA	NA	NA	NA	<0.050
Methyl Ethyl Ketone	mg/l	NA	NA	NA	NA	NA	NA	NA	<1.0
Tetrachloroethene	mg/l	NA	NA	NA	NA	NA	NA	NA	<0.050
Trichloroethene	mg/l	NA	NA	NA	NA	NA	NA	NA	<0.050
Vinyl Chloride	mg/l	NA	NA	NA	NA	NA	NA	NA	<0.10
1,4-Dichlorobenzene	mg/l	NA	NA	NA	NA	NA	NA	NA	<0.010
2,4,5-Trichlorophenol	mg/l	NA	NA	NA	NA	NA	NA	NA	<0.010
2,4,6-Trichlorophenol	mg/l	NA	NA	NA	NA	NA	NA	NA	<0.010
2,4-Dinitrotoluene	mg/l	NA	NA	NA	NA	NA	NA	NA	<0.020
Cresols, Total	mg/l	NA	NA	NA	NA	NA	NA	NA	<0.020
Hexachlorobenzene	mg/l	NA	NA	NA	NA	NA	NA	NA	<0.010
Hexachlorobutadiene	mg/l	NA	NA	NA	NA	NA	NA	NA	<0.020
Hexachloroethane	mg/l	NA	NA	NA	NA	NA	NA	NA	<0.010
Nitrobenzene	mg/l	NA	NA	NA	NA	NA	NA	NA	<0.010
Pentachlorophenol	mg/l	NA	NA	NA	NA	NA	NA	NA	<0.020
Pyridine	mg/l	NA	NA	NA	NA	NA	NA	NA	<0.16

Note:

[1] Analytical results of the composite soil sample obtained from the two cubic yards of soil removed from the auxiliary casing surrounding the former elevator hydraulic ram.

ND = Not Detected/NA = Not Analyzed

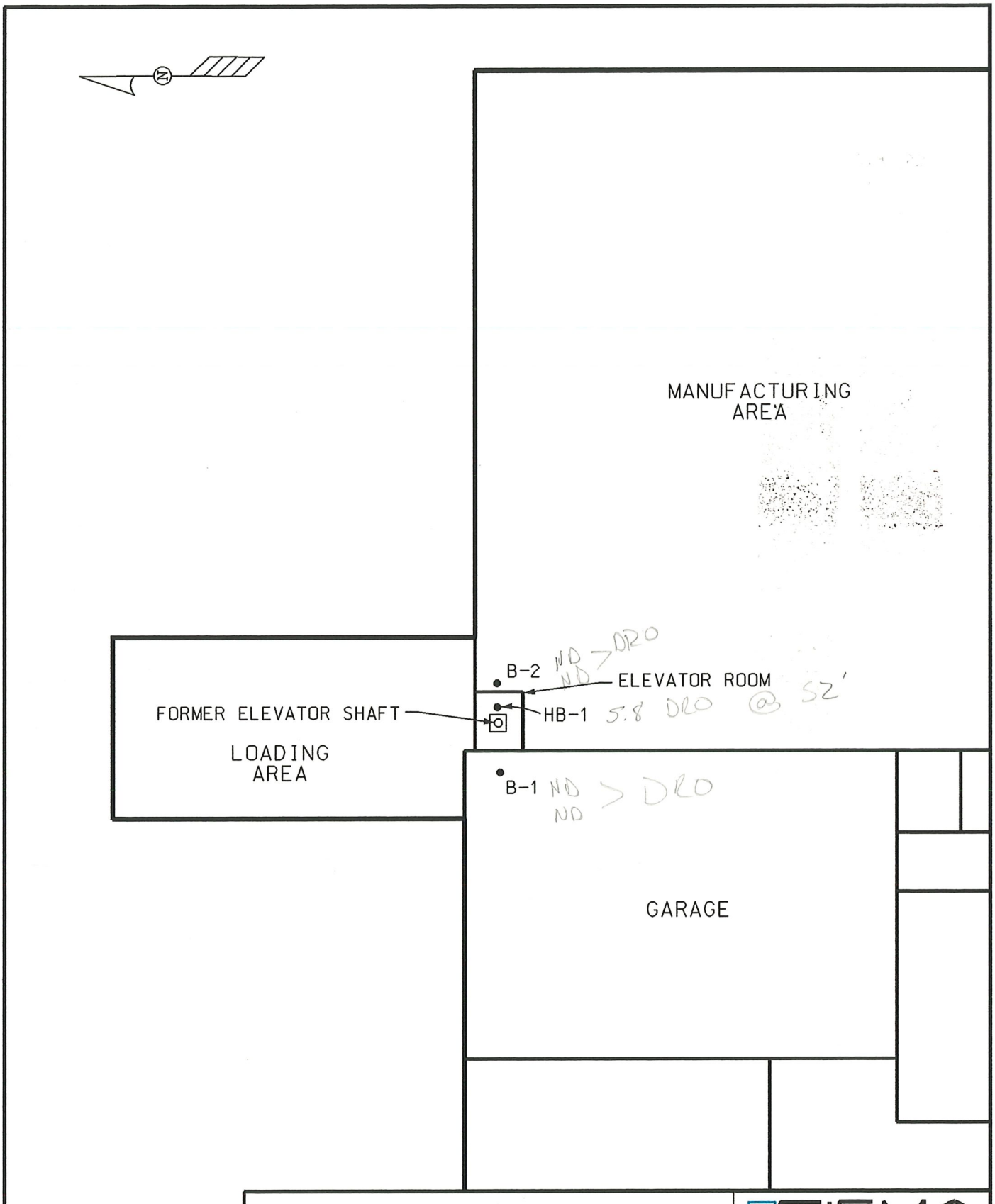
i.u.= Flame Ionization Detector (FID) measurements reported in instrument units (i.u.) as calibrated to 1000 ppm methane in air.



SECTION

NOTE:
(S) = HAND BORING SAMPLE LOCATION

FISHER HAMILTON SCIENTIFIC INC. 1316 18TH STREET, TWO RIVERS, WISCONSIN			SIGMA ENVIRONMENTAL SERVICES INC.
DATE: 5-15-96	DR. BY: BEB	DR.# 3452-003	SCALE: NO TO SCALE
ELEVATOR JACK			FIGURE 1



FISHER HAMILTON SCIENTIFIC INC. 1316 18TH STREET, TWO RIVERS, WISCONSIN			SIGMA ENVIRONMENTAL SERVICES INC.
DATE: 5-14-96	DR. BY: BEB	DR.# 3452-002	SCALE: 1" = 30'
SITE PLAN / SOIL BORING LOCATION MAP			FIGURE 2

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other _____

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-92

Page 1 of 2

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Fischer Hamilton Scientific, Inc.		**SB-1**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Wisconsin Test Drill – Chuck	05 / 06 / 96 (MM DD YY)	05 / 06 / 96 (MM DD YY)	**2.25 Hollw Stem Augers**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
— — —	— — — — — — — —		_____ Feet MSL	_____ Feet MSL	6.25 inches

Boring Location
State Plane _____ N, _____ E
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
☐ N ☐ E
_____ Feet ☐ S _____ Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Manitowoc	**36**	**Two Rivers**

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1.0	**0.0 to 8.0 No sample taken**										
			2.0											
			3.0											
			4.0											
			5.0											
			6.0											
			7.0											
1	3		8.0	**8.0 to 10.0 SAND - fine to medium with trace coarse sand and fine gravel - loose [10YR:6/4/DRY]**	SP			0.0						
			9.0											
2	6		10.0	**10.0 to 12.0 Same as above - shattered rock in shoe**	SP			0.0						
			11.0											
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Thomas J Evans 5/15/96

Firm **Sigma Environmental Services, Inc.**
102 Progress Drive, Saukville, WI 53080 (414) 284-6824

This form is authorized by Chapters 144, 147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

State of Wisconsin
Department of Natural Resources
Boring Number **SB-1**

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A Rev. 5-92
Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
3	18		13.0	12.0 to 14.0 **Same as above in top 6" turning to a silty fine sand [10YR6/5:WET]**	SM			0.0						
4	18		14.0 15.0	14.0 to 16.0 **Same as above -wet**	SM			0.0						
5	11		16.0 17.0	16.0 to 18.0 **Same as above - wet**	SM			0.0						
			18.0 19.0 20.0 21.0 22.0 23.0	18.0 to 24.0 **No sample taken**	SM			0.0						
6	20		24.0 25.0	24.0 to 26.0 **Same as above - wet**	SM			0.0						
			26.0 27.0 28.0 29.0 30.0 31.0 32.0	**END OF BORING @ 26 FEET**										

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☐ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other _____

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-92

Page 1 of 2

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Fischer Hamilton Scientific, Inc.		**SB-2**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Wisconsin Test Drill -- Chuck	05 / 06 / 96 (MM DD YY)	05 / 06 / 96 (MM DD YY)	**2.25 Hollw Stem Augers**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
___ ___ ___	___ ___ ___ ___ ___ ___		_____ Feet MSL	_____ Feet MSL	6.25 inches

Boring Location
State Plane _____ N, _____ E
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
☐ N ☐ E
_____ Feet ☐ S _____ Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Manitowoc	**36**	**Two Rivers**

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				0.0 to 6.0 No Sample Taken										
1	18		6.0	**6.0 to 8.0 SAND - fine with trace medium and coarse sand and fine gravel - loose [10YR5/4:DRY]**	SP			0.0						
2	11		8.0	**8.0 to 10.0 Same as above- bottom 1" is a moist red/brown clayey sandy SILT [10YR5/6:Dry/Moist]**	SP			0.0						
3	10		10.0	**10.0 to 12.0 Same as above in top 1" followed by a yellowish brown fine sandy SILT [10YR 5/6:WET]**	SM			0.0						
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Stuart Brown 3/16/96

Firm **Sigma Environmental Services, Inc.**
102 Progress Drive, Saukville, WI 53080 (414) 284-6824

This form is authorized by Chapters 144, 147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

3452

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A Rev. 5-92

Boring Number **SB-2** Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
4	18		13.0	**12.0 to 14.0 Same as above with fine and medium sand stringers in upper 8"**	SM			0.0						
			14.0	**14.0 to 20.0 No sample taken**										
			15.0											
			16.0											
			17.0											
			18.0											
			19.0											
5	9		20.0	**20.0 to 22.0 SAND - fine with silt [10YR5/6:WET]**	SM			0.0						
			21.0											
			22.0	**END OF BORING AT @ 22 FEET**										
			23.0											
			24.0											
			25.0											
			26.0											
			27.0											
			28.0											
			29.0											
			30.0											
			31.0											
			32.0											

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5B Rev. 3-94

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 1 Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/drillhole/Borehole Location

County: **Manitowoc**

___ 1/4 of ___ 1/4 Sec. ___ ; T. ___ N; R. ___ ☐ E ☐ W

(If applicable)

___ Gov't Lot ___ Grid Number

Grid Location

___ ft. ☐ N. ☐ S., ___ ft. ☐ E. ☐ W.

Civil Town Name: **Two Rivers**

Street Address of Well: **1316 18th Street**

City, Village: **Two Rivers**

(2) FACILITY NAME

Original Well Owner (If Known)

Present Well Owner: **Fischer Hamilton Scientific, Inc.**

Street or Route: **1316 18th Street**

City, State, Zip Code: **Two Rivers, WI 54241-3059**

Facility Well No. and/or Name (If Applicable): **SB-1**

WI Unique Well No: ___ ___ ___ ___

Reason For Abandonment: **Exploratory Soil Boring**

Date of Abandonment: **05/06/96**

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On

(Date) **05/06/96**

☐ Monitoring Well
☐ Water Well
☐ Drillhole
☒ Borehole

Construction Report Available? ☒ Yes ☐ No

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify) ___

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) **26.0** (From groundsurface)

Casing Diameter (ins.) ___

Casing Depth (ft.) ___

Lower Drillhole Diameter (in.) ___

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? ___ Feet

(4) Depth to Water (Feet) 12.5

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☐ Yes	☐ No	

If No, Explain ___

Was Casing Cut Off Below Surface?	☐ Yes	☐ No
Did Sealing Material Rise to Surface?	☐ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☐ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealing Material

☒ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials

☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite

For monitoring wells and monitoring well boreholes only

☐ Bentonite Pellets
☐ Granular Bentonite
☐ Bentonite- Cement Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume (Circle One)	Mix Ratio or Mud Weight
Concrete	Surface	.5		
Bentonite	.5	5	1 Bag	
Auger Spoil	5	26		

(8) Comments: ___

(9) Name of Person or Firm Doing Sealing Work

Stuart Gross/Sigma Environmental

Signature of Person Doing Work: Stuart Gross

Date Signed: 5/16/96

Street or Route: 102 Progress Drive

Telephone Number: 414-284-6824

City, State, Zip Code: Saukville, WI 53080

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

DNR/COUNTY

3452

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5B Rev. 3-94

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 1 Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/drillhole/Borehole Location

County: **Manitowoc**

___ 1/4 of ___ 1/4 Sec. ___ ; T. ___ N; R. ___ ☐ E ☐ W

(If applicable)

___ Gov't Lot ___ Grid Number

Grid Location

___ ft. ☐ N. ☐ S., ___ ft. ☐ E. ☐ W.

Civil Town Name: **Two Rivers**

Street Address of Well: **1316 18th Street**

City, Village: **Two Rivers**

(2) FACILITY NAME

Original Well Owner (If Known):

Present Well Owner: **Fischer Hamilton Scientific, Inc.**

Street or Route: **1316 18th Street**

City, State, Zip Code: **Two Rivers, WI 54241-3059**

Facility Well No. and/or Name (If Applicable): **SB-2**

WI Unique Well No:

Reason For Abandonment: **Exploratory Soil Boring**

Date of Abandonment: **05/06/96**

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On

(Date) **05/06/96**

☐ Monitoring Well
☐ Water Well
☐ Drillhole
☒ Borehole

Construction Report Available? ☒ Yes ☐ No

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) **22.0** (From groundsurface)

Casing Diameter (ins.) ___

Casing Depth (ft.) ___

Lower Drillhole Diameter (in.) ___

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? ___ Feet

(4) Depth to Water (Feet) **10.5**

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☐ Yes	☐ No	

If No, Explain ___

Was Casing Cut Off Below Surface?	☐ Yes	☐ No
Did Sealing Material Rise to Surface?	☐ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☐ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealing Material

☒ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials

☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite

For monitoring wells and monitoring well boreholes only

☐ Bentonite Pellets
☐ Granular Bentonite
☐ Bentonite- Cement Grout

(7)

Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume (Circle One)	Mix Ratio or Mud Weight
Concrete	Surface	.5		
Auger Spoil	.5	22		

(8) Comments: ___

(9) Name of Person or Firm Doing Sealing Work

Sigma Environmental Services

Signature of Person Doing Work: Shawn Grossman

Date Signed: 5/16/96

Street or Route: 102 Progress Drive

Telephone Number: 414-284-6824

City, State, Zip Code: Saukville, WI 53080

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	☐ Complying Work ☐ Noncomplying Work
Follow-up Necessary	

3452

DNR/COUNTY

Fisher Hamilton
Scientific Inc.

ELEVATOR SOIL SAMPLES

NORTHWEST ELEVATOR HAS REPORTS THAT THE FOLLOWING SOIL SAMPLES WERE TAKEN AS FOLLOWS:

DRUM #1 FROM 12.5 FEET TO 17.5 FEET

DRUM #2 FROM 17.5 FEET TO 22.75 FEET

DRUM #3 FROM 22.75 FEET TO 28 FEET

DRUM #4 FROM 28 FEET TO 33.25 FEET

DRUM #5 FROM 33.25 FEET TO 38.5 FEET

DRUM #6 FROM 38.5 FEET TO 43.75 FEET

DRUM #7 FROM 43.75 FEET TO 49 FEET

Fisher Hamilton Scientific Inc. • 1316 18th Street, P.O. Box 137, Two Rivers WI 54241 • Telephone 414 793-1121 • Fax 414 793-3084
A subsidiary of Fisher Scientific International Inc.