



FILE COPY

ENVIRONMENTAL & REGULATORY SERVICES
101 West Pleasant Street Suite 205
Milwaukee, Wisconsin 53212
Fax: (414) 220-5374
www.commerce.state.wi.us
Tommy G. Thompson, Governor
Brenda J. Blanchard, Secretary

May 21, 1999

J. Thomas Ravn
Serigraph, Inc.
3801 E. Decorah Rd.
West Bend, WI 53095

RE: COMMERCE # 53095-4050-60A
Serigraph, Inc., 760 Indiana Ave., West Bend, WI 53095

Petroleum impacts associated with former ASTs on northwest portion of property

Case Closure

Dear Mr. Ravn:

This letter acknowledges receipt of monitoring well/sump abandonment documentation. The above-referenced site will now be listed as "closed" on our computer database, as described in my letter dated April 5, 1999.

Note: the PECFA claim number listed on Advent's correspondence is incorrect. Please note the correct claim number listed above and use it on future correspondence with the PECFA program.

Thank you for your efforts in the protection of the environment. If you have any questions, you can reach me at (414) 220-5372.

Sincerely,

Nancy S. Kochis
Hydrogeologist
PECFA Site Review Section

cc: Pete Pavalko, Advent Environmental
electronic case file

Letter Of Transmittal

FROM: Name Peter E. Pavalko

Company Advent Environmental Svc.

Address P O Box 277
Mequon WI 53092-0277

Phone 414-238-1998

Date 5-17-99

Site Name SERIGRAPH INC.

Address 760 INDIANA AVE
WEST BEND WI 53095

FID#: 267083 850

BRRTS#: 03-67-001408

PELFA#: 53095-4036-60

RECEIVED
MAY 18 7
PECFA SITE RE
MILWAUKEE C ICE

Type of Submittal:
 LUST ERP VPLE other (describe):

To: NANCY KACHIS
Program Assistant/BRR Program WDCOM
Wisconsin Dept. of Natural Resources Box 12436
2300 N. Dr. Martin Luther King Jr. Dr. 191 W. Pleasant St.
Milwaukee, WI 53212 SUITE 205

FOR:

Check type(s) of documents enclosed. Submittals are tracked & filed based on information you provide. Include FID & BRRTS numbers assigned to this site. Identify the intent of document(s) you are submitting in order to speed processing. Please attach required fees to this form.

Are you requesting Department Review? Y N

√	TYPE OF DOCUMENT/REPORT	FEE	DNR (office use only) CODE
	Notification of Release	none	01
	Tank Closure/Site Assessment where release(s) have been detected*	none	33
	Site Investigation Workplan	\$500 if review is requested	35, 135~
	Site Investigation Report	\$750 if review is requested	37,
	___ groundwater impacts above ES		137~,
	___ no groundwater impacts or gw impacts below ES (if petroleum constituents only, case will be transferred to Department of Commerce)		76,
	Request to Transfer Case to Department of Commerce	none	96
	Off-Site Determination Request	\$500 mandatory	76
	Remedial Action Options Plan	\$500 mandatory	638~
	NR 720.19 Site Specific Clean-Up Goal Proposal	\$750 if review is requested	39, 143~
	NR 718 Landspreading Request	\$750 if review is requested	67, 68~
	"Notification to Treat or Dispose" of Contaminated Soil/Water	\$500 mandatory	61~
	Injection/Infiltration Request	none	99
	Quarterly Report or Update	\$500 mandatory	63~
	O & M Form 4400-194	\$500 if review is requested	43, 43~
	Remedial Action Options Report	\$300 if review is requested	92, 192~
	Closure Review Request	\$750 if review is requested	41, 41~
	NR700.11 Simple Site Closure Request	\$750 mandatory	79~
	"Draft Deed Affidavit" or "Restriction required for close-out"	\$250 mandatory	183~
X	"Well Abandonment Forms"	none	99
	Remedial Design Report	\$750 if review is requested	147, 148~
	Construction Documentation Reports	\$250 if review is requested	151, 152~
	Long Term Monitoring Plan	\$300 if review is requested	24, 25~
	Voluntary Party Liability Exemption (VPLE) Application	\$250 mandatory	662
	VPLE "Phase I/II Assessments" or "Additional Reports"	computed hourly	99
	Tax Cancellation Agreement	\$500 mandatory	654
	Negotiated Agreement	\$1000 mandatory	630
	Lender Assessment	\$500 mandatory	686
	Negotiation and Cost Recovery (municipalities only)	fee for each service, mandatory	90~
	General Liability Clarification Request	\$500 mandatory	684
	Lease Letter Request - Single Property	\$500 mandatory	646
	Lease Letter Request - Multiple Properties	\$1000 mandatory	646
	Request for Other Technical Assistance	\$500 mandatory	90~
	Other (please describe)		

* Closure reports for sites where no releases have been detected should be sent directly to "Clean Closures" c/o DNR Remediation & Redevelopment Program, P.O. Box 7921, Madison WI 53707 letter of transmittal.doc 2/24/99

Remarks: PLS. LOG CASE as closed on your Data Base, Thanks

cc: Tom PAVY Serigraph

Pet!

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>Washington</u>	Original Well Owner (If Known) <u>SERIGRAPH</u>	Present Well Owner <u>Serigraph - 95036.02</u>
<u>SE 1/4 of S 1/4 of Sec. 13 : T 12 ; R. 19E</u> (If applicable)	<input type="checkbox"/> E <input type="checkbox"/> W	Street or Route <u>760 Indiana Avenue, West Bend, WI 53095</u>	
Gov't Lot	Grid Number	City, State, Zip Code <u>West Bend, WI 53095</u>	
Grid Location ft. <input type="checkbox"/> N. <input type="checkbox"/> S.		Facility Well No. and/or Name (If Applicable) <u>MW-1</u>	
Civil Town Name		WI Unique Well No. _____	
Street Address of Well <u>760 Indiana Avenue, West Bend, WI 53095</u>		Reason For Abandonment <u>SITE CLOSED/REMED. Completed</u>	
City, Village <u>West Bend, WI 53095</u>		Date of Abandonment <u>5-17-99</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION	
<p>(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>9-6-91</u></p> <p><input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input type="checkbox"/> Borehole</p> <p>Construction Report Available? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No WDNR 4400-122</p> <p>Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____</p> <p>Formation Type: Unconsolidated Formation <input type="checkbox"/> Bedrock</p> <p>Total Well Depth (ft.) <u>15.5</u> Casing Diameter (ins.) <u>2</u> (From ground surface)</p> <p>Casing Depth (ft.) <u>N/A</u></p> <p>Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet</p>	<p>(4) Depth to Water (Feet) <u>~10</u></p> <p>Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____</p> <p>Was Casing Cut Off Below Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>(5) Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input checked="" type="checkbox"/> Other (Explain) Gravity</p> <p>(6) Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Chipped Bentonite</p> <p>For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Bentonite Pellets <input checked="" type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Cement Grout</p>

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks, Sealant or Volume	Mix Ratio or Mud Weight
Bentonite	Surface	15.5	1	

(8) Comments: Advent Project # 95036.02

(9) Name of Person or Firm Doing Sealing Work
Advent Environmental Services, Inc.

Signature of Person Doing Work <u>Peter E. Pavalko</u>	Date Signed <u>5-17-99</u>
Street or Route <u>P.O. Box 277</u>	Telephone Number <u>(414) 238-1998</u>
City, State, Zip Code <u>Mequon, WI 53092-0277</u>	

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

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County Washington	Original Well Owner (If Known) SERIGRAPH	
SE 1/4 of S 1/4 of Sec. 13 : T 12 ; R. 19E <input type="checkbox"/> E <input type="checkbox"/> W		Present Well Owner Serigraph - 95036.02	
(If applicable) Gov't Lot	Grid Number	Street or Route 760 Indiana Avenue, West Bend, WI 53095	
Grid Location ft. <input type="checkbox"/> N. <input type="checkbox"/> S.		City, State, Zip Code West Bend, WI 53095	
Civil Town Name		Facility Well No. and/or Name (If Applicable) MW-2	WI Unique Well No.
Street Address of Well 760 Indiana Avenue, West Bend, WI 53095		Reason For Abandonment SITE CLOSED/REMED. Completed	
City, Village West Bend, WI 53095		Date of Abandonment 5-17-99	

WELL/DRILLHOLE/BOREHOLE INFORMATION

<p>(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>9-6-91</u></p> <p><input checked="" type="checkbox"/> Monitoring Well Construction Report Available? <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Drillhole WDNR 4400-122 <input type="checkbox"/> Borehole</p> <p>Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____</p> <p>Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock</p> <p>Total Well Depth (ft.) <u>15.5</u> Casing Diameter (ins.) <u>2</u> (From ground surface)</p> <p>Casing Depth (ft.) <u>N/A</u></p> <p>Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet</p>	<p>(4) Depth to Water (Feet) <u>~10</u></p> <p>Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If No, Explain _____</p> <p>Was Casing Cut Off Below Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>(5) Required Method of Placing Sealing Material</p> <p><input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Baller <input checked="" type="checkbox"/> Other (Explain) Gravity</p> <p>(6) Sealing Materials For monitoring wells and monitoring well boreholes only</p> <p><input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout. <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Clay-Sand Slurry <input checked="" type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Bentonite-Cement Grout <input type="checkbox"/> Chipped Bentonite</p>
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(7) Sealing Material Used	From (Ft.)	To (Ft.)	No.Yards, Sacks, Sealant or Volume	Mix Ratio or Mud Weight
Bentonite	Surface	15.5	1	

(8) Comments: Advent Project # 95036.02

(9) Name of Person or Firm Doing Sealing Work
Advent Environmental Services, Inc.

Signature of Person Doing Work Peter E. Pavalko	Date Signed 5-17-99
Street or Route P.O. Box 277	Telephone Number (414) 238-1998
City, State, Zip Code Mequon, WI 53092-0277	

(10) **FOR DNR OR COUNTY USE ONLY**

Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

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(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>Washington</u>	Original Well Owner (If Known) <u>SERIGRAPH</u>	
SE 1/4 of S 1/4 of Sec. <u>13</u> : T <u>12</u> ; R. <u>19E</u> <input type="checkbox"/> E <input checked="" type="checkbox"/> W (If applicable)		Present Well Owner <u>Serigraph - 95036.02</u>	
Gov't Lot _____ Grid Number _____		Street or Route <u>760 Indiana Avenue, West Bend, WI 53095</u>	
Grid Location ft. <input type="checkbox"/> N. <input type="checkbox"/> S.		City, State, Zip Code <u>West Bend, WI 53095</u>	
Civil Town Name _____		Facility Well No. and/or Name (If Applicable) <u>MW-3</u>	WI Unique Well No. _____
Street Address of Well <u>760 Indiana Avenue, West Bend, WI 53095</u>		Reason For Abandonment <u>SITE CLOSED/REMED. Completed</u>	
City, Village <u>West Bend, WI 53095</u>		Date of Abandonment <u>5-17-99</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION

<p>(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>9-6-91</u></p> <p><input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Construction Report Available? <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Drillhole WDNR 4400-122 <input type="checkbox"/> Borehole</p> <p>Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____</p> <p>Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock</p> <p>Total Well Depth (ft.) <u>15.5</u> Casing Diameter (ins.) <u>2</u> (From ground surface)</p> <p>Casing Depth (ft.) <u>N/A</u></p> <p>Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet</p>	<p>(4) Depth to Water (Feet) <u>~10</u></p> <p>Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____</p> <p>Was Casing Cut Off Below Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>(5) Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Baller <input checked="" type="checkbox"/> Other (Explain) Gravity</p> <p>(6) Sealing Materials For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Granular Bentonite <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite-Cement Grout <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Chipped Bentonite</p>
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(7) Sealing Material Used	From (Ft.)	To (Ft.)	No.Yards, Sacks, Sealant or Volume	Mix Ratio or Mud Weight
Bentonite	Surface	<u>15.5</u>	<u>1</u>	

(8) Comments: Advent Project # 95036.02

(9) Name of Person or Firm Doing Sealing Work
Advent Environmental Services, Inc.

Signature of Person Doing Work <u>Peter E. Pavalko</u>	Date Signed <u>5-17-99</u>
Street or Route <u>P.O. Box 277</u>	Telephone Number <u>(414) 238-1998</u>
City, State, Zip Code <u>Mequon, WI 53092-0277</u>	

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

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(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>Washington</u>	Original Well Owner (If Known) <u>SERIGRAPH</u>	
<u>SE 1/4 of S 1/4 of Sec. 13 : T 12 ; R. 19E</u> (If applicable)	<input type="checkbox"/> E <input checked="" type="checkbox"/> W	Present Well Owner Serigraph - 95036.02	
Gov't Lot	Grid Number	Street or Route 760 Indiana Avenue, West Bend, WI 53095	
Grid Location ft. <input type="checkbox"/> N. <input type="checkbox"/> S.		City, State, Zip Code West Bend, WI 53095	
Civil Town Name		Facility Well No. and/or Name (If Applicable) <u>MW-4</u>	WI Unique Well No.
Street Address of Well 760 Indiana Avenue, West Bend, WI 53095		Reason For Abandonment <u>SITE CLOSED/REMED. Completed</u>	
City, Village West Bend, WI 53095		Date of Abandonment <u>5-17-99</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION	
<p>(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>9-6-91</u></p> <p><input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Construction Report Available? <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Drillhole WDNR 4400-122 <input type="checkbox"/> Borehole</p> <p>Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____</p> <p>Formation Type: Unconsolidated Formation <input type="checkbox"/> Bedrock</p> <p>Total Well Depth (ft.) <u>15.5</u> Casing Diameter (ins.) <u>2</u> (From ground surface)</p> <p>Casing Depth (ft.) <u>N/A</u></p> <p>Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet</p>	<p>(4) Depth to Water (Feet) <u>~10</u></p> <p>Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____</p> <p>Was Casing Cut Off Below Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>(5) Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input checked="" type="checkbox"/> Other (Explain) Gravity</p> <p>(6) Sealing Materials For monitoring wells and monitoring well boreholes only</p> <p><input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Chipped Bentonite</p> <p><input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Cement Grout</p>

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks, Sealant or Volume	Mix Ratio or Mud Weight
Bentonite	Surface	15.5	1	

(8) Comments: Advent Project # 95036.02

(9) Name of Person or Firm Doing Sealing Work
Advent Environmental Services, Inc.

Signature of Person Doing Work <u>Peter E. Pavalko</u>	Date Signed <u>5-17-99</u>
Street or Route <u>P.O. Box 277</u>	Telephone Number <u>(414) 238-1998</u>
City, State, Zip Code <u>Mequon, WI 53092-0277</u>	

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SE 1/4 of S 1/4 of Sec. 13 : T 12 ; R. 19E	<input type="checkbox"/> E <input checked="" type="checkbox"/> W	Present Well Owner Serigraph - 95036.02	
(If applicable) Gov't Lot	Grid Number	Street or Route 760 Indiana Avenue, West Bend, WI 53095	
Grid Location ft. <input type="checkbox"/> N. <input type="checkbox"/> S.		City, State, Zip Code West Bend, WI 53095	
Civil Town Name		Facility Well No. and/or Name (If Applicable) GW Collection Sump	WI Unique Well No.
Street Address of Well 760 Indiana Avenue, West Bend, WI 53095		Reason For Abandonment SITE CLOSED/REMED. Completed	
City, Village West Bend, WI 53095		Date of Abandonment 5-17-99	

WELL/DRILLHOLE/BOREHOLE INFORMATION

<p>(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>Aug. 1991</u></p> <p><input type="checkbox"/> Monitoring Well <input type="checkbox"/> Construction Report Available? <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Drillhole WDNR 4400-122 <input type="checkbox"/> Borehole <input checked="" type="checkbox"/> Sump</p> <p>Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input checked="" type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____</p> <p>Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock</p> <p>Total Well Depth (ft.) <u>15.5</u> Casing Diameter (ins.) <u>12"</u> (From ground surface)</p> <p>Casing Depth (ft.) <u>N/A</u></p> <p>Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet</p>	<p>(4) Depth to Water (Feet) <u>~10</u></p> <p>Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____</p> <p>Was Casing Cut Off Below Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>(5) Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input checked="" type="checkbox"/> Other (Explain) Gravity</p> <p>(6) Sealing Materials For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Clay-Sand Slurry <input checked="" type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Bentonite-Cement Grout <input type="checkbox"/> Chipped Bentonite</p>
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	Bentonite	Surface	15.5	10	

(8) Comments: Advent Project # 95036.02

(9) Name of Person or Firm Doing Sealing Work
Advent Environmental Services, Inc.

Signature of Person Doing Work Peter E. Pavalko	Date Signed 5-17-99
Street or Route P.O. Box 277	Telephone Number (414) 238-1998
City, State, Zip Code Mequon, WI 53092-0277	

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Milwaukee, Wisconsin 53212
www.commerce.state.wi.us
Fax: (414) 220 5374
Tommy G. Thompson, Governor
Brenda J. Blanchard, Secretary

April 5, 1999

J. Thomas Ravn
Serigraph, Inc.
3801 E. Decorah Rd.
West Bend, WI 53095

RE: COMMERCE # 53095-4050-60
Serigraph, Inc., 760 Indiana Ave., West Bend, WI 53095

Petroleum impacts associated with former ASTs on northwest portion of property

Case Closure (conditional upon receipt of documentation)

Dear Mr. Ravn:

On behalf of the Wisconsin Department of Commerce, I have reviewed this case for closure. Based on the information available, the Department considers that no further investigation or remedial action is necessary. In making this determination, I reviewed the letter *Re: Serigraph, Inc.*, dated March 16, 1999, prepared by Advent Environmental. I also reviewed other documents in the case file including reports prepared by Advent, and correspondence between the WDNR and Serigraph.

If, in the future, site conditions indicate that any contamination that might remain poses a threat, the need for further remediation would be determined and required if necessary. If subsequent information indicates a need to reopen this case, any original claim under the PECFA fund would also reopen and you may apply for assistance to the extent of remaining eligibility.

Soil containing petroleum compounds remains on-site near the northwest corner of the existing Serigraph building. In the event that any petroleum-impacted subsurface soil is encountered in the future, it would have to be managed according to all applicable State of Wisconsin regulations and standards.

IMPORTANT: we cannot list this case as "closed" on our computer database until we receive documentation of monitoring well and sump abandonment (per Ch NR 141.25 Wis. Adm. Code). **The Department requests that, within 30 days, you properly abandon the four monitoring wells and one sump, and submit the abandonment documentation to me at the letterhead address.**

Thank you for your efforts in the protection of the environment. If you have any questions, you can reach me at (414) 220-5372.

Sincerely,

Nancy S. Kochis
Hydrogeologist
PECFA Site Review Section

cc: Pete Pavalko, Advent Environmental
electronic case file



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
Gloria L. McCutcheon, Regional Director

Southeast Region Headquarters
2300 N. Dr. Martin Luther King, Jr. Drive
PO Box 12436
Milwaukee, Wisconsin 53212-0436
Telephone 414-263-8500
FAX 414-263-8606
TDD 414-263-8713

March 26, 1999

RECEIVED

MAR 29 1999

PEGFA SITE REVIEW
MILWAUKEE OFFICE

BRRTS#:03-67-001408
Facility ID#: 267083850
LUST

Peter E. Pavalko
Advent Environmental Services
10845 N. Buntrock Ave., 64W
Mequon, WI 53095

SUBJECT: File Transfer to the Department of Commerce

Dear Mr. Pavalko:

On 3/17/99, The Wisconsin Department of Natural Resources (WDNR) received your request to transfer case 03-67-001408 to the Department of Commerce.

The file is being routed to Commerce, effective March 26th. Please refer questions about this site to Commerce at the following address. Phone numbers are also listed.

Wisconsin Department of Commerce
101 W. Pleasant St.
Suite 205
Milwaukee WI 53212

CONTACT

Nancy Kochis	414-220-5372
Jennifer Skinner	414-220-5373
Greg Michaels	414-220-5375
Linda Michalets	414-220-5376

To speed processing at Commerce, please refer to the BRRTS number listed in this letter.

Sincerely,

Pat Chung
Program Specialist
Remediation and Redevelopment
414-263-8688



March 16, 1999

RECEIVED
MAR 17 1999
ERS DIVISION

Ms. Nancy Kochis
Wisconsin Department of Commerce
101 W. Pleasant Street
Suite 205
Milwaukee, WI 53212-3939

Re: Serigraph, Inc., 760 Indiana Avenue, West Bend, WI 53095
FID #: 267083850; BRRTS #: 03-67-001408. WDCOM #: 53095-4038-60.
Advent Project #: 95036.02.

Dear Nancy:

We are requesting that the WDNR transfer this case file to the WDCOM – Milwaukee Office.
We did not detect any groundwater contaminants from the Serigraph, Inc., site above the NR 140 PAL between September 1991 and September 1993.

We are requesting that the WDCOM review this site and close it. Below is a summary of the remediation activities that have been completed.

- February 1991, Aqua-Tech, Inc., completed a nine boring site investigation to determine the extent of soil contamination originating from several former bulk ASTs. We estimated approximately 2,850 cubic tons of contaminated soil was present at the site. The soil extended from the surface to approximately 11 feet, where we encountered groundwater. Groundwater flow is to the northeast.
- Summer of 1991, we supervised the excavation and on-site thermal treatment of approximately 3,267 tons of contaminated soil. We removed all of the contaminated soil except for soil adjacent to the northwest corner of the building's foundation. A soil sample collected against the foundation contained DROs at 6.400 ppm.
- September 1991, we installed four groundwater monitoring wells around the perimeter of the excavation to determine the impact of the release on groundwater. Well locations are shown on Figure 1.
- December 1991, we installed two 4-inch diameter passive air vents near the northwest corner of the building. The purpose of the vents was to provide a conduit for air infiltration to the subsurface soils in order to enhance microbial biodegradation of the remaining petroleum contaminants.
- Between September 1991 and September 1993, we completed five groundwater samplings of the four monitoring wells. No significant groundwater contamination was detected at the site. Most notably, there were no contaminants detected in MW-4, which is located immediately downgradient of the remaining groundwater contamination. A summary table of the groundwater results is presented in Attachment 1. A potential upgradient source of groundwater contamination migrating onto the Serigraph, Inc., site was identified.
- On September 1994, we collected two soil samples from a geoprobe boring we completed between the two passive air vents. The purpose of the sampling was to determine if petroleum constituent concentrations had decreased since 1991. The results of the soil sampling are presented in Attachment 2. The locations of the boring and air vents are shown on Figure 2.

Advent Environmental Services, Inc.

10845 N Buntrock Ave. 64W
Mequon, WI 53092
414-238-1998
1-800-880-1998
Fax 414-238-1988

5110 Fairview Dr., Suite A
Eau Claire, WI 54701
715-831-1530
1-800-530-1520
Fax 715-831-1531

7520C Hwy 51 South
Minocqua, WI 54548
715-356-9980
1-888-357-9980
Fax 715-358-2582

The results of the site investigation and remediation indicate that the vast majority of contaminated soil has been removed and groundwater has not been significantly impacted. No environmental factors exist at this site and to the extent possible, this release has been investigated and remediated.

The only remaining area of soil contamination is the small volume of contaminated soil near the northwest corner of the building. Based on the soil plume margin we documented during the remedial excavation, we estimate that there are approximately 40 cubic yards of DRO contaminated soil remaining against the west and north foundation walls at the northwest corner of the building. The volume of contaminated soil below the building foundation is minimal, because the building extends approximately eight feet below ground surface. The estimated area of remaining contaminated soil is shown of Figure 3.

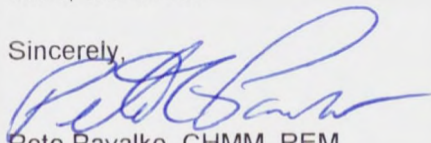
Advent recommends that the WDCOM close this site for the following reasons:

- We removed all of the accessible contaminated soil associated with this release;
- No environmental factors, as defined in COMM 47.337(3), exist at the site;
- Two years of groundwater monitoring demonstrated that this release has not resulted in any significant groundwater contamination;
- The volume of remaining soil contamination is very minimal, estimated at approximately 40 cubic yards;
- No potable wells are located near this site; the area is served by the City of West Bend public water supply;
- The site no longer poses a threat to human health or the environment; and
- The site has been remediated to the extent practical and economically feasible; little benefit will be realized by continued investigation or monitoring.

After the site is closed, we will abandon the two passive air vents and groundwater sump. Please let us know if we should also abandon the four monitoring wells, or if they should be left in-place for future monitoring by others.

If you have any questions or want to discuss this request for closure, please contact me at 238-1874, ext. 3016.

Sincerely,



Pete Pavalko, CHMM, REM
Environmental Scientist – Mequon Office

Cc: BRR Program, WDNR, P.O. Box 12436, Milwaukee, WI 53212
Tom Ravn, 3801 E. Decorah Road, West Bend, WI 53095

Attachment 1

Summary of Groundwater Sampling Results

**SUMMARY OF GROUNDWATER SAMPLE RESULTS
AT THE SERIGRAPH, INC. SITE - PLANT NO. 1
WEST BEND, WISCONSIN**

Monitoring Well	Sample Date				
	September 1991	March 1992	September 1992	February 1993	September 1993
MW-1	ND ¹	ND	DRO - 100 µg/l	ND	DRO - 720 µg/l
MW-2	ND	1,2,4-TMB - 1.9 µg/l 1,3,5-TMB - 1.0 µg/l o-xylene - 9.46 µg/l	ND	ND	DRO - 140 µg/l
MW-3	ND	ND	ND	ND	DRO - 710 µg/l
MW-4	ND	ND	ND	ND	ND

¹ ND = No PVOCs or DROs detected above laboratory detection levels.

Attachment 2

Summary of Geoprobe Soil Sampling Results, September 7, 1994

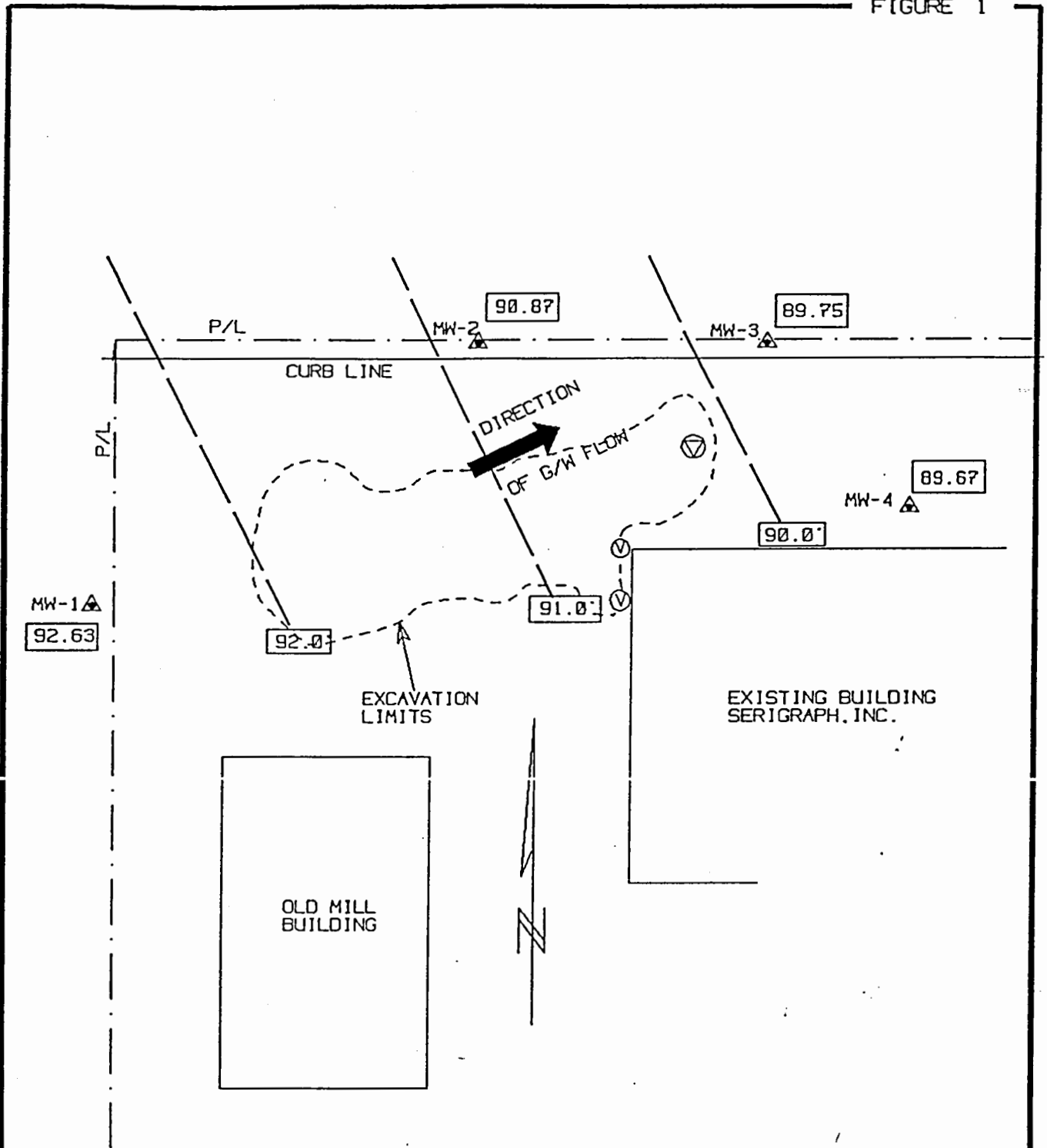
SERIGRAPH, INC. - PLANT NO. 1
WEST BEND, WI
DATE SAMPLED: SEPTEMBER 7, 1994

Sample I.D.	Boring	Depth	PID (ppm)	DRO (ppm)	PVOC (ppb)
SB-1A	B-1	5-7	25	27	benzene - 2.2 toluene - 6.3 1,2,4-trimethylbenzene - 15 xylene - 63
SB-1B	B-1	9-11	220	10,000	benzene - 92 ethylbenzene - 270 toluene - 6.0 1,2,4-trimethylbenzene - 4,800 1,3,5-trimethylbenzene - 1,600 xylene - 4,300

Figure 1

Monitoring Well Locations

FIGURE 1



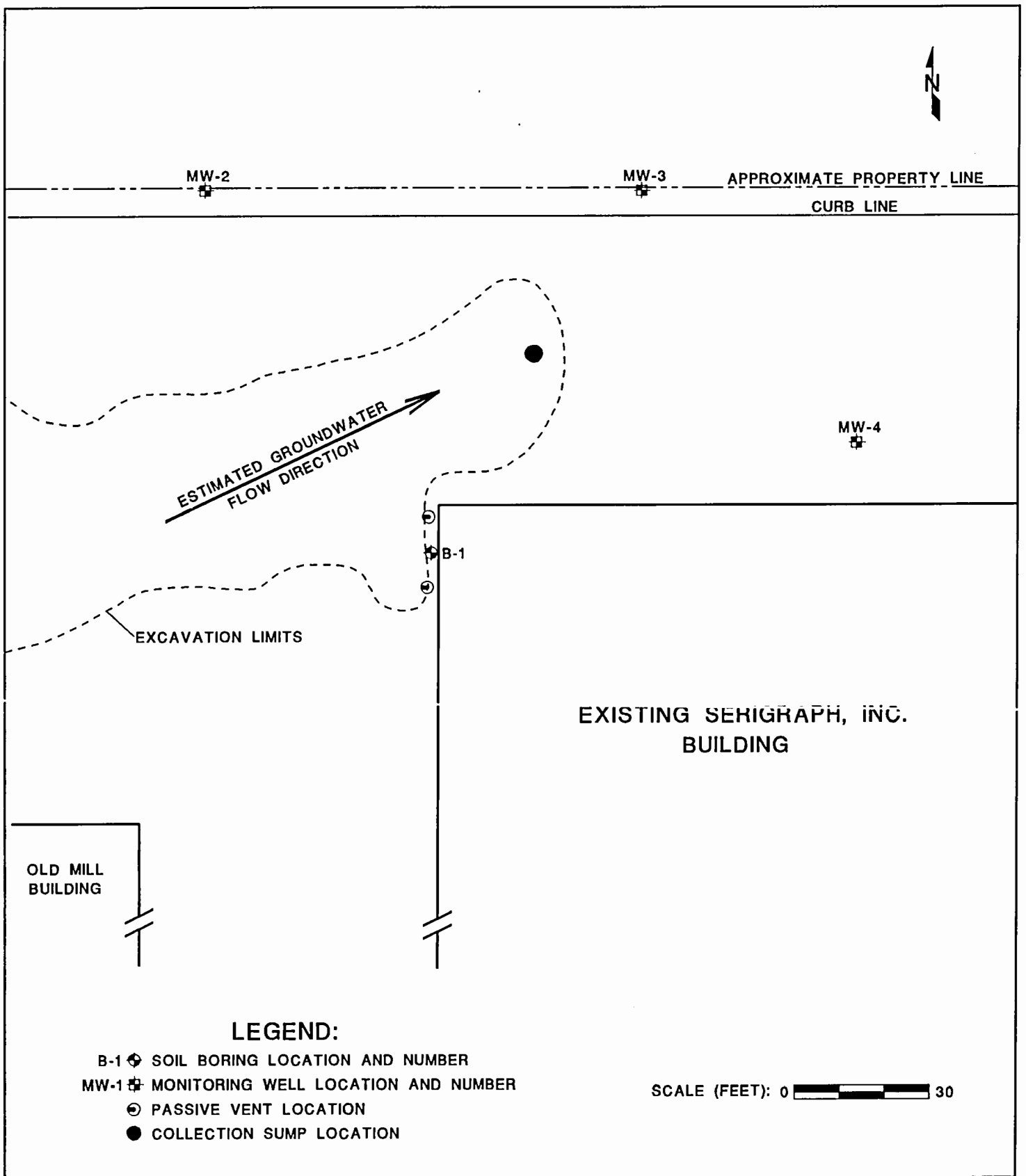
LEGEND:

- ▲ - MONITORING WELL
- ⊖ - COLLECTION SUMP
- ⊠.⊠.⊠ - RELATIVE GROUNDWATER ELEVATIONS
- ⊖ - PROPOSED PASSIVE VENT LOCATION

<p>SERI GRAPH GROUNDWATER CONTOURS 95036</p>			
<p>ADVENT ENVIRONMENTAL SERVICES, INC.</p>			
<p>P. O. BOX 246 • PORT WASHINGTON, N.Y. 11050-0246 • 414-264-7447</p>			
DRAFTER	CHECKED	DATE	SCALE
RICHARDSON	<i>PCP</i>	9/20/91	1"=50'

Figure 2

Geoprobe Boring and Passive Air Vent Locations



**FIGURE SITE FEATURES AND
SOIL BORING LOCATIONS
SERIGRAPH INCORPORATED
WEST BEND, WISCONSIN**

A D V E N T

ENVIRONMENTAL SERVICES, INC.
DATE: 3/11/99
DRAWING #95036.02A

Figure 3

Estimated Extent of Remaining Contaminated Soil

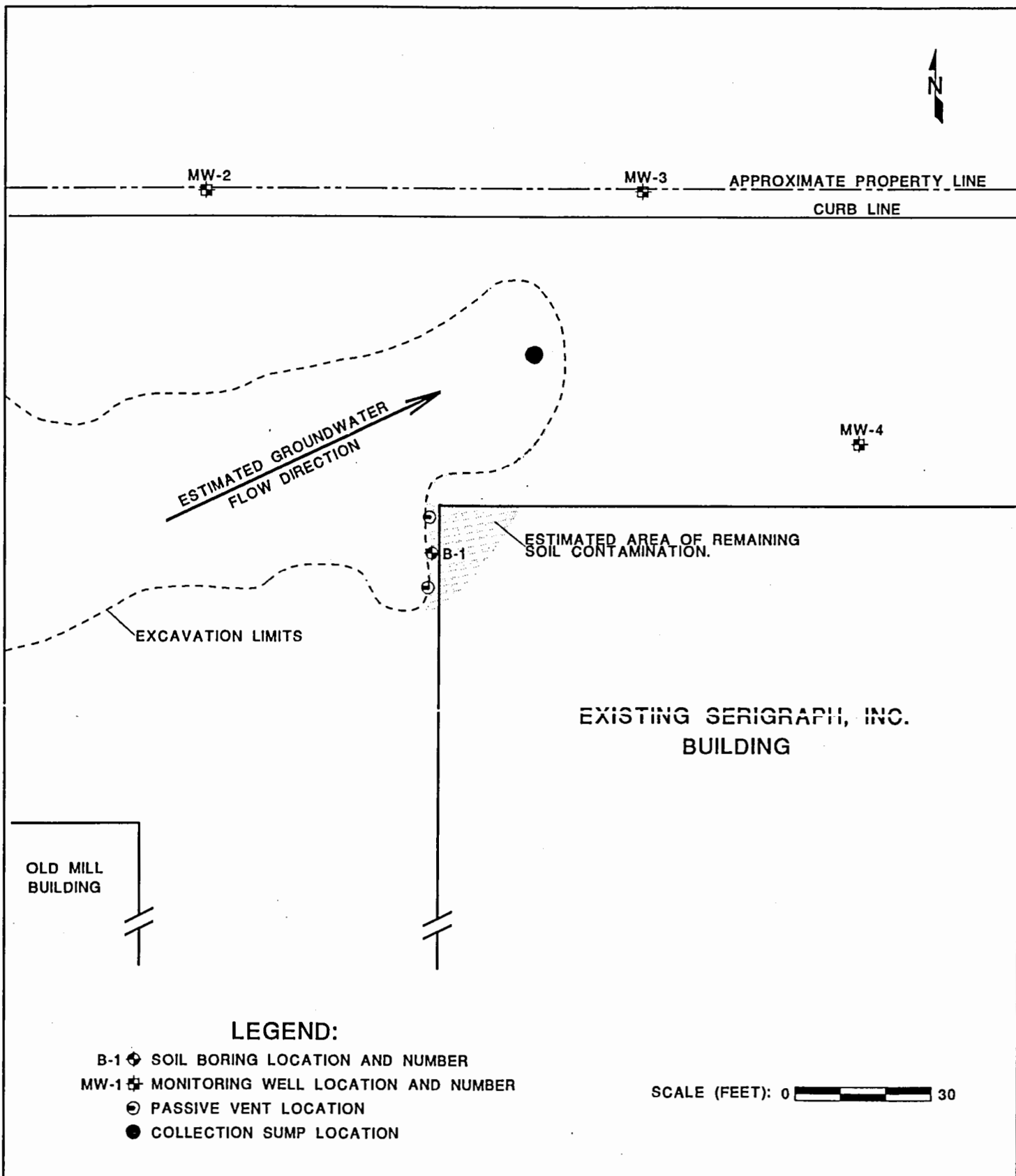


FIGURE 3 ESTIMATED EXTENT OF REMAINING SOIL CONTAMINATION SERIGRAPH INCORPORATED WEST BEND, WISCONSIN

A D V E N T
 ENVIRONMENTAL SERVICES, INC.
 DATE: 3/11/99
 DRAWING #95036.02A

Letter Of Transmittal

Type of Submittal:

LIST ERP VPLE other (describe):
A

To: Program Assistant/BRR Program
Wisconsin Dept. of Natural Resources Box 12436
2300 N. Dr. Martin Luther King Jr. Dr.
Milwaukee, WI 53212

FROM: Name Peter E. Pavalko
Company Advent Environmental Svc.
Address 10845 N. Buntrock Ave., 64W
Mequon, WI 53095
Phone 414-238-1998
Date 3-16-99
FOR: Site Name SERIGRAPH, INC.
Address 760 INDIANA AVE.
WEST BEND, WI 53095
FID# 267083850
BRRTS# 03-67-001408

Check type(s) of documents enclosed. Submittals are tracked & filed based on information you provide. Include FID & BRRTS numbers assigned to this site. Identify the intent of document(s) you are submitting in order to speed processing. Please attach required fees to this form.

Are you requesting Department Review? Y N

rec'd 3/17/99
request file Bob 3/18/99

√	TYPE OF DOCUMENT/REPORT	FEE	DNR (office use only) CODE
	Notification of Release	none	01
	Tank Closure/Site Assessment <i>where release(s) have been detected*</i>	none	33
	Site Investigation Workplan	\$500 if review is requested	35, 135~
	Site Investigation Report	\$750 if review is requested	37,
	__ groundwater impacts above ES		137~,
	__ no groundwater impacts or gw impacts below ES <i>(if petroleum constituents only, case will be transferred to Department of Commerce)</i>		76,
			96
<input checked="" type="checkbox"/>	Request to Transfer Case to Department of Commerce	none	76
	Off-Site Determination Request	\$500 mandatory	638~
	Remedial Action Options Plan	\$750 if review is requested	39, 143~
	NR 720.19 Site Specific Clean-Up Goal Proposal	\$750 if review is requested	67, 68~
	NR 718 Landspreading Request	\$500 mandatory	61~
	"Notification to Treat or Dispose" of Contaminated Soil/Water	none	99
	Injection/Infiltration Request	\$500 mandatory	63~
	Quarterly Report or Update	\$500 if review is requested	43, 43~
	O & M Form 4400-194	\$300 if review is requested	92, 192~
	Remedial Action Options Report	\$750 if review is requested	41, 41~
	Closure Review Request	\$750 mandatory	79~
	NR700.11 Simple Site Closure Request	\$250 mandatory	183~
	"Draft Deed Affidavit" or "Restriction required for close-out"	none	99
	"Well Abandonment Forms"	none	99
	Remedial Design Report	\$750 if review is requested	147, 148~
	Construction Documentation Reports	\$250 if review is requested	151, 152~
	Long Term Monitoring Plan	\$300 if review is requested	24, 25~
	Voluntary Party Liability Exemption (VPLE) Application	\$250 mandatory	662
	VPLE "Phase I/II Assessments" or "Additional Reports"	computed hourly	99
	Tax Cancellation Agreement	\$500 mandatory	654
	Negotiated Agreement	\$1000 mandatory	630
	Lender Assessment	\$500 mandatory	686
	Negotiation and Cost Recovery (municipalities only)	fee for each service, mandatory	90~
	General Liability Clarification Request	\$500 mandatory	684
	Lease Letter Request - Single Property	\$500 mandatory	646
	Lease Letter Request - Multiple Properties	\$1000 mandatory	646
	Request for Other Technical Assistance	\$500 mandatory	90~
	Other (please describe)		

* Closure reports for sites where no releases have been detected should be sent directly to "Clean Closures" c/o DNR Remediation & Redevelopment Program, P.O. Box 7921, Madison WI 53707 letter of transmittal.doc 2/24/99

Remarks: PLS. TRANSFER TO NANCY KOCHIS ASAP.

THANKS PETE.

March 16, 1999

Ms. Nancy Kochis
 Wisconsin Department of Commerce
 101 W. Pleasant Street
 Suite 205
 Milwaukee, WI 53212-3939

Re: Serigraph, Inc., 760 Indiana Avenue, West Bend, WI 53095
 FID #: 267083850; BRRTS #: 03-67-001408. WDCOM #: 53095-4036-60.
 Advent Project #: 95036.02.

Dear Nancy:

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Advent Environmental Services, Inc.

10845 N. Buntrock Ave. 64W
 Mequon, WI 53092
 414-238-1998
 1-800-880-1998
 Fax 414-238-1988

5110 Fairview Dr., Suite A
 Eau Claire, WI 54701
 715-831-1530
 1-800-530-1520
 Fax 715-831-1531

7520C Hwy 51 South
 Minocqua, WI 54548
 715-356-9980
 1-888-357-9980
 Fax 715-358-2582

Page Two
Serigraph, Inc.

The results of the site investigation and remediation indicate that the vast majority of contaminated soil has been removed and groundwater has not been significantly impacted. No environmental factors exist at this site and to the extent possible, this release has been investigated and remediated.

The only remaining area of soil contamination is the small volume of contaminated soil near the northwest corner of the building. Based on the soil plume margin we documented during the remedial excavation, we estimate that there are approximately 40 cubic yards of DRO contaminated soil remaining against the west and north foundation walls at the northwest corner of the building. The volume of contaminated soil below the building foundation is minimal, because the building extends approximately eight feet below ground surface. The estimated area of remaining contaminated soil is shown of Figure 3.

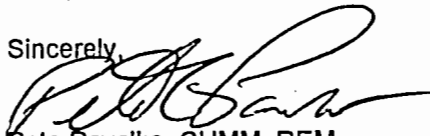
Advent recommends that the WDCOM close this site for the following reasons:

- We removed all of the accessible contaminated soil associated with this release;
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- The site no longer poses a threat to human health or the environment; and
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After the site is closed, we will abandon the two passive air vents and groundwater sump. Please let us know if we should also abandon the four monitoring wells, or if they should be left in-place for future monitoring by others.

If you have any questions or want to discuss this request for closure, please contact me at 238-1874, ext. 3016.

Sincerely,



Pete Pavalko, CHMM, REM
Environmental Scientist – Mequon Office

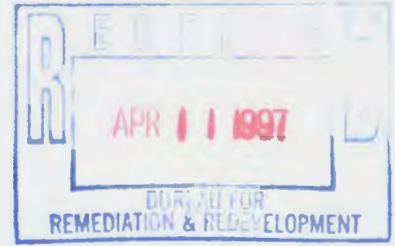
Cc: BRR Program, WDNR, P.O. Box 12436, Milwaukee, WI 53212
Tom Ravn, 3801 E. Decorah Road, West Bend, WI 53095

95036closure.1



21 Feb 97

WASH Co. LUST
267 083850



State of Wisconsin
Dept. of Natural Resources
Bureau of Solid and Hazardous Waste Mgt.
Box 8094
Madison, WI 53708

Paul Hagmann
Hazardous Materials Coordinator
Serigraph, Inc.
2230 Stonebridge Circle
West Bend, WI 53095

Subj.: Updated Spill Response Policy

To Whom It May Concern,

Enclosed is an updated Spill Response policy for all of the Serigraph, Inc. facilities. Please dispose of all prior dated versions of this document to eliminate any confusion between the two versions.

If you should have any questions concerning this matter, please call me at 335-7472.

Sincerely,

Paul F. Hagmann
Haz. Matls. Coord.

D4/agencies/wdnr/wdnr01.doc

- **CONTROL OF RELEASES OF HAZARDOUS MATERIALS**
FEBRUARY 14, 1997

DESCRIPTION OF FACILITIES AND MATERIALS

Serigraph Incorporated operates six facilities in the West Bend area. These facilities include Plant 1, located at 760 Indiana Ave., Plant 2, located at 3701 E. Decorah Rd., Plant 3, located at 603 Hi Mount Rd., Plant 4, located at 2230 Stonebridge Circle, Plant 6, located at 1020 Schoenhaar Dr., and a warehouse and fulfillment center located in a portion of the West Bend Commercial Warehouse, 3321 Hwy. D.

PLANT 1

MATERIALS USED

This 45,000 square foot facility houses corporate and manufacturing offices, prepress operations, and offset printing functions. Materials used include photographic supplies such as film, fixer and developer, ultra violet cured (UV) inks, fountain solutions, and solvents. UV inks consist of acrylated monomers and oligomers. Fountain solutions are comprised of water and isopropanol or glycol ethers. Solvents include aqueous solutions and potentially small amounts (< 25 gallons) of petroleum based combustible or flammable solvents. This facility also consists of two smaller buildings known as the Mill and the Annex. The Mill located at 110 Decorah Rd., houses maintenance, marketing samples and miscellaneous storage. The Annex located at 111 Decorah Rd., contains warehousing for plastic stock and MIS offices. These two buildings are contiguous with Plant 1 and are considered a part of that facility. See Appendix A.

WASTE MATERIALS

This facility is classified as a large quantity hazardous waste generator. Common wastes are listed in Appendix B.

PLANT 2

MATERIALS USED

An 89,000 square foot facility, Plant 2 includes manufacturing offices, R & D and engineering offices, material warehouse and screen printing. Materials found in the facility include plastic stock, solvent based, waterborne (WB), and UV inks, petroleum based solvents, and liquid nitrogen. In addition, there are four bulk flammable solvent tanks totaling 3,250 gallons located on the south side of the building. See Appendix A.

WASTE MATERIALS

This facility is classified as a large quantity hazardous waste generator. Common wastes are listed in Appendix B.

PLANT 3

MATERIALS USED

A 42,000 square foot facility, Plant 3 includes manufacturing offices, and screen printing. Materials found in the facility include plastic stock, solvent based, WB, and UV inks, and petroleum based solvents See Appendix A.

WASTE MATERIALS

This facility is classified as a large quantity hazardous waste generator. Common wastes are listed in Appendix B.

PLANT 4

MATERIALS USED

A 38,000 square foot facility, Plant 4 includes manufacturing offices, and screen printing. Materials found in the facility include plastic stock, solvent based, WB, and UV inks, and petroleum based solvents See Appendix A.

WASTE MATERIALS

This facility is classified as a large quantity hazardous waste generator. Common wastes are listed in Appendix B.

PLANT 6

MATERIALS USED

This 6,000 square foot facility houses post printing operations such as cutting and laminating. Materials found in the facility include plastic stock laminates and small quantities (> 25 gallons) of petroleum based solvents. See Appendix A.

WASTE MATERIALS

This facility is not a generator of hazardous waste.

W.B. COMMERCIAL WAREHOUSE

MATERIALS USED

This 20,000 square foot facility occupies a portion of the West Bend Commercial Warehouse. It consists of storage of finished plastic goods, a small office, and a kit packaging area known as fulfillment. Very small quantities of petroleum based solvents may be found in the facility. The facility also has liquid petroleum tanks which are used for forklifts. See Appendix A.

WASTE MATERIALS

This facility is not a generator of hazardous waste.

POLICY

DEFINITION

A hazardous material shall be any material which poses a danger to health, the environment, or property.

A hazardous waste shall be any waste which may pose a hazard if handled improperly.

A spill shall be defined as any uncontrolled release of a material.

An incidental spill shall be any material less than one gallon in quantity, is not a risk to health, the environment, or property, and is not a listed extremely hazardous substance.

A minor spill shall be any hazardous material of more than one gallon and less than 5 gallons, is not a risk to health, the environment, or property, and is not a listed extremely hazardous substance.

A major spill shall be any material more than five gallons in quantity, or a material that poses a risk to health, the environment, or property, or a material which is listed as an extremely hazardous substance or any hazardous waste.

An extremely hazardous substance (EHS) shall be any material which is listed in SARA SECTION 302, EXTREMELY HAZARDOUS SUBSTANCES.

RESPONSE

STAFFING

Any facility which is classified as a large quantity generator of hazardous waste, while the facility is in operation and operating in a manner in which a spill could occur, shall have a First Responder on site at all times during the operation of the facility.

Any facility which is a large quantity generator of hazardous waste shall have a person trained in hazardous waste activities on site at all times while the facility is engaged in hazardous waste activities such as, but not limited to, transporting, filling, labeling, or shipping.

Any facility which has the potential for a minor spill or greater, while the facility is in operation and operating in a manner in which a spill could occur, shall have a First Responder on site or shall have access to a First Responder who shall be able to arrive at the facility within a reasonable period of time.

NOTE: A "reasonable period of time" is a time period which minimizes risk to persons, property, and/or the environment. While reasonable periods of time are dependent on the circumstances, time periods in excess of 30 minutes can generally be construed as being unreasonable.

REPORTING

GENERAL REPORTING - Any person who creates a spill or discovers a spill shall notify a supervisor. Spill reporting instructions are located in various areas of each facility. Spill response procedures can be found in the MSDS information area. Lists of spill emergency responders are located in the MSDS information area and on the facility employee bulletin board.

INCIDENTAL SPILL - Incidental spills need only be reported to a supervisor.

MINOR SPILL - A supervisor and a First Responder shall be notified for all minor spills.

MAJOR SPILL - A supervisor, a First Responder, and the Hazardous Materials Team shall be notified for all major spills.

REPORTING TO AGENCIES - In the event that an assessment indicates that a spill could result in a fire or explosion, could threaten human health or the environment outside of the facility, and that evacuation of the facility or of local areas may be advisable, the Response Coordinator or his/her designee shall immediately contact the Local Emergency Planning Commission and the Department of Natural Resources.

<u>SITUATION</u>	<u>AGENCY</u>	<u>PHONE</u>	<u>FACILITY</u>
FIRE/POLICE	WEST BEND FIRE/POLICE DEPTS.	9-911	ALL PLANTS
ENVIRONMENTAL THREAT	LOCAL EMERGENCY PLANNING COMMISSION	335-4399	ALL PLANTS
	STATE EMERGENCY HOTLINE - DNR & SERB	1-800-943-0003	ALL PLANTS
DISCHARGE TO SEWER	WASTE WATER TREATMENT PLANT	335-3925	ALL PLANTS
HEALTH RISK OR INJURY	ST. JOSEPH'S HOSPITAL	334-5533	ALL PLANTS
SPILL TO DRAIN	WASTE WATER TREATMENT PLANT	335-3925	ALL PLANTS

RESPONSIBILITIES

EMERGENCY COORDINATOR - The emergency coordinator shall be responsible to assure that the following duties are accomplished.

An Emergency Coordinator is the individual who, on the scene, has the highest level of response training. The function of the Emergency Coordinator is to coordinate all spill response activities. An Emergency Coordinator shall relinquish his/her position when requested to do so when a person who possess a higher level of training arrives on the scene. An Emergency Coordinator shall relinquish his/her position to any outside emergency response governmental agency upon request.

1. Perform a risk assessment with respect to the spill to include source, amount, identification of material spilled and possible hazards to human health or the environment which may result from the discharge, fire, or explosion accounting for both the direct and indirect effects of the discharge, fire, or explosion such as the effects of any toxic, irritating, or asphyxiating gasses that are generated, or the effects of any hazardous surface water runoff from water to chemical agents used to control fire and heat induced explosions.
2. Establish security requirements around the spill site taking all reasonable measures necessary to ensure that fires, explosions, and discharges do not occur, reoccur, or spread to other areas. These measures shall include, where applicable, the stopping of processes or operations.
3. Determine containment procedures so that possible hazards to human health and/or the environment are minimized.
4. Establish cleanup procedures.
5. Establish proper containerization procedure for materials generated as a result from a spill ensuring that no incompatible wastes are stored together and that no material is disposed of until the proper disposal methods have been determined by the Environmental Engineering Department.
6. Determine proper decontamination procedures for equipment and personnel involved in responding to the spill.
7. Provide for the safety of response personnel.
8. Authorize evacuation of the facility as deemed necessary by the coordinator.
9. Assure that an evacuation of the facility is properly executed.
10. Contact external emergency agencies as necessary.
11. File all necessary reports.

EMERGENCY COORDINATORS ON CALL:

	<u>Name</u>	<u>Address</u>	<u>Phone Home/Work</u>
1.)	Paul Hagmann	5877 Sand Dr., West Bend	334-1051/335-7474
2.)	Tom Ravn	3815 Hwy. I, Saukville	675-6690/335-7343
3.)	Dave Lang	5743 Sand Dr., West Bend	338-9746/335-7331

HAZARDOUS MATERIALS TEAM

Training requirements - 24 hours with annual updating.

Hazardous Team members are persons who assume an aggressive role in responding to material spills. HM team personnel may direct the response for any type of spill.

1. A HM team person will serve as emergency coordinator for all major spills.
2. The HM team shall be responsible for the response to all major spills.

FIRST RESPONDER - OPERATIONS LEVEL

Training requirements - 8 hours with annual updating.

A First Responder - Operations Level is an individual who is trained in hazardous material release response and may respond to such incidents. The primary purposes of a First Responder-Operations Level is to provide response for incidental and /or minor spills, and to act in a defensive posture toward major spills.

1. A First Responder/Operations level (FRO) shall be utilized in responding to all minor spills or spills of greater magnitude.
2. A FRO shall serve as the coordinator for minor spills.
3. FRO(s) shall be utilized for the containment and cleanup of all minor spills.
4. For major spills, a FRO shall serve as temporary emergency coordinator until a member of the Hazardous Materials (HM) Team arrives at the scene of the spill.
5. For major spills and other emergencies involving the HM team, FRO shall serve in a supporting role to the HM team.
6. In the event, that there is more than one FRO at the scene of a spill, the FROs shall select a leader from amongst them to coordinate response activities.

FIRST RESPONDER - AWARENESS LEVEL

Training requirements - 2 hours with annual updating.

A First Responder - Awareness Level is an individual who is trained to initiate an emergency response sequence in the event of a hazardous substance release. The primary duties of a First Responder - Awareness Level is to secure the contaminated area, and summon assistance.

1. In the event that there is no FRO at the facility, a First Responder/Awareness (FRA) level shall direct response for all minor or greater spills.
2. The FRA shall perform a risk assessment of the spill.
3. The FRA shall attempt to contain the spill.
4. For minor spills the FRA shall secure the area to prevent entry and summon an FRO or HM team.
5. For major spills, the FRA shall secure the area to prevent entry and summon the HM team.
6. In the event that reporting to an outside agency is required, the FRA shall implement a evacuation plan and contact the appropriate agency(s).
7. In the event that there is more than one FRA at the scene of the spill, the FRAs shall select one as leader from amongst them to coordinate response activities.

MOBILIZATION

INTERNAL RESPONSE - Instructions for contacting First Responders and the Haz Mat team shall be placed in various areas throughout the facilities. A list of current First Responders shall be kept posted on the employee bulletin board of each facility. A full copy of the hazardous material response policy shall be kept in the facility MSDS information area. The name of a chief Emergency Coordinator and an alternate Emergency Coordinator shall be placed on the employee bulletin board of each facility. The Emergency Coordinator posting shall be updated weekly.

EXTERNAL RESPONSE - In the event that in the opinion of a First Responder or Haz Mat team member that there is insufficient internal resources to respond to a material, that person shall at their discretion have the authority to request assistance from an external resource. A First Responder shall make a reasonable effort to consult with a Haz Mat team member prior to contacting an outside resource.

OUTSIDE RESOURCE
Local Emergency Planning Commission
414-335-4399

EXTERNAL AGENCIES - Emergency response organizations shall receive a copy of Serigraph's Emergency Response Policy. Each organization shall receive revisions to the policy as they occur. A log of response procedures given to emergency response shall be maintained by Environmental Engineering. A list of emergency response agencies and their telephone numbers shall be kept in MSDS information area of each facility.

EVACUATION

In the event that the individual coordinating emergency response determines that either a full or partial evacuation of the facility is warranted, that person or their designee shall execute the procedure. Fire Suppression Evacuation Routes will be utilized for building evacuation. The public address system of the facility shall be used to notify employees. The evacuation announcement shall contain the following elements.

1. A statement that a spill has occurred.
2. Location of the spill.
3. Area(s) to be evacuated.
4. Request for employees to leave the facility.
5. Areas to be avoided during the evacuation.

The entire evacuation announcement shall be repeated twice.

EMERGENCY RESPONSE MATERIALS.

Each facility which is classified as a hazardous waste generator shall maintain an inventory of emergency equipment which shall include the following.

1. Class B and or Class C fire extinguishers.
(Plants 2, 3, and 4, have Class D fire extinguishers in addition to B & C.)
2. Non-sparking shovels.
3. Brooms.
4. Drain plugging material.
5. Adsorbents.
6. Booms.
7. Personal protective equipment for two people to include half face respirator, gloves, goggles, and Tyvec suits.
8. PH measuring device.

Materials to be used by the Haz Mat team shall be located at Plant 2. These materials shall include the following.

1. Non-adsorbent suits with hood.
2. Drum repair kit.
3. Air monitoring equipment.
4. Decontamination shower.
5. Full face respirators.
6. Surface water containment boom.
7. Self Contained Breathing Apparatus (SCBA)

FINAL REPORTING

All minor and major spills shall be reported to the Environmental Engineering Department. The Environmental Engineering Department shall be responsible for the filing of internal and required external reports associated with spills. A report shall be submitted to the operator of the facility within 24 hours after the occurrence of a minor or major spill. The report shall contain the following information.

1. Description of materials spilled.
2. Cause of the incident.
3. Summary of response to the incident.
4. Corrective action to prevent reoccurrence.

CORRECTIVE ACTION

The operator of the facility shall take the appropriate action necessary to minimize the potential for any spill reoccurrence.

RESART OF OPERATIONS

In the event that it is necessary to shut down operation(s) due to an incident, the highest ranking Serigraph responder at the time of the termination of the response shall be responsible for notifying the appropriate agency(s) that the facility intends to resume operations. Notification shall be by telephone or by other appropriate means. The agency(s) notified shall be the agency(s) that were notified of the incident and/or were involved in response to the incident.

IN CASE OF A MATERIAL SPILL

**IMMEDIATELY CONTACT YOUR SUPERVISOR
AND
SPILL FIRST RESPONDER**

(SEE LIST LOCATED ON COMPANY BULLETIN BOARDS)

FOR MAJOR SPILLS CALL HAZ-MAT TEAM

1st Shift

2nd Shift

3rd Shift

Env. Eng. Extension 7472,7343 or 7532

24 Hr. Emergency 9 (414)838-8644

24 Hr. Emergency 9 (414)838-8644

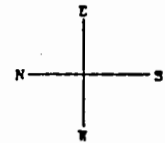
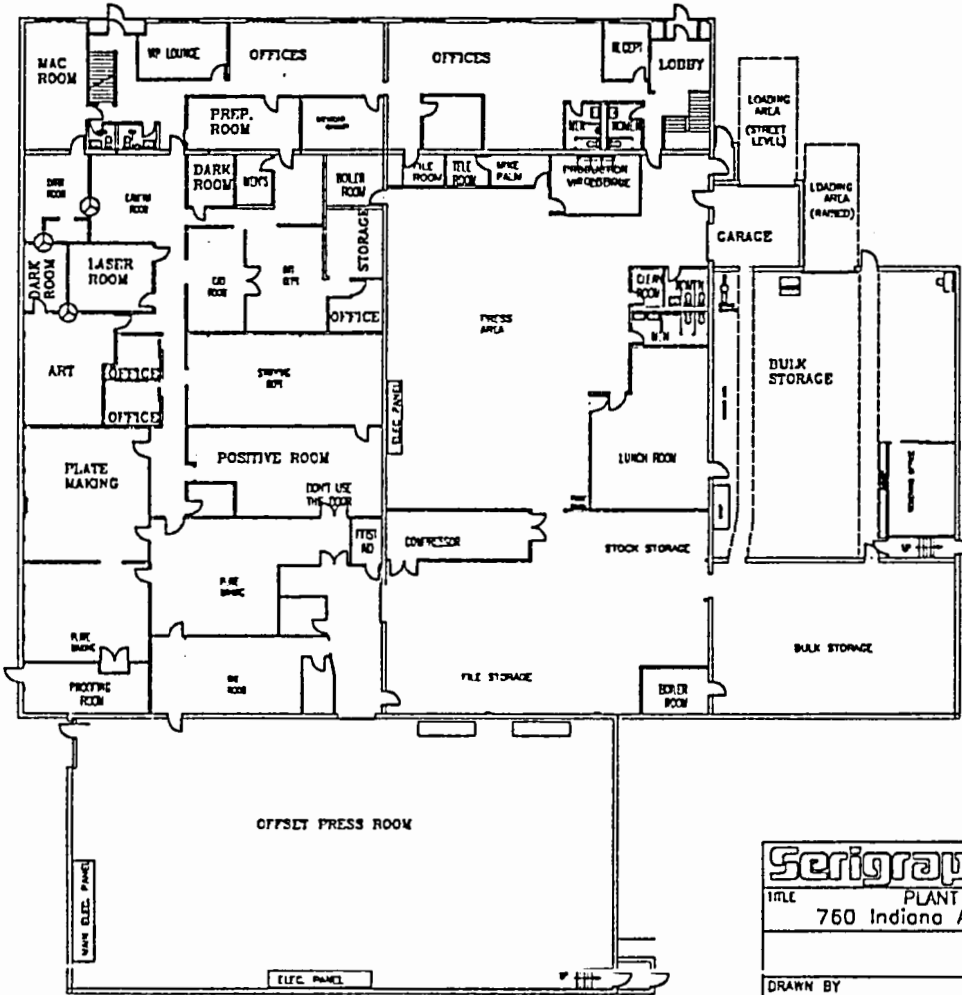
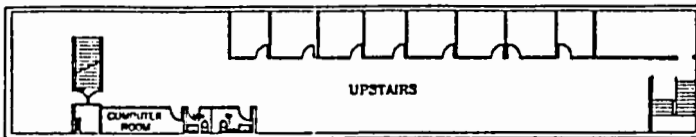
(24 Hr. Emergency Phone instructions: Dial number, at the sound of the BEEP, dial in the extension you wish the Haz-Mat Responder to call you at. Hang up and wait for the return call from Haz-Mat Responder.)

HAZ-MAT TEAM MEMBERS

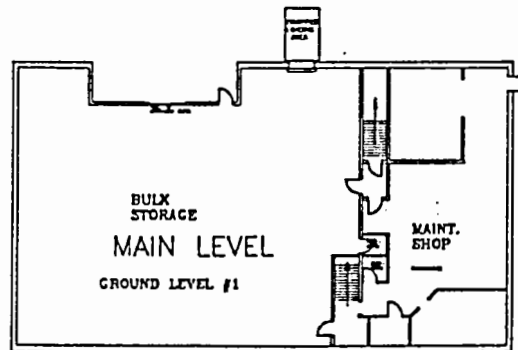
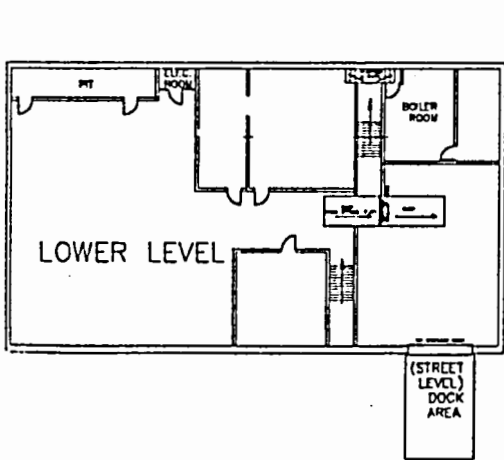
<u>MEMBER NAME</u>	<u>WORK PHONE</u>	<u>HOME PHONE</u>
Paul Hagmann	7472	334-1051
Tom Ravn	7343	675-6690
Dave Lang	7331	338-9746
Shrikant Bhat	7532	(414)354-8521
Fred Strobel	7345	338-3843
Kurt Eschenfelder	7607	334-1660
Karl Meyer	Page at Plt. 1 (Offset)	629-5249
Mike Viscuso	Page at Plt. 1 (Receiving)	334-7508
Mark Beck	Page at Plt. 2 (Web)	338-9601
Ron Reese	Page at Plt. 2 (Delco)	(414)533-4822
Norm Zettler	Page at Plt. 3 (Die Cutting)	334-7514

APPENDIX A

FACILITY LAYOUT



Serigraph Inc.		
TITLE PLANT 1		
760 Indiana Ave.,		
DRAWN BY EJS		
CHECKED BY		
SCALE	TOLER.	DATE 8/11/84



Actual Location of Mill Bldg on Plot

Serigraph Inc.		
TITLE MILL BUILDING		
110 E. DECORAH RD.		
DRAWN BY EJS		
CHECKED BY		
SCALE	TOLER.	DATE 8/11/84

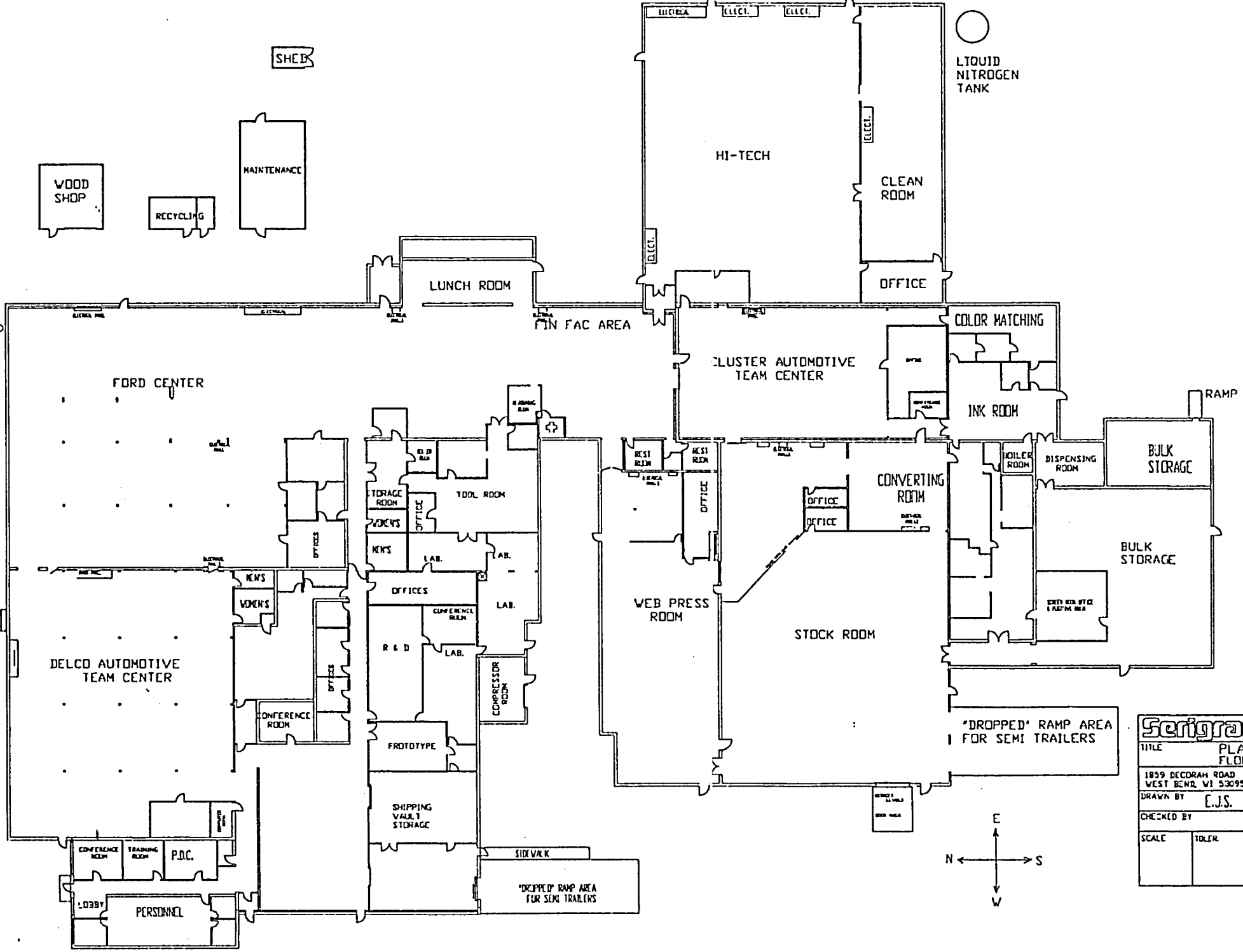
PLANT 1 - POP

PLANT HAZARDS

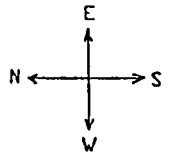
- 1.0) ACIDS
- 2.0) BASES
- 3.0) GASES - (COMPRESSED)
- 4.0) MAINTENANCE ITEMS - PAINTS, CLEANERS, ETC.
- 5.0) OILS
- 6.0) PHOTOGRAPHIC CHEMICALS
- 7.0) UV OFFSET INKS
- 8.0) UV OFFSET SOLVENTS
- 9.0) UV SCREEN INKS

LOCATIONS w/HAZARDS

- | | | | |
|----|---------|----|------------------------|
| A. | 1,2,6 | I. | 4,5,7,8 |
| B. | 1,2,6 | J. | 7,8 |
| C. | 1,2,6 | K. | 3 (possibly - 6,7,8,9) |
| D. | 1,2,6 | L. | 4,5,8 |
| E. | 1,2,6 | M. | 1 |
| F. | 1,2,6 | N. | 4 |
| G. | 7,8,9 | O. | 3 |
| H. | 4,5,7,8 | P. | 1,3,4,5 |



Scitigraph, Inc.		
TITLE PLANT 2 FLOOR PLAN		
1859 DECORAH ROAD WEST BEND, WI 53095		
DRAWN BY E.J.S.		
CHECKED BY		
SCALE	TOLER.	DATE 12/21/84



PLANT 2 - AUTOMOTIVE

PLANT HAZARDS

- 1.0) ACIDS
- 2.0) BASES
- 3.0) CATALYST MATERIALS
- 4.0) CONVENTIONAL SOLVENT BASE SCREEN INKS
- 5.0) CONVENTIONAL WATER BASE SCREEN INKS
- 6.0) GASES (COMPRESSED)
- 7.0) CRYOGENIC LIQUID (NITROGEN)
- 8.0) MAINTENANCE ITEMS - PAINTS, CLEANERS, ETC.
- 9.0) OILS
- 10.0) SOLVENTS
- 11.0) UV SCREEN INKS
- 12.0) CLASS "D" MATERIALS

LOCATIONS w/HAZARDS

- | | | | |
|----|-------------|----|--------------------|
| A. | 3,4,5,10,11 | J. | 12 |
| B. | 1,6,8,9,10 | K. | 10 |
| C. | 10,11 | L. | 1 |
| D. | 7 | M. | 4,5,10 |
| E. | 3,4,5,10,11 | N. | 1,2,3,4,5,10,11,12 |
| F. | 3,4,5 | O. | 10 |
| G. | 10 | P. | 1,2,3,4,5,10,11,12 |
| H. | 10 | Q. | 3,4,5,10,11 |
| I. | 3,4,5,10,11 | | |

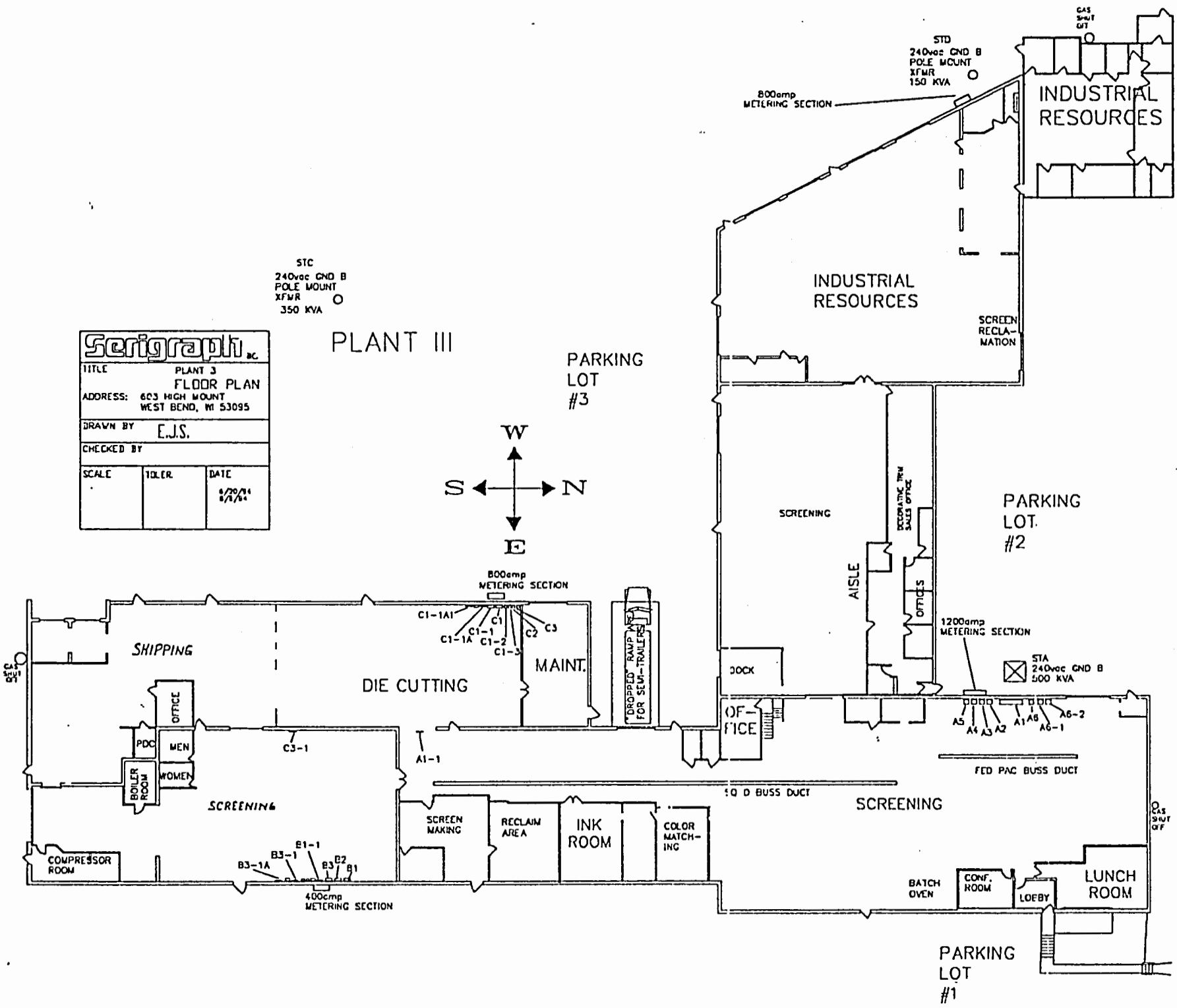
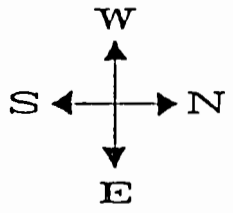
Scenigraph INC.

TITLE		
PLANT 3 FLOOR PLAN		
ADDRESS: 603 HIGH MOUNT WEST BEND, WI 53095		
DRAWN BY E.J.S.		
CHECKED BY		
SCALE	TOLER.	DATE
		1/20/11

STC
240vac GND B
POLE MOUNT
XFMR
350 KVA

PLANT III

PARKING LOT #3



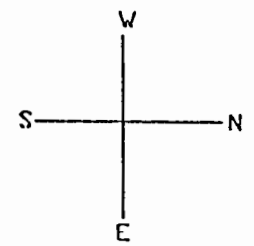
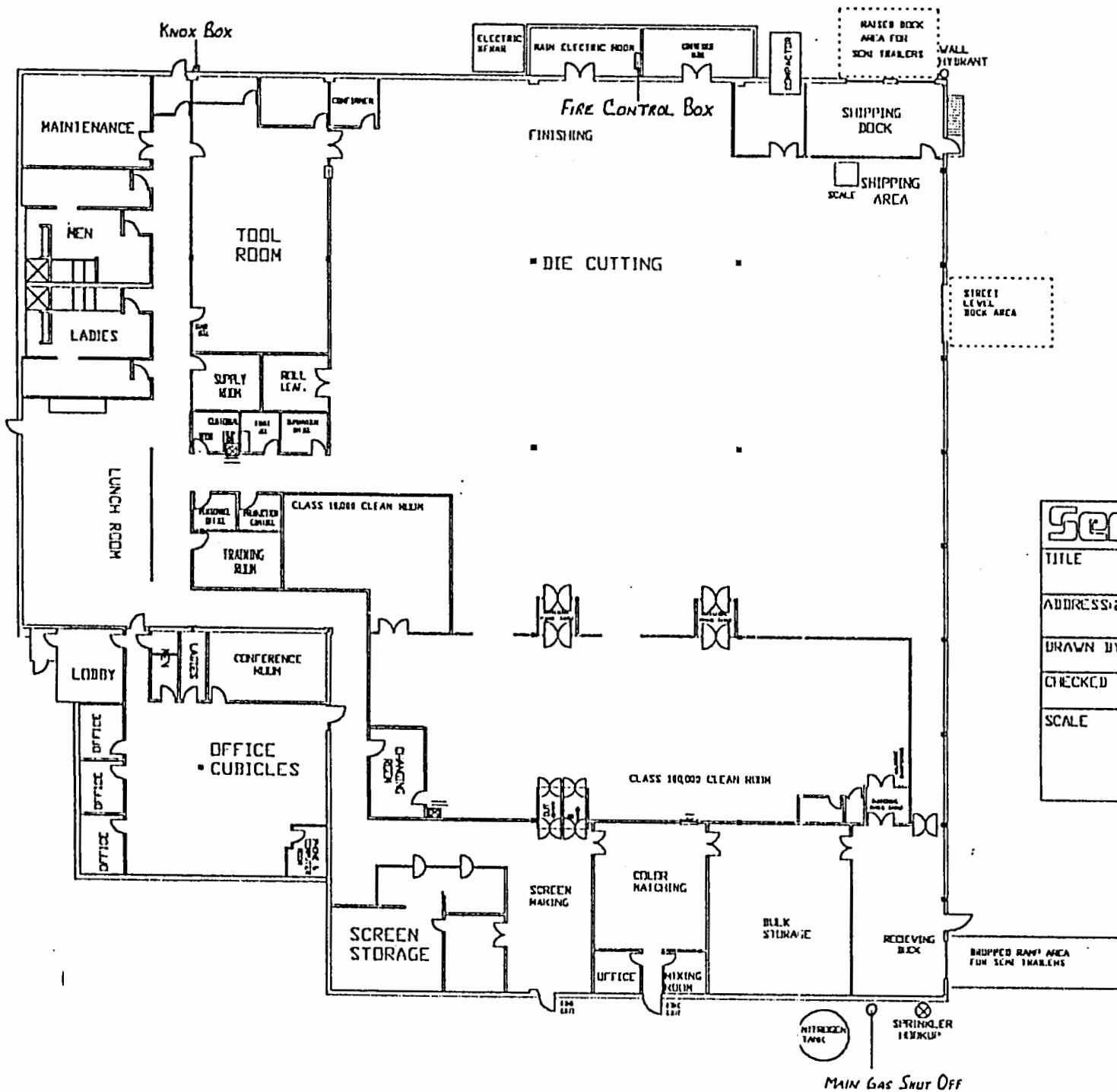
PLANT 3 - DECORATIVE TRIM

PLANT HAZARDS

- 1.0) ACIDS
- 2.0) BASES
- 3.0) CATALYST MATERIALS
- 4.0) CONVENTIONAL SOLVENT BASE SCREEN INKS
- 5.0) CONVENTIONAL WATER BASE SCREEN INKS
- 6.0) GASES
- 7.0) MAINTENANCE ITEMS - PAINTS, CLEANERS, ETC.
- 8.0) OILS
- 9.0) SOLVENTS
- 10.0) UV SCREEN INKS
- 11.0) CLASS "D" MATERIALS

LOCATIONS w/HAZARDS

- A. 3,4,5,9,10
- B. 3,4,5,9,10
- C. 11
- D. 3,4,5,9,10
- E. 1,2,9,
- F. 1,2,6,7,8,9
- G. 1



Serigraph inc.		
TITLE PLANT 4 FLOOR PLAN		
ADDRESS: 2230 STONEBRIDGE CIRCLE WEST BEND, WI 53095		
DRAWN BY E.J.S.		
CHECKED BY		
SCALE	TOLER	DATE 6/2/74

PLANT 4 - ACE

PLANT HAZARDS

- 1.0) ACIDS
- 2.0) BASES
- 3.0) CATALYST MATERIALS
- 4.0) CONVENTIONAL SOLVENT BASE SCREEN INKS
- 5.0) CONVENTIONAL WATER BASE SCREEN INKS
- 6.0) GASES (COMPRESSED)
- 7.0) CRYOGENIC LIQUID (NITROGEN)
- 8.0) MAINTENANCE ITEMS - PAINTS, CLEANERS, ETC.
- 9.0) OILS
- 10.0) SOLVENTS
- 11.0) UV SCREEN INKS
- 12.0) CLASS "D" MATERIALS

LOCATIONS w/HAZARDS

- A. 8,9,10
- B. 10
- C. 10
- D. 6,10,11
- E. 1
- F. 3,4,5,10
- G. 2,10
- H. 3,4,5,10,11
- I. 12
- J. 2,3,4,5,9,10,11
- K. 7

APPENDIX B

WASTE CLASSES

P.O.P - PLANT 1 WASTE INSPECTION FORM

DATE: _____
TIME: _____

INSPECTED BY: _____

MATERIAL IDENTIFICATION KEY

HAZARDOUS WASTES

R.Q. WASTE, FLAMMABLE LIQUID, N.O.S.
(Isopropyl Alcohol, Toluene)
3, UN 1993, PG II (ERG #: 128)
EPA Waste Codes #: D001, D018
Offset Solvent - Auth. #: 106765-M-

R.Q. WASTE, CORROSIVE LIQUID, N.O.S.
(Aluminum Chloride, Acetic Acid)
8, UN 1760, PG II (ERG #: 154)
EPA Waste Code #: D011
Spent DuCare Recycled Fixer

R.Q. HAZARDOUS WASTE, LIQUID, N.O.S.
(Zinc, Chrome)
9, NA 3082, PG III (ERG #: 171)
EPA Waste Code #: D007
Fountain Solution - BP0522

R.Q. HAZARDOUS WASTE, LIQUID, N.O.S.
(Ethylene Glycol)
9, NA 3082, PG III (ERG #: 171)
EPA Waste Code #: D018
Waste Antifreeze

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
(Phosphoric Acid)
8, UN 3264, PG III (ERG #: 154)
EPA Waste Code #: D002
Kodak, Polymatic Plate Finisher - Auth. #:

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
(Potassium Hydroxide)
8, UN 3266, PG II (ERG #: 154)
EPA Waste Code #: D002
Kodak, Production Series Machine Developer - Auth. #:

NON-HAZARDOUS/DOT REGULATED WASTES

NON-REGULATED MATERIAL
Offset UV Ink
Hydrite Auth. #: 106788-M-

NON-REGULATED MATERIAL
Offset Blanket Wash
Hydrite Auth. #: 112250-M-

NON-REGULATED MATERIAL
Waste Oil
Rineco Auth. #: 9606-06219

NON-REGULATED MATERIAL
Kodak Production Series Pre-Bake Solution
Auth. #:

NON-REGULATED MATERIAL
Neutralized Kodak Production Series Developer
AETS Auth. #: WIP231756

NON-REGULATED MATERIAL
Neutralized Kodak Polymatic Plate Finisher
Auth. #:

POTASSIUM HYDROXIDE SOLUTION
8, UN 1814, PG II (ERG#: 154)
DuCare Recycled Developer

POTASSIUM HYDROXIDE SOLUTION
8, UN 1814, PG II (ERG#: 154)
DuCare Recycled High Contrast Developer

GENERATOR INFORMATION

Serigraph Inc.
760 Indiana Avenue
West Bend, WI 53095

(414) 838-8644

WID982623431

24 HOUR EMERGENCY PHONE NUMBER

EPA ID NUMBER

LABELING

PROPER LABEL	YES ___	NO ___
CORRECT DOT NAME	YES ___	NO ___
CORRECT HAZARD CLASS & UN/NA #	YES ___	NO ___
CORRECT GENERATOR INFORMATION	YES ___	NO ___
CORRECT EPA ID # & EPA WASTE #	YES ___	NO ___
ACCUMULATION START DATE	YES ___	NO ___
CORRECT AUTHORIZATION #	YES ___	NO ___
NAME STENCILED ON DRUM	YES ___	NO ___
ALL NON-WASTE INFORMATION REMOVED	YES ___	NO ___

DRUM CONDITION

FREE OF RUST	YES ___	NO ___
FREE OF LEAKS	YES ___	NO ___
FREE OF DENTS	YES ___	NO ___
FREE OF CONTAMINATION - (CLEAN)	YES ___	NO ___

COMMENTS/REMARKS

MATERIAL ITEM & FAULT

1. _____

2. _____

3. _____

4. _____

5. _____

CORRECTIVE ACTION TAKEN

1. _____

2. _____

3. _____

4. _____

5. _____

AUTO - PLANT 2 WASTE INSPECTION FORM

TIME: _____ DATE: _____ INSPECTED BY: _____

TIME: _____ DATE: _____ INSPECTED BY: _____

MATERIAL IDENTIFICATION KEY

HAZARDOUS WASTES

R.Q. WASTE, PRINTING INK
3, UN 1210, PG II (ERG #: 129)
EPA Waste Codes #: F005, F003, D001, D018, D035
Conv. Screen Ink - Auth. #: 9604-05244
(Hydrite Auth. #: 8079-M)

R.Q. WASTE, PRINTING INK
3, UN 1210, PG III (ERG #: 129)
EPA Waste Code #: D001
Water Base Screen Ink - Auth. #: 9602-03409
(Hydrite Auth. #: 16789-M)

R.Q. WASTE, FLAMMABLE LIQUID, N.O.S.
(n-Propanol, Toluene)
3, UN 1993, PG II (ERG #: 128)
EPA Waste Codes #: F005, D001, D018
UV Screen Ink - Auth. #: 11751-M-

R.Q. WASTE, FLAMMABLE LIQUID, N.O.S.
(Cyclohexanone, Ethyl Acetate)
3, UN 1993, PG II (ERG #: 128)
EPA Waste Codes #: F005, F003, D001, D018
S/S Solv/Parts Clnr. (Stod Solv) - Auth. #: 112474-M-

R.Q. HAZARDOUS WASTE, LIQUID, N.O.S.
(Propylene Glycol)
9, NA 3062, PG III (ERG #: 171)
EPA Waste Code #: D018
Waste Antifreeze

R.Q. WASTE, FLAMMABLE LIQUID, N.O.S.
(Isopropyl Alcohol, Toluene)
3, UN 1993, PG II (ERG #: 128)
EPA Waste Codes #: F005, D001, D018
PIL 1 O/S Cntrfg. Solv. - Auth. #: 101804-M-

R.Q. WASTE, FLAMMABLE LIQUID, N.O.S.
(Ethyl Acetate, Heptane)
3, UN 1993, PG II (ERG #: 128)
EPA Waste Codes #: F005, F003, D001, D018
Centrifuge Solvent - Auth. #: 9015-M-
(Millsolv Auth. #: 041296M)

WASTE, COMBUSTIBLE LIQUID, N.O.S.
(Petroleum Distillates)
Combustible Liquid, NA 1993, PG III (ERG #: 128)
EPA Waste Code #: D018
Parts Clnr. Blend 4637 - Auth. #: 106855-M-

R.Q. WASTE, FLAMMABLE SOLIDS, ORGANIC, N.O.S.
(Xylene, Toluene)
4.1, UN 1325, PG III (ERG #: 133)
EPA Waste Codes #: F005, F003, D001, D018
Dried P-Matte - Auth. #: 9505-04167
(Hydrite Auth. #: 117016-M)

NON-REGULATED WASTES

NON-REGULATED MATERIAL
Spent Absorbents & Pads (Oil soaked only)
Rineco Auth. #: 9604-04461

NON-REGULATED MATERIAL
Used Rags
Rineco Auth. #: 9602-02881

NON-REGULATED MATERIAL
Waste Oil
Rineco Auth. #: 9606-06220

GENERATOR INFORMATION

Serigraph Inc.
3701 E. Decorah Road
West Bend, WI 53095

(414) 838-8644

24 HOUR EMERGENCY PHONE NUMBER

WIT560011215

EPA ID NUMBER

SPE-002-F
REV. E 10/21/86

autoinsp.doc

GENERAL WASTE STREAMS

LABELING

PROPER LABEL	YES ___	NO ___
CORRECT DOT NAME	YES ___	NO ___
CORRECT HAZARD CLASS & UN/NA #	YES ___	NO ___
CORRECT GENERATOR INFORMATION	YES ___	NO ___
CORRECT EPA ID # & EPA WASTE #	YES ___	NO ___
ACCUMULATION START DATE	YES ___	NO ___
CORRECT AUTHORIZATION #	YES ___	NO ___
NAME STENCILED ON DRUM	YES ___	NO ___
ALL NON-WASTE INFORMATION REMOVED	YES ___	NO ___

DRUM CONDITION

FREE OF RUST	YES ___	NO ___
FREE OF LEAKS	YES ___	NO ___
FREE OF DENTS	YES ___	NO ___
FREE OF CONTAMINATION - (CLEAN)	YES ___	NO ___

COMMENTS/REMARKS

MATERIAL ITEM & FAULT

CORRECTIVE ACTION TAKEN

1. _____

2. _____

3. _____

1. _____

2. _____

3. _____

CENTRIFUGE WASTE

LABELING

PROPER LABEL	YES ___	NO ___
CORRECT DOT NAME	YES ___	NO ___
CORRECT HAZARD CLASS & UN/NA #	YES ___	NO ___
CORRECT GENERATOR INFORMATION	YES ___	NO ___
CORRECT EPA ID # & EPA WASTE #	YES ___	NO ___
ACCUMULATION START DATE	YES ___	NO ___
CORRECT AUTHORIZATION #	YES ___	NO ___
NAME STENCILED ON DRUM	YES ___	NO ___
ALL NON-WASTE INFORMATION REMOVED	YES ___	NO ___

DRUM CONDITION

FREE OF RUST	YES ___	NO ___
FREE OF LEAKS	YES ___	NO ___
FREE OF DENTS	YES ___	NO ___
FREE OF CONTAMINATION - (CLEAN)	YES ___	NO ___

COMMENTS/REMARKS

MATERIAL ITEM & FAULT

CORRECTIVE ACTION TAKEN

1. _____

2. _____

3. _____

1. _____

2. _____

3. _____

SOG - PLANT 3 WASTE INSPECTION FORM

DATE: _____
TIME : _____

INSPECTED BY: _____

MATERIAL IDENTIFICATION KEY

HAZARDOUS WASTES

R.Q. WASTE, PRINTING INK
3, UN 1210, PG II (ERG #: 129)
EPA Waste Code #: D001, D018
Conv. Screen Ink - Auth. #: 9505-04322
(Hydrite Auth. #: 112238-M-)

R.Q. WASTE, PRINTING INK
3, UN 1210, PG II (ERG #: 129)
EPA Waste Code #: D001, D018, D035
UV Screen Ink - Auth. #: 112256-M-

R.Q. WASTE, FLAMMABLE SOLIDS, ORGANIC, N.O.S.
(Xylene, Toluene)
4.1., UN 1325, PG III (ERG #: 133)
EPA Waste Code #: F005, F003, D001, D018
P-Matte/KC/9600 Ink - Auth. #: 9505-04171

NON-REGULATED MATERIALS

NON-REGULATED MATERIAL
Waste Oil
Rineco Auth. #: 9606-06221

GENERATOR INFORMATION

Senigraph Inc.
503 Hi Mount Road
West Bend, WI 53095

24 HOUR EMERGENCY PHONE NUMBER

(414) 838-8644

EPA ID NUMBER

WID982626327

LABELING

PROPER LABEL	YES ___	NO ___
CORRECT DOT NAME	YES ___	NO ___
CORRECT HAZARD CLASS & UN/NA #	YES ___	NO ___
CORRECT GENERATOR INFORMATION	YES ___	NO ___
CORRECT EPA ID # & EPA WASTE #	YES ___	NO ___
ACCUMULATION START DATE	YES ___	NO ___
CORRECT AUTHORIZATION #	YES ___	NO ___
NAME STENCILED ON DRUM	YES ___	NO ___
ALL NON-WASTE INFORMATION REMOVED	YES ___	NO ___

DRUM CONDITION

FREE OF RUST	YES ___	NO ___
FREE OF LEAKS	YES ___	NO ___
FREE OF DENTS	YES ___	NO ___
FREE OF CONTAMINATION - (CLEAN)	YES ___	NO ___

COMMENTS/REMARKS

MATERIAL ITEM & FAULT

1. _____

2. _____

3. _____

4. _____

5. _____

CORRECTIVE ACTION TAKEN

1. _____

2. _____

3. _____

4. _____

5. _____

**ACE - PLANT 4
WASTE INSPECTION FORM**

DATE: _____
TIME: _____

INSPECTED BY: _____

MATERIAL IDENTIFICATION KEY

HAZARDOUS WASTES

R.Q. WASTE, PRINTING INK
3, UN 1210, PG II (ERG #: 129)
EPA Waste Codes #: D001, D018, D035
Conv. Screen Ink - Auth. #: 9505-04323
(Hydrite Auth. #: 112244-M-)

R.Q. WASTE, FLAMMABLE LIQUID, N.O.S.
(n-Butanol, Petroleum Distillate)
3, UN 1993, PG III (ERG #: 126)
EPA Waste Codes #: D001, D018
Adh/UV Screen Ink Mixture - Auth. #: 112242-M-

WASTE, COMBUSTIBLE LIQUID, N.O.S.
(Petroleum Distillate)
Combustible Liquid, NA 1993, PG III (ERG #: 126)
EPA Waste Code #: D018
Parts Clnr. Blend 4637 - Auth. #: 116383-M-

NON-REGULATED MATERIALS

NON-REGULATED MATERIAL
Waste Oil
Rineco Auth. #: 9606-06222

GENERATOR INFORMATION

Senigraph Inc.
2230 Stonebridge Circle
West Bend, WI 53095

24 HOUR EMERGENCY PHONE NUMBER

(414) 838-8644

EPA ID NUMBER

WID988636478

LABELING

PROPER LABEL	YES ___	NO ___
CORRECT DOT NAME	YES ___	NO ___
CORRECT HAZARD CLASS & UN/NA #	YES ___	NO ___
CORRECT GENERATOR INFORMATION	YES ___	NO ___
CORRECT EPA ID # & EPA WASTE #	YES ___	NO ___
ACCUMULATION START DATE	YES ___	NO ___
CORRECT AUTHORIZATION #	YES ___	NO ___
NAME STENCILED ON DRUM	YES ___	NO ___
ALL NON-WASTE INFORMATION REMOVED	YES ___	NO ___

DRUM CONDITION

FREE OF RUST	YES ___	NO ___
FREE OF LEAKS	YES ___	NO ___
FREE OF DENTS	YES ___	NO ___
FREE OF CONTAMINATION - (CLEAN)	YES ___	NO ___

COMMENTS/REMARKS

MATERIAL ITEM & FAULT

1. _____

2. _____

3. _____

4. _____

5. _____

CORRECTIVE ACTION TAKEN

1. _____

2. _____

3. _____

4. _____

5. _____



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Southeast District - Annex building

Post Office Box 12436

4041 N. Richards St.

Milwaukee, Wisconsin 53212

TELEPHONE: 414-961-2727

TELEFAX #: 414-961-2770

George E. Meyer
Secretary

January 30, 1995

File Ref: 1408

FID #: 267083850

ERR LUST

Mr. J. Thomas Ravn
Serigraph, Inc.
760 Indiana Ave.
P.O. Box 438
West Bend, WI 53095

RE: Serigraph, Inc. 760 Indiana Ave., West Bend, WI
Former Aboveground Storage Tank Farm

Dear Mr. Ravn:

I have completed a review of the case file for the subject site including correspondence (dated December 1, 1994) prepared by Advent Environmental Services, Inc. The correspondence contains the results of soil sampling conducted in September 1994.

Based on my review, the following items should be addressed as you consider various options for the site.

1. The location and volume of remaining contaminated soil must be more accurately determined. This information should be based on the results of laboratory analysis, to the extent that site conditions permit. Please submit the results of investigation activities performed relative to this objective. Include a map, cross section and volume estimate (with calculations).
2. Please provide a table of groundwater elevation data collected during the five sampling events. Submit groundwater table contour maps for each sampling event.
3. What is the status of the groundwater recovery sump installed in the east part of the excavation? Has the sump ever been sampled? Has any water been removed from the sump?

Please submit the listed information to the WDNR, along with conclusions and recommendations. This site is currently ranked "medium priority." Therefore, you do not need WDNR approval before proceeding with site activities. However, in accordance with Chapter NR 716.09, work plans must be submitted.

Mr. J. Thomas Ravn
RE: Serigraph, Inc., 760 Indiana Ave., West Bend WI
Former Aboveground Storage Tank Farm
January 30, 1995
Page 2

Thank you for your cooperation. I apologize for the delay in reviewing your
submittal. If you have any questions, please contact me at (414) 961-2746.

Sincerely,

Nancy S. Kochis

Nancy S. Kochis
Hydrogeologist

cc: Peter Pavalko, Advent Environmental Services, Inc.
✓SED case file

ADVENT

ENVIRONMENTAL SERVICES, INC.

DEPARTMENT OF
NATURAL RESOURCES
SED

1994 DEC -2 PM 3:15

December 1, 1994

Mr. Tom Ravn
Serigraph, Inc.
760 Indiana Avenue
West Bend, WI 53095

RE: Serigraph - Plant #1, 760 Indiana Avenue, West Bend, WI. Advent Project No. 95036.01.

Dear Tom:

On September 7, 1994 Advent collected two soil samples from a geoprobe boring advanced between the two passive air vents near the northwest corner of the building. The samples were collected within an area of contaminated soil that was left in-place when the majority of impacted soil was excavated in the summer of 1991. The purpose of the sample collection was to determine if petroleum constituent concentrations had decreased over the last three years. A sample collected from the excavation wall adjacent to the northwest corner of the building in 1991 exhibited a total petroleum hydrocarbon as diesel concentration of 6,440 ppm. That sample was collected from a depth of five feet below ground surface (bgs).

Geoprobe boring B-1 was completed 32 inches west of the wall and nine-feet, two inches south of the northwest corner of the building. The boring was installed at a slight angle in an attempt to sample as near to the building as possible. Groundwater was encountered at a depth of ten feet bgs. The location of the boring is depicted on Figure 1 and in the photographs provided in Attachment 1. Screening of soil samples with a photoionization detector (PID) produced PID responses of 25 ppm, 190 ppm, and 220 ppm at the 5 to 7, 7 to 9, and 9 to 11 foot depth intervals, respectively. A copy of the soil boring log, Form 4400-122, is provided in Attachment 2. Soil samples from the 5 to 7 and 9 to 11 foot depth intervals were submitted to the laboratory for diesel range organic (DRO) and petroleum volatile organic (PVOG) analyses. A copy of the analytical report is provided in Attachment 3. Results of the analyses are provided in Table 1.

SERIGRAPH, INC. - PLANT NO. 1 WEST BEND, WI DATE SAMPLED: SEPTEMBER 7, 1994					
Sample I.D.	Boring	Depth	PID (ppm)	DRO (ppm)	PVOC (ppb)
SB-1A	B-1	5-7	25	27	benzene - 2.2 toluene - 6.3 1,2,4-trimethylbenzene - 15 xylene - 63
SB-1B	B-1	9-11	220	10,000	benzene - 92 ethylbenzene - 270 toluene - 6.0 1,2,4-trimethylbenzene - 4,800 1,3,5-trimethylbenzene - 1,600 xylene - 4,300

These analytical results suggest that biodegradation or flushing of the unsaturated zone has reduced petroleum constituent concentrations. The sample collected in 1991 at five feet bgs exhibited a DRO concentration of 6,440 ppm. Sample SB-1A, collected from approximately the same location at a depth of 5 to 7 feet indicated a DRO concentration of 27 ppm. Unfortunately, soils at the soil-groundwater interface are still significantly impacted by DROs and PVOCs.

Advent estimates that the volume of unsaturated, petroleum-impacted soil is limited to approximately 40 cubic yards that are present against the building's foundation. The footing of the building extends to a depth of eight to ten feet below ground surface. The foundation will prevent the migration of petroleum constituents in the unsaturated soils. The petroleum constituents are most likely moving vertically to the groundwater and migrating to the northeast. The collection and analysis of water samples from monitoring wells MW-3 and MW-4, which are northeast of the remaining impacted soil, suggests that petroleum constituents have not migrated off-site.

Although the volume of soil is relatively limited, the DRO, benzene, and xylene concentrations detected in soil sample SB-1B are above the NR 700 proposed closeout guidelines. Potential remediation options include:

- Excavation and Treatment - Soils could be carefully excavated and thermally treated off-site.
- Active Soil Venting (SV) - SV would reduce the concentrations of PVOCs and DROs, but would be prohibitively expensive considering the very limited volume of soil remaining at the site. In addition, the venting would only be marginally effective on the DROs and would most likely not reduce concentrations below NR 700 closeout guidelines.
- Groundwater Pump and Treatment - Groundwater could be pumped and treated from the existing groundwater recovery well in an attempt to flush and recover petroleum constituents through the "smear" zone. This would probably take many years and also be very costly.

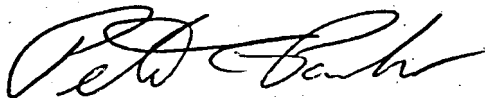
It appears that the most economical and practical remedial alternative is to excavate the remaining impacted soil that is west of the building wall. The excavation should be completed down to the approximate footing depth where the higher concentration of DROs remain. No soil beneath the building can be feasibly removed. If the majority of remaining impacted soil that is accessible to excavation is removed, Advent believes that the limited volume of soil that may remain would not represent an environmental threat and the site should be closed. Groundwater samples collected from MW-4 indicate that impacted groundwater is not migrating off-site.

Advent recommends that Serigraph request a meeting with Ms. Nancy Kochis, Wisconsin DNR, to discuss the results of this latest assessment and the remediation and closure of the site.

Please call me at 238-1874, ext. 3016 when you have talked to Ms. Kochis and scheduled a meeting.

Sincerely,

ADVENT ENVIRONMENTAL SERVICES, INC.



Peter E. Pavalko, CHMM
Environmental Scientist

cc: Nancy Kochis, WDNR

95036geo.let

FIGURE 1

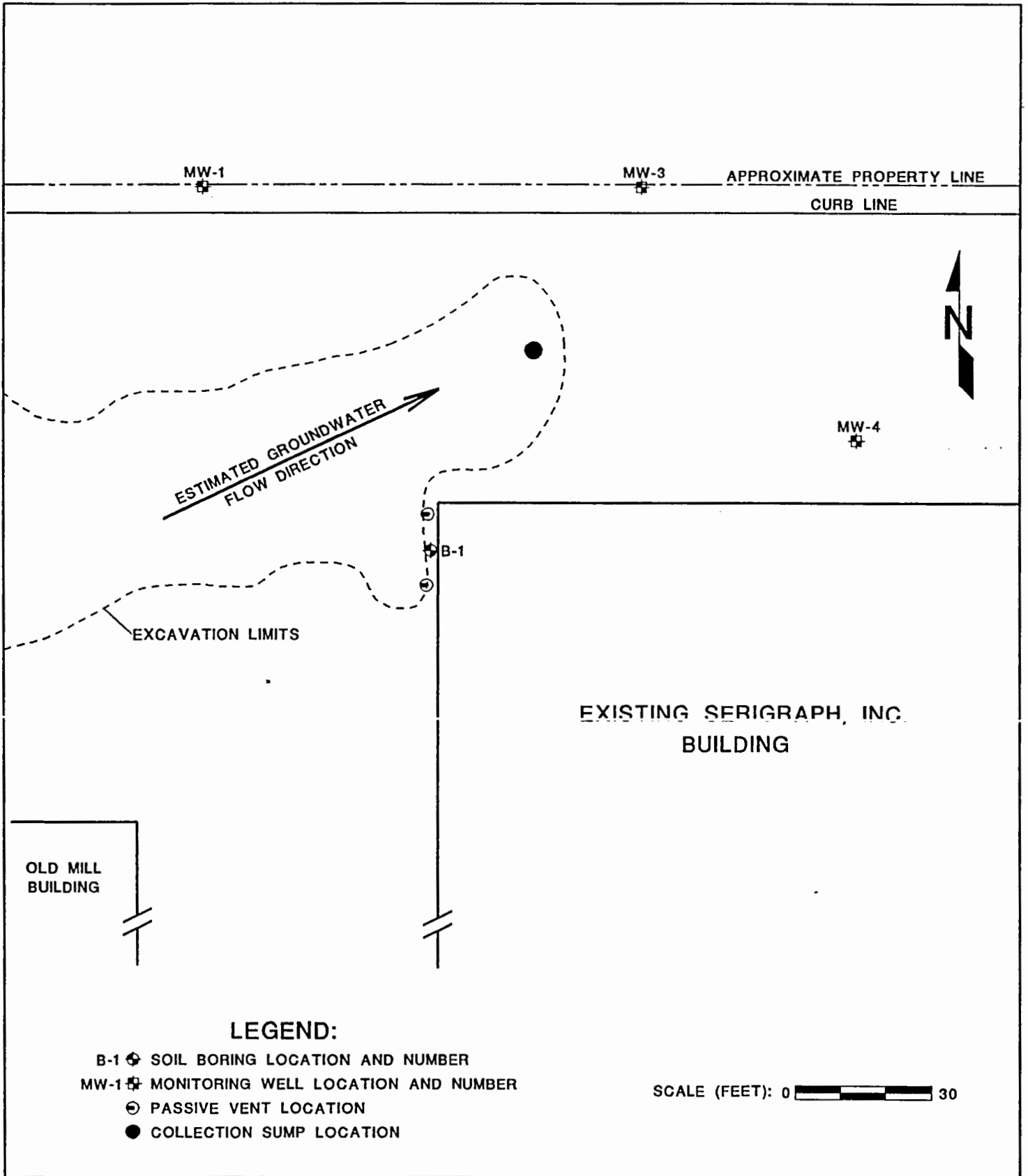


FIGURE 1 SITE FEATURES AND SOIL BORING LOCATIONS SERIGRAPH INCORPORATED WEST BEND, WISCONSIN

A D V E N T

ENVIRONMENTAL SERVICES, INC.
 DATE: 11/28/94
 DRAWING # 95036.01A

ATTACHMENT 1

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Serigraph, Inc. - Plant #1 (#95036.01)

PAGE 1 OF 1

DATE: 9/7/94

TIME: 3:15 p.m.

DIRECTION OF
PHOTOGRAPH:

East

WEATHER CONDITIONS:

Sunny

75°F

PHOTOGRAPHED BY:

Pete Pavalko



DESCRIPTION: Pictured is the location of geoprobe boring B-1 completed between the two passive air vents.

ATTACHMENT 2

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

Page 1 of 1

Facility/Project Name Serigraph 95036.01 License/Permit/Monitoring Number _____ Boring Number B-1

Boring Drilled By (Firm name and name of crew chief) Briohn Daven Date Drilling Started 09/07/94 Date Drilling Completed 09/10/94 Drilling Method G.P.
MM DD YY MM DD YY

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

Boring Location: Plane _____ N _____ E/S/C/N _____ Lat _____ Local Grid Location (If applicable) _____
 1/4 of _____ 1/4 of Section _____ T _____ N, R _____ E/W _____ Long _____ Feet N _____ Feet E
 S _____ Feet W

County WASHINGTON DNR County Code _____ Civil Town/City/ or Village WEST BEND WI

Sample Number	Length Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties				RQD/ Comments
									Standard Penetration	Molsture Content	Liquid Limit	Plastic Limit	
			1										Boring <u>25</u> WEST of WALL (AN) 9' 2" South of NW corner of Building #3' under Build.
			2										
			3										
			4										
			5										
<u>12</u>			6	<u>SAND SB-1A</u>				<u>25</u>		<u>D</u>			<u>Mod. P.O</u>
			7										
<u>24</u>			8	<u>SAND</u>				<u>190</u>		<u>m</u>			<u>st. P.O</u>
			9										
<u>24</u>			10	<u>SB-1B</u>				<u>220</u>		<u>w</u>			
			11	<u>H₂O @ 10'</u>									
				<u>EOB</u>									

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

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 for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06; Wis. Stats.

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County <u>WASHINGTON</u>	Original Well Owner (If Known) <u>Seringaph INC</u>	
1/4 of _____ 1/4 of Sec. _____ : T. _____ N. R. _____ <input type="checkbox"/> E <input type="checkbox"/> W (If applicable)		Present Well Owner <u>760 INDIANA AVE</u>	
Gov't Lot _____ Grid Number _____		Street or Route <u>WEST BEND WI 53095</u>	
Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		City, State, Zip Code	
Civil Town Name <u>WEST BEND</u>		Facility Well No. and/or Name (If Applicable) <u>P-1</u>	WI Unique Well No. _____
Street Address of Well <u>760 INDIANA AVE</u>		Reason For Abandonment <u>ENVIR. TESTING COMPLETED</u>	
City, Village <u>WEST BEND WI</u>		Date of Abandonment <u>9-7-94</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION

<p>(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>9-7-94</u></p> <p> <input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input checked="" type="checkbox"/> Borehole <u>GEOPROBE</u> </p> <p>Construction Report Available? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Construction Type: <input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____ </p> <p>Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock </p> <p>Total Well Depth (ft.) <u>11</u> Casing Diameter (ins.) _____ (From ground surface)</p> <p>Casing Depth (ft.) <u>NA</u></p> <p>Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet</p>	<p>(4) Depth to Water (Feet) <u>10</u></p> <p> Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____ </p> <p> Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No </p> <p>(5) Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____ </p> <p>(6) Sealing Materials For monitoring wells and monitoring well boreholes only</p> <p> <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Chipped Bentonite </p>
--	--

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>BENTONITE</u>	Surface	<u>11</u>		<u>100 Bentonite</u>

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work
ADVENT ENVIR. / BROWN E.C.
 Signature of Person Doing Work _____ Date Signed 11-23-94
 Street or Route _____ Telephone Number (414) 238-1998
1100 W. Executive Dr.
 City, State, Zip Code MEQUON WI 53092

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected _____	District/County _____
Reviewer/Inspector _____	
Follow-up Necessary _____	

ATTACHMENT 3

September 22, 1994

Advent Environmental Services
6100 W. Executive, Suite E
Mequon, WI 53092
Attention: Pete Pavalko

Project: Serigraph

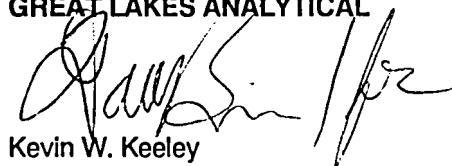
Enclosed are the results from 2 soil samples received at Great Lakes Analytical on September 8, 1994. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
4090546	Soil: SB-1A	9/7/94	1,2-Dichlorethane, 5030/8021 PVOC's, EPA 5030/8020 Percent Solids by EPA 160.3 WDNR DRO
4090547	Soil: SB-1B	9/7/94	1,2-Dichlorethane, 5030/8021 PVOC's, EPA 5030/8020 Percent Solids by EPA 160.3 WDNR DRO

This report may not be reproduced, except in full, without the written approval of the laboratory.

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

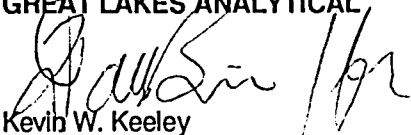
GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Advent Environmental Services 6100 W. Executive, Suite E Mequon, WI 53092 Attention: Pete Pavalko	Client Project ID: Serigraph Sample Descript: Soil Analysis for: Percent Solids by EPA 160.3 First Sample #: 409-0546	Sampled: Sep 7, 1994 Received: Sep 8, 1994 Analyzed: Sep 9, 1994 Reported: Sep 22, 1994
--	--	--

LABORATORY ANALYSIS FOR: Percent Solids by EPA 160.3

Sample Number	Sample Description	Detection Limit %	Sample Result %
409-0546	SB-1A	0.10	92
409-0547	SB-1B	0.10	82

GREAT LAKES ANALYTICAL


 Kevin W. Keeley
 Laboratory Director

Advent Environmental Services
 6100 W. Executive, Suite E
 Mequon, WI 53092
 Attention: Pete Pavalko

 Client Project ID: Serigraph
 Matrix Descript: Soil
 Analysis Method: WDNR DRO
 First Sample #: 409-0546

 Sampled: Sep 7, 1994
 Received: Sep 8, 1994
 Extracted: Sep 12, 1994
 Analyzed: Sep 14, 1994
 Reported: Sep 22, 1994

DIESEL RANGE ORGANICS

Sample Number	Sample Description	Detection Limit mg/kg, Dry Weight (ppm)	High B.P. Hydrocarbons mg/kg, Dry Weight (ppm)	Chromatogram Description
409-0546	SB-1A	5.4	27	Diesel Pattern
409-0547	SB-1B	610	10,000	Diesel Pattern

High Boiling Point Hydrocarbons is performed as described in Leaking Underground Storage Tank Analytical Guidance, July 1993 WDNR SW 130 93 REV.
 Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL


 Kevin W. Keeley
 Laboratory Director

Advent Environmental Services 6100 W. Executive, Suite E Mequon, WI 53092 Attention: Pete Pavalko	Client Project ID: Serigraph Sample Descript: Soil: SB-1A Analysis Method: EPA 5030/8020 Lab Number: 409-0546	Sampled: Sep 7, 1994 Received: Sep 8, 1994 Analyzed: Sep 14, 1994 Reported: Sep 22, 1994
--	--	---

PETROLEUM VOLATILE ORGANIC COMPOUNDS (EPA 8020)

Analyte	Detection Limit µg/kg, Dry Weight	Sample Results µg/kg, Dry Weight
Benzene.....	2.2	2.2
Ethyl Benzene.....	5.5	N.D.
Methyl-t-Butyl Ether.....	55	N.D.
Toluene.....	5.5	6.3
124 Trimethylbenzene.....	11	15
135 Trimethylbenzene.....	11	N.D.
Xylene.....	17	63

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL


 Kevin W. Keeley
 Laboratory Director

Advent Environmental Services	Client Project ID: Serigraph	Sampled: Sep 7, 1994
6100 W. Executive, Suite E	Sample Descript: Soil: SB-1B	Received: Sep 8, 1994
Mequon, WI 53092	Analysis Method: EPA 5030/8020	Analyzed: Sep 14-19, 1994
Attention: Pete Pavalko	Lab Number: 409-0547	Reported: Sep 22, 1994

PETROLEUM VOLATILE ORGANIC COMPOUNDS (EPA 8020)

Analyte	Detection Limit µg/kg, Dry Weight	Sample Results µg/kg, Dry Weight
Benzene.....	2.4	92
Ethyl Benzene.....	6.0	270
Methyl-t-Butyl Ether.....	60	N.D.
Toluene.....	6.0	6.0
124 Trimethylbenzene.....	12	4800
135 Trimethylbenzene.....	12	1600
Xylene.....	18	4300

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL


Kevin W. Keeley
Laboratory Director

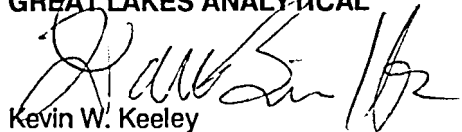
Advent Environmental Services 6100 W. Executive, Suite E Mequon, WI 53092 Attention: Pete Pavalko	Client Project ID: Serigraph Sample Descript: Soil: SB-1A Analysis Method: 5030/8021 Lab Number: 409-0546	Sampled: Sep 7, 1994 Received: Sep 8, 1994 Analyzed: Sep 14, 1994 Reported: Sep 22, 1994
--	--	---

VOLATILE ORGANIC COMPOUND (5030/8021)

Analyte	Detection Limit $\mu\text{g}/\text{kg}$, Dry Weight	Sample Result $\mu\text{g}/\text{kg}$, Dry Weight
1,2-Dichloroethane.....	3.3	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL


Kevin W. Keeley
Laboratory Director

Advent Environmental Services	Client Project ID: Serigraph	Sampled: Sep 7, 1994
6100 W. Executive, Suite E	Sample Descript: Soil: SB-1B	Received: Sep 8, 1994
Mequon, WI 53092	Analysis Method: 5030/8021	Analyzed: Sep 14, 1994
Attention: Pete Pavalko	Lab Number: 409-0547	Reported: Sep 22, 1994

VOLATILE ORGANIC COMPOUND (5030/8021)

Analyte	Detection Limit µg/kg, Dry Weight	Sample Result µg/kg, Dry Weight
1,2-Dichloroethane.....	3.6	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL


Kevin W. Keeley
Laboratory Director

Advent Environmental Services
 6100 W. Executive, Suite E
 Mequon, WI 53092
 Attention: Pete Pavalko

 Client Project ID: Serigraph
 Matrix: Soil

QC Sample Group: 4090546-547

Reported: Sep 22, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Percent Solids
---------	----------------

 Method: 160.3
 Analyst: S. Pawlak
 Reporting Units: %
 Date Analyzed: Sep 9, 1994
 QC Sample #: BLK090994

Sample Conc.: N.D.

Spike Conc. Added: 950

Conc. Matrix Spike: 860

Matrix Spike % Recovery: 90

Conc. Matrix Spike Dup.: 940

Matrix Spike Duplicate % Recovery: 100

Relative % Difference: 10

Laboratory blank contained the following analytes: None Detected

GREAT LAKES ANALYTICAL

 Kevin W. Keeley
 Laboratory Director

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$

Advent Environmental Services
 6100 W. Executive, Suite E
 Mequon, WI 53092
 Attention: Pete Pavalko

 Client Project ID: Serigraph
 Matrix: Soil

QC Sample Group: 4090546-547

Reported: Sep 22, 1994

QUALITY CONTROL DATA REPORT
ANALYTE

WDRO

Method: WDRO
Analyst: E. Yates
Concentration: 40
Units: mg/kg

MATRIX SPIKE DATA
Date Prepared: Sep 12, 1994
Date Analyzed: Sep 12, 1994
Instrument I.D.# GC-10

Matrix Spike % Recovery: 85

METHOD SPIKE & DUP. DATA
Date Prepared: Sep 12, 1994
Date Analyzed: Sep 12, 1994
Instrument I.D.# GC-10

Method Spike % Recovery: 87

Method Spike Duplicate % Recovery: 84

Relative % Difference: 3.5

GREAT LAKES ANALYTICAL

 Kevin W. Keeley
 Laboratory Director

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$

Advent Environmental Services
 6100 W. Executive, Suite E
 Mequon, WI 53092
 Attention: Pete Pavalko

 Client Project ID: Serigraph
 Matrix: Soil

QC Sample Group: 4090546-547

Reported: Sep 22, 1994

QUALITY CONTROL DATA REPORT
ANALYTE

	Benzene	Toluene	Ethylbenzene	Xylene
--	---------	---------	--------------	--------

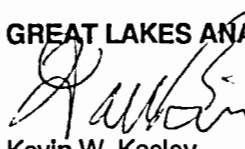
Method:	8020	8020	8020	8020
Analyst:	M. Vang	M. Vang	M. Vang	M. Vang
Concentration:	50	50	50	50
Units:	ng	ng	ng	ng

MATRIX SPIKE DATA

Date Analyzed:	Sep 14, 1994	Sep 14, 1994	Sep 14, 1994	Sep 14, 1994
Instrument I.D.#	GC-6	GC-6	GC-6	GC-6
Matrix Spike % Recovery:	90	92	98	98

METHOD SPIKE & DUPLICATE DATA

Date Analyzed:	Sep 14, 1994	Sep 14, 1994	Sep 14, 1994	Sep 14, 1994
Instrument I.D.#	GC-6	GC-6	GC-6	GC-6
Method Spike % Recovery:	104	108	114	112
Method Spike Duplicate % Recovery:	106	108	114	114
Relative % Difference:	1.9	0	0	1.8

GREAT LAKES ANALYTICAL

 Kevin W. Keeley
 Laboratory Director

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$

Advent Environmental Services
 6100 W. Executive, Suite E
 Mequon, WI 53092
 Attention: Pete Pavalko

 Client Project ID: Serigraph
 Matrix: Soil

QC Sample Group: 4090546-547

Reported: Sep 22, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	cis 1,2-Dichloro-ethene	Trans 1,2-Dichloro-ethene	Chloroform	1,1,1-Trichloro-ethane	Trichloro-ethene	Chloro-benzene
---------	-------------------------	---------------------------	------------	------------------------	------------------	----------------

Method:	8021	8021	8021	8021	8021	8021
Analyst:	M. Vang	M. Vang	M. Vang	M. Vang	M. Vang	M. Vang
Concentration:	50	50	50	50	50	50
Units:	ng	ng	ng	ng	ng	ng

MATRIX SPIKE DATA

Date Analyzed:	Sep 14, 1994	Sep 14, 1994	Sep 14, 1994	Sep 14, 1994	Sep 14, 1994	Sep 14, 1994
Instrument I.D.#	GC-6	GC-6	GC-6	GC-6	GC-6	GC-6
Matrix Spike % Recovery:	96	92	92	92	88	94

METHOD SPIKE & DUP. DATA

Date Analyzed:	Sep 14, 1994	Sep 14, 1994	Sep 14, 1994	Sep 14, 1994	Sep 14, 1994	Sep 14, 1994
Instrument I.D.#	GC-6	GC-6	GC-6	GC-6	GC-6	GC-6
Method Spike % Recovery:	102	112	108	108	102	104
Method Spike Duplicate % Recovery:	106	114	108	108	104	106
Relative % Difference:	3.8	1.8	0	0	1.9	1.9

GREAT LAKES ANALYTICAL

 Kevin W. Keeley
 Laboratory Director

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$

Advent Environmental Services
 6100 W. Executive, Suite E
 Mequon, WI 53092
 Attention: Pete Pavalko

 Client Project ID: Serigraph
 Matrix: Soil

QC Sample Group: 4090546-547

Reported: Sep 22, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Ethyl			
	Benzene	Toluene	benzene	Xylene

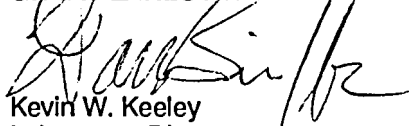
Method:	8021	8021	8021	8021
Analyst:	M. Vang	M. Vang	M. Vang	M. Vang
Concentration:	50	50	50	50
Units:	ng	ng	ng	ng

MATRIX SPIKE DATA

Date Analyzed:	Sep 14, 1994	Sep 14, 1994	Sep 14, 1994	Sep 14, 1994
Instrument I.D.#	GC-6	GC-6	GC-6	GC-6
Matrix Spike % Recovery:	90	92	98	98

METHOD SPIKE & DUP. DATA

Date Analyzed:	Sep 14, 1994	Sep 14, 1994	Sep 14, 1994	Sep 14, 1994
Instrument I.D.#	GC-6	GC-6	GC-6	GC-6
Method Spike % Recovery:	104	108	114	112
Method Spike Duplicate % Recovery:	106	108	114	114
Relative % Difference:	1.9	0	0	1.8

GREAT LAKES ANALYTICAL

 Kevin W. Keeley
 Laboratory Director

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$

CHAIN OF CUSTODY REPORT

Client: ADVENT Project: Serigraph TAT: 5 DAY 4 DAY 3 DAY 2 DAY 1 DAY < 24 HR: US MAIL
 Address: MEQUON Sampler: P. Pavalko DATE RESULTS NEEDED: 9/15/94
 Report to: P. Pavalko PO #: 95036.01 TEMPERATURE UPON RECEIPT: ON ICE
 Phone #: 414-238-1998 FAX #: 414-238-1988 AIR BILL NO. _____

FIELD ID, LOCATION	PFD	Depth (feet)	DATE COLLECTED	TIME COLLECTED	SAMPLE		PRESFT. VATIVES	NO. CONTAINERS	TYPE CONTAINERS	ANALYSIS TYPE	SAMPLE CONTROL			LABORATORY ID NUMBER
					DEVICE	MATRIX					CRACKED/BROKEN	IMPROPERLY SEALED	GOOD CONDITION	
1 SB-1A	25	5-7	9/7	3:00	S			2		DRO, PVOCS + 1,2-DCA			✓	4090546
2 SB-1B	220	9-11	9/7	3:10	S			2		DRO, PVOCS + 1,2-DCA			✓	4090547
3														
4														
5														
6														
7														
8														
9														
0														

RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE
<i>P. Pavalko</i>	9/7/94	<i>A. Adams</i>	9/8/94				
RELINQUISHED	DATE	RECEIVED	DATE	RELINQUISHED	DATE	RECEIVED	DATE



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Southeast District - Annex building

Post Office Box 12436

4041 N. Richards St.

Milwaukee, Wisconsin 53212

TELEPHONE: 414-961-2727

TELEFAX #: 414-961-2770

George E. Meyer
Secretary

August 30, 1994

File Ref: 1408

FID #: 267083850

ERR LUST

Mr. J. Thomas Ravn
Serigraph, Inc.
760 Indiana Ave.
P.O. Box 438
West Bend, WI 53095

RE: Former Aboveground Storage Tank Farm,
Serigraph, Inc. 760 Indiana Ave., West Bend, WI

Dear Mr. Ravn:

The purpose of this letter is to follow up on our August 26, 1994 telephone conversation in which we discussed proposed soil sampling at Serigraph.

Based on my review of your August 22, 1994 letter and attachments, the proposed work is appropriate to evaluate the effectiveness of the passive venting system on soil quality.

Thank you for your cooperation. If you have any questions, please contact me at (414) 961-2746.

Sincerely,

Nancy S. Kochis

Nancy S. Kochis
Hydrogeologist

✓ cc: SED case file #1408



August 22, 1994

Nancy Kochis
Hydrogeologist
Department of Natural Resources
4041 N. Richards St.
Milwaukee, Wi. 53212

1994 AUG 26 PM 3:07
DEPARTMENT OF
NATURAL RESOURCES
SED

Dear Mrs. Kohcis:

We are in receipt of your letters on file # 936, 2000 gallon fuel underground storage tank, and file # 1408, former above ground storage tank farm dated July 18, 1994. It is our understanding that the Department is satisfied with remediation associated with the underground tank and that no further remediation by Serigraph will be required.

With regard to file # 1404 the above ground tank farm, it is our understanding that the DNR wishes Serigraph to review the effectiveness of the passive ventilation which was installed adjacent to the west/north corner of the facility. Serigraph has contacted Advent Environmental Services Inc. and has received a proposal for a soil boring to be performed in the area of the passive ventilation system. We request that the DNR review the enclosed Advent proposal dated August 2, 1994 and reply as to its suitability. If the Department finds the proposal acceptable, Serigraph will proceed with the investigation.

As to the missing cover from one the vent pipes, we have replaced the cover. Should you require further clarification, or wish to discuss any of the matters, please contact me at 414-335-7343.

Sincerely,



J. Thomas Ravn
Coordinator of Environmental Affairs

remrpy

ADVENT

SIGN AND RETURN TO ADVENT ENVIRONMENTAL

ENVIRONMENTAL SERVICES, INC.

ENVIRONMENTAL CONSULTING

PROPOSAL

CLIENT: Serigraph, Inc. **Contact:** Tom Ravn 1-335-7343

CLIENT ADDRESS: 760 Indiana Avenue, West Bend, WI 53095

SITE NAME: Serigraph - Plant No. 1

SITE LOCATION: 760 Indiana Avenue, West Bend, WI 53095

COUNTY: Washington

ADVENT ENVIRONMENTAL SERVICES, INC. PROJECT NO. 95036.01

DATE: August 2, 1994

SITE HISTORY

Between June 11 and July 9, 1991, 3,267.57 tons of petroleum-impacted soil was removed from the site. Some impacted soil was left in-place against and beneath the foundation wall and footing. At the limits of the excavation, a soil sample collected near the northwest corner of the building exhibited total petroleum hydrocarbon (TPH) as diesel concentrations of 6,440 parts per million (ppm).

PROJECT OBJECTIVE

It is Advent's intent to obtain acceptable site closure from the Wisconsin Department of Natural Resources (WDNR). This will be achieved in accordance with ILHR 47 by the completion of multiple tasks, if necessary. The costs to complete Task One are outlined below. Costs for additional tasks will be estimated based on data collected from the previous task and outlined in change orders requiring client signature prior to proceeding with each task.

TASK #1 OBJECTIVE SITE INVESTIGATION

- * To provide the client with information regarding the degradation of soil contamination left in-place near the northwest corner of the building.
- * To assist the client in obtaining reimbursement through the Petroleum Environmental Cleanup Fund Act (PECFA) program for all eligible costs associated with this investigation.

SCOPE OF SERVICES - TASK #1

Advent Environmental Services, Inc. will provide the following services:

- * Review all available site background information.
- * Contact appropriate authorities to obtain proper permits and to coordinate the locating and marking of underground utilities and conduits.
- * Prepare and administer a site-specific safety plan.
- * Observe and document the completion of one geoprobe soil boring near the northwest corner of the building. Soils will be sampled using a split spoon sampler at 2.5-foot sampling intervals. Soils will be described according to the Unified Soil Classification System. Borings will be grouted to the surface with bentonite and surface patched as necessary.
- * Field screen selected soil samples for volatile organic compounds (VOCs) with a photoionization detector (PID) using the headspace analysis method.
- * Collect and analyze two soil samples from the boring as required by WDNR Leaking Underground Storage Tank guidelines. Each sample will be analyzed for diesel range organics (DROs), petroleum volatile organic compounds (PVOCs), and 1,2-DCA.
- * Evaluate and interpret all field and laboratory results.
- * Prepare and submit all necessary documentation to obtain PECFA reimbursement of eligible expenses incurred since the last PECFA claim.

DOCUMENTATION

- * Advent will provide the client with a letter-report detailing on-site field activities. This report will contain the soil boring log, site photographs, laboratory data sheets, and a features map. The report will also provide a general discussion outlining possible remediation options based on the site-specific conditions identified during the investigation or a recommendation for closure.

SCHEDULE

- * Upon receipt of a signed proposal, Advent will contact the client to arrange a start date. The report will be submitted within 45 days after completion of field work.

STATEMENT OF QUALIFICATION AND EXPERIENCE

- * The professional services staff of Advent is comprised of engineers, hydrogeologists, geologists, and other technical professionals. The projects completed by the professional services staff include UST removals, site assessments, site investigations, remedial action plan development, remediation of petroleum-contaminated soil and water, and groundwater monitoring and sampling.
- * Each member of Advent's professional staff is registered as a UST site assessor with the Wisconsin Department of Industry, Labor and Human Relations (WDILHR). This registration permits our staff to work on projects that are eligible for reimbursement from the PECFA fund.



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Southeast District - Annex building

Post Office Box 12436

4041 N. Richards St.

Milwaukee, Wisconsin 53212

TELEPHONE: 414-961-2727

TELEFAX #: 414-961-2770

George E. Meyer
Secretary

July 18, 1994

File Ref: 1408

FID #: 267083850

ERR LUST

Mr. J. Thomas Ravn
Serigraph, Inc.
760 Indiana Ave.
P.O. Box 438
West Bend, WI 53095

RE: REQUEST FOR CASE CLOSURE, Former Aboveground Storage Tank Farm,
Serigraph, Inc. 760 Indiana Ave., West Bend, WI

Dear Mr. Ravn:

The Wisconsin Department of Natural Resources (WDNR) reviewed the following reports prepared by Aqua-Tech, Inc. and Advent Environmental Services, Inc.

Phase III Environmental Assessment... (March 1991)

Letter RE: Work plan for remediation of contaminated soils via thermal treatment (April 29, 1991)

Environmental Assessment Report... (September 1991)

Letter RE: Groundwater monitoring... (October 9, 1991)

Letter RE: Additional soil remediation - passive vent installation...
(December 16, 1991)

Letter RE: Bi-annual groundwater sampling results (March 31, 1992)

Letter RE: Bi-annual groundwater sampling results (September 29, 1992)

Letter RE: Bi-annual groundwater sampling results (March 15, 1993)

Letter RE: Bi-annual groundwater sampling results (October 25, 1993)

CASE SUMMARY

The documents describe investigative and remedial activities associated with an aboveground tank farm formerly located on the northwest portion of the property. Approximately 3267 tons of petroleum contaminated soil were excavated and thermally treated. To remediate additional petroleum

Mr. J. Thomas Ravn
RE: Serigraph, Inc., 760 Indiana Ave., West Bend WI
Former Aboveground Storage Tank Farm
July 18, 1994
Page 2

contaminated soil beneath the northwest corner of the Serigraph building, a passive venting system was installed. Four groundwater monitoring wells were installed west and north of the Serigraph parking lot, and groundwater has been monitored for two years.

REQUEST FOR CASE CLOSURE

In considering your request for case closure, the WDNR requires that the effectiveness of venting on soil quality be assessed (*Guidance for Soil Venting Systems*, WDNR, July 1993). Please submit the results of investigative activity performed relative to this objective. When the information is received, I will review this case for closure.

GROUNDWATER MONITORING

Based on the information reviewed and other information in WDNR case files, the WDNR is not requiring Serigraph, Inc. to conduct additional groundwater sampling at this time. However, the wells should not be abandoned.

The WDNR is currently assessing potential sources of petroleum compounds detected in Serigraph's groundwater monitoring wells. Access to the monitoring wells may be necessary to obtain water table elevation measurements and groundwater samples. Access by another party would be coordinated with you and the WDNR.

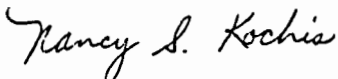
SOIL VENTING PIPING

During a site visit on July 12, 1994, I noted that the cover was missing from the north vent pipe. Please replace the cover as soon as possible to prevent surface infiltration and possible tampering.

CONCLUSION

The WDNR appreciates the actions you have taken to restore the environment at this site. If you have any questions, please contact me at (414) 961-2746.

Sincerely,



Nancy S. Kochis
Hydrogeologist

cc: Peter Pavalko, Advent Environmental Services, Inc.
✓ SED case file #1408

267083850
ERR LUST

ADVENT

received

NOV 03 1993
SL

ENVIRONMENTAL SERVICES, INC.

October 25, 1993

Mr. Tom Ravn
Environmental Engineer
Serigraph, Inc.
760 Indiana Avenue
P.O. Box 438
West Bend, WI 53095

✓ Ms. Sibyl Lapinski
Wisconsin DNR
4041 N. Richards Street
P.O. Box 12436
Milwaukee, WI 53212

RE: Bi-annual groundwater sampling results for the Serigraph, Inc. site - Plant No. 1, 760 Indiana Avenue, West Bend, Wisconsin, 53095. Advent Project No. 95036.

Dear Tom and Sibyl:

The purpose of this letter is to document the results of the fifth round of groundwater monitoring at the Serigraph, Inc. site. The first, second, third, and fourth rounds of sampling were completed on September 9, 1991, March 9, 1992, September 11, 1992, and February 26, 1993, respectively. The results of the first, second, third and fourth rounds of sampling were documented in reports dated October 9, 1991, March 31, 1992, September 29, 1992, and March 15, 1993.

The first round of sampling of the four monitoring wells at the site did not detect the presence of volatile organic compounds (VOCs), gasoline or diesel range organics (GROs or DROs) above laboratory detection levels. None of the total lead levels exceeded the Wisconsin Administrative Code - Chapter 140 - Preventive Action Limit (PAL) for lead.

The second round of sampling detected low levels of 1,2,4-trimethylbenzene (TMB), 1,3,5-trimethylbenzene, and o-xylene in monitoring well MW-2.

The third round of sampling detected a DRO concentration of 0.10 mg/l in a sample collected from monitoring well MW-1.

The fourth round of sampling did not detect the presence of DROs or PVOCs above laboratory detection levels.

On September 28, 1993, Advent completed the fifth round of groundwater sampling at the site. All wells were bailed dry prior to sampling. Approximately 10 gallons were removed from each well to assure the collection of a representative sample. When each well had recharged a water sample was collected using a disposable polyethylene bailer. The contents of each bailer were transferred into three 40 ml vials and one 1 liter amber glass jar. Each sample was preserved with HCL. All samples were packed in a cooler and transported to the laboratory with the chain of custody record.

Groundwater samples from each well were analyzed for petroleum volatile organic compounds (PVOCs) and DROs. Sample methodology is presented on the laboratory data sheets. The original laboratory data and chain of custody record are provided in Attachment 1. Refer to Figure 1 (Attachment 2) for a site location map indicating the locations of monitoring wells and other site features.

No PVOCs were detected above laboratory detection levels in groundwater samples collected from monitoring wells MW-1 (MW-1E), MW-2 (MW-2E), MW-3 (MW-3E), or MW-4 (MW-4E).

DROs were detected in samples MW-1E, MW-2E, and MW-3E at concentrations of 720 $\mu\text{g/l}$ (ppb), 140 $\mu\text{g/l}$, and 710 $\mu\text{g/l}$, respectively.

No DROs were detected above the 98 $\mu\text{g/l}$ laboratory detection level in sample MW-4E.

The September 28, 1993 sampling event was intended to be the final sampling of a two-year, bi-annual sampling program for the Serigraph, Inc. site. Over the preceding two years samples collected from the four wells at the Serigraph, Inc. site have not indicated the presence of significant levels of petroleum constituents. The following table provides an overview of the history of sample results at the Serigraph, Inc. site.

SUMMARY OF GROUNDWATER SAMPLE RESULTS AT THE SERIGRAPH, INC. SITE - PLANT NO. 1 WEST BEND, WISCONSIN					
Monitoring Well	Sample Date				
	September 1991	March 1992	September 1992	February 1993	September 1993
MW-1	ND ¹	ND	DRO - 100 µg/l	ND	DRO - 720 µg/l
MW-2	ND	1,2,4-TMB - 1.9 µg/l 1,3,5-TMB - 1.0 µg/l o-xylene - 9.46 µg/l	ND	ND	DRO - 140 µg/l
MW-3	ND	ND	ND	ND	DRO - 710 µg/l
MW-4	ND	ND	ND	ND	ND

ND = No PVOCs or DROs detected above laboratory detection levels.

The data collected over the past two years suggests that petroleum-impacted groundwater has begun to migrate onto and through the Serigraph, Inc. site over the past six months. Based on the history of petroleum releases from sites upgradient of the Serigraph, Inc. site, Advent believes that the petroleum contamination identified during the September 28, 1993 sampling is a result of contaminants migrating from one or more of the bulk petroleum facilities west of the Serigraph, Inc. site.

Advent requests that the Serigraph, Inc. site be closed and that monitoring of the four wells on the Serigraph property be the responsibility for the entity determined by the Wisconsin Department of Natural Resources (WDNR) to be the responsible party (RP) for this release. Serigraph, Inc. will allow the four wells to be used by the WDNR designated RP. However, the RP will be responsible for eventually abandoning the four wells and all costs associated with well abandonment.

Serigraph, Inc. will abandon the two passive soil vents at the site when the WDNR indicates that the Serigraph, Inc. site can be closed.

Advent will forward a PECFA Form 4 to the WDNR after the soil vents have been removed.

Page Four

If you have any questions concerning the work completed at the site, please contact me at 238-1874, ext. 3016.

Sincerely,

ADVENT ENVIRONMENTAL SERVICES, INC.

A handwritten signature in black ink, appearing to read "Peter E. Pavalko", with a long horizontal flourish extending to the right.

Peter E. Pavalko
Environmental Specialist

cc: Mr. Russ Haupt, WDILHR, P.O. Box 7969, Madison, WI 53707.(with final PECFA claim)

ATTACHMENT 1

PRECISION ANALYTICAL LABORATORY
205 WEST GALENA
MILWAUKEE, WI 53212
(414) 272-5222

10/19/93
11:02

Analytical Report

Attn: Michael K. Neal
Client: Advent Environmental
6100 West Executive Dr. Ste.E
Mequon, WI 53092

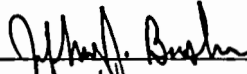
WORK ID: 95036 Serigraph

Date Received: 09/30/93
Date Reported: 10/19/93

PAL ORDER #: 9310014

SAMPLE DESCRIPTION	LAB ID	DATE COLLECTED
MW-1E	01A	09/28/93
MW-1E	01B	09/28/93
MW-1E DUP	02A	09/28/93
MW-1E DUP	02B	09/28/93
MW-2E	03A	09/28/93
MW-2E	03B	09/28/93
MW-3E	04A	09/28/93
MW-3E	04B	09/28/93
MW-4E	05A	09/28/93
MW-4E	05B	09/28/93
TRIP BLANK	06B	09/28/93
FIELD BLANK	07B	09/28/93

Laboratory ID Number (Wisconsin DNR): 241369260



Certified By
Jeff Bushner

PRECISION ANALYTICAL LABORATORY

Page 1
10/19/93

CLIENT: Advent Environmental

Test	Result	Limit	Units	Analyzed	Extracted	BY	Method
Sample ID: MW-1E			Lab ID: 9310014-01A	Collected: 09/28/93			
Mod. DRO (WDNR), Water							Wis Mod. DRO
Diesel Range Organics	0.72	0.10	mg/l	10/12/93	10/05/93	DLK	
Heavier than DRO	NP	0.050	mg/l	10/12/93	10/05/93	DLK	
Sample ID: MW-1E			Lab ID: 9310014-01B	Collected: 09/28/93			
PVOC Water, (WDNR)							8020
Benzene	BQL	1.0	ug/l	10/09/93		JAH	
Ethylbenzene	BQL	1.0	ug/l	10/09/93		JAH	
Methyl-t-butylether	BQL	1.0	ug/l	10/09/93		JAH	
Toluene	BQL	1.0	ug/l	10/09/93		JAH	
1,2,4-Trimethylbenzene	BQL	1.0	ug/l	10/09/93		JAH	
1,3,5-Trimethylbenzene	BQL	1.0	ug/l	10/09/93		JAH	
Total Xylenes	BQL	2.0	ug/l	10/09/93		JAH	
Sample ID: MW-1E DUP			Lab ID: 9310014-02A	Collected: 09/28/93			
Mod. DRO (WDNR), Water							Wis Mod. DRO
Diesel Range Organics	BQL	0.10	mg/l	10/12/93	10/05/93	DLK	
Heavier than DRO	NP	0.051	mg/l	10/12/93	10/05/93	DLK	
Sample ID: MW-1E DUP			Lab ID: 9310014-02B	Collected: 09/28/93			
PVOC Water, (WDNR)							8020
Benzene	BQL	1.0	ug/l	10/09/93		JAH	
Ethylbenzene	BQL	1.0	ug/l	10/09/93		JAH	
Methyl-t-butylether	BQL	1.0	ug/l	10/09/93		JAH	
Toluene	BQL	1.0	ug/l	10/09/93		JAH	
1,2,4-Trimethylbenzene	BQL	1.0	ug/l	10/09/93		JAH	
1,3,5-Trimethylbenzene	BQL	1.0	ug/l	10/09/93		JAH	
Total Xylenes	BQL	2.0	ug/l	10/09/93		JAH	
Sample ID: MW-2E			Lab ID: 9310014-03A	Collected: 09/28/93			
Mod. DRO (WDNR), Water							Wis Mod. DRO
Diesel Range Organics	0.14	0.10	mg/l	10/12/93	10/05/93	DLK	
Heavier than DRO	NP	0.050	mg/l	10/12/93	10/05/93	DLK	

BQL - Below Quantification Limit

NP - Not Present

PRECISION ANALYTICAL LABORATORY

Page 2
10/19/93

CLIENT: Advent Environmental

Test	Result	Limit	Units	Analyzed	Extracted	BY	Method
------	--------	-------	-------	----------	-----------	----	--------

Sample ID: MW-2E Lab ID: 9310014-03B Collected: 09/28/93

Test	Result	Limit	Units	Analyzed	Extracted	BY	Method
PVOC Water, (WDNR)							8020
Benzene	BQL	1.0 ug/l		10/09/93		JAH	
Ethylbenzene	BQL	1.0 ug/l		10/09/93		JAH	
Methyl-t-butylether	BQL	1.0 ug/l		10/09/93		JAH	
Toluene	BQL	1.0 ug/l		10/09/93		JAH	
1,2,4-Trimethylbenzene	BQL	1.0 ug/l		10/09/93		JAH	
1,3,5-Trimethylbenzene	BQL	1.0 ug/l		10/09/93		JAH	
Total Xylenes	BQL	2.0 ug/l		10/09/93		JAH	

Sample ID: MW-3E Lab ID: 9310014-04A Collected: 09/28/93

Test	Result	Limit	Units	Analyzed	Extracted	BY	Method
Mod. DRO (WDNR), Water							Wis Mod. DRO
Diesel Range Organics	0.71	0.10 mg/l		10/12/93	10/05/93	DLK	
Heavier than DRO	NP	0.051 mg/l		10/12/93	10/05/93	DLK	

Sample ID: MW-3E Lab ID: 9310014-04B Collected: 09/28/93

Test	Result	Limit	Units	Analyzed	Extracted	BY	Method
PVOC Water, (WDNR)							8020
Benzene	BQL	1.0 ug/l		10/09/93		JAH	
Ethylbenzene	BQL	1.0 ug/l		10/09/93		JAH	
Methyl-t-butylether	BQL	1.0 ug/l		10/09/93		JAH	
Toluene	BQL	1.0 ug/l		10/09/93		JAH	
1,2,4-Trimethylbenzene	BQL	1.0 ug/l		10/09/93		JAH	
1,3,5-Trimethylbenzene	BQL	1.0 ug/l		10/09/93		JAH	
Total Xylenes	BQL	2.0 ug/l		10/09/93		JAH	

Sample ID: MW-4E Lab ID: 9310014-05A Collected: 09/28/93

Test	Result	Limit	Units	Analyzed	Extracted	BY	Method
Mod. DRO (WDNR), Water							Wis Mod. DRO
Diesel Range Organics	BQL	0.098 mg/l		10/14/93	10/05/93	DLK	
Heavier than DRO	NP	0.049 mg/l		10/14/93	10/05/93	DLK	

Sample ID: MW-4E Lab ID: 9310014-05B Collected: 09/28/93

Test	Result	Limit	Units	Analyzed	Extracted	BY	Method
PVOC Water, (WDNR)							8020
Benzene	BQL	1.0 ug/l		10/09/93		JAH	
Ethylbenzene	BQL	1.0 ug/l		10/09/93		JAH	
Methyl-t-butylether	BQL	1.0 ug/l		10/09/93		JAH	
Toluene	BQL	1.0 ug/l		10/09/93		JAH	
1,2,4-Trimethylbenzene	BQL	1.0 ug/l		10/09/93		JAH	
1,3,5-Trimethylbenzene	BQL	1.0 ug/l		10/09/93		JAH	

BQL - Below Quantification Limit NP - Not Present

PRECISION ANALYTICAL LABORATORY

CLIENT: Advent Environmental

Test	Result	Limit	Units	Analyzed	Extracted	BY	Method
PVOC Water, (WDNR) Total Xylenes	BQL	2.0 ug/l		10/09/93		JAH	8020

Sample ID: TRIP BLANK

Lab ID: 9310014-06B

Collected: 09/28/93

PVOC Water, (WDNR)							8020
Benzene	BQL	1.0 ug/l		10/09/93		JAH	
Ethylbenzene	BQL	1.0 ug/l		10/09/93		JAH	
Methyl-t-butylether	BQL	1.0 ug/l		10/09/93		JAH	
Toluene	BQL	1.0 ug/l		10/09/93		JAH	
1,2,4-Trimethylbenzene	BQL	1.0 ug/l		10/09/93		JAH	
1,3,5-Trimethylbenzene	BQL	1.0 ug/l		10/09/93		JAH	
Total Xylenes	BQL	2.0 ug/l		10/09/93		JAH	

Sample ID: FIELD BLANK

Lab ID: 9310014-07B

Collected: 09/28/93

PVOC Water, (WDNR)							8020
Benzene	BQL	1.0 ug/l		10/09/93		JAH	
Ethylbenzene	BQL	1.0 ug/l		10/09/93		JAH	
Methyl-t-butylether	BQL	1.0 ug/l		10/09/93		JAH	
Toluene	BQL	1.0 ug/l		10/09/93		JAH	
1,2,4-Trimethylbenzene	BQL	1.0 ug/l		10/09/93		JAH	
1,3,5-Trimethylbenzene	BQL	1.0 ug/l		10/09/93		JAH	
Total Xylenes	BQL	2.0 ug/l		10/09/93		JAH	

BQL - Below Quantification Limit

NP - Not Present

PRECISION ANALYTICAL LABORATORY
Report Comments

10/19/93

CLIENT: Advent Environmental

PAL Order #: 9310014

All analysis as per approved method found in one or more of the following:
Standard Methods for Evaluation of Water and Wastewater, 17th Edition
Methods for Chemical Analysis for Water and Wastes, Revised March 1983, EPA 600/4-79-020
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, 3rd Edition 1986 EPA SW846

Analysis performed or certified by Precision Analytical Laboratory

Sample was covered air tight in approved container, shipped in cooler from the source to our lab, temperature upon arrival was 4 degrees C.

CHAIN OF CUSTODY RECORD

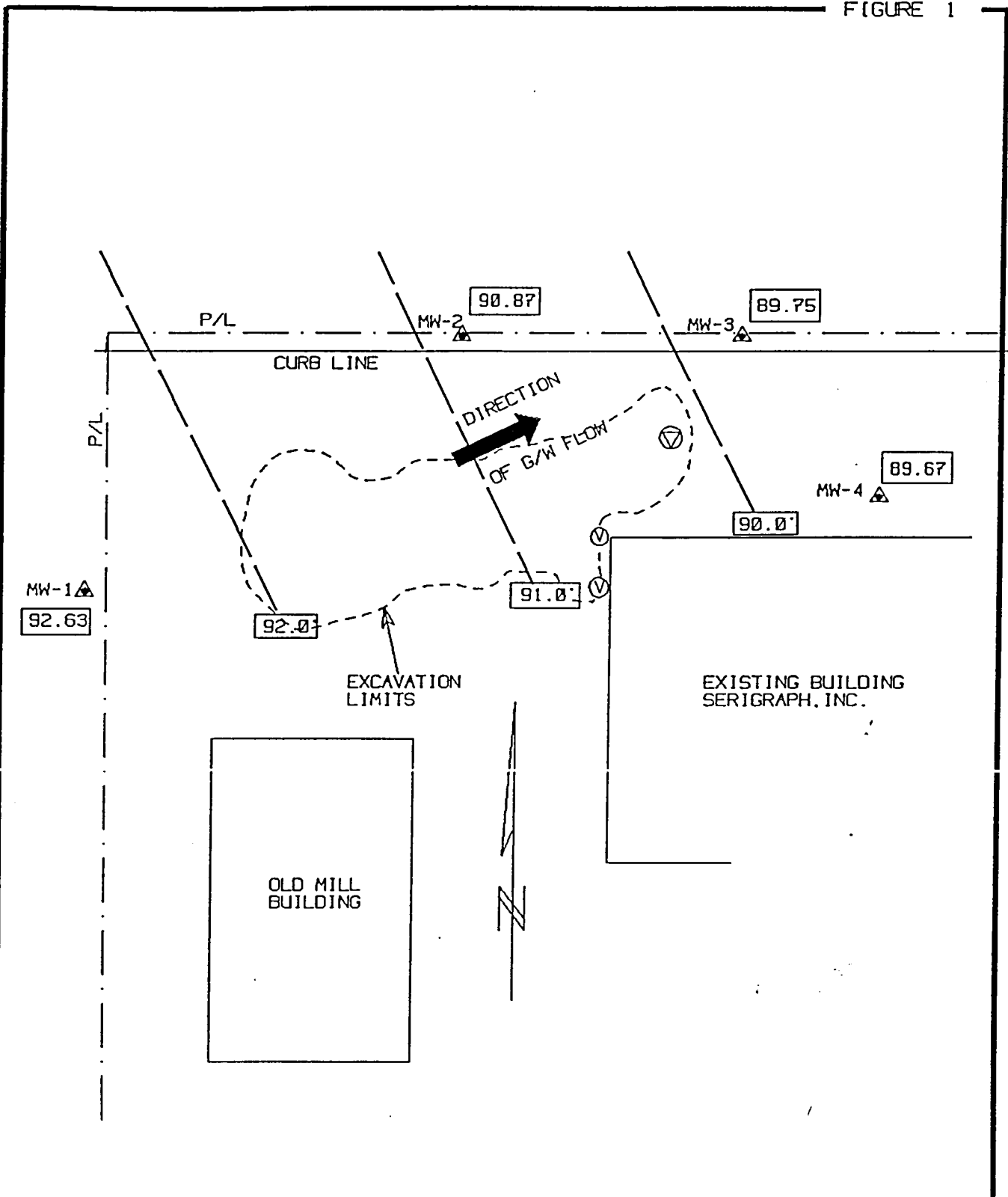
PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS					REMARKS											
SAMPLERS: (Signature) <i>[Signature]</i>				LAB NO.	DATE <i>9-29-93</i>	TIME	COMP	GRAB		STATION LOCATION	DRO PUCS									
				X	115			X	MW-1E	4	X	X								
				X	115			X	MW-1E Dup	4	X	X								
				X	120			X	MW-2E	4	X	X								
				X	200			X	MW-3E	4	X	X								
				X	215			X	MW-4E	4	X	X								
				X	—			X	Tip Blank	1		X								
				X	115			X	Field Blank	1		X								

Relinquished by: (Signature) <i>[Signature]</i>	Date / Time 9-30-93 / 1:30	Received by: (Signature) <i>[Signature]</i>	Date / Time 9/30 1:30P	Report to: Name <u>Pete PAVALKO</u> Street _____ City _____ State _____ Zip _____ Phone no. (____) _____
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)		



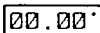

Remarks <u>PAL</u>	Remarks
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ATTACHMENT 2

FIGURE 1



LEGEND:

-  - MONITORING WELL
-  - COLLECTION SUMP
-  - RELATIVE GROUNDWATER ELEVATIONS
-  - PROPOSED PASSIVE VENT LOCATION

SERIGRAPH			
GROUNDWATER CONTOURS			
95036			
ADVENT			
ENVIRONMENTAL SERVICES, INC.			
<small>P. O. BOX 246 • PORT WASHINGTON, WI 53074 • 414-264-7447</small>			
<small>DRAFTER</small> RICHARDSON	<small>DESIGNED</small> <i>RP</i>	<small>DATE</small> 9/20/91	<small>SCALE</small> 1"=50'

MAR 18 1993

ADVENT

ENVIRONMENTAL SERVICES, INC.

March 15, 1993

Mr. Tom Ravn
Environmental Engineer
Serigraph, Inc.
760 Indiana Avenue
P.O. Box 438
West Bend, WI 53095

RE: Bi-annual groundwater sampling results for the Serigraph, Inc. site - Plant No. 1, 760 Indiana Avenue, West Bend, Wisconsin, 53095. AESI Project No. 95036.

The purpose of this letter is to document the results of the fourth round of groundwater monitoring at the Serigraph, Inc. site. The first, second, and third rounds of sampling were completed on September 9, 1991, March 9, 1992, and September 11, 1992, respectively. The results of the first, second, and third rounds of sampling were documented in reports dated October 9, 1991, March 31, 1992, and September 29, 1992.

The first round of sampling of the four monitoring wells at the site did not detect the presence of volatile organic compounds (VOCs), gasoline or diesel range organics (GROs or DROs) above laboratory detection levels. None of the total lead levels exceeded the Wisconsin Administrative Code - Chapter 140 - Preventive Action Limit (PAL) for lead.

The second round of sampling detected low levels of 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and o-xylene in monitoring well MW-2.

The third round of sampling detected a DRO concentration of 0.10 mg/l in a sample collected from monitoring well MW-1.

On February 26, 1993, AESI completed the fourth round of groundwater sampling at the site. All wells were pumped dry prior to sampling. Approximately 15 gallons were removed from each well to assure the collection of a representative sample. When each well had recharged following the final purge cycle, a water sample was collected using a disposable polyethylene bailer. The contents of each bailer were poured into four 40 ml vials and one 1 liter amber glass jar. Each sample was preserved with HCL. All samples were packed in a cooler and transported to the laboratory with the chain of custody record.

March 15, 1993

Page 2

Groundwater samples from each well were analyzed for petroleum volatile organic compounds (PVOCs) and DROs. Sample methodology is presented on the laboratory data sheets. The original laboratory data and chain of custody record are attached. Refer to Figure 1 for a site location map indicating the locations of monitoring wells and other site features.

No PVOCs or DROs were detected above laboratory detection levels in groundwater samples collected from monitoring wells MW-1 (MW-1D), MW-2 (MW-2D), MW-3 (MW-3D), or MW-4 (MW-4D).

Based on the results of the fourth round of sampling, AESI recommends no corrective action on the part of Serigraph, Inc. AESI recommends that all four wells be sampled again in September 1993 as originally planned, for the final time. If the September 1993 sampling indicates that groundwater at the site is not significantly impacted, AESI will recommend that the site be closed.

The issue of petroleum contamination possibly migrating onto the Serigraph, Inc. site should be fully investigated prior to removal of the four monitoring wells. AESI recommends that Serigraph obtain all relevant information concerning potential releases at the O'Conner site and Jacobus Quick Flash sites and evaluate the potential impact to Serigraph, Inc. property and operations.

If you have any questions concerning the work completed at the site, please contact me at 238-1998.

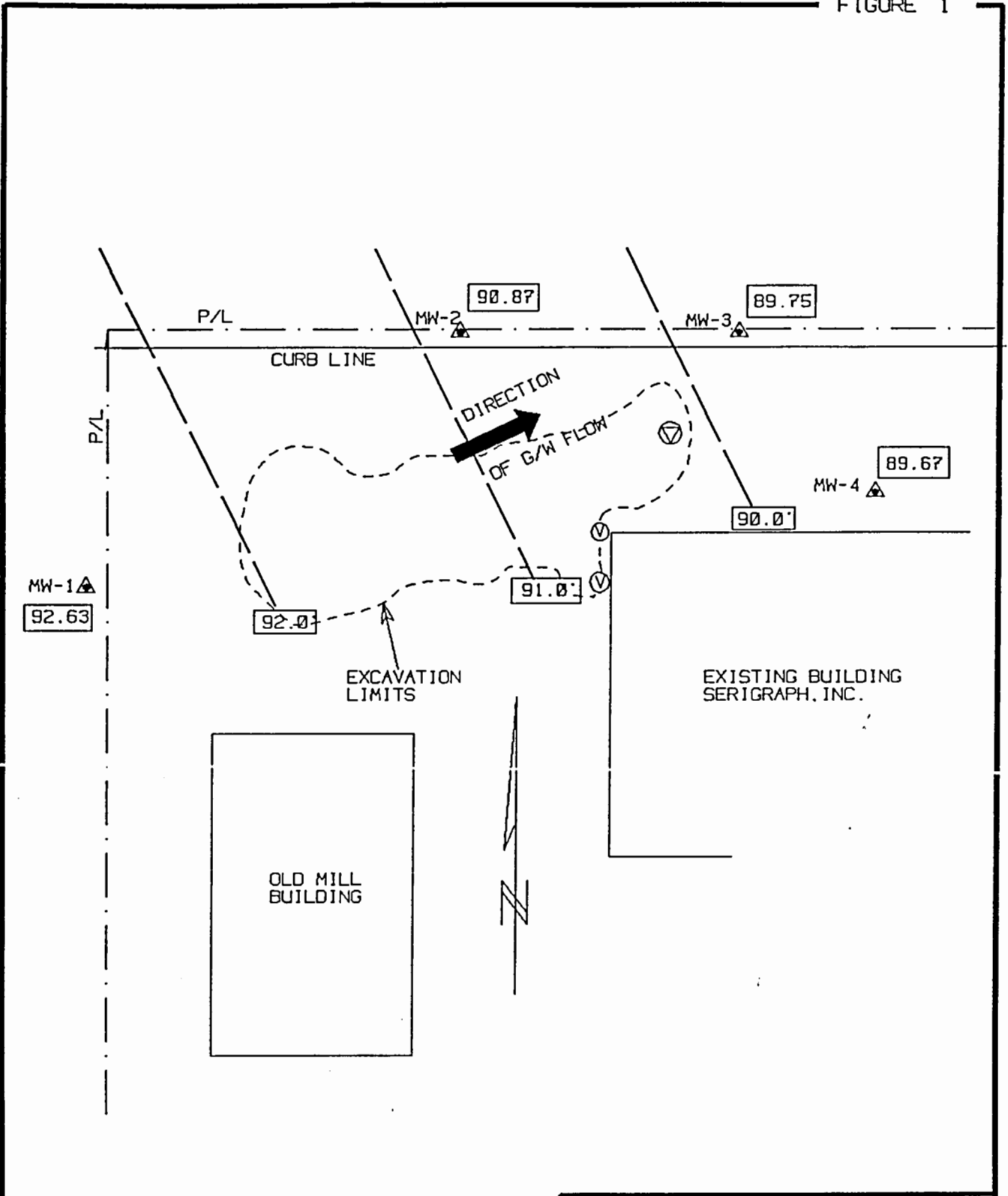
Sincerely,

ADVENT ENVIRONMENTAL SERVICES, INC.



Peter E. Pavalko
Environmental Specialist

cc: ✓ Sibyl Lapinski, WDNR, P.O. Box 12436, Milwaukee, WI 53212.
Mr. Russ Haupt, WDILHR, P.O. Box 7969, Madison, WI 53707.



LEGEND:

- ▲ - MONITORING WELL
- ▽ - COLLECTION SUMP
- . . . □ - RELATIVE GROUNDWATER ELEVATIONS
- ▽ - PROPOSED PASSIVE VENT LOCATION

<p>SERIGRAPH GROUNDWATER CONTOURS 95036</p>			
<p>ADVENT ENVIRONMENTAL SERVICES, INC.</p>			
P. O. BOX 246 • PORT WASHINGTON, NY 53074 • 414-204-7447			
DRAFTER	CHECKED	DATE	SCALE
RICHARDSON	<i>[Signature]</i>	9/20/91	1"=50'



1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

Advent Environmental Services	Client Project ID: 95036, Serigraph	Sampled: Feb 26, 1993
6100 W. Executive, Suite E	Matrix Descript: Water	Received: Mar 1, 1993
Mequon, WI 53092	Analysis Method: WDNR DRO	Extracted: Mar 3, 1993
Attention: Pete Pavalko	First Sample #: 303-0023	Analyzed: Mar 7, 1993
		Reported: Mar 9, 1993

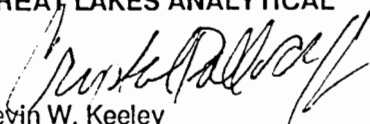
DIESEL RANGE ORGANICS

Sample Number	Sample Description	High B.P. Hydrocarbons mg/L (ppm)
303-0023	MW-1D	N.D.
303-0024	MW-1D Dup	N.D.
303-0027	MW-2D	N.D.
303-0028	MW-3D	N.D.
303-0029	MW-4D	N D

Detection Limits:	0.10
--------------------------	-------------

High Boiling Point Hydrocarbons is performed as described in Leaking Underground Storage Tank Analytical Guidance, April 1992 WDNR SW 130 92 REV. Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL


Kevin W. Keeley
Laboratory Director



1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

Advent Environmental Services	Client Project ID: 95036, Serigraph	Sampled: Feb 26, 1993
6100 W. Executive, Suite E	Sample Descript: Water: MW-1D	Received: Mar 1, 1993
Mequon, WI 53092	Analysis Method: EPA 5030/8020	Analyzed: Mar 2, 1993
Attention: Pete Pavalko	Lab Number: 303-0023	Reported: Mar 9, 1993

PETROLEUM VOLATILE ORGANIC COMPOUNDS (EPA 8020)

Analyte	Detection Limit µg/L	Sample Results µg/L
Benzene.....	0.50	N.D.
Ethyl Benzene.....	0.50	N.D.
Methyl-T-Butyl Ether.....	5.0	N.D.
Toluene.....	0.50	N.D.
124 Trimethylbenzene.....	1.0	N.D.
135 Trimethylbenzene.....	1.0	N.D.
Xylene.....	0.50	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director



1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

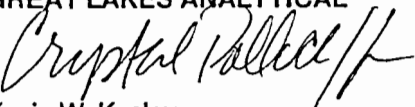
Advent Environmental Services	Client Project ID: 95036, Serigraph	Sampled: Feb 26, 1993
6100 W. Executive, Suite E	Sample Descript: Water: MW-1D Dup	Received: Mar 1, 1993
Mequon, WI 53092	Analysis Method: EPA 5030/8020	Analyzed: Mar 3, 1993
Attention: Pete Pavalko	Lab Number: 303-0024	Reported: Mar 9, 1993

PETROLEUM VOLATILE ORGANIC COMPOUNDS (EPA 8020)

Analyte	Detection Limit µg/L	Sample Results µg/L
Benzene.....	0.50	N.D.
Ethyl Benzene.....	0.50	N.D.
Methyl-T-Butyl Ether.....	5.0	N.D.
Toluene.....	0.50	N.D.
124 Trimethylbenzene.....	1.0	N.D.
135 Trimethylbenzene.....	1.0	N.D.
Xylene.....	0.50	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL


Kevin W. Keeley
Laboratory Director



1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

Advent Environmental Services	Client Project ID: 95036, Serigraph	Sampled: Feb 26, 1993
6100 W. Executive, Suite E	Sample Descript: Water: Trip Blank	Received: Mar 1, 1993
Mequon, WI 53092	Analysis Method: EPA 5030/8020	Analyzed: Mar 3, 1993
Attention: Pete Pavalko	Lab Number: 303-0025	Reported: Mar 9, 1993

PETROLEUM VOLATILE ORGANIC COMPOUNDS (EPA 8020)

Analyte	Detection Limit $\mu\text{g/L}$	Sample Results $\mu\text{g/L}$
Benzene.....	0.50	N.D.
Ethyl Benzene.....	0.50	N.D.
Methyl-T-Butyl Ether.....	5.0	N.D.
Toluene.....	0.50	N.D.
124 Trimethylbenzene.....	1.0	N.D.
135 Trimethylbenzene.....	1.0	N.D.
Xylene.....	0.50	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director



1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

Advent Environmental Services 6100 W. Executive, Suite E Mequon, WI 53092 Attention: Pete Pavalko	Client Project ID: 95036, Serigraph Sample Descript: Water: Field Blank Analysis Method: EPA 5030/8020 Lab Number: 303-0026	Sampled: Feb 26, 1993 Received: Mar 1, 1993 Analyzed: Mar 3, 1993 Reported: Mar 9, 1993
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PETROLEUM VOLATILE ORGANIC COMPOUNDS (EPA 8020)

Analyte	Detection Limit µg/L	Sample Results µg/L
Benzene.....	0.50	N.D.
Ethyl Benzene.....	0.50	N.D.
Methyl-T-Butyl Ether.....	5.0	N.D.
Toluene.....	0.50	N.D.
124 Trimethylbenzene.....	1.0	N.D.
135 Trimethylbenzene.....	1.0	N.D.
Xylene.....	0.50	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL


Kevin W. Keeley
Laboratory Director



1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

Advent Environmental Services 6100 W. Executive, Suite E Mequon, WI 53092 Attention: Pete Pavalko	Client Project ID: 95036, Serigraph Sample Descript: Water: MW-2D Analysis Method: EPA 5030/8020 Lab Number: 303-0027	Sampled: Feb 26, 1993 Received: Mar 1, 1993 Analyzed: Mar 3, 1993 Reported: Mar 9, 1993
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PETROLEUM VOLATILE ORGANIC COMPOUNDS (EPA 8020)

Analyte	Detection Limit µg/L	Sample Results µg/L
Benzene.....	0.50	N.D.
Ethyl Benzene.....	0.50	N.D.
Methyl-T-Butyl Ether.....	5.0	N.D.
Toluene.....	0.50	N.D.
124 Trimethylbenzene.....	1.0	N.D.
135 Trimethylbenzene.....	1.0	N.D.
Xylene.....	0.50	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director



1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

Advent Environmental Services 6100 W. Executive, Suite E Mequon, WI 53092 Attention: Pete Pavalko	Client Project ID: 95036, Serigraph Sample Descript: Water: MW-3D Analysis Method: EPA 5030/8020 Lab Number: 303-0028	Sampled: Feb 26, 1993 Received: Mar 1, 1993 Analyzed: Mar 3, 1993 Reported: Mar 9, 1993
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PETROLEUM VOLATILE ORGANIC COMPOUNDS (EPA 8020)

Analyte	Detection Limit µg/L	Sample Results µg/L
Benzene.....	0.50	N.D.
Ethyl Benzene.....	0.50	N.D.
Methyl-T-Butyl Ether.....	5.0	N.D.
Toluene.....	0.50	N.D.
124 Trimethylbenzene.....	1.0	N.D.
135 Trimethylbenzene.....	1.0	N.D.
Xylene.....	0.50	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL


Kevin W. Keeley
Laboratory Director



1380 Busch Parkway • Buffalo Grove, Illinois 60089
(708) 808-7766 FAX (708) 808-7772

Advent Environmental Services 6100 W. Executive, Suite E Mequon, WI 53092 Attention: Pete Pavalko	Client Project ID: 95036, Serigraph Sample Descript: Water: MW-4D Analysis Method: EPA 5030/8020 Lab Number: 303-0029	Sampled: Feb 26, 1993 Received: Mar 1, 1993 Analyzed: Mar 3, 1993 Reported: Mar 9, 1993
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PETROLEUM VOLATILE ORGANIC COMPOUNDS (EPA 8020)

Analyte	Detection Limit µg/L	Sample Results µg/L
Benzene.....	0.50	N.D.
Ethyl Benzene.....	0.50	N.D.
Methyl-T-Butyl Ether.....	5.0	N.D.
Toluene.....	0.50	N.D.
124 Trimethylbenzene.....	1.0	N.D.
135 Trimethylbenzene.....	1.0	N.D.
Xylene.....	0.50	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

ADVENT

DUE: 3/2/93

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

Use Black Ink Only, Press Hard

ENVIRONMENTAL SERVICES, INC.
P.O. BOX 246, PORT WASHINGTON, WI 53074
414-284-7447 414-238-1998

PROJ. NO 95036	PROJECT NAME Sevignaph
-------------------	---------------------------

SAMPLERS: (Signature)
Chris Ken

AESI Lab No.	Yr 93 Date	Time	Sample Station ID
--------------	---------------	------	-------------------

	2/26	12:00	MW-1D	5	4	1													
	"	"	MW-1D DUP	5	4	1													
	"	"	Trip Blank	1	1														
	"	"	Field Blank	1	1														
	"	12:30	MW-2D	5	4	1													
	"	12:45	MW-3D	5	4	1													
	"	1:00	MW-4D	5	4	1													

Total Number of Containers																					Filtered (Yes/No)	
																						Preserved (Code)
																						Refrigerated (Yes/No)
																						Sample type (Grab/Composite)
																						Sample sources (WW, GW, DW, other)

Relinquished by: (Signature) Chris Ken	Date / Time 3/1/93 11AM	Received by: (Signature)	Date / Time
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) Resley Jankauskiy 3/2/93 1145	

Report to: Pete Pavalko
Name: Pete Pavalko
Street: 6100 Executive Dr
City: Mequon State: WI Zip: 53092
Phone no. (414) 238 1995
Fax no. () 238 1988

Remarks:
FEDEX AIR BILL NO : 6954921970 LG

Receipt pH _____
Receipt temp 2.8°C

ADVENT

ENVIRONMENTAL SERVICES, INC.

September 29, 1992

Mr. Tom Ravn
Environmental Engineer
Serigraph, Inc.
760 Indiana Avenue
P.O. Box 438
West Bend, WI 53095

RE: Bi-annual groundwater sampling results for the Serigraph, Inc. site - Plant No. 1, 760 Indiana Avenue, West Bend, Wisconsin, 53095. AESI Project No. 95036.

The purpose of this letter is to document the results of the third round of groundwater monitoring at the Serigraph, Inc. site. The first and second rounds of sampling were completed on September 9, 1991 and March 9, 1992, respectively. The results of the first and second rounds of sampling were documented in reports dated October 9, 1991 and March 31, 1992.

The first round of sampling of the four monitoring wells at the site did not detect the presence of volatile organic compounds (VOCs), gasoline or diesel range organics (GROs or DROs) above laboratory detection levels. None of the total lead levels exceeded the Wisconsin Administrative Code - Chapter 140 - Preventive Action Limit (PAL) for lead.

The second round of sampling detected low levels of 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and o-xylene in monitoring well MW-2.

On September 11, 1992, AESI completed the third round of groundwater sampling at the site. All wells were pumped dry prior to sampling. Approximately 15 gallons were removed from each well to assure the collection of a representative sample. When each well had recharged following the final purge cycle, a water sample was collected using a disposable polyethylene bailer. The contents of each bailer were poured into two 40 ml vials and one 1 liter amber glass jar. Each sample was preserved with HCL. All samples were packed in a cooler and transported to the laboratory with the chain of custody record.

September 29, 1992

Page 2

Groundwater samples from each well were analyzed for petroleum volatile organic compounds (PVOCs) and DROs. Sample methodology is presented on the laboratory data sheets. The original laboratory data and chain of custody record are attached. Refer to Figure 1 for a site location map indicating the locations of monitoring wells and other site features.

No PVOCs or DROs were detected above laboratory detection levels in groundwater samples collected from monitoring wells MW-2 (MW-2C), MW-3 (MW-3C), or MW-4 (MW-4C).

A DRO level of 0.10 mg/l was detected in sample MW-1C collected from monitoring well MW-1. No PVOCs were detected above the laboratory detection level in sample MW-1C. DROs have not been identified above detection levels in MW-1 prior to this sampling. MW-1 is considered the up-gradient well at this site.

Immediately west (hydraulically upgradient) of MW-1 is an O'Conner bulk petroleum facility. Extensive monitoring of the O'Conner site is on-going. It appears likely that a release from the O'Conner site, or possibly Jacobus Quick Flash site that is located approximately 500 feet south of MW-1, could be migrating via the groundwater onto Serigraph, Inc. property and to the location of MW-1. Ms. Sibyl Lapinski, WDNR Project Manager, was contacted on September 29, 1992 and advised of the situation. She stated that she would contact O'Conner Oil and attempt to get an update of the investigation at that site.

Based on the results of the third round of sampling, AESI recommends no corrective action on the part of Serigraph, Inc. AESI does recommend that O'Conner Oil take steps necessary to limit the potential impact to the Serigraph, Inc. site. It appears that the lack of remedial response at the O'Conner site has allowed the migration of contaminants from its source. AESI recommends that all four wells be sampled again in March 1993 to monitor PVOC and DRO levels as originally planned. AESI also recommends that Serigraph obtain all relevant information concerning potential releases at the O'Conner site and Jacobus Quick Flash sites and evaluate the potential impact to Serigraph, Inc. property and operations.

September 29, 1992

Page 3

If you have any questions concerning the work completed at the site, please contact me at 238-1998.

Sincerely,

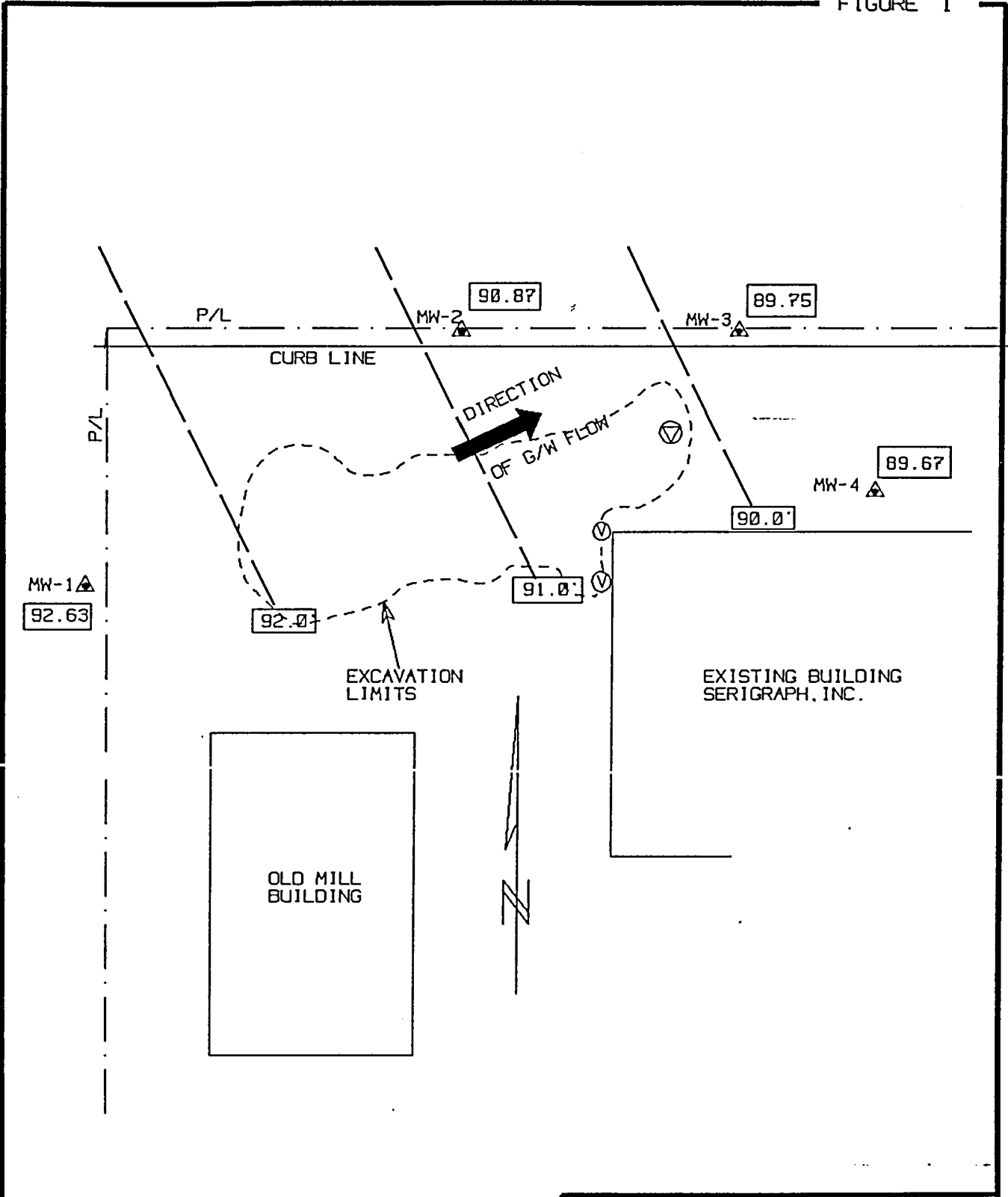
ADVENT ENVIRONMENTAL SERVICES, INC.

A handwritten signature in black ink, appearing to read "Peter E. Pavalko". The signature is written in a cursive style with a large initial "P" and "E".

Peter E. Pavalko
Environmental Specialist

cc: Sibyl Lapinski, WDNR, P.O. Box 12436, Milwaukee, WI 53212.
Mr. Russ Haupt, WDILHR, P.O. Box 7969, Madison, WI 53707.

FIGURE 1



LEGEND:

- ▲ - MONITORING WELL
- ▽ - COLLECTION SUMP
- 00.00 - RELATIVE GROUNDWATER ELEVATIONS
- ⊕ - PROPOSED PASSIVE VENT LOCATION

<p>SERIGRAPH GROUNDWATER CONTOURS 95036</p>			
<p>ADVENT ENVIRONMENTAL SERVICES, INC.</p>			
<p>P. O. BOX 246 • PORT WASHINGTON, WI 53074 • 414-284-7447</p>			
DRAFTER RICHARDSON	CHECKED <i>PP</i>	DATE 9/20/91	SCALE 1"=50'

Precision Analytical Lab, Inc
205 West Galena
Milwaukee, WI 53212

Phone: (414) 272-5222

Advent Environmental
6100 West Executive Dr. Ste.E
Mequon, WI 53092

Attn: P. Pavalko
Invoice Number:

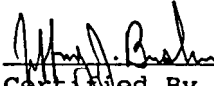
Order #: 92-09-134
Date: 09/23/92 15:50
Work ID: 95036
Date Received: 09/12/92
Date Completed: 09/23/92
Client Code: ADVENT

SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>
01	MW-1C
02	MW-2C
03	MW-2C-DUP

<u>Sample Number</u>	<u>Sample Description</u>
04	MW-3C
05	MW-4C

Laboratory ID Number (Wisconsin DNR): 241369260



Certified By
Jeff Bushner

Sample: 01A MW-1C

Collected: 09/11/92

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Mod. DRO (WDNR)	0.10		mg/l	09/18/92	SEL
PVOC Water, (WDNR) 8020					
Benzene	< 1.0		ug/l	09/18/92	LJS
Ethylbenzene	< 1.0		ug/l	09/18/92	LJS
Methyl-t-butylether	< 1.0		ug/l	09/18/92	LJS
Toluene	< 1.0		ug/l	09/18/92	LJS
1,2,4-Trimethylbenzene	< 1.0		ug/l	09/18/92	LJS
1,3,5-Trimethylbenzene	< 1.0		ug/l	09/18/92	LJS
Total Xylenes	< 1.0		ug/l	09/18/92	LJS

Sample: 02A MW-2C

Collected: 09/11/92

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Mod. DRO (WDNR)	< 0.10		mg/l	09/18/92	SEL
PVOC Water, (WDNR) 8020					
Benzene	< 1.0		ug/l	09/18/92	LJS
Ethylbenzene	< 1.0		ug/l	09/18/92	LJS
Methyl-t-butylether	< 1.0		ug/l	09/18/92	LJS
Toluene	< 1.0		ug/l	09/18/92	LJS
1,2,4-Trimethylbenzene	< 1.0		ug/l	09/18/92	LJS
1,3,5-Trimethylbenzene	< 1.0		ug/l	09/18/92	LJS
Total Xylenes	< 1.0		ug/l	09/18/92	LJS

Sample: 03A MW-2C-DUP

Collected: 09/11/92

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PVOC Water, (WDNR) 8020					
Benzene	< 1.0		ug/l	09/18/92	LJS
Ethylbenzene	< 1.0		ug/l	09/18/92	LJS
Methyl-t-butylether	< 1.0		ug/l	09/18/92	LJS
Toluene	< 1.0		ug/l	09/18/92	LJS
1,2,4-Trimethylbenzene	< 1.0		ug/l	09/18/92	LJS
1,3,5-Trimethylbenzene	< 1.0		ug/l	09/18/92	LJS
Total Xylenes	< 1.0		ug/l	09/18/92	LJS

Sample: 04A MW-3C

Collected: 09/11/92

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Mod. DRO (WDNR)	< 0.10		mg/l	09/18/92	SEL

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
PVOC Water, (WDNR) 8020					
Benzene	< 1.0		ug/l	09/18/92	LJS
Ethylbenzene	< 1.0		ug/l	09/18/92	LJS
Methyl-t-butylether	< 1.0		ug/l	09/18/92	LJS
Toluene	< 1.0		ug/l	09/18/92	LJS
1,2,4-Trimethylbenzene	< 1.0		ug/l	09/18/92	LJS
1,3,5-Trimethylbenzene	< 1.0		ug/l	09/18/92	LJS
Total Xylenes	< 1.0		ug/l	09/18/92	LJS

Sample: 05A MW-4C

Collected: 09/11/92

<u>Test Description</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>By</u>
Mod. DRO (WDNR)	< 0.10		mg/l	09/18/92	SEL
PVOC Water, (WDNR) 8020					
Benzene	< 1.0		ug/l	09/18/92	LJS
Ethylbenzene	< 1.0		ug/l	09/18/92	LJS
Methyl-t-butylether	< 1.0		ug/l	09/18/92	LJS
Toluene	< 1.0		ug/l	09/18/92	LJS
1,2,4-Trimethylbenzene	< 1.0		ug/l	09/18/92	LJS
1,3,5-Trimethylbenzene	< 1.0		ug/l	09/18/92	LJS
Total Xylenes	< 1.0		ug/l	09/18/92	LJS

A D V E N T

ENVIRONMENTAL SERVICES, INC.
P.O. BOX 246, PORT WASHINGTON, WI 53074
414-284-7447

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

Use Black Ink Only, Press Hard

PROJ. NO 95036	PROJECT NAME SERIGRAPH PLANT #1
--------------------------	---

SAMPLERS: (Signature)
P. Pavliko

AESI Lab No.	Yr 22 Date	Time	Sample Station ID
--------------	---------------	------	-------------------

9209134-1	7/11	11:00	MW-1C
-2	7/11	11:15	MW-2C
-3	7/11	11:15	MW-2C-DUP
-4	7/11	11:30	MW-3C
-5	7/11	11:45	MW-4C

Total Number of Containers	Analysis											Filtered (Yes/No)	Preserved (Code)	Refrigerated (Yes/No)	Sample type (Grab/Composite)	Sample sources (WW, GW, DW, other)	Preservation Code: A - None D - NaOH B - HNO3 E - HCL C - H ₂ SO4 F - _____						
	Comments:																						
	3	X	X																				
	3	X	X																				
	1		X																				
	3	X	X																				

Relinquished by: (Signature) <i>P. Pavliko</i>	Date / Time 7/11/92 3:00pm	Received by: (Signature) <i>Richard Lohry</i>	Date / Time 7/11 245
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	

Report to:
Name P. PAVLIKO
Street _____
City _____ State _____ Zip _____
Phone no. () _____
Fax no. () _____

Remarks:

Receipt pH _____
Receipt temp _____

ADVENT

ENVIRONMENTAL SERVICES, INC.

March 31, 1992

Mr. Tom Ravn
Environmental Engineer
Serigraph, Inc.
760 Indiana Avenue
P.O. Box 438
West Bend, WI 53095

JUL 31 1992

RE: Bi-annual groundwater sampling results for the Serigraph, Inc. site - Plant No. 1, 760 Indiana Avenue, West Bend, Wisconsin, 53095. AESI Project No. 95036.

The purpose of this letter is to document the results of the second round of groundwater monitoring at the Serigraph, Inc. site. The first round of sampling was completed on September 9, 1991. The results of the first round of sampling were documented in a report dated October 9, 1991.

The first round of sampling of the four monitoring wells at the site did not detect the presence of volatile organic compounds (VOCs), gasoline or diesel range organics (GROs or DROs) above laboratory detection levels. None of the total lead levels exceeded the Wisconsin Administrative Code - Chapter 140 - Preventive Action Limit (PAL) for lead.

On March 9, 1992, AESI completed the second round of groundwater sampling at the site. All wells were purged dry prior to sampling. Approximately 3 well volumes were removed from each well to assure the collection of a representative sample. When each well had recharged following the final purge cycle, a water sample was collected using a disposable polyethylene bailer. The contents of each bailer were poured into three 40 ml vials and one 1 liter amber glass jar. Each sample collected in a 40 ml vial was preserved with 12 drops of 50% HCL. All samples were packed in a cooler and transported to the laboratory with the chain of custody record.

Groundwater samples from each well were analyzed for petroleum volatile organic compounds (PVOCs) and DROs. Sample methodology is presented on the laboratory data sheets. The original laboratory data and chain of custody record are attached. Refer to Figure 1 for a site location map indicating the locations of monitoring wells and other site features.

March 31, 1992

Page 2

No PVOCs or DROs were detected above laboratory detection levels in groundwater samples collected from monitoring wells MW-1 (MW-1B), MW-3 (MW-3B), or MW-4 (MW-4B).

1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and o-xylene were detected in the sample collected from well MW-2 (MW-2B) at concentrations of 1.9 $\mu\text{g/l}$ (ppb), 1.0 $\mu\text{g/l}$, and 9.46 $\mu\text{g/l}$, respectively. The PAL for total xylene is 124 $\mu\text{g/l}$. No PALs for 1,2,4- or 1,3,5-trimethylbenzene have been established.

Based on the low PVOC levels detected during the second round of sampling, AESI recommends no corrective action at this time. AESI does recommend that the wells be sampled again in September 1992 to monitor PVOC and DRO levels.

If you have any questions concerning the work completed at the site, please contact me.

Sincerely,

ADVENT ENVIRONMENTAL SERVICES, INC.

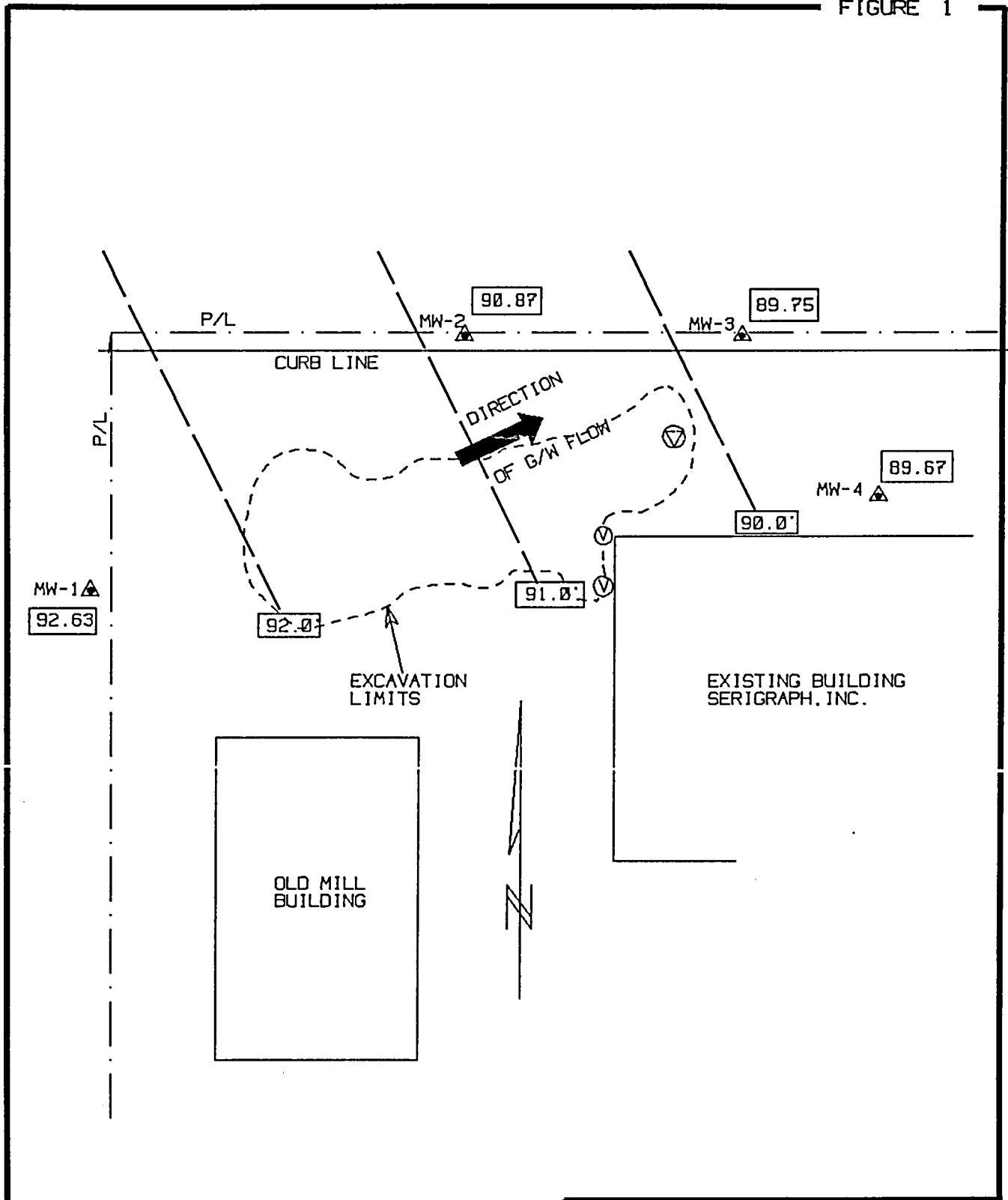


Peter E. Pavalko
Environmental Specialist

cc: Lust Coordinator - Washington County, WDNR, P.O. Box 12436, Milwaukee, WI 53212.

Mr. Russ Haupt, WDILHR, P.O. Box 7969, Madison, WI 53707.

FIGURE 1



LEGEND:

- ▲ - MONITORING WELL
- ⊕ - COLLECTION SUMP
- ▭ 00.00 - RELATIVE GROUNDWATER ELEVATIONS
- ⊕ - PROPOSED PASSIVE VENT LOCATION

<p>SERIGRAPH GROUNDWATER CONTOURS 95036</p>			
<p>ADVENT ENVIRONMENTAL SERVICES, INC.</p>			
<p>P. O. BOX 246 • PORT WASHINGTON, WI 53074 • 414-204-7447</p>			
<p>DRAFTER RICHARDSON</p>	<p>CHECKED <i>[Signature]</i></p>	<p>DATE 9/20/91</p>	<p>SCALE 1" = 50'</p>

AQUA-TECH INC.

140 South Park Street
Port Washington, Wisconsin 53074

March 31, 1992

Mr. Peter Pavalko
Advent Environmental Services, Inc.
P.O. Box 246
Port Washington, WI 53074

Sample Description: Serigraph
Lab No. W4938A-D
WO# 95036

Date Collected: 03-09-92

Date Received: 03-09-92

<u>Parameter</u>	<u>MW-1B</u> <u>W4938A</u>	<u>MW-2B</u> <u>W4938B</u>	<u>MW-3B</u> <u>W4938C</u>	<u>MW-4B</u> <u>W4938D</u>	<u>Detect.</u> <u>Limit</u>	<u>Date</u> <u>Anal.</u>
DRO (ppb)	ND	ND	ND	ND	100.	03-18-92

ND = Not Detected

DRO analyzed by methods from California Luft Manual.

Samples received in good condition, at 1.7°C.

Standards obtained from local vendor.

All analyses performed in house.



Bruce Ten Haken
Laboratory Supervisor
State Cert. No. 246049430

AQUA-TECH INC.

140 South Park Street
Port Washington, Wisconsin 53074

March 31, 1992

Mr. Peter Pavalko
Advent Environmental Services, Inc.
P.O. Box 246
Port Washington, WI 53074

Sample Description: Serigraph
Lab No. W4938A-D
WO# 95036

Date Collected: 03-09-92
Date Analyzed : 03-20-92

Date Received: 03-09-92

<u>Parameter</u>	<u>MW-1B W4938A</u>	<u>MW-2B W4938B</u>	<u>MW-3B W4938C</u>	<u>MW-4B W4938D</u>	<u>Detect. Limit</u>
Benzene	ND	ND	ND	ND	1.0 ppb
Ethylbenzene	ND	ND	ND	ND	1.0 ppb
Methyl-t-butyl ether	ND	ND	ND	ND	1.0 ppb
Toluene	ND	ND	ND	ND	1.0 ppb
1,2,4-Trimethylbenzene	ND	1.9	ND	ND	1.0 ppb
1,3,5-Trimethylbenzene	ND	1.0	ND	ND	1.0 ppb
m & p-Xylene	ND	ND	ND	ND	2.0 ppb
o-Xylene	ND	9.46	ND	ND	1.0 ppb

Units = ppb

ND = Not Detected

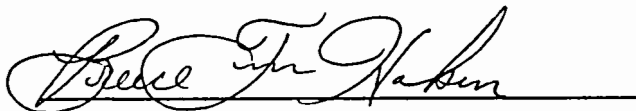
PVOC's analyzed by Method 8020 from SW-846.

Samples received in good condition, at 1.7°C.

Results based on dry weight.

Standards obtained from Macro Scientific and Supelco.

All analyses performed in house.



Bruce Ten Haken
Laboratory Supervisor
State Cert. No. 246049430



SAFETY & BUILDINGS DIVISION

201 E. Washington Avenue
P.O. Box 7969
Madison, Wisconsin 53707

State of Wisconsin
Department of Industry, Labor and Human Relations

March 10, 1992

Mr. John B. Torinus JR
Serigraph, Inc
760 Indiana Avenue
West Bend, WI 53095

RE: PECFA Reimbursement: (AST), Serigraph, Inc, 760 Indiana Avenue,
West Bend, WI 53095

Thank you for applying for reimbursement under the Environmental Cleanup Fund Program. Enclosed please find a check in the amount of \$169,319.68. This amount represents payment of eligible costs reimbursed under the PECFA program.

The reimbursement was calculated as follows:

Amount of claim	\$ 177,594.68
Additional amount eligible	\$.00
Amount not eligible	\$(775.00)
Deductible	\$(5,000.00)
5% Deductible for costs paid after 8-15-1991.	\$(2,500.00)
Sub Total	\$ 169,319.68
Percentage	\$ 100%
Total PECFA Payment	\$ 169,319.68
Available Balance Remaining	\$ 25,680.32

The total non-eligible costs are as follows:

1.) \$775.00 was deducted from this claim for the amount which was charged for vehicle charges, which were in addition to mobilization and mileage charges.

If there would be any further questions regarding these matters please free to contact me.

Sincerely,

BERNARD L. COXHEAD
PECFA Grant Reviewer
Bureau of Petroleum Inspection
and Fire Protection
(608) 267-1385

cc: Advent Environmental-Peter E. Pavalko
Thomas Ravn-Serigraph, Inc
Jeffery Fischer-WDNR - SED
Miles Mickelson-DILHR-PECFA

ADVENT

ENVIRONMENTAL SERVICES, INC.

December 16, 1991

Mr. Tom Ravn, Environmental Engineer
Serigraph, Inc.
760 Indiana Avenue
P.O. Box 438
West Bend, WI 53095

Dear Mr. Ravn:

RE: Additional soil remediation - passive vent installation - at the Serigraph, Inc. - Plant No. 1., 760 Indiana Avenue, West Bend, Wisconsin, 53095. AESI Project No. 95036.

The purpose of this letter is to provide documentation of the installation of two passive soil vents at the above referenced site. AESI proposed the installation of these vents in a letter dated October 9, 1991. Ms. Jennifer King reviewed and approved the plan in November 1991 (see WDNR letter dated November 13, 1991).

Based on your September 11, 1991 meeting with MR. Jeff Fischer, WDNR, AESI proposed the installation of two passive soil vents near the northwest corner of the facility. Soil samples collected from the 1.0 to 8.0 foot depth interval against the foundation of the building produced PID readings of 8 to 22 ppm. Laboratory analysis of a sample collected from this area indicated a DRO level of 6,440 mg/kg.

Two passive vents were installed at the site on December 3, 1991. The locations of the vents are depicted on Figure 1. Soil encountered during the installation of the vents had a moderate petroleum odor. The purpose of the vents is to provide a conduit for air infiltration to the sub-surface soils and enhance microbial activity and increase the bio-degradation rate of petroleum hydrocarbons.

Figure 2 depicts the construction specifications for the passive vents installed at the site. The vents were installed by Wisconsin Soil Testing, Inc., Butler, Wisconsin.

AESI recommended that the groundwater be monitored through sampling on a bi-annual basis for no less than two years from the initial sampling date. Based on the initial groundwater sampling results and the nature of the remaining contaminated soil at the site (diesel fuel), AESI recommended that all subsequent samples be analyzed for DROs and PVOCs. The next (2nd) groundwater sampling round will be completed in March of 1992.

Mr. Tom Ravn
Page 2
December 16, 1991

Copies of this letter and all attachments have been submitted by AESI to:

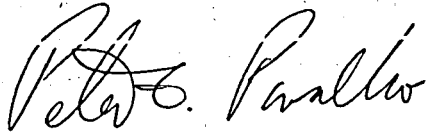
Ms Jennifer King (LUST Coordinator - Washington County)
Wisconsin DNR, Southeast District
2300 N. Dr. Martin Luther King, Jr. Dr.
P.O. Box 12436
Milwaukee, WI 53212.

Wisconsin Department of Industry, Labor, and Human Relations
Bureau of Petroleum Inspection and Fire Protection
P.O. Box 7969
Madison, WI 53707

If you have any questions concerning these recommendations, please contact me.

Sincerely,

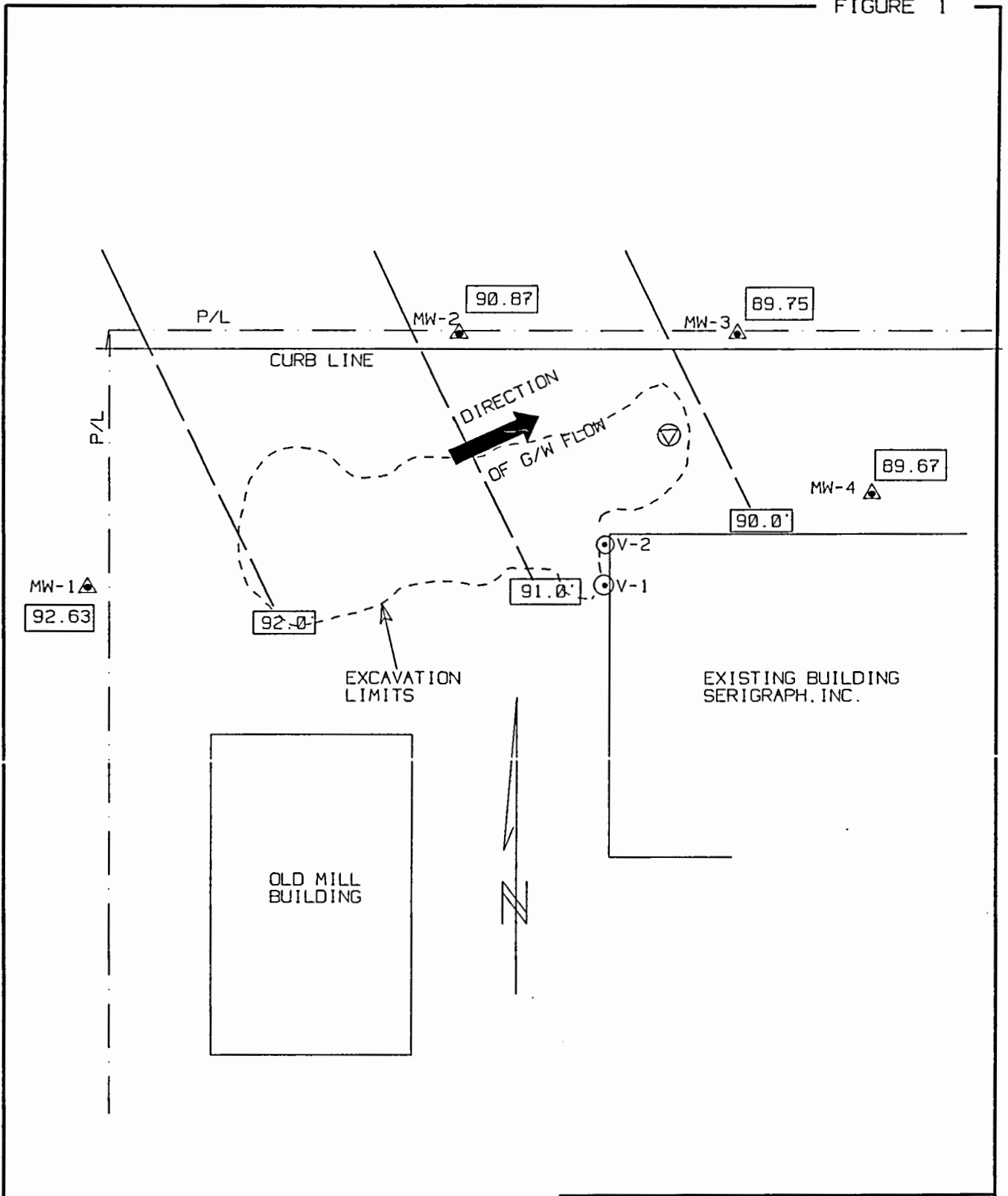
ADVENT ENVIRONMENTAL SERVICES, INC.



Peter E. Pavalko
Environmental Specialist

PEP/wp/AV95036.vnt

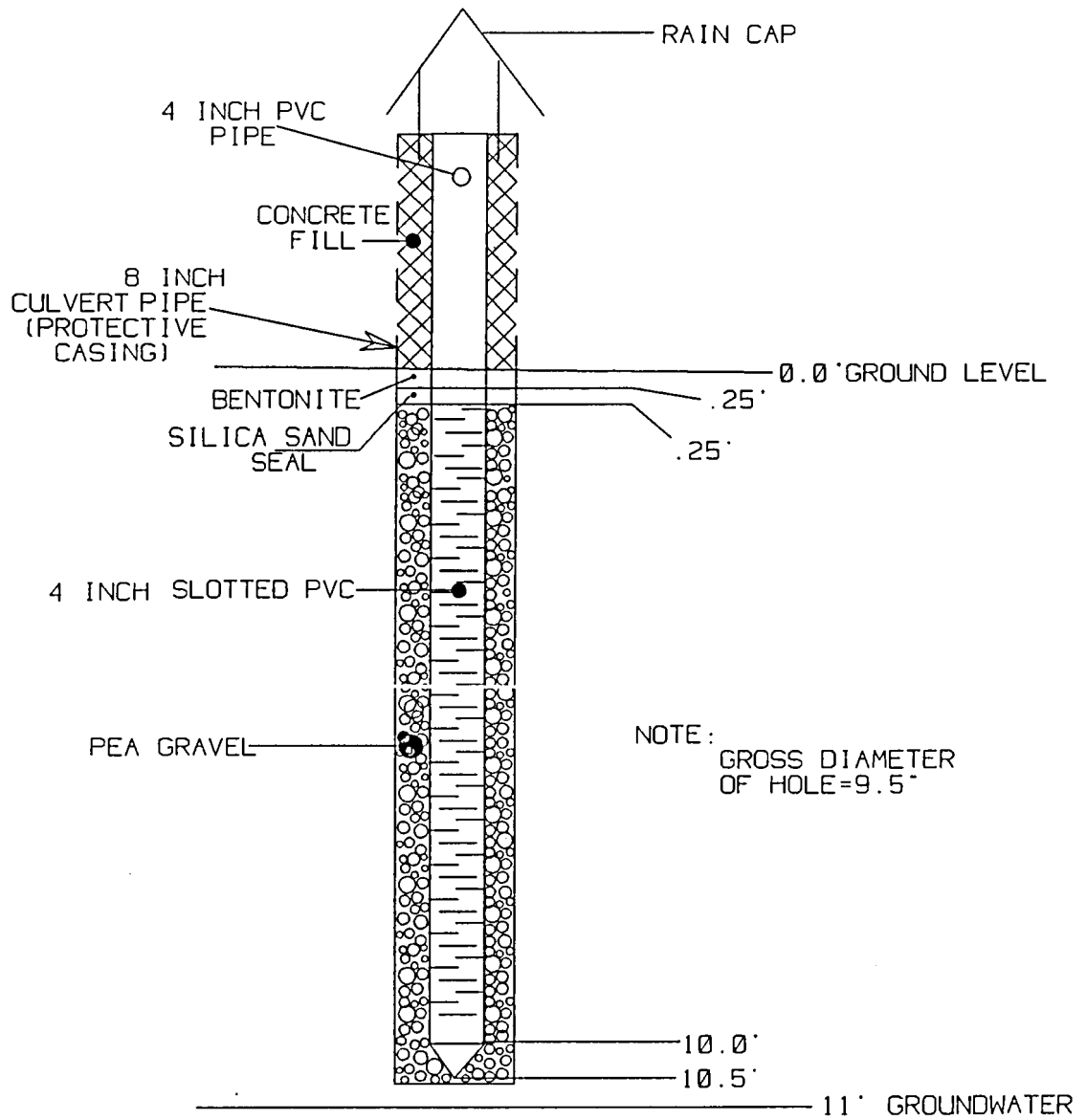
FIGURE 1



LEGEND:

- ▲ - MONITORING WELL
- ▽ - COLLECTION SUMP
- 00.00 - RELATIVE GROUNDWATER ELEVATIONS
- ⊙ - PASSIVE VENT LOCATION

SERIGRAPH			
GROUNDWATER CONTOURS			
95036			
ADVENT			
ENVIRONMENTAL SERVICES, INC.			
<small>P.O. BOX 246 • PORT WASHINGTON, WI 53074 • 414-284-7447</small>			
<small>DRAFTER</small> RICHARDSON	<small>CHECKED</small> <i>REP</i>	<small>DATE</small> 9/20/91	<small>SCALE</small> 1"=50'



95036

SERIGRAPH
PASSIVE VENTS V-1 & V-2
CONSTRUCTION REPORT

ADVENT
ENVIRONMENTAL SERVICES, INC.

P. O. BOX 246 ■ PORT WASHINGTON, WI 53074 ■ 414-284-7447

<small>DRAFTER</small> RICHARDSON	<small>CHECKED</small> <i>PCP</i>	<small>DATE</small> 9/18/91	<small>SCALE</small> 1" = 2.75'
--------------------------------------	--------------------------------------	--------------------------------	------------------------------------

ADVENT

ENVIRONMENTAL SERVICES, INC

November 14, 1991

Ms. Jennifer King
Wisconsin Department of Natural Resources
2300 N. Dr. Martin Luther King Jr. Dr.
P.O. Box 12436
Milwaukee, WI 53212

Dear Ms. King:

RE: Completion and submittal of Forms 4400-122, 4400-113A,
and 4400-113B for the Serigraph, Inc. site, West Bend,
WI.

Enclosed find WDNR Forms referenced above for the four monitoring
wells at the Serigraph, Inc. site.

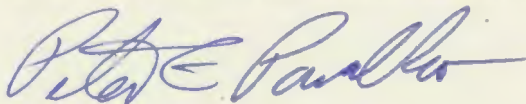
Thank you for approving the additional soil remediation plan and
groundwater monitoring for the Serigraph site presented to the WDNR
in our letter dated October 9, 1991.

The passive soil vents will be installed in early December. The
groundwater wells will be sampled again in March of 1992. The
results of this sampling will be submitted to the WDNR within two
weeks of receiving the laboratory results.

If you have any additional comments or questions, please call me.

Sincerely,

ADVENT ENVIRONMENTAL SERVICES, INC.



Peter E. Pavalko
Environmental Specialist

cc: Tom Ravn
Serigraph, Inc.
760 Indiana Ave.
West Bend, Wisconsin 53095

- Solid Waste Haz. Waste
 Emergency Response Underground Tanks
 Wastewater Water Resources
 Other _____

Facility/Project Name SERIGRAPH INC. 760 INDIANA AVENUE		License/Permit/Monitoring Number _____		Boring Number MW-1	
Boring Drilled By (Firm name and name of crew chief) WISCONSIN SOIL TESTING MATT		Date Drilling Started 09/06/91 MM DD YY		Date Drilling Completed 09/06/91 MM DD YY	
DNR Facility Well No. _____		WI Unique Well No. _____		Common Well Name MW-1	
Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL		Borehole Diameter OD 9.25 inches	
Boring Location State Plane _____ N. _____ E S/C/N Lat _____				Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
SE 1/4 of SW 1/4 of Section 13 , T 11 N, R 19 (E/W) Long _____				County WASHINGTON	
DNR County Code _____		Civil Town/City/ or Village WEST BEND			

Sample Number	Length Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For: Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties				RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	
			5 10 15	<p>FINE TO MED. GRAIN SAND w/ TRACES OF GRAVEL, COBBLES</p> <p>TERMINATED BORING AT 15.5'</p> <p>NO SOIL SAMPLES COLLECTED w/ SPLIT SPOON SAMPLER. CUTTINGS SCREENED w/ P10.</p> <p>WATER ENCOUNTERED AT 10'-11"</p> <p>MONITORING WELL MW-1 INSTALLED IN THIS WELL.</p>	SP		SEE FORM 4400-113A	0 0 0 0	DRY ↓ MOIST WET				

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

Signature Peter G. Parallo Firm ADVENT ENVIRONMENTAL SERVICES, INC.

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.

Route To:

- Solid Waste
- Emergency Response
- Wastewater
- Haz. Waste
- Underground Tanks
- Water Resources
- Other _____

Facility/Project Name _____ License/Permit/Monitoring Number _____ Boring Number _____

SERIGRAPH INC. 760 INDIANA AVENUE _____ MW-2

Boring Drilled By (Firm name and name of crew chief) _____ Date Drilling Started _____ Date Drilling Completed _____ Drilling Method _____

WISCONSIN SOIL TESTING 09/06/91 09/06/91 HOLLOW STEM AUGER
MATT MM DD YY MM DD YY

DNR Facility Well No. _____ WI Unique Well No. _____ Common Well Name MW-2 Final Static Water Level _____ Surface Elevation _____ Borehole Diameter OD _____
_____ Feet MSL _____ Feet MSL 9.25 inches

Boring Location State Plane _____ N _____ E S/C/N _____ Lat _____ Local Grid Location (If applicable) _____
_____ Feet N E

SE 1/4 of SW 1/4 of Section 13, T 11 N, R 19 E Long _____ Feet S _____ Feet W

County WASHINGTON DNR County Code _____ Civil Town/City/ or Village WEST BEND

Sample Number	Length Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties				RQD/ Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit		P 200
			5	FINE TO MED. GRAIN SAND w/ TRACES OF GRAVEL, COBBLES	SP			0		DRY				
			10					0		↓				
			15					0		MOIST WET				
				TERMINATED BORING AT 15.5' No soil samples collected w/ split spoon sampler. CUTTINGS SCREENED w/ P.I.D. WATER ENCOUNTERED AT 10'-11" MONITORING WELL MW-2 INSTALLED IN THIS WELL.			SEE FORM 4400-113A	0						

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

Signature Peter B. Pawalko Firm ADVENT ENVIRONMENTAL SERVICES, INC.

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.

Route To:

- Solid Waste Haz. Waste
 Emergency Response Underground Tanks
 Wastewater Water Resources
 Other _____

Facility/Project Name: SERIGRAPH INC. 760 INDIANA AVENUE License/Permit/Monitoring Number: _____ Boring Number: MW-3

Boring Drilled By (Firm name and name of crew chief): WISCONSIN SOIL TESTING MATT Date Drilling Started: 09/06/91 Date Drilling Completed: 09/06/91 Drilling Method: HOLLOW STEM AUGER

DNR Facility Well No.: _____ WI Unique Well No.: _____ Common Well Name: MW-3 Final Static Water Level: _____ Feet MSL Surface Elevation: _____ Feet MSL Borehole Diameter OD: 9.25 inches

Boring Location: State Plane _____ N. _____ E S/C/N _____ Lat _____ Long _____ Local Grid Location (If applicable): _____ Feet N E S W

County: WASHINGTON DNR County Code: _____ Civil Town/City/ or Village: WEST BEND

Sample Number	Length Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
			5	FINE TO MED. GRAIN SAND w/ TRACES OF GRAVEL, COBBLES	SP		SEE FORM 4400-113A	0		DRY ↓ MOIST WET					
			10												
			15												
			15.5												
			15.5												
				TERMINATED BORING AT 15.5' NO SOIL SAMPLES COLLECTED w/ SPLIT SPOON SAMPLER. CUTTINGS SCREENED w/ PID. WATER ENCOUNTERED AT 10'-11" MONITORING WELL MW-3 INSTALLED IN THIS WELL.											

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

Signature: Peter B. Pawalko Firm: ADVENT ENVIRONMENTAL SERVICES, INC.

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 no: 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.

Facility/Project Name: SERIGRAPH INC. 760 INDIANA AVENUE License/Permit/Monitoring Number: _____ Boring Number: MW-4

Boring Drilled By (Firm name and name of crew chief): WISCONSIN SOIL TESTING Date Drilling Started: 09/06/91 Date Drilling Completed: 09/06/91 Drilling Method: HOLLOW STEM AUGER
MATT MM DD YY MM DD YY

DNR Facility Well No.: _____ WI Unique Well No.: _____ Common Well Name: MW-4 Final Static Water Level: _____ Feet MSL Surface Elevation: _____ Feet MSL Borehole Diameter OD: 9.25 inches

Boring Location: State Plane _____ N. _____ E S/C/N _____ Lat _____ Local Grid Location (If applicable): _____ N _____ E
SE 1/4 of SW 1/4 of Section 13, T 11 N, R 19 E/W Long _____ Feet _____ S _____ Feet _____ W

County: WASHINGTON DNR County Code: _____ Civil Town/City/ or Village: WEST BEND

Sample Number	Length Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties				RQD/ Comments
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	
			5	FINE TO MED. GRAIN SAND w/ TRACES OF GRAVEL, COBBLES	SP		SEE FORM 4400-113A	0	DRY				
			10			0			0	↓			
			15			0			0	MOIST WET			
			15.5	TERMINATED BORING AT 15.5' No soil samples collected w/ split spoon sampler. CUTTINGS SCREENED w/ PID. WATER ENCOUNTERED AT 10'-11' MONITORING WELL MW-4 INSTALLED IN THIS WELL.				0					

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

Signature: Peter G. Pavallo Firm: ADVENT ENVIRONMENTAL SERVICES, INC.

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.

Facility/Project Name SERIGRAPH, INC.	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name MW-1
Facility License, Permit or Monitoring Number	Grid Origin Location Lat. _____ Long. _____ or St. Plane _____ ft. N. _____ ft. E.	Wis. Unique Well Number _____ DNR Well Number _____
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	Section Location of Waste/Source SE 1/4 of SW 1/4 of Sec. 13, T. 11 N, R. 17 E. W.	Date Well Installed 09/06/91 m m d d y y
Distance Well Is From Waste/Source Boundary ≈ 30' ft.	Location of Well Relative to Waste/Source u <input checked="" type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Well Installed By: (Person's Name and Firm) MATT-WIS. SOIL TESTING
Is Well A Point of Enforcement Std. Application? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		P. PAVAIKO-ADVENT ENVIR. SER. INC.

A. Protective pipe, top elevation _____ 2.50 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ 2.40 ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ 4.0 in. b. Length: _____ 5.0 ft. c. Material: _____ Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation _____ 0.0 ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or 1.0 ft.	3. Surface seal: _____ Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input checked="" type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	4. Material between well casing and protective pipe: _____ Bentonite <input type="checkbox"/> 30 Annular space seal <input type="checkbox"/> Other <input checked="" type="checkbox"/> FLINT SAND
13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: _____ Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite pellets <input type="checkbox"/> 32 c. BENTONITE CRUMBS Other <input checked="" type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name & mesh size a. SILICA SAND b. Volume added _____ ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	8. Filter pack material: Manufacturer, product name and mesh size a. RED FLINT SAND b. Volume added _____ ft ³
Describe _____	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
17. Source of water (attach analysis): _____	10. Screen material: 2" PVC a. Screen type: _____ Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or 1.0 ft.	b. Manufacturer _____ c. Slot size: _____ 0.010 in. d. Slotted length: _____ 10.0 ft.
F. Fine sand, top _____ ft. MSL or 4.0 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
G. Filter pack, top _____ ft. MSL or 4.5 ft.	
H. Screen joint, top _____ ft. MSL or 5.0 ft.	
I. Well bottom _____ ft. MSL or 15.5 ft.	
J. Filter pack, bottom _____ ft. MSL or 15.5 ft.	
K. Borehole, bottom _____ ft. MSL or 15.5 ft.	
L. Borehole, diameter 9.25 in.	
M. O.D. well casing 2.0 in.	
N. I.D. well casing 1.8 in.	

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

Signature *P. Pavai* Firm ADVENT ENVIRONMENTAL SERVICES, INC.

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch. 144, Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

Route to: Solid Waste Haz. Waste Wastewater
Env. Response & Repair Underground Tanks Other _____

Facility/Project Name <u>SERIGRAPH, INC.</u>	County Name <u>WASHINGTON</u>	Well Name <u>MW-1</u>
Facility License, Permit or Monitoring Number _____	County Code _____	Wis. Unique Well Number _____
		DNR Well Number _____

1. Can this well be purged dry? Yes No

2. Well development method

surged with bailer and bailed	<input checked="" type="checkbox"/> 41
surged with bailer and pumped	<input type="checkbox"/> 61
surged with block and bailed	<input type="checkbox"/> 42
surged with block and pumped	<input type="checkbox"/> 62
surged with block, bailed and pumped	<input type="checkbox"/> 70
compressed air	<input type="checkbox"/> 20
bailed only	<input type="checkbox"/> 10
pumped only	<input type="checkbox"/> 51
pumped slowly	<input type="checkbox"/> 50
Other _____	<input type="checkbox"/> _____

3. Time spent developing well ≈ 90 min.

4. Depth of well (from top of well casing) 18.0 ft.

5. Inside diameter of well 1.80 in.

6. Volume of water in filter pack and well casing ≈ 7.3 gal.

7. Volume of water removed from well 25.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>≈ 10.00</u> ft.	<u>≈ 13.00</u> ft.
Date	b. <u>09/09/91</u> m m d d y y	<u>09/09/91</u> m m d d y y
Time	c. <u>8:00</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>9:30</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	<u>≈ 2.0</u> inches	<u>0.0</u> inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) _____	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) _____
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm	I hereby certify that the above information is true and correct to the best of my knowledge.
Name: <u>PETER E. PAVALKO</u>	Signature: <u><i>Peter E. Pavalko</i></u>
Firm: <u>ADVENT ENVIRONMENTAL SERVICES INC.</u>	Print Initials: <u>PEP</u>
	Firm: <u>ADVENT ENVIR. SERVICES, INC.</u>

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

Facility/Project Name SERIGRAPH, INC.	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name MW-2
Facility License, Permit or Monitoring Number	Grid Origin Location Lat. _____ Long. _____ or St. Plane _____ ft. N. _____ ft. E.	Wis. Unique Well Number _____ DNR Well Number _____
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	Section Location of Waste/Source SE 1/4 of SW 1/4 of Sec. 13, T. 11 N, R. 17 E W.	Date Well Installed 09/06/91 m m d d y y
Distance Well Is From Waste/Source Boundary ≈ 30' ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input checked="" type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Well Installed By: (Person's Name and Firm) MATT-WIS. SOIL TESTING
Is Well A Point of Enforcement Std. Application? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		P. PAVAIKO-ADVENT ENVIR. SER. INC.

A. Protective pipe, top elevation	2.50 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	2.40 ft. MSL	2. Protective cover pipe: a. Inside diameter: 4.0 in. b. Length: 5.0 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation	0.0 ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom	1.0 ft. MSL	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input checked="" type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Annular space seal <input type="checkbox"/> Other <input checked="" type="checkbox"/> FLINT SAND
13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		5. Annular space seal: a. Granular Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>		6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite pellets <input type="checkbox"/> 32 c. BENTONITE CRUMBS Other <input checked="" type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99		7. Fine sand material: Manufacturer, product name & mesh size a. SILICA SAND b. Volume added _____ ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		8. Filter pack material: Manufacturer, product name and mesh size a. RED FLINT SAND b. Volume added _____ ft ³
Describe _____		9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
17. Source of water (attach analysis):		10. Screen material: 2" PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
E. Bentonite seal, top	1.0 ft. MSL or	b. Manufacturer _____ c. Slot size: 0.010 in. d. Slotted length: 19.0 ft.
F. Fine sand, top	4.0 ft. MSL or	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
G. Filter pack, top	4.5 ft. MSL or	
H. Screen joint, top	5.0 ft. MSL or	
I. Well bottom	15.5 ft. MSL or	
J. Filter pack, bottom	15.5 ft. MSL or	
K. Borehole, bottom	15.5 ft. MSL or	
L. Borehole, diameter	9.25 in.	
M. O.D. well casing	2.0 in.	
N. I.D. well casing	1.8 in.	

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

Signature P. Pavai Firm ADVENT ENVIRONMENTAL SERVICES, INC.

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch. 144, Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

Route to: Solid Waste Haz. Waste Wastewater
Env. Response & Repair Underground Tanks Other

Facility/Project Name <u>SERIGRAPH, INC.</u>	County Name <u>WASHINGTON</u>	Well Name <u>MW-2</u>
Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number
		DNR Well Number

1. Can this well be purged dry? Yes No

2. Well development method

surged with bailer and bailed	<input checked="" type="checkbox"/>	41
surged with bailer and pumped	<input type="checkbox"/>	61
surged with block and bailed	<input type="checkbox"/>	42
surged with block and pumped	<input type="checkbox"/>	62
surged with block, bailed and pumped	<input type="checkbox"/>	70
compressed air	<input type="checkbox"/>	20
bailed only	<input type="checkbox"/>	10
pumped only	<input type="checkbox"/>	51
pumped slowly	<input type="checkbox"/>	50
Other	<input type="checkbox"/>	

3. Time spent developing well ~ 9.0 min.

4. Depth of well (from top of well casing) 18.0 ft.

5. Inside diameter of well 1.80 in.

6. Volume of water in filter pack and well casing ~ 7.3 gal.

7. Volume of water removed from well 25.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>~ 10.00</u> ft.	<u>~ 13.00</u> ft.
Date	b. <u>09/09/91</u> m m d d y y	<u>09/09/91</u> m m d d y y
Time	c. <u>9:30</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	<u>11:00</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	<u>~ 2.0</u> inches	<u>0.0</u> inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe)	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe)
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm	I hereby certify that the above information is true and correct to the best of my knowledge.
Name: <u>PETER E. PAVALKO</u>	Signature: <u><i>Peter E. Pavalko</i></u>
Firm: <u>ADVENT ENVIRONMENTAL SERVICES INC.</u>	Print Initials: <u>PEP</u>
	Firm: <u>ADVENT ENVIR. SERVICES, INC.</u>

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

Facility/Project Name SERIGRAPH, INC.	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name MW-3
Facility License, Permit or Monitoring Number	Grid Origin Location Lat. _____ Long. _____ or St. Plane _____ ft. N. _____ ft. E.	Wis. Unique Well Number _____ DNR Well Number _____
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	Section Location of Waste/Source SE 1/4 of SW 1/4 of Sec. 13, T. 11 N, R. 17	Date Well Installed 09/06/91 m m d d y y
Distance Well Is From Waste/Source Boundary ≈ 30'	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Well Installed By: (Person's Name and Firm) MATT-WIS. SOIL TESTING P. PAVAIKO-ADVENT ENVIR. SER. INC.
Is Well A Point of Enforcement Std. Application? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

A. Protective pipe, top elevation	2.50 ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	2.40 ft. MSL	2. Protective cover pipe: a. Inside diameter: 4.0 in. b. Length: 5.0 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation	0.0 ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom	1.0 ft. MSL	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input checked="" type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Annular space seal <input type="checkbox"/> Other <input checked="" type="checkbox"/> FLINT SAND
13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		5. Annular space seal: a. Granular Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>		6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite pellets <input type="checkbox"/> 32 c. BENTONITE CRUMBLE Other <input checked="" type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99		7. Fine sand material: Manufacturer, product name & mesh size a. SILICA SAND
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		b. Volume added _____ ft ³
Describe _____		8. Filter pack material: Manufacturer, product name and mesh size a. RED FLINT SAND
17. Source of water (attach analysis):		b. Volume added _____ ft ³
E. Bentonite seal, top	1.0 ft. MSL or	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
F. Fine sand, top	4.0 ft. MSL or	10. Screen material: 2" PVC
G. Filter pack, top	4.5 ft. MSL or	a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
H. Screen joint, top	5.0 ft. MSL or	b. Manufacturer _____
I. Well bottom	15.5 ft. MSL or	c. Slot size: 0.010 in.
J. Filter pack, bottom	15.5 ft. MSL or	d. Slotted length: 10.0 ft.
K. Borehole, bottom	15.5 ft. MSL or	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
L. Borehole, diameter	9.25 in.	
M. O.D. well casing	2.0 in.	
N. I.D. well casing	1.8 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature P. Pavai Firm ADVENT ENVIRONMENTAL SERVICES, INC.

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Route to: Solid Waste Haz. Waste Wastewater
Env. Response & Repair Underground Tanks Other

Facility/Project Name <u>SERIGRAPH, INC.</u>	County Name <u>WASHINGTON</u>	Well Name <u>MW-3</u>
Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number
		DNR Well Number

1. Can this well be purged dry? Yes No
2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other
3. Time spent developing well ~ 9.0 min.
4. Depth of well (from top of well casing) 18.0 ft.
5. Inside diameter of well 1.80 in.
6. Volume of water in filter pack and well casing ~ 7.3 gal.
7. Volume of water removed from well 25.0 gal.
8. Volume of water added (if any) 0.0 gal.
9. Source of water added _____
10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>~ 10.00</u> ft.	<u>~ 13.00</u> ft.
Date	b. <u>09/09/91</u> m m d d y y	<u>09/09/91</u> m m d d y y
Time	c. <u>11:00</u> <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>12:30</u> <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	<u>~ 2.0</u> inches	<u>0.0</u> inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe)	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe)
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: PETER E. PAVALKO

Firm: ADVENT ENVIRONMENTAL SERVICES, INC.

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

Signature: *Peter E. Pavalko*

Print Initials: PEP

Firm: ADVENT ENVIR. SERVICES, INC.

Facility/Project Name SERIGRAPH, INC.	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name MW-4 *
Facility License, Permit or Monitoring Number	Grid Origin Location Lat. _____ Long. _____ or St. Plane _____ ft. N. _____ ft. E.	Wis. Unique Well Number _____ DNR Well Number _____
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	Section Location of Waste/Source SE 1/4 of SW 1/4 of Sec. 13, T. 11 N, R. 17 E. W.	Date Well Installed 09/06/91 m m d d y y
Distance Well Is From Waste/Source Boundary ≈ 30' ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient * d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Well Installed By: (Person's Name and Firm) MATT-WIS. SOIL TESTING P. PAVAIKO-ADVENT ENVIR. SER. INC.

A. Protective pipe, top elevation	_____ ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	_____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in.
C. Land surface elevation	_____ ft. MSL	b. Length: _____ ft.
D. Surface seal, bottom	_____ ft. MSL or _____ ft.	c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input checked="" type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____
13. Sieve analysis attached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
14. Drilling method used:	Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Annular space seal <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99		5. Annular space seal: a. Granular Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite pellets <input type="checkbox"/> 32 c. BENTONITE CRUMBLER Other <input checked="" type="checkbox"/>
Describe _____		7. Fine sand material: Manufacturer, product name & mesh size a. SILICA SAND
17. Source of water (attach analysis):		b. Volume added _____ ft ³
E. Bentonite seal, top	_____ ft. MSL or _____ ft.	8. Filter pack material: Manufacturer, product name and mesh size a. RED FLINT SAND
F. Fine sand, top	_____ ft. MSL or _____ ft.	b. Volume added _____ ft ³
G. Filter pack, top	_____ ft. MSL or _____ ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
H. Screen joint, top	_____ ft. MSL or _____ ft.	10. Screen material: 2" PVC
I. Well bottom	_____ ft. MSL or _____ ft.	a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
J. Filter pack, bottom	_____ ft. MSL or _____ ft.	b. Manufacturer _____
K. Borehole, bottom	_____ ft. MSL or _____ ft.	c. Slot size: _____ in.
L. Borehole, diameter	9.25 in.	d. Slotted length: _____ ft.
M. O.D. well casing	2.0 in.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
N. I.D. well casing	1.8 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature P. Pavai Firm **ADVENT ENVIRONMENTAL SERVICES, INC.**

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch. 144, Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

Route to: Solid Waste Haz. Waste Wastewater
Env. Response & Repair Underground Tanks Other _____

Facility/Project Name <u>SERIGRAPH, INC.</u>	County Name <u>WASHINGTON</u>	Well Name <u>MW-4</u>	
Facility License, Permit or Monitoring Number _____	County Code _____	Wis. Unique Well Number _____	DNR Well Number _____

1. Can this well be purged dry? Yes No

2. Well development method

surged with bailer and bailed	<input checked="" type="checkbox"/>	41
surged with bailer and pumped	<input type="checkbox"/>	61
surged with block and bailed	<input type="checkbox"/>	42
surged with block and pumped	<input type="checkbox"/>	62
surged with block, bailed and pumped	<input type="checkbox"/>	70
compressed air	<input type="checkbox"/>	20
bailed only	<input type="checkbox"/>	10
pumped only	<input type="checkbox"/>	51
pumped slowly	<input type="checkbox"/>	50
Other _____	<input type="checkbox"/>	_____

3. Time spent developing well ~ 0 min.

4. Depth of well (from top of well casing) 18.0 ft.

5. Inside diameter of well 1.80 in.

6. Volume of water in filter pack and well casing ~ 7.3 gal.

7. Volume of water removed from well 25.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>~ 10.00</u> ft.	<u>~ 13.00</u> ft.
Date	b. <u>09/09/91</u> m m d d y y	<u>09/09/91</u> m m d d y y
Time	c. <u>1:00</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	<u>2:30</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	<u>~ 2.0</u> inches	<u>0.0</u> inches
13. Water clarity	Clear <input type="checkbox"/> 10	Clear <input checked="" type="checkbox"/> 20
	Turbid <input checked="" type="checkbox"/> 15	Turbid <input type="checkbox"/> 25
	(Describe) _____	(Describe) _____
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: PETER E. PAVALKO

Firm: ADVENT ENVIRONMENTAL SERVICES, INC.

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

Signature: *Peter E. Pavalko*

Print Initials: PEP

Firm: ADVENT ENVIR. SERVICES, INC.

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Carroll D. Besadny
Secretary

Southeast District
2300 N. Dr. Martin Luther King Jr. Dr.
Post Office Box 12436
Milwaukee, Wisconsin 53212
Telephone: 414-263-8500
Telefax: 414-263-8483

November 13, 1991

File Ref: 4440

Tom Raven
Serigraph, Inc.
760 Indiana Avenue
P.O. Box 438
West Bend, Wisconsin 53095

Dear Mr. Raven:

RE: Proposed ground water monitoring and soil remediation at the Serigraph
No. 1 Site, 760 Indiana Avenue, West Bend.

This letter acknowledges the receipt of the Groundwater Monitoring and Additional Soil Remediation Plan, for the above referenced site, submitted on your behalf by Advent Environmental Services, Inc.. The Wisconsin Department of Natural Resources (WDNR) approves this plan as proposed but reserves the right to require additional work if results of this investigation and monitoring program prove insufficient.

The WDNR requests that within 15 days you submit completed Soil Boring Log Information Forms (4400-122) and Monitoring Well Development Forms (4400-113B) for Monitoring Wells 1 through 4 that were installed on September 9, 1991. The WDNR also requests that in the future you utilize these forms mentioned above and the Monitoring Well Construction Form (4400-113A). See attachments.

The Department appreciates your cooperation in cleaning up contamination at this site and your patience in awaiting a response. If you have any questions about this letter, you may contact me at 414-263-8650, or write to me at the address shown in the letterhead.

Sincerely,

Jennifer D. King
Hydrogeologist
Environmental Response

c: Peter E. Pavalko - Advent Environmental Services, Inc.
SED Case File

Enclosures: Monitoring Well Construction Form 4400-113A
Monitoring Well Development Form 4400-113B
Soil Boring Log Information Form 4400-122

ADVENT

October 9, 1991

Mr. Tom Ravn
Environmental Engineer
Serigraph, Inc.
760 Indiana Avenue
P.O. Box 438
West Bend, WI 53095

Dear Mr. Ravn:

Re: Groundwater monitoring and additional soil remediation at the Serigraph, Inc. - Plant No. 1 Site, 760 Indiana Avenue, West Bend, Wisconsin, 53095. AESI Project No. 95036

The purpose of this letter is to update you on groundwater monitoring activities since the completion of excavation operations at the Serigraph site in July 1991. This letter will also address the installation of a passive soil venting system.

Groundwater Monitoring

Because petroleum contamination had intercepted the groundwater table at the site, Advent Environmental Services, Inc. (AESI) recommended additional groundwater monitoring at the site to determine the extent and degree of groundwater contamination (see AESI Environmental Assessment Report for Serigraph, Inc. - Plant No. 1, September 1991).

On September 6, 1991, Peter E. Pavalko of AESI supervised the installation of four groundwater monitoring wells around the perimeter of the excavation limits. The number and location of the groundwater monitoring wells were approved by Jeff Fischer, Hydrogeologist, WDNR Environmental Repair Section, prior to installation. The wells were installed and surveyed by Wisconsin Soil Testing, Germantown, Wisconsin. The exact locations of the monitoring wells are depicted in Figure 1. The wells were installed according to Wisconsin Department of Natural Resources (WDNR) guidelines as outlined in Wisconsin Administrative Code-Chapters NR 141.10 to 141.19. Monitoring well construction reports are provided in Attachment A.

Soil cuttings produced during the installation of the wells were screened with a calibrated photoionization detector (PID). No PID readings above 0.10 ppm were recorded. Groundwater was encountered during the installation of each well at a depth of approximately 10.0 feet.

Mr. Tom Ravn
October 9, 1991
Page Two

On September 9, 1991, Peter Pavalko returned to the site to sample the wells and collect groundwater level data. The wells were developed according to WDNR guidelines as outlined in Chapter NR 141.21. All purge water was drummed and left on-site pending laboratory analyses. Following development, each well was sampled using a disposable polyethylene bailer. The contents of each bailer were poured into four 40 ml vials, one 1 liter glass amber jar, and one 250 ml plastic jar. Samples were preserved (see Chain of Custody for preservative codes) and cooled to 4°C for transport to the laboratory.

Groundwater samples from each well were analyzed for volatile organic compounds (VOCs), petroleum volatile organic compounds (PVOCs), gasoline and diesel range organics (GROs and DROs), and total lead. Sample methodology is presented on the laboratory data sheets. See Attachment B for the original laboratory data.

Hydrogeologic data collected during these activities indicate that the groundwater in the investigated area is flowing to the northeast. Groundwater contours and the relative groundwater elevations of each well are shown on Figure 1. The hydraulic gradient throughout the site is 0.011 feet per foot. The locations of monitoring wells MW-2, MW 3, and MW 4 should be adequate to determine if petroleum constituents are migrating from the excavation limits. Monitoring well MW-1 will provide background groundwater data.

Laboratory analyses of the samples collected from the site did not indicate the presence of VOCs, PVOCs, GROs, or DROs above their respective laboratory detection levels. A total lead level of 1.80 ug/l was detected in sample MW-1A. The Preventive Action Limit for lead in groundwater is 5.0 ug/l. No lead levels above the 1.34 ug/l laboratory detection limit were detected in samples MW-2A, MW-3A, or MW-4A.

AESI recommends that groundwater be sampled biannually for two years from the initial sampling date. Based on the initial groundwater sampling results and the nature of the remaining contaminated soil at the site (diesel fuel), AESI recommends that all subsequent samples be analyzed for DROs and PVOCs.

Mr. Tom Ravn

October 9, 1991

Page Three

Additional Soil Remediation

Based on your September 1, 1991 meeting with Mr. Jeff Fischer of WDNR, AESI proposes the installation of two passive soil vents near the northwest corner of the facility. Soil samples collected from the 1.0- to 8.0-foot depth interval against the foundation of the building produced PID readings of 8 to 22 ppm. Laboratory analysis of a sample collected from this area indicated a DRO compound level of 6,400 mg/kg.

The approximate locations of the vents are depicted in Figure 1. The purpose of the vents is to provide a conduit for air infiltration to the subsurface soils and enhance microbial activity and increase the biodegradation rate of petroleum hydrocarbons. Figure 2 depicts the design specifications for the passive vents to be installed at the site. AESI recommends that the vents be installed as soon as possible in order to reduce the potential for the remaining contaminated soil to act as a source of groundwater contamination.

AESI has forwarded a copy of this letter and all attachments to:

LUST Coordinator - Washington County
Wisconsin DNR, Southeast District
2300 N. Dr. Martin Luther King, Jr. Drive
P.O. Box 12436
Milwaukee, WI 53212

Wisconsin Department of Industry, Labor and Human Relations
Bureau of Petroleum Inspection and Fire Protection
P.O. Box 7969
Madison, WI 53707

Mr. Tom Ravn

October 9, 1991

Page Four

If you have any questions concerning these recommendations, please contact me.

Sincerely,

ADVENT ENVIRONMENTAL SERVICES, INC.

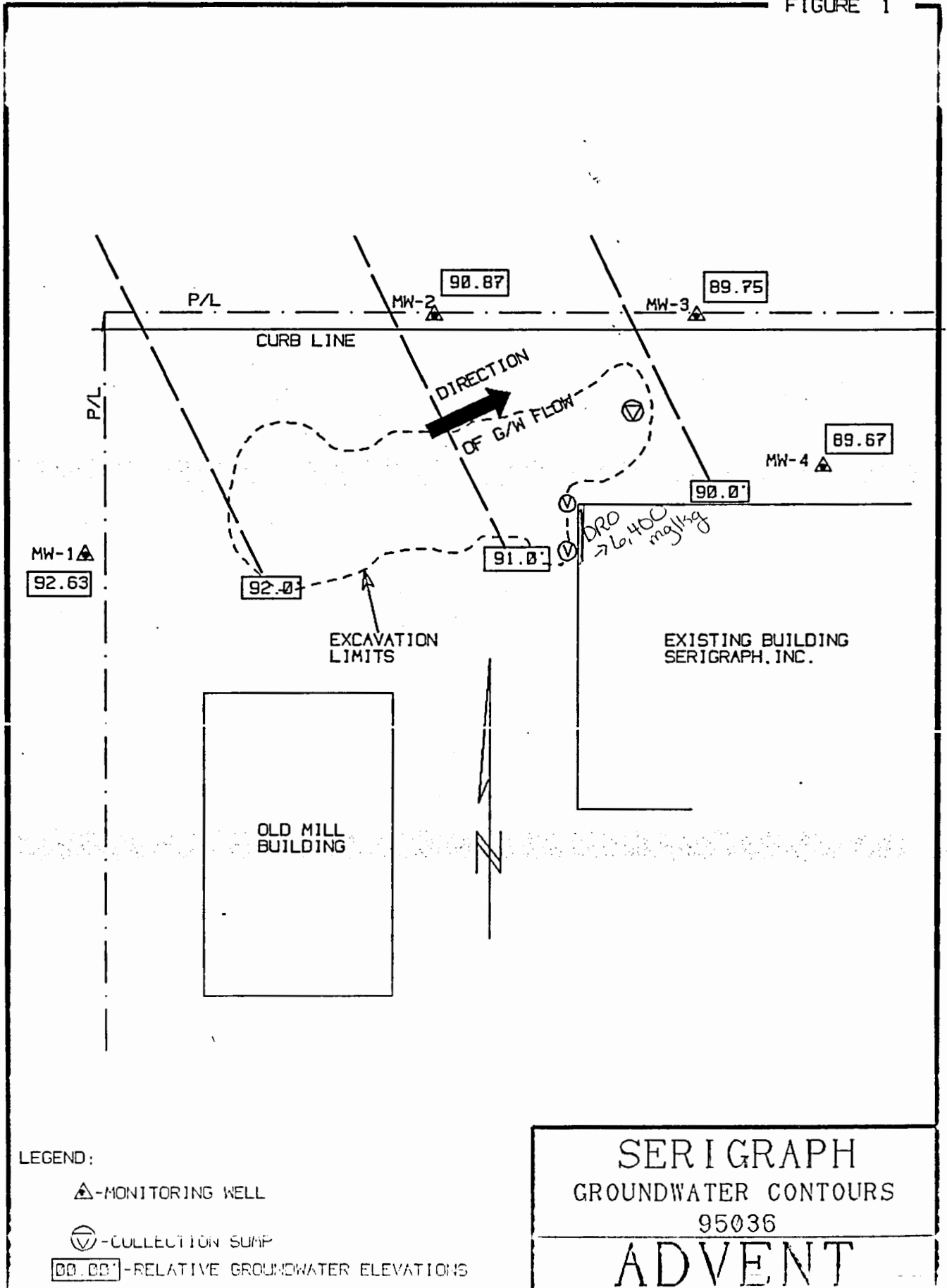
A handwritten signature in cursive script, appearing to read "Peter E. Pavalko".

Peter E. Pavalko




Environmental Specialist

PEP/rk

FIGURE 1

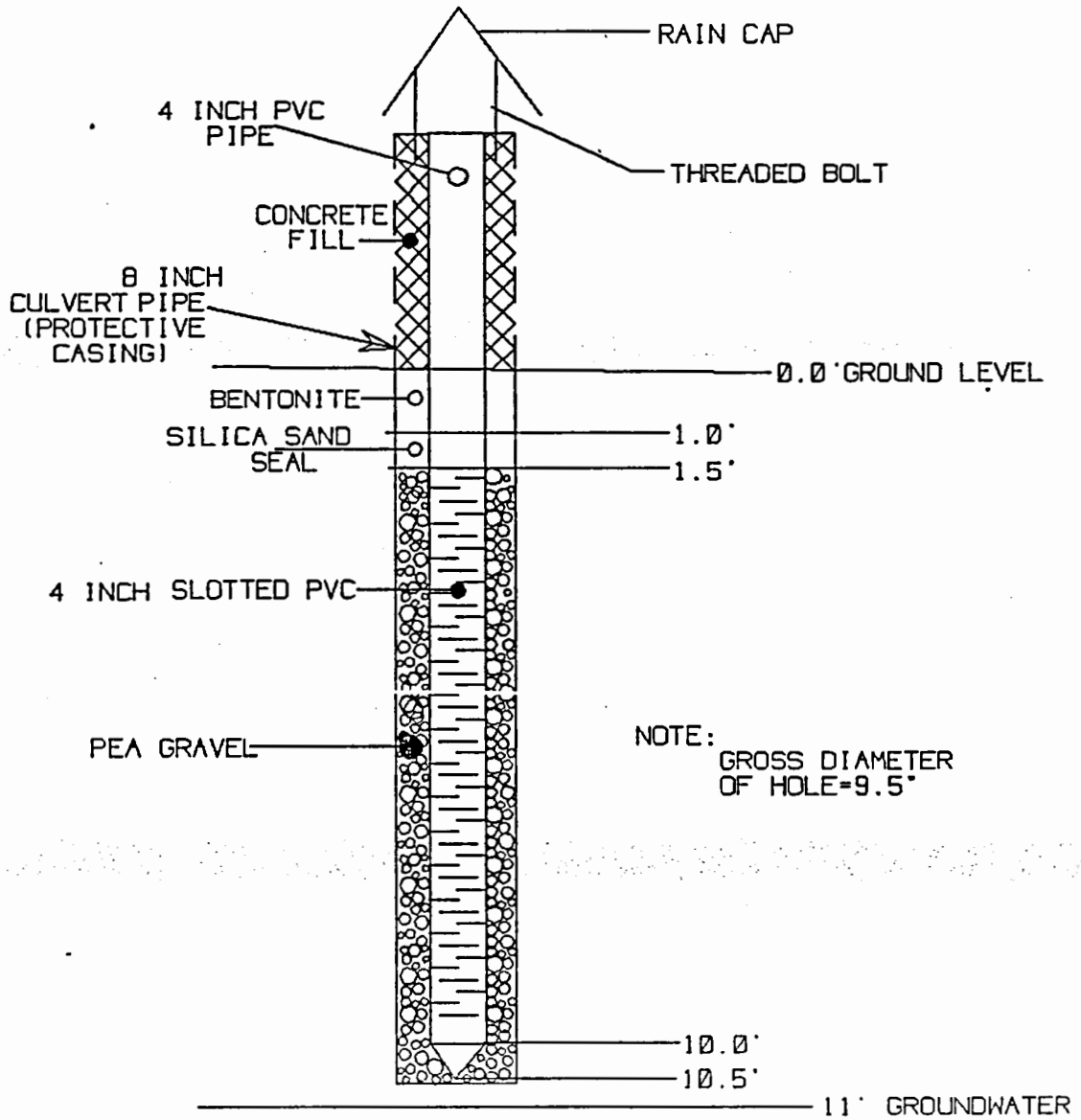


LEGEND:

-  - MONITORING WELL
-  - COLLECTION SUMP
-  - RELATIVE GROUNDWATER ELEVATIONS

SERIGRAPH
GROUNDWATER CONTOURS
95036
ADVENT

WELLS INSTALLED PASSIVE METHOD



95036
<p>SERIGRAPH PASSIVE VENT SPECIFICATIONS</p>
<p>ADVENT</p>

ATTACHMENT A

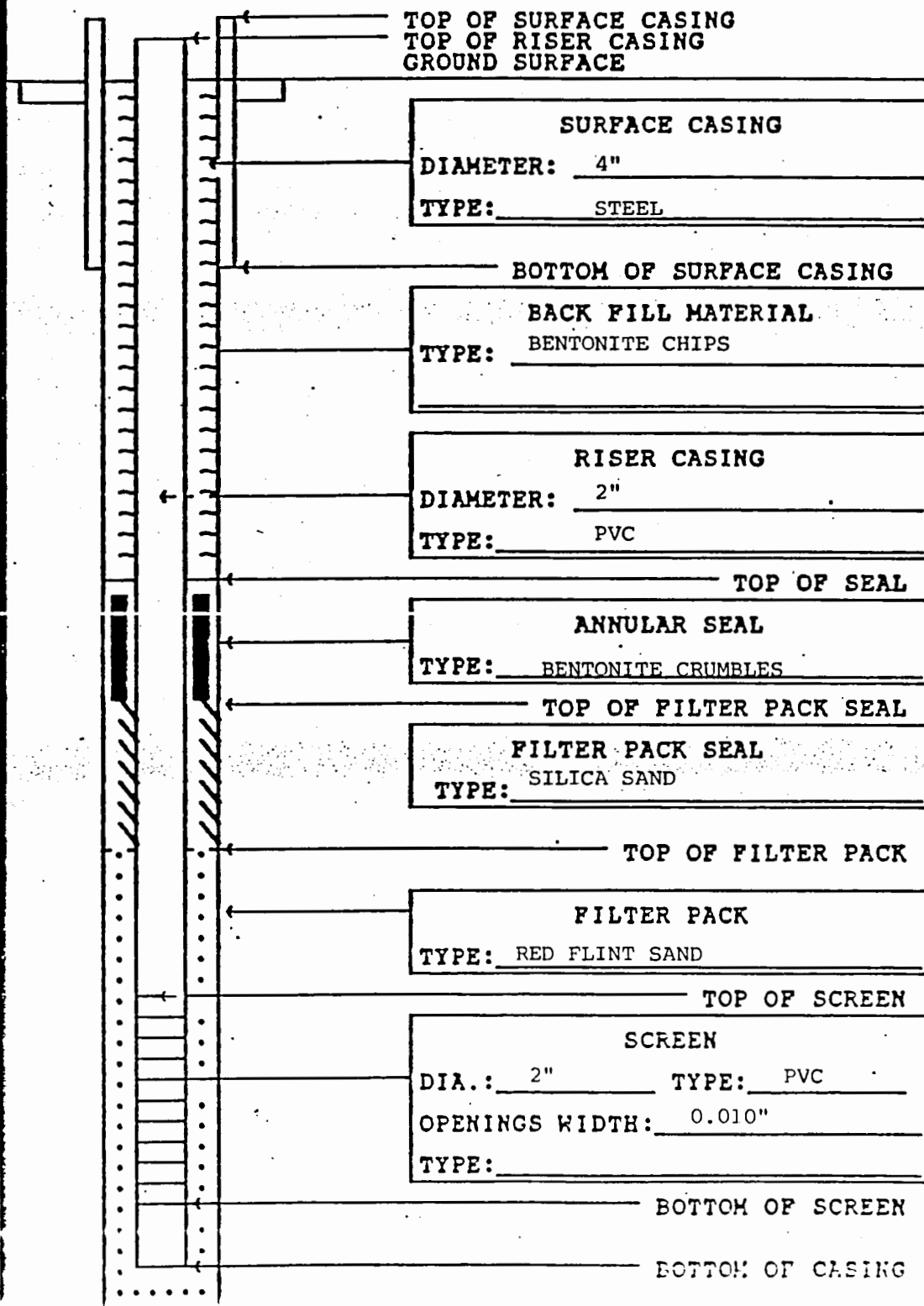
ADVENT
 ENVIRONMENTAL SERVICES, INC.
 P.O. BOX 246 • PORT WASHINGTON, WI • 414-284-7447

**MONITOR WELL
 DETAIL**

SCALE: AS SHOWN APPROVED BY: PREPARED BY:
 P. F. FANNING

PROJECT: SERIGRAPH, INC. 760 INDIANA AVENUE
 WEST BEND, WISCONSIN
 AESI WO#: 95036 DATE: 9-6-91

DEPTH (FT)	ELEV. FT. MSL
0.0	
0.0-1.0	
2.5	
1.0-3.0	
3.0	
4.0	
4.5	
5.0	
15.0	
15.0	



TOP OF SURFACE CASING
 TOP OF RISER CASING
 GROUND SURFACE

SURFACE CASING
 DIAMETER: 4"
 TYPE: STEEL

BACK FILL MATERIAL
 TYPE: BENTONITE CHIPS

RISER CASING
 DIAMETER: 2"
 TYPE: PVC

ANNULAR SEAL
 TYPE: BENTONITE CRUMBLES

FILTER PACK SEAL
 TYPE: SILICA SAND

FILTER PACK
 TYPE: RED FLINT SAND

SCREEN
 DIA.: 2" TYPE: PVC
 OPENINGS WIDTH: 0.010"
 TYPE:

BOTTOM OF SCREEN
 BOTTOM OF CASING

ADVENT
ENVIRONMENTAL SERVICES, INC.
 P. D. BOX 245 • PORT WASHINGTON, WI. • 414-284-7447

**MONITOR WELL
 DETAIL**

SCALE: AS SHOWN APPROVED BY: PREPARED BY:
 P. FANBERG

MONITORING WELL - MW-2

PROJECT: SERIGRAPH, INC. 760 INDIANA AVENUE
 WEST BEND, WISCONSIN
 AESI WO#: 95036 DATE: 9-6-91

	DEPTH (FT)	ELEV. FT. MSL
TOP OF SURFACE CASING TOP OF RISER CASING GROUND SURFACE	0.0	
SURFACE CASING DIAMETER: 4" TYPE: STEEL	Cement 0.0-1.0	
BOTTOM OF SURFACE CASING	2.5	
BACK FILL MATERIAL TYPE: BENTONITE CHIPS	1.0-3.0	
RISER CASING DIAMETER: 2" TYPE: PVC		
TOP OF SEAL	3.0	
ANNULAR SEAL TYPE: BENTONITE CRUMBLES		
TOP OF FILTER PACK SEAL	4.0	
FILTER PACK SEAL TYPE: SILICA SAND		
TOP OF FILTER PACK	4.5	
FILTER PACK TYPE: RED FLINT SAND		
TOP OF SCREEN	5.0	
SCREEN DIA.: 2" TYPE: PVC OPENINGS WIDTH: 0.010" TYPE:		
BOTTOM OF SCREEN	15.0	
BOTTOM OF CASING	15.0	

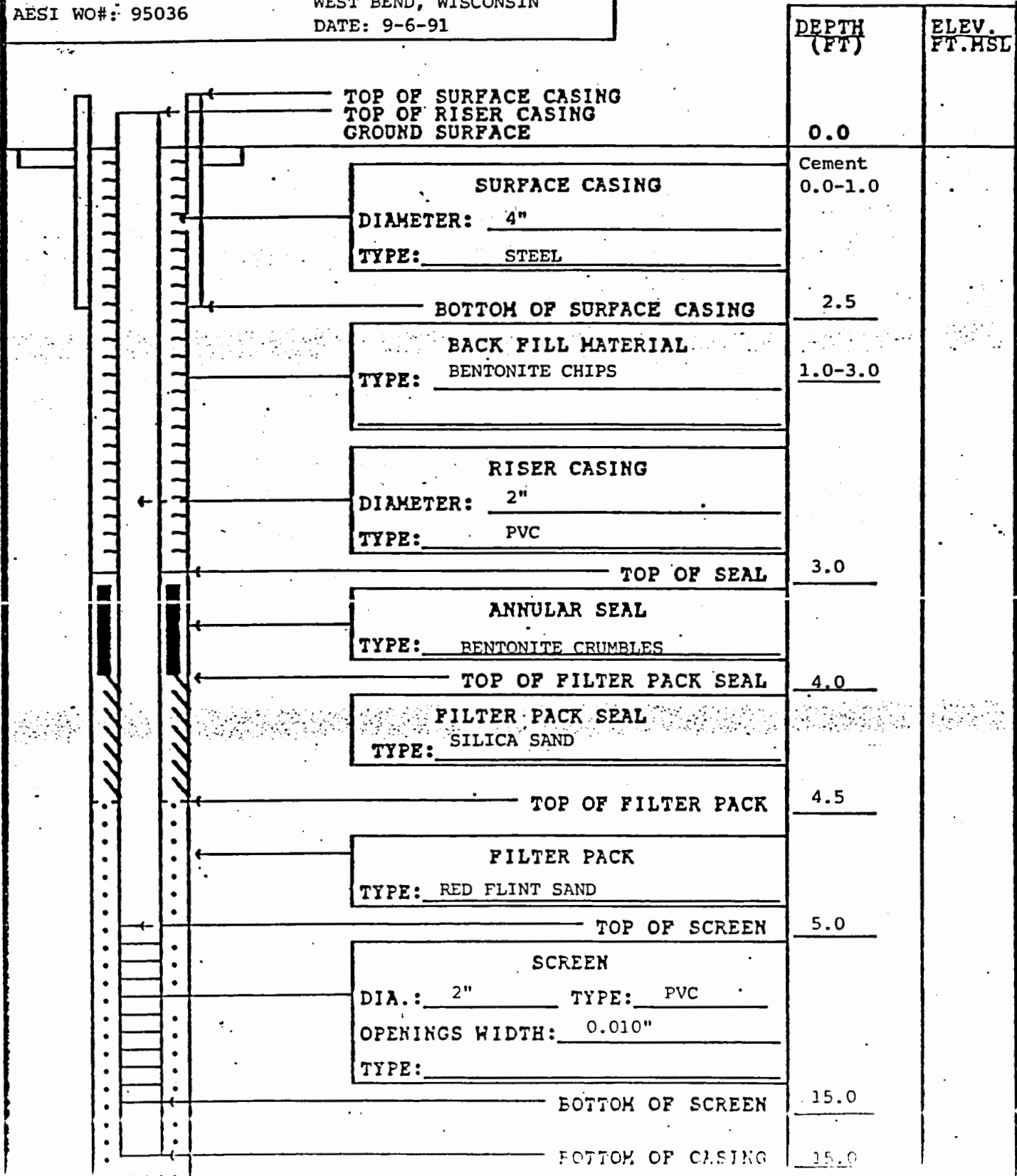
ADVENT
ENVIRONMENTAL SERVICES, INC.
 P. D. BOX 246 • PORT WASHINGTON, WI. • 414-284-7447

SCALE: AS SHOWN APPROVED BY: PREPARED BY:
 P. FYNALRO

PROJECT: SERIGRAPH, INC. 760 INDIANA AVENUE
 WEST BEND, WISCONSIN
 AESI WO#: 95036 DATE: 9-6-91

**MONITOR WELL
 DETAIL**

MONITORING WELL - MND



DEPTH (FT)	ELEV. FT. MSL
0.0	
0.0-1.0	
2.5	
1.0-3.0	
3.0	
4.0	
4.5	
5.0	
15.0	
15.0	

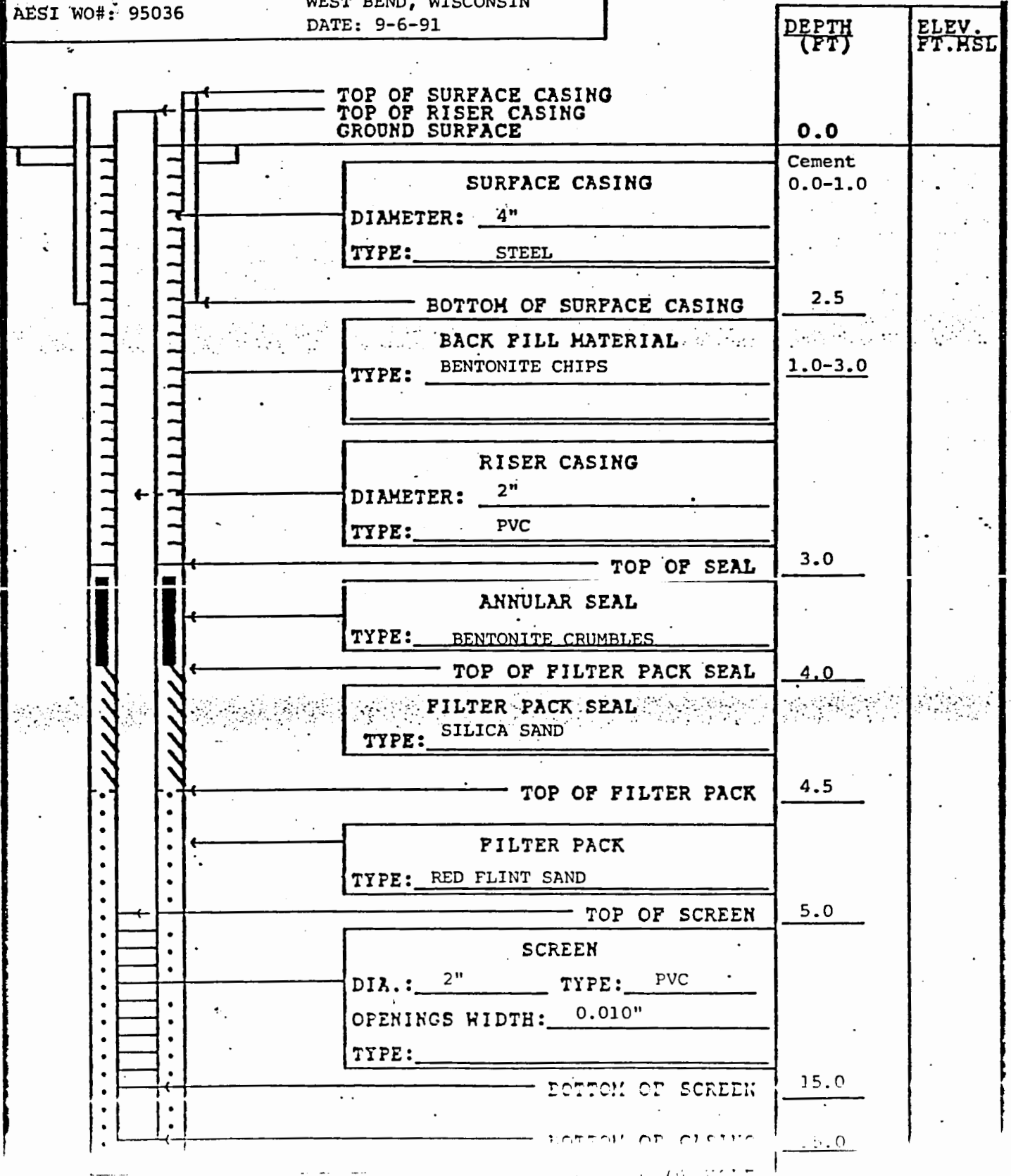
ADVENT
ENVIRONMENTAL SERVICES, INC.
 P.O. BOX 245 • PORT WASHINGTON, WI. # 414-264-7447

SCALE: AS SHOWN APPROVED BY: PREPARED BY:
 P. PAVALKO

PROJECT: SERIGRAPH, INC. 760 INDIANA AVENUE
 WEST BEND, WISCONSIN
 AESI WO#: 95036 DATE: 9-6-91

**MONITOR WELL
 DETAIL**

MONITORING WELL - MW-4



ATTACHMENT B

DAVY LABORATORIES

115 South 6th Street
P.O. Box 2076
La Crosse, WI 54602-2076
(608) 782-3130

Division of Davy Engineering Co.

Advent Environmental Services, Inc.
P.O. Box 246
Port Washington, Wisconsin 53074

September 25, 1991
Client No. 11130
Project No. 95036

Attn: Mr. Peter Pavalko

INTRODUCTION:

Four groundwater samples were received on September 11, 1991. The client requested that the samples be analyzed for Gasoline Range Organics (GRO), Diesel Range Organics (DRO), Petroleum Volatile Organic Compounds (PVOC), Volatile Organic Compounds and Total Lead.

SAMPLE IDENTIFICATION:

The samples were collected on September 9, 1991. The samples were collected under Project No. 95036 by Peter Pavalko of Advent Environmental Services, Inc. The samples were delivered to the laboratory on September 11, 1991 by the client. Upon arrival at the laboratory, the samples were given the following identification numbers:

DAVY LAB NO.	SAMPLE SITE
19605	MW-1A
19606	MW-2A
19607	MW-3A
19608	MW-4A

METHODOLOGY:

The water samples were analyzed according to the method outlined in the Leaking Underground Fuel Tank Manual published by the State of California. The Wisconsin Department of Natural Resources references this method for the analysis of Total Petroleum Hydrocarbons (TPH) either as Gasoline, Fuel Oil or Diesel.

DIESEL RANGE ORGANICS (DRO)

The samples for the determination of Diesel Range Organics (DRO) was extracted three times with carbon disulfide. The extracts were then dried and concentrated to 1-ml with carbon disulfide. A portion of the samples were injected into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Fuel standards from the EPA are used to calibrate the system. A minimum of eight peak areas are used to quantitate the sample response. Total peak areas obtained were compared with known standards.

GASOLINE RANGE ORGANICS (GRO)

The samples were analyzed for Gasoline Range Organics (GRO) by taking a 5 ml portion of the sample. The samples were then purged for 11-min. using helium as the carrier gas.

Following the purge cycle, the samples were desorbed into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Peak areas obtained were then compared to the areas obtained from standard curves. Quantitation was based on the response of the parameter against concentration. A linear regression curve was used.

PETROLEUM VOLATILE ORGANIC ANALYSIS (PVOC)

The samples were analyzed for petroleum volatile organic compounds using EPA Method 8020. A 5-ml portion of each sample was purged for eleven minutes using helium as the purge gas.

Following the purge cycle, each sample was then desorbed to a Tracor Model 540 GC equipped with a PID detector. Quantitation was based on the response of the standards through the use of linear regression curves.

DAVY LABORATORIES

115 South 6th Street
P.O. Box 2070
La Crosse, WI 54602-2070
(608) 782-3130



VOLATILE ORGANIC COMPOUNDS (VOC)

The water samples were analyzed for volatile organic compounds using EPA Method 8021. A 5-ml portion of each sample was purged for eleven minutes using helium as the purge gas.

Following the purge cycle, each sample was then desorbed to a Tracor Model 540 GC equipped with a Hall and PID detector in series. Quantitation was based on the response of standards through the use of linear regression curves.

TOTAL LEAD

Each sample was analyzed for total lead using the latest method from the EPA. The samples were digested and then analyzed using a Perkin-Elmer Model 2100 operated in the furnace mode. Response for the samples was quantified through the use of standards and a linear regression curve.

RESULTS:

The results of the Volatile Organic Compounds (VOC) and Petroleum Volatile Organic Compounds (PVOC) are given in Tables 1 and 2 respectively. The results of the analysis for Diesel Range Organics (DRO), Gasoline Range Organics (GRO) and Total Lead in the samples are given below:

SAMPLE NO.	SAMPLE SITE	GRO (ug/l)a	DRO (ug/l)a	DATE ANALYZED	TOTAL LEAD (ug/l)
19605	MW-1A	ND	ND	091391	1.80
19606	MW-2A	ND	ND	091391	ND
19607	MW-3A	ND	ND	091391	ND
19608	MW-4A	ND	ND	091391	ND

< means less than

a - calculated on a "dry weight basis"

Minimum Detection Limit =

GRO - 34.2 ug/l

DRO - 500 ug/l

LEAD - 1.34 ug/l

Submitted by:

DAVY LABORATORIES

Paul A. Harris, Director

The laboratory analysis reported were determined in accordance with current methodology. The results are only representative of the samples received; conditions can be expected to vary at different times and under different sampling conditions.

DAVY LABORATORIES

115 South 6th Street
P.O. Box 2070
La Crosse, WI 54602 2070
(608) 782-3130



Division of Davy Engineering Co.

Table 1 - Volatile Organic Compounds (ug/l).

Client No.:	11130	Sample No.:	19605		
Sample:	MW-1A	Date Analyzed:	091891		
		Result	LOD(a)	LOQ(b)	
Benzene		ND	0.01	0.07	
Bromobenzene		ND	0.01	0.07	
Bromochloromethane		ND	0.02	0.14	
Bromodichloromethane		ND	0.02	0.14	
Bromoform		ND	0.02	0.14	
Bromomethane		ND	1.10	7.70	
n-Butylbenzene		ND	0.04	0.28	
sec-Butyl benzene		ND	0.10	0.70	
tert-butyl benzene		ND	0.10	0.70	
Carbon Tetrachloride		ND	0.01	0.07	
Chlorobenzene		ND	0.01	0.07	
Chloroethane		ND	0.10	0.70	
Chloroform		ND	0.02	0.14	
Chloromethane		ND	0.03	0.21	
2-Chlorotoluene		ND	0.02	0.14	
4-Chlorotoluene		ND	0.02	0.14	
1,2-Dibromo-3-Chloropropane		ND	4.00	28.0	
Dibromochloromethane		ND	0.03	0.21	
1,2-Dibromoethane		ND	3.00	21.0	
Dibromomethane		ND	2.20	15.4	
1,2-Dichlorobenzene		ND	0.05	0.35	
1,3-Dichlorobenzene		ND	0.02	0.14	
1,4-Dichlorobenzene		ND	0.01	0.07	
Dichlorodifluoromethane		ND	0.05	0.35	
1,1-Dichloroethane		ND	0.07	0.49	
1,2-Dichloroethane		ND	0.03	0.21	
1,1-Dichloroethene		ND	0.07	0.49	
cis-1,2-Dichloroethene		ND	0.05	0.35	
trans-1,2-Dichloroethene		ND	0.06	0.42	
Dichloromethane		ND	0.02	0.14	
1,2-Dichloropropane		ND	0.01	0.07	
1,3-Dichloropropane		ND	0.05	0.35	
2,2-Dichloropropane		ND	0.05	0.35	
1,1-Dichloropropene		ND	0.06	0.36	
Ethyl Benzene		ND	0.01	0.07	
Hexachlorobutadiene		ND	0.01	0.07	
Isopropyl Benzene		ND	0.07	0.49	
p-Isopropyl toluene		ND	0.02	0.14	
Methyl-tert-butyl-ether		ND	0.06	0.42	
Naphthalene		ND	0.06	0.42	

DAVY LABORATORIES

115 South 6th Street
P.O. Box 2070
La Crosse, WI 54602-2070
(608) 782-3130



Division of Davy Engineering Co.

Continued Table 1

Client No.: 11130
Sample No.: 19605

	Result	LOD(a)	LOQ(b)
n-Propyl benzene	ND	0.01	0.07
Styrene	ND	0.02	0.14
1,1,1,2-Tetrachloroethane	ND	0.01	0.07
1,1,2,2-Tetrachloroethane	ND	0.01	0.07
Tetrachloroethene	ND	0.04	0.28
Toluene	ND	0.01	0.07
1,2,3-Trichlorobenzene	ND	0.02	0.14
1,2,4-Trichlorobenzene	ND	0.03	0.21
1,1,1-Trichloroethane	ND	0.03	0.21
1,1,2-Trichloroethane	ND	0.06	0.42
Trichloroethene	ND	0.01	0.07
Trichlorofluoromethane	ND	0.03	0.21
1,2,3-Trichloropropane	ND	0.50	3.50
1,3,5-Trimethyl benzene	ND	0.05	0.35
1,2,4-Trimethylbenzene	ND	0.01	0.07
Vinyl Chloride	ND	0.04	0.28
m/p-Xylene	ND	0.02	0.14
o-Xylene	ND	0.02	0.14

NOTES:

a - LOD = Limit of Detection
b - LOQ = Limit of Quantitation

c - ND = Not Detected
d - BQL = Below Detection Limit

Table 2 - Results of Petroleum Volatile Organic Compounds (ug/l)

Client No. 11130
Sample: MW-1A

Sample No. 19605
Date Analyzed: 091891

	Result	LOD(a)	LOQ(b)
Benzene	ND	0.01	0.07
Ethyl Benzene	ND	0.01	0.07
Methyl tert-butyl ether	ND	0.06	0.44
Toluene	ND	0.01	0.07
1,2,4-Trimethylbenzene	ND	0.02	0.140
1,3,5-Trimethylbenzene	ND	0.02	0.140
m/p Xylene	ND	.002	0.14
o-Xylene	ND	.002	0.14

NOTES:

a - LOD = Limit of Detection
b - LOQ = Limit of Quantitation
c - ND = Not Detected
d - BQL = Below Detection Limit

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La Crosse, WI 54602-2076
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Table 1 - Volatile Organic Compounds (ug/l).

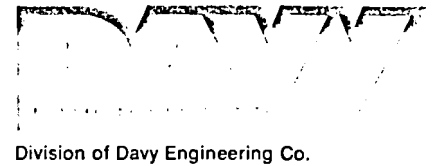
Client No.: 11130
Sample: MW-2A

Sample No.: 19606
Date Analyzed: 091891

	Result	LOD(a)	LOQ(b)
Benzene	ND	0.01	0.07
Bromobenzene	ND	0.01	0.07
Bromochloromethane	ND	0.02	0.14
Bromodichloromethane	ND	0.02	0.14
Bromoform	ND	0.02	0.14
Bromomethane	ND	1.10	7.70
n-Butylbenzene	ND	0.04	0.28
sec-Butyl benzene	ND	0.10	0.70
tert-butyl benzene	ND	0.10	0.70
Carbon Tetrachloride	ND	0.01	0.07
Chlorobenzene	ND	0.01	0.07
Chloroethane	ND	0.10	0.70
Chloroform	ND	0.02	0.14
Chloromethane	ND	0.03	0.21
2-Chlorotoluene	ND	0.02	0.14
4-Chlorotoluene	ND	0.02	0.14
1,2-Dibromo-3-Chloropropane	ND	4.00	28.0
Dibromochloromethane	ND	0.03	0.21
1,2-Dibromoethane	ND	3.00	21.0
Dibromomethane	ND	2.20	15.4
1,2-Dichlorobenzene	ND	0.05	0.35
1,3-Dichlorobenzene	ND	0.02	0.14
1,4-Dichlorobenzene	ND	0.01	0.07
Dichlorodifluoromethane	ND	0.05	0.35
1,1-Dichloroethane	ND	0.07	0.49
1,2-Dichloroethane	ND	0.03	0.21
1,1-Dichloroethene	ND	0.07	0.49
cis-1,2-Dichloroethene	ND	0.05	0.35
trans-1,2-Dichloroethene	ND	0.06	0.42
Dichloromethane	ND	0.02	0.14
1,2-Dichloropropane	ND	0.01	0.07
1,3-Dichloropropane	ND	0.05	0.35
2,2-Dichloropropane	ND	0.05	0.35
1,1-Dichloropropene	ND	0.06	0.36
Ethyl Benzene	ND	0.01	0.07
Hexachlorobutadiene	ND	0.01	0.07
Isopropyl Benzene	ND	0.07	0.49
p-Isopropyl toluene	ND	0.02	0.14
Methyl-tert-butyl-ether	ND	0.06	0.42
Naphthalene	ND	0.06	0.42

DAVY LABORATORIES

115 South 6th Street
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 (608) 782-3130



Continued Table 1

Client No.: 11130
 Sample No.: 19606

	Result	LOD(a)	LOQ(b)
n-Propyl benzene	ND	0.01	0.07
Styrene	ND	0.02	0.14
1,1,1,2-Tetrachloroethane	ND	0.01	0.07
1,1,2,2-Tetrachloroethane	ND	0.01	0.07
Tetrachloroethene	ND	0.04	0.28
Toluene	ND	0.01	0.07
1,2,3-Trichlorobenzene	ND	0.02	0.14
1,2,4-Trichlorobenzene	ND	0.03	0.21
1,1,1-Trichloroethane	ND	0.03	0.21
1,1,2-Trichloroethane	ND	0.06	0.42
Trichloroethene	ND	0.01	0.07
Trichlorofluoromethane	ND	0.03	0.21
1,2,3-Trichloropropane	ND	0.50	3.50
1,3,5 Trimethyl benzene	ND	0.05	0.35
1,2,4-Trimethylbenzene	ND	0.01	0.07
Vinyl Chloride	ND	0.04	0.28
m/p-Xylene	ND	0.02	0.14
o-Xylene	ND	0.02	0.14

NOTES:

a - LOD = Limit of Detection
 b - LOQ = Limit of Quantitation

c - ND = Not Detected
 d - BQL = Below Detection Limit

Table 2 - Results of Petroleum Volatile Organic Compounds (ug/l)

Client No. 11130
 Sample: MW-2A

Sample No. 19606
 Date Analyzed: 091891

	Result	LOD(a)	LOQ(b)
Benzene	ND	0.01	0.07
Ethyl Benzene	ND	0.01	0.07
Methyl tert-butyl ether	ND	0.06	0.44
Toluene	ND	0.01	0.07
1,2,4-Trimethylbenzene	ND	0.02	0.140
1,3,5-Trimethylbenzene	ND	0.02	0.140
m/p Xylene	ND	.002	0.14
o-Xylene	ND	.002	0.14

NOTES:

a - LOD = Limit of Detection
 b - LOQ = Limit of Quantitation
 c - ND = Not Detected
 d - BQL = Below Detection Limit

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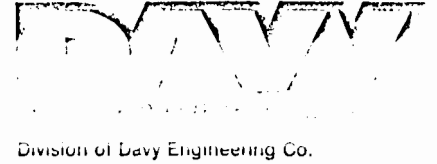


Table 1 - Volatile Organic Compounds (ug/l).

Client No.: 11130
Sample: MW-3A

Sample No.: 19607
Date Analyzed: 091891

	Result	LOD(a)	LOQ(b)
Benzene	ND	0.01	0.07
Bromobenzene	ND	0.01	0.07
Bromochloromethane	ND	0.02	0.14
Bromodichloromethane	ND	0.02	0.14
Bromoform	ND	0.02	0.14
Bromomethane	ND	1.10	7.70
n-Butylbenzene	ND	0.04	0.28
sec-Butyl benzene	ND	0.10	0.70
tert-butyl benzene	ND	0.10	0.70
Carbon Tetrachloride	ND	0.01	0.07
Chlorobenzene	ND	0.01	0.07
Chloroethane	ND	0.10	0.70
Chloroform	ND	0.02	0.14
Chloromethane	ND	0.03	0.21
2-Chlorotoluene	ND	0.02	0.14
4-Chlorotoluene	ND	0.02	0.14
1,2-Dibromo-3-Chloropropane	ND	4.00	28.0
Dibromochloromethane	ND	0.03	0.21
1,2-Dibromoethane	ND	3.00	21.0
Dibromomethane	ND	2.20	15.4
1,2-Dichlorobenzene	ND	0.05	0.35
1,3-Dichlorobenzene	ND	0.02	0.14
1,4-Dichlorobenzene	ND	0.01	0.07
Dichlorodifluoromethane	ND	0.05	0.35
1,1-Dichloroethane	ND	0.07	0.49
1,2-Dichloroethane	ND	0.03	0.21
1,1-Dichloroethene	ND	0.07	0.49
cis-1,2-Dichloroethene	ND	0.05	0.35
trans-1,2-Dichloroethene	ND	0.06	0.42
Dichloromethane	ND	0.02	0.14
1,2-Dichloropropane	ND	0.01	0.07
1,3-Dichloropropane	ND	0.05	0.35
2,2-Dichloropropane	ND	0.05	0.35
1,1-Dichloropropene	ND	0.06	0.36
Ethyl Benzene	ND	0.01	0.07
Hexachlorobutadiene	ND	0.01	0.07
Isopropyl Benzene	ND	0.07	0.49
p-Isopropyl toluene	ND	0.02	0.14
Methyl-tert-butyl-ether	ND	0.06	0.42
Naphthalene	ND	0.06	0.42

DAVY LABORATORIES

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La Crosse, WI 54602-2076
(608) 782-3130

Division of Davy Engineering Co.

Continued Table 1

Client No.: 11130
Sample No.: 19607

	Result	LOD(a)	LOQ(b)
n-Propyl benzene	ND	0.01	0.07
Styrene	ND	0.02	0.14
1,1,1,2-Tetrachloroethane	ND	0.01	0.07
1,1,2,2-Tetrachloroethane	ND	0.01	0.07
Tetrachloroethene	ND	0.04	0.28
Toluene	ND	0.01	0.07
1,2,3-Trichlorobenzene	ND	0.02	0.14
1,2,4-Trichlorobenzene	ND	0.03	0.21
1,1,1-Trichloroethane	ND	0.03	0.21
1,1,2-Trichloroethane	ND	0.06	0.42
Trichloroethene	ND	0.01	0.07
Trichlorofluoromethane	ND	0.03	0.21
1,2,3-Trichloropropane	ND	0.50	3.50
1,3,5-Trimethyl benzene	ND	0.05	0.35
1,2,4-Trimethylbenzene	ND	0.01	0.07
Vinyl Chloride	ND	0.04	0.28
m/p-Xylene	ND	0.02	0.14
o-Xylene	ND	0.02	0.14

NOTES:

a - LOD = Limit of Detection
b - LOQ = Limit of Quantitation

c - ND = Not Detected
d - BQL = Below Detection Limit

Table 2 - Results of Petroleum Volatile Organic Compounds (ug/l)

Client No. 11130
Sample: MW-3A

Sample No. 19607
Date Analyzed: 091891

	Result	LOD(a)	LOQ(b)
Benzene	ND	0.01	0.07
Ethyl Benzene	ND	0.01	0.07
Methyl tert-butyl ether	ND	0.06	0.44
Toluene	ND	0.01	0.07
1,2,4-Trimethylbenzene	ND	0.02	0.140
1,3,5-Trimethylbenzene	ND	0.02	0.140
m/p Xylene	ND	.002	0.14
o-Xylene	ND	.002	0.14

NOTES:

a - LOD = Limit of Detection
b - LOQ = Limit of Quantitation
c - ND = Not Detected
d - BQL = Below Detection Limit

DAVY LABORATORIES

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P.O. Box 2076
La Crosse, WI 54602-2076
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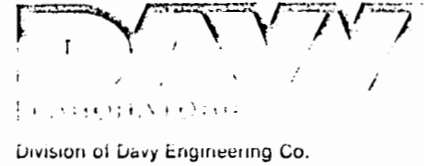
Division of Davy Engineering Co.

Table 1 - Volatile Organic Compounds (ug/l).

Client No.:	11130	Sample No.:	19608		
Sample:	MW-4A	Date Analyzed:	091891		
		Result	LOD(a)	LOQ(b)	
Benzene		ND	0.01	0.07	
Bromobenzene		ND	0.01	0.07	
Bromochloromethane		ND	0.02	0.14	
Bromodichloromethane		ND	0.02	0.14	
Bromoform		ND	0.02	0.14	
Bromomethane		ND	1.10	7.70	
n-Butylbenzene		ND	0.04	0.28	
sec-Butyl benzene		ND	0.10	0.70	
tert-butyl benzene		ND	0.10	0.70	
Carbon Tetrachloride		ND	0.01	0.07	
Chlorobenzene		ND	0.01	0.07	
Chloroethane		ND	0.10	0.70	
Chloroform		ND	0.02	0.14	
Chloromethane		ND	0.03	0.21	
2-Chlorotoluene		ND	0.02	0.14	
4-Chlorotoluene		ND	0.02	0.14	
1,2-Dibromo-3-Chloropropane		ND	4.00	28.0	
Dibromochloromethane		ND	0.03	0.21	
1,2-Dibromoethane		ND	3.00	21.0	
Dibromomethane		ND	2.20	15.4	
1,2-Dichlorobenzene		ND	0.05	0.35	
1,3-Dichlorobenzene		ND	0.02	0.14	
1,4-Dichlorobenzene		ND	0.01	0.07	
Dichlorodifluoromethane		ND	0.05	0.35	
1,1-Dichloroethane		ND	0.07	0.49	
1,2-Dichloroethane		ND	0.03	0.21	
1,1-Dichloroethene		ND	0.07	0.49	
cis-1,2-Dichloroethene		ND	0.05	0.35	
trans-1,2-Dichloroethene		ND	0.06	0.42	
Dichloromethane		ND	0.02	0.14	
1,2-Dichloropropane		ND	0.01	0.07	
1,3-Dichloropropane		ND	0.05	0.35	
2,2-Dichloropropane		ND	0.05	0.35	
1,1-Dichloropropene		ND	0.06	0.36	
Ethyl Benzene		ND	0.01	0.07	
Hexachlorobutadiene		ND	0.01	0.07	
Isopropyl Benzene		ND	0.07	0.49	
p-Isopropyl toluene		ND	0.02	0.14	
Methyl-tert-butyl-ether		ND	0.06	0.42	
Naphthalene		ND	0.06	0.42	

DAVY LABORATORIES

115 South 6th Street
 P.O. Box 2076
 La Crosse, WI 54602-2076
 (608) 782-3130



Continued Table 1

Client No.: 11130
 Sample No.: 19608

	Result	LOD(a)	LOQ(b)
n-Propyl benzene	ND	0.01	0.07
Styrene	ND	0.02	0.14
1,1,1,2-Tetrachloroethane	ND	0.01	0.07
1,1,2,2-Tetrachloroethane	ND	0.01	0.07
Tetrachloroethene	ND	0.04	0.28
Toluene	ND	0.01	0.07
1,2,3-Trichlorobenzene	ND	0.02	0.14
1,2,4-Trichlorobenzene	ND	0.03	0.21
1,1,1-Trichloroethane	ND	0.03	0.21
1,1,2-Trichloroethane	ND	0.06	0.42
Trichloroethene	ND	0.01	0.07
Trichlorofluoromethane	ND	0.03	0.21
1,2,3-Trichloropropane	ND	0.50	3.50
1,3,5-Trimethyl benzene	ND	0.05	0.35
1,2,4-Trimethylbenzene	ND	0.01	0.07
Vinyl Chloride	ND	0.04	0.28
m/p-Xylene	ND	0.02	0.14
o-Xylene	ND	0.02	0.14

NOTES:

a - LOD = Limit of Detection
 b - LOQ = Limit of Quantitation

c - ND = Not Detected
 d - BQL = Below Detection Limit

Table 2 - Results of Petroleum Volatile Organic Compounds (ug/l)

Client No. 11130
 Sample: MW-4A

Sample No. 19608
 Date Analyzed: 091891

	Result	LOD(a)	LOQ(b)
Benzene	ND	0.01	0.07
Ethyl Benzene	ND	0.01	0.07
Methyl tert-butyl ether	ND	0.06	0.44
Toluene	ND	0.01	0.07
1,2,4-Trimethylbenzene	ND	0.02	0.140
1,3,5-Trimethylbenzene	ND	0.02	0.140
m/p Xylene	ND	.002	0.14
o-Xylene	ND	.002	0.14

NOTES:

a - LOD = Limit of Detection
 b - LOQ = Limit of Quantitation
 c - ND = Not Detected
 d - BQL = Below Detection Limit

ADVENT

CHAIN OF CUSTODY RECORD

Use Black Ink Only, Pre

ENVIRONMENTAL SERVICES, INC.
P.O. BOX 46, PORT WASHINGTON, WI 53074
414-284-7447

PROJ. NO: 950 PROJECT NAME: SERFGRAPH INC.

SAMPLERS: (Signature) [Signature]

AESI Lab No.	Date	Time	Sample Station ID	Total Number of Containers	VOCs	PVOCs	GRD	DRD	Total Lead	Analysis	Comments
	7/9	12:30	MW-1A	6	X	X	X	X	X		First Round of Sampling
	7/9	1:00	MW-2A	6	X	X	X	X	X		" " " "
	7/9	1:30	MW-3A	6	X	X	X	X	X		" " " "
	7/9	2:00	MW-4A	6	X	X	X	X	X		" " " "

Total Number of Containers	E	E	A	A	B	Filtered ()
	Y	X	X	Y	Y	Preserved ()
						Refrigerated ()
						Sample type (Grab/Con.)
						Sample sources (WW, GW, DV)
						Preservation Code: A - None D - NaCl B - HNO3 E - HCL C - H2SO4 F -

Relinquished by: (Signature) <u>[Signature]</u>	Date / Time <u>7/9/91 3:15</u>	Received by: (Signature) _____	Date / Time _____	Report to: <u>P. Pavalko</u>
Relinquished by: (Signature) _____	Date / Time _____	Received by: (Signature) _____	Date / Time _____	Name _____
Relinquished by: (Signature) _____	Date / Time _____	Received for Laboratory by: (Signature) _____	Date / Time _____	Street _____
				City _____ State _____ Zip _____
				Phone no. () _____
				Fax no. () _____

Remarks: 2 WDR LUST guidelines
1.1e organics

Receipt pH _____

Receipt temp _____

September 11, 1991

Mr. Jeffery L. Fischer
Hydrogeologist
Environmental Repair Section
State of Wisconsin
Department of Natural Resources
2300 N. Dr. Martin Luther King Jr. Dr.
Box 12436
Milwaukee, Wisconsin 53212

Dear Mr. Fischer:

This letter is to follow up our meeting with you on September 11, 1991. The purpose of that meeting was to review the Environmental Assessment Report for Serigraph, Inc. - Plant No. 1 located at 760 Indiana Avenue, West Bend, Wisconsin. This assessment included a description of the excavation and thermal desorption treatment of diesel and gasoline impacted soil at the site between June and July, 1991. It also contained a description and location of our groundwater monitoring wells and one groundwater pumping well. The report was prepared by Aqua-Tech Inc., subsequently known as Advent Environmental Services.

Upon completion of the excavation and thermal desorption, there remains a small amount of contaminated soil estimated to be approximately 30 cubic yards at the site. This material was not excavated as it is directly adjacent to the west side of the north corner of the facility. Disruption of the soil in this area would have created a strong potential for damage to the Building.

Based on our meeting with you, and in light of the fact that some contaminated soil still remains on the site, Serigraph Inc. proposes the following course of action.

1. Serigraph will install a passive ventilation system in the area of contamination. The design of this system shall be submitted to the Department of Natural Resources for its approval prior to its installation. ✓
2. Serigraph will conduct sampling and analysis by September 30, 1991, of groundwater utilizing the installed groundwater monitoring wells.
3. Serigraph Inc. will have the flow rate of groundwater in the area of remaining contamination calculated.
4. Based on the rate of flow of groundwater, Serigraph Inc. will submit to the DNR a proposal for monitoring of the groundwater at the site.

5. Based on the results obtained from groundwater monitoring, Serigraph Inc. will submit to the DNR a proposal for groundwater remediation should it become necessary as determined by the Department.

I trust the following meets with your approval. Should you require more information, or wish to discuss the matter, please contact me at 335-7343.

Sincerely,



J. Thomas Ravn
Environmental Engineer

JTR:cb

cc: Advent Environmental Services

DNR SITE INVESTIGATION AND REMEDIAL ACTION PLAN REVIEW

Section 101.143 (3) (c) 4, Wis. Stats., requires that a claimant obtain written approval from the Department of Natural Resources (DNR) when requesting reimbursement for activities in response to a discharge from a commercial petroleum product storage system or home oil tank. The DNR approval must indicate that the site investigation and remedial action plan is adequate to meet requirements of s. 144.76, Wis. Stats. The DNR approval is created for the purpose of meeting the requirements of s. 101.143 (3), Wis. Stats., only and does not bar the DNR from requiring that additional investigation and/or remediation activities be performed by persons responsible under s. 144.76, Wis. Stats.

Office Use Only	Application Case # _____
Tank ID # _____	Installation Date _____
Tank ID # _____	Installation Date _____
Tank ID # _____	Installation Date _____

Claimant's Name <u>John B. Torinus Jr.</u>	Remedial Action Site Name (if business) <u>Serigraph Incorporated</u>
Street Address <u>760 Indiana Avenue</u>	Remedial Action Site Address <u>760 Indiana Avenue</u>
City, State, Zip Code <u>West Bend, WI 53095</u>	City, State, Zip Code <u>West Bend, WI 53095</u>
Claimant's Telephone Number <u>(614) 335-7276</u>	Telephone Number of Site <u>(614) 335-7200</u>

Claimant is
 Owner Operator Other - please specify: _____

Approval requested for: Petroleum Product Storage System Home Oil Tank System Aboveground

FOR DNR USE ONLY (Indicate Whether Completed Remedial Action or Other Action(s))

A copy of this completed document must be submitted to DNR for approval of initial activities (emergency action, site investigation and remediation) in accordance with s. 101.143 (3) (c) 4, Wis. Stats.

Completed Remedial Action (complete cleanup and single claim for reimbursement) (Steps 1 through 3)

Progress Payments For:

Emergency Action (Step 1 - check only if emergency action was performed)

Completion of Site Investigation (Step 1) and Proposed Remedial Action Plan (Step 2)

Remedial Action (Step 3)

Operation/Maintenance and Environmental Monitoring (annual claim for remedial action activities) (Step 4)

Site Investigation By Order of DNR And/Or DILHR - No Remedial Action

Check Appropriate
Box(es)

The DNR received a request for approval of the above identified activities for the site listed on this document on the following date 9/11/91.

The DNR response for purposes of s. 101.143 (3), Wis. Stats., is attached.

Remedial action activities conducted by owners/operators are not eligible for funding under 42 USC 6991 (L.U.S.T. Funding). (See s. 101.143 (3) (a) 2., Wis. Stats.)

Send one copy of this completed form to the address shown in the upper right corner and one copy to the claimant.

Reviewer's Signature [Signature] Date Signed 9/11/91

Reviewer's Title HYDRO

ENVIRONMENTAL ASSESSMENT REPORT

FOR

SERIGRAPH, INC. - PLANT NO. 1

760 INDIANA AVENUE

WEST BEND, WISCONSIN

SEPTEMBER 1991

PREPARED BY
AQUA-TECH, INC.
140 SOUTH PARK STREET
PORT WASHINGTON, WISCONSIN
ATI PROJECT NO. 95036

ENVIRONMENTAL ASSESSMENT REPORT

FOR

SERIGRAPH, INC. - PLANT NO. 1

760 INDIANA AVENUE

WEST BEND, WISCONSIN

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1.0 SUMMARY

Aqua-Tech, Inc. was contracted by Serigraph, Inc. to conduct an Environmental Assessment for the facility located at 760 Indiana Avenue (Plant No. 1), West Bend, Wisconsin. The purpose of the assessment was to excavate and remediate petroleum impacted soil associated with an aboveground petroleum distribution center formerly located at the site. The assessment included the following:

- * Excavation and thermal desorption treatment of 3,267.57 tons of diesel and gasoline impacted soil between June 11, 1991 and July 9, 1991.
- * Screening the excavation for volatile organic compounds (VOCs) with a photoionization detector (PID).
- * Collection and laboratory analyses of eleven (1 per 300 tons) pre-treatment soil samples from excavated material for total petroleum hydrocarbons (TPH) as diesel fuel.
- * Collection and laboratory analyses of twenty-two soil samples from the walls and floor of the excavation for TPH as diesel fuel and gasoline.
- * Collection and laboratory analyses of fifteen post-treatment soil samples for TPH as diesel fuel.
- * Documentation of field observations and remediation activities at the site.

Laboratory and field screening results indicate that only a minor amount of soil contaminated above the 10 mg/kg (ppm) Wisconsin Department of Industry, Labor and Human Relations (WDILHR) standard for petroleum contaminated soil remains at the site. Laboratory analyses of 21 of 22 soil samples collected from the excavation walls and floor indicate that soil impacted by TPH above 10 mg/kg has been removed from all but one localized area of the excavation.

Chemical analyses of post-treatment samples collected from thermally treated soil indicate that the soil has been successfully remediated to levels below the 10 mg/kg WDILHR standard.

Groundwater was encountered during the excavation operations at a depth of 11.0 to 14.0 feet below ground surface (bgs). Because field screening and laboratory analyses of samples collected during a previous investigation indicated that petroleum components intercepted the groundwater table, the potential impact to groundwater must be further investigated.

After completing the Environmental Assessment for the Serigraph, Inc. site, Aqua-Tech, Inc. recommends the installation of four groundwater monitoring wells and groundwater sampling per Wisconsin Department of Natural Resources (WDNR) analytical protocols. Aqua-Tech, Inc. recommends no additional investigation or corrective action for the approximately 30 yards of impacted soil that remains at the site. Field screening of the excavation with a PID and results of laboratory analyses of samples collected from the excavation indicate that the impacted soil was removed from the site to the extent possible and treated.

2.0 SITE BACKGROUND

2.1 Introduction

This section includes information collected at the site during previous environmental investigations.

2.2 Summary of Previous Investigations

Aqua-Tech, Inc. conducted a Phase III Environmental Assessment at the site on February 1, 1991. The assessment included the completion of nine soil borings and collection of subsurface soil samples within and around the location of the former aboveground storage tank (AST) complex. The purpose of the borings was to delineate the extent of petroleum contamination associated with the former petroleum distribution center.

Results of the Phase III assessment indicated that approximately 3,000 to 4,000 cubic yards of gasoline and diesel fuel impacted soil existed at the site at a depth interval of 1.0 to 11.0 feet. The majority of contamination appeared to be located within and down slope of the former ASTs.

3.0 SITE ASSESSMENT PROCEDURES AND FIELD OBSERVATIONS

3.1 Introduction

This section outlines procedures and observations of the Environmental Assessment at the Serigraph, Inc. site in West Bend, Wisconsin. Individual subsections address specific assessment activities including field observations, sampling procedures, and chain of custody procedures.

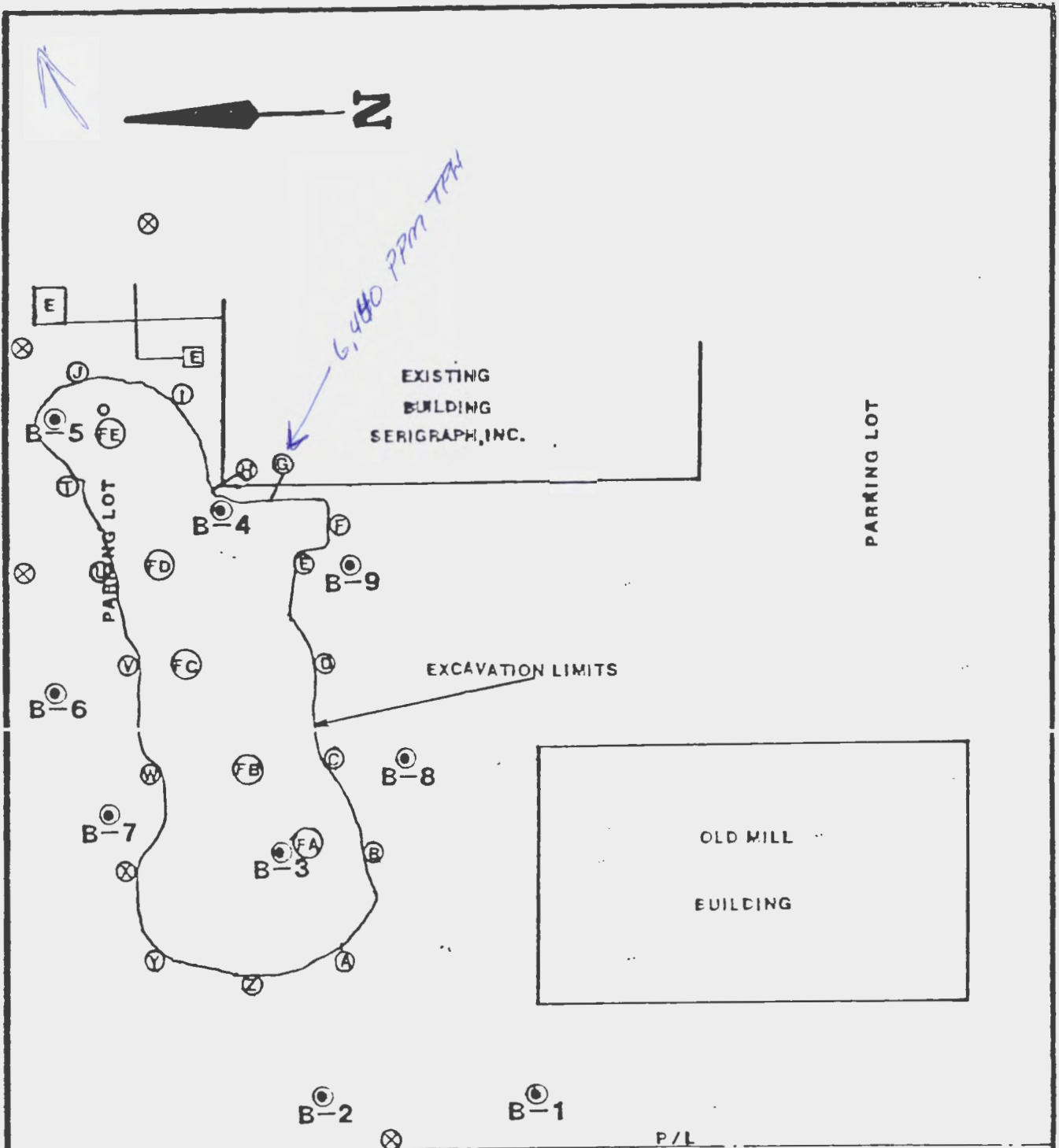
3.2 Excavation and Field Observations

Between June 11, and July 9, 1991, Peter E. Pavalko of Aqua-Tech, Inc. supervised the excavation and thermal desorption treatment of impacted soil at the site. All soil was excavated and treated on-site by CleanSoils, Inc., New Brighton, Minnesota. Mr. Tom Ravn, Serigraph, Inc., Environmental Engineer, was also present during the majority of the excavation activities.

The excavation began near the location of boring B-3 (Phase III Assessment) and was generally enlarged to the east. All overlying asphalt was removed, stockpiled, and later transported to Northwest Asphalt for recycling. All excavated soil was sorted through a two inch screen prior to treatment to remove cobbles and boulders. Approximately 500 tons of cobbles and boulders were sorted from the soil. This material was eventually returned to the excavation as backfill.

One randomly selected soil sample per 15 tons of impacted soil excavated from the site was screened for VOCs with a calibrated PID. The excavated material was screened to confirm the excavation and treatment of impacted soils only. PID readings of the excavated material ranged from 1 to 200 ppm. The complete results of field screening of excavated material are presented in Appendix A.

FIGURE 3-1



NOTE:-
 (●) - SOIL BORING (PHASE 3)

(⊗) - PROPOSED MONITORING WELL LOCATIONS (APPROXIMATE)

AQUA-TECH INC

SCALE: 1"=40'

APPROVED:

DRAWN BY:

DATE: 2/19/91

RICHARDSON

SERIGRAPH

95036

<u>Sample I.D.</u>	<u>Location</u>	<u>Depth</u>	<u>P.I.D.</u>	<u>Date</u>
A	West Wall	8.0'	0	6/13/91
FA	Floor (B-3)	14.0'	0	6/14/91
B	S.Wall 25' East of "A"	8.0'	0	6/14/91
C	S. Wall 25' East of "B"	8.0'	0	6/17/91
FB	Floor 25' N.E. of "FA"	14.0'	0	6/17/91
D	S. Wall 25' East of "C"	8.0'	0	6/18/91
FC	Floor 25' N.E. of F.B."	15.0'	0	6/18/91
Z	W. Wall 25' N. of "A"	8.0'	0	6/19/91
Y	N.W. Corner Wall 25' N.E. of "Z"	7.0'	0	6/25/91
X	N. Wall 25' East of "Y"	7.0'	0	6/25/91
W	N. Wall 25' East of "X"	7.0'	0	6/25/91
FD	Floor 25' N.E. of F.C.	15.0'	0	6/27/91
E	S. Wall 25' East of "D"	8.0'	0	6/27/91
V	N. Wall 25' East of "W"	8.0'	0	6/27/91
U	N. Wall 25' East of "V"	5.0'	0	6/28/91
H	3' N.W. of Bldg. Corner	4.0	0	6/28/91

<u>Sample I.D.</u>	<u>Location</u>	<u>Depth</u>	<u>P.I.D.</u>	<u>Date</u>
I	S.E. Corner of Excavation	3.0'	0.5	6/29/91
FE	Floor	10.0'	0	6/29/91
T	N.Wall 25' East of "U"	4.0'	0	6/29/91
J	N.E. Corner	4.0'	0	6/29/91
F	S. Wall	5.0'	0	7/1/91
G	E. Wall against Building	5.0'	22	7/1/91

The excavation was enlarged until screening of soil samples with a PID collected on a 5.0 to 10.0 foot grid pattern from the walls and floor indicated no VOCs present or until physical barriers (i.e., existing building foundation) were encountered. An area of impacted soil approximately 20 feet long by 3 feet wide against the foundation of the northwest corner of the building was left in place due to the possibility of endangering the structural integrity of the building. Soil from this area produced PID readings of 8 to 22 ppm in the 1.0 to 8.0 foot depth interval.

Groundwater was encountered within the excavation at a depth of 11.0 to 14.0 feet bgs. The depth of the excavation ranged from 10.0 to 16.0 feet bgs. Soil was excavated to a depth 1.0 to 2.0 feet below the level of the top of the groundwater table.

A groundwater recovery well was installed in the east end of the excavation to facilitate possible groundwater remediation activities in the future. The well consisted of a slotted, 12 - inch diameter culvert pipe placed at a depth of 17.0 feet bgs. The excavation around the slotted portion of the pipe was backfilled with number 2 washed stone as filter material. The excavation was backfilled with the thermally treated soil upon laboratory confirmation that the soil had been remediated below 10 mg/kg TPH. Photographs of the excavation are provided in Appendix B.

Soil Sampling Procedures

Soil samples were collected from the walls and floor of the excavation with the bucket of the backhoe and field screened with a PID (headspace method) for VOCs utilizing methods described in WDNR/WDILHR publication "Closure Assessments for USTs", dated September 1990. The PID measurements

were utilized in directing the excavation to ensure the excavation of contaminated soil only.

A total of twenty-two soil samples were collected for chemical analyses from the walls and floor of the excavation after the PID indicated the removal of contaminated material (except against the foundation of the building). In general, soil samples were collected every 25 feet along the walls of the excavation at a depth of 4.0 to 8.0 feet bgs. Additional soil samples were collected against the foundation of the building in order to better characterize the volume of impacted soil which had to be left in place. Refer to Figure 3-1 for soil sample locations.

Eleven soil samples (PreTr-1 through PreTr-11) were collected and chemically analyzed from excavated material to confirm the remediation of impacted soils only. Because field screening with the PID did indicate the presence of VOCs, one soil sample per 300 tons of soil remediated was collected and analyzed for TPH as diesel fuel.

All samples collected for laboratory analyses from the excavation were packed into clean, four ounce, teflon™ lidded jars, and cooled to 4°C, and transported to the laboratory for analysis.

3.3 Soil Treatment

All excavated soil was thermally treated by a CleanSoils Thermal Desorber™ treatment unit on site. A copy of WDNR Form 4400-121 - Application to Treat or Dispose of Petroleum Contaminated Soil by Thermal Treatment Unit is provided in Appendix C.

Twelve post-treatment soil samples (PostTr-1 through PostTr-12) were collected from the soil after thermal desorption to confirm the remediation of soil to levels below 10

mg/kg TPH. The soil was treated, sampled, and stockpiled in 300 ton increments. No soil was returned to the excavation as backfill until laboratory analyses confirmed TPH levels below 10 mg/kg in the treated material. Analyses of post treatment samples indicated successful remediation except in sample PostTr-9 (2400-2700 ton interval) which indicated a level of 26.3 mg/kg.

Two additional samples, PostTr-9a and PostTr-9b, were collected from the 2400-2700 ton interval of treated, stockpiled soil to verify TPH levels. Both samples confirmed the results obtained from sample PostTr-9, indicating that the soil had not been remediated to levels below 10.0 mg/kg. Consequently, the 2400-2700 ton interval of soil was retreated and sampled (PostTr-9c).

3.4 Chain of Custody Procedures

This section describes procedures used for sample identification and chain of custody. The purpose of these procedures is to ensure security and integrity of the sample from collection through transportation, storage, and analysis.

Sample identification documents are carefully prepared so that sample identification and chain of custody are maintained and sample disposition is controlled. Sample identification documents include:

- * Field Notebooks
- * Sample Labels
- * Chain of Custody Records

Each sample is labeled, chemically or physically preserved, and sealed immediately after collection. To minimize handling of sampling containers, a label is filled out prior to sample collection. The sample label is completed using waterproof ink and then firmly affixed to the sample

container. The sample label provides the following information:

- * Location
- * Sample Number
- * Date and Time of Collection
- * Analysis Required
- * Name of Sampler

A chain of custody record is fully completed in triplicate by the Aqua-Tech sampler immediately following sample collection (see Appendix D).

Transfer of Custody Shipment

The samples are packed into a cooler and are accompanied by the chain of custody record. When transferring samples, the individuals relinquishing and receiving them sign, date, and note the time on the chain of custody record. This record documents sample custody.

Laboratory Custody Procedures

A designated sample custodian accepts custody of the shipped sample and verifies the sample identification number matches that on the chain of custody record. A copy of the completed chain of custody record is retained by the laboratory until analyses are complete. The record is then transferred to the site file with the analytical results.

4.0 ANALYTICAL PROCEDURES AND RESULTS

4.1 Introduction

This section includes results of chemical analyses of Aqua-Tech collected soil samples from the excavation walls and floor, excavated material, and treated material for total petroleum hydrocarbons. Samples were analyzed at Davy Laboratories, La Crosse, Wisconsin.

4.2 Analytical Procedures

Soil samples from the excavation walls and floor were analyzed for TPH as gasoline and diesel fuel. Pre-treatment soil samples were analyzed only for TPH as diesel fuel because earlier assessments at the site indicated diesel to be the predominant petroleum product at the site. Post-treatment soil samples were analyzed only for TPH as diesel fuel because the heavier hydrocarbons are more difficult to destroy by thermal desorption than TPH as gasoline. Analytical methodology are cited on the laboratory data sheets.

Analytical methodology references for each sampling task contain specific quality control (QC) criteria associated with the particular methods. These specific requirements include calibration and QC samples and are described in detail within the methods. Daily performance tests and demonstration of precision and accuracy are required.

4.3 Results of Chemical Analyses of Aqua-Tech Collected Samples

Chemical analyses of soil samples collected from the walls and floor of the excavation did not indicate the presence of TPH as gasoline above the 1.0 mg/kg laboratory detection limit.

Chemical analyses of the soil samples collected from the walls and floor of the excavation did not indicate the presence of TPH as diesel fuel above 1.0 mg/kg except against

the foundation of the building. Samples H and G, collected against the building foundation, indicated TPH (as diesel) levels of 2.5 and 6,440 mg/kg, respectively.

Chemical analyses of pre-treatment soil samples confirmed the remediation of impacted soils only. Chemical analyses of post-treatment soil samples confirmed the remediation of all thermally treated soil to levels below 3.0 mg/kg TPH.

Tables 4-1, 4-2, and 4-3 contain compiled laboratory results from Aqua-Tech, Inc. collected soil samples. Original laboratory results are provided in Appendix D. All TPH concentrations were calculated on a dry weight basis as required by WDILHR.

TABLE 4-1
 CHEMICAL ANALYSES OF EXCAVATION SOIL SAMPLES
 SERIGRAPH, INC.
 WEST BEND, WISCONSIN
 DATE COLLECTED: JUNE 11 - JULY 9, 1991

Sample Number	Depth (Feet)	Total Petroleum Hydrocarbons ¹ mg/kg ²	Total Petroleum Hydrocarbons ³ Limits mg/kg	Maximum Photoionization Meter Readings (ppm)
A	8.0	ND ⁴	ND	0
B	8.0	ND	ND	0
C	8.0	ND	ND	0
D	8.0	ND	ND	0
E	8.0	ND	ND	0
F	5.0	ND	ND	0
G	5.0	ND	6,440.0	22
H	4.0	ND	2.5	0
I	3.0	ND	ND	0.5
J	4.0	ND	ND	0
T	4.0	ND	ND	0
U	5.0	ND	ND	0
V	8.0	ND	ND	0
W	7.0	ND	ND	0
X	7.0	ND	ND	0
Y	8.0	ND	ND	0
Z	8.0	ND	ND	0
FA	14.0	ND	ND	0
FB	14.0	ND	ND	0
FC	15.0	ND	ND	0
FD	16.0	ND	ND	0
FE	10.0	ND	ND	0

¹ Comparable to gasoline.
² All results reported on a dry weight basis.
³ Comparable to diesel fuel.
⁴ Not detected above the 1.0 mg/kg laboratory detection level.
⁵ Ten mg/kg (ppm) is the maximum level of petroleum contamination allowed in soil before remediation is recommended by the Wisconsin Department of Industry, Labor and Human Relations (WDILHR).

TABLE 4-2
 CHEMICAL ANALYSES OF PRE-TREATMENT SOIL SAMPLES
 SERIGRAPH, INC.
 WEST BEND, WISCONSIN
 DATE COLLECTED: JUNE 11 - JULY 9, 1991

Sample	Sample Collected at _____ Tons Excavated	Total Petroleum Hydrocarbons as Diesel Fuel (mg/kg) ¹
PreTr-1	150	1,330.0
PreTr-2	360	5.84
PreTr-3	705	281.0
PreTr-4	1,000	165.0
PreTr-5	1320	83.2
PreTr-6	1740	28.8
PreTr-7	1950	10.8
PreTr-8	2235	199.0
PreTr-9	2550	4,830
PreTr-10	2865	1,720.0
PreTr-11	3150	19.2

¹ All results reported on a dry weight basis.

TABLE 4-3
 CHEMICAL ANALYSES OF POST-TREATMENT SOIL SAMPLES
 SERIGRAPH, INC.
 WEST BEND, WISCONSIN
 DATE COLLECTED: JUNE 11 - JULY 9, 1991

Sample	Sample Collected at ___ Tons Treated	Total Petroleum Hydrocarbons as Diesel Fuel (mg/kg) ¹
PostTr-1	171.50	ND ²
PostTr-2	435.35	ND
PostTr-3	747.30	ND
PostTr-4	1090.00	ND
PostTr-5	1445.00	ND
PostTr-6	1653.15	ND
PostTr-7	1944.57	ND
PostTr-8	2224.50	ND
PostTr-9	2483.40	26.3
PostTr-9a	2400-2700 ³	23.0
PostTr-9b	2400-2700 ³	45.8
PostTr-9c	2400-2700 ⁴	ND
PostTr-10	2865.62	ND
PostTr-11	3145.50	2.9
PostTr-12	3200.00	ND

- ¹ All results reported on a dry weight basis.
- ² Not detected above the 1.0 mg/kg laboratory detection limit.
- ³ Collected from the 2400-2700 ton stockpile of treated soil.
- ⁴ Collected from the 2400-2700 ton interval after being thermally treated for the second time.

5.0 DISCUSSION

5.1 Introduction

This section discusses data and information concerning the remediation of petroleum impacted soil associated with the aboveground storage tanks formerly located at the Serigraph, Inc. site.

5.2 Soil

Approximately 3,267 tons of petroleum impacted soil were excavated from the site and remediated by thermal desorption. After the removal of impacted soils, PID screening of the excavation floor and walls did not detect the presence of volatile organic compounds except adjacent to the foundation of the building. Field screening of soil against the foundation of the building produced PID readings in the 8 to 22 ppm range.

Laboratory analyses of samples collected from the floor and walls of the excavation confirm that all soil contaminated by TPH above the 10 mg/kg was removed except for a localized area against the foundation of the building. Laboratory analyses of sample G, collected from soil against the foundation of the building, indicated a TPH level of 6,440.0 mg/kg. It is estimated that approximately 20 to 30 cubic yards of soil contaminated above the 10 mg/kg WDILHR standard for TPH remains in this location.

All impacted soil excavated from the site was thermally treated on site. Laboratory analyses of post-treatment soil samples indicate that the soil has been successfully remediated. No TPH as diesel fuel was detected above the 3.0 mg/kg in soil that was treated and used as backfill.

5.3 Groundwater

Petroleum constituents appeared to intercept the groundwater at a depth of 11.0 to 14.0 feet bgs. No groundwater samples were collected from the excavation. The potential for petroleum impacted groundwater does exist and will require additional investigation.

6.0 RECOMMENDATIONS

After completing the Environmental Assessment for the Serigraph, Inc. site, Aqua-Tech, Inc. recommends the installation of four groundwater monitoring wells and groundwater sampling per WDNR analytical protocol. The proposed locations of the four monitoring wells are presented in Figure 3-1.

Field screening of the excavation with a PID and results of laboratory analyses of samples collected from the excavation indicate that the contaminated soil was removed from the site to the extent practicable. Laboratory results indicate that the contaminated soil has been remediated to levels below WDILHR standards. The approximately 30 cubic yards of impacted soil located against the foundation of the building which could not be excavated does not constitute a significant threat to the environment, human health, or safety. Aqua-Tech, Inc. suggests that the remaining contamination be left in place and allowed to degrade naturally.

APPENDIX A

SERIGRAPH PID SCREENING OF EXAVATED MATERIAL
1 PID PER 15 TONS

	Sample Collected at tons	PID (ppm)	Depth	Approximate Location
6-13-91	15	45	6-7	10' W of B-3
	30	67	7- 8	10' W of B-3
	45	20	6.0	12' W of B-3
	60	15	8.0	@ loc. of B-3
6-14-91	75	18	8- 10	2' E of B-3
	90	50	5.0	8' NW of B-3
	105	20	5.0	5' NE of B-3
	120	35	5- 7	8' N of B-3
	135	40	9.0	10' NE of B-3
	150	25	8.0	4' S of B-3
	165	15	8.0	4' SE of B-3
	180	5	5-8	11' NE of B-3
	195	5	10-12	12' NE of B-3
	210	15	8-10	12' NE of B-3
	240	8	10-11	13' NE of B-3
	255	11	7-8	14' NE of B-3
	270	6	5-6	14' E of B-3
	285	1	7-8	10' SE of B-3
	300	22	10-11	14' E of B-3
	315	12	7-9	15' E of B-3
	330	7	7-8	35' N of B-8
	345	4	9-11	35' N of B-8
	345	6	11.0	35' N of B-8

EXCAVATED MATERIAL

	Sample Collected at tons	PID (ppm)	Depth	Approximate Location
6-15-91	375	8	5-10	16' NE of B-3
	390	10	5-10	17' NE of B-3
	405	22	5-10	18' NE of B-3
	420	40	5-10	19' NE of B-3
	435	35	5-10	20' NE of B-3
	450	18	5-10	21' NE of B-3
	465	22	5-10	22' NE of B-3
	480	37	5-10	23' NE of B-3
	495	18	5-10	24' NE of B-3
	510	21	5-10	25' NE of B-3
	525	150	7-10	60' N of B-8
	540	50	6-10	61' N of B-8
	555	30	3-4	60 N' + 5 East of B-8
	570	40	5-8	60 N' + 5 East of B-8
	585	10	5-8	26' ENE of B-8
	600	6	8-10	35' NE of B-8
	615	52	8-10	40' W of B-4
	630	22	3-4	39' W of B-4
	645	8	7-10	38' W of B-4
	660	40	7-8	37' W of B-4
	675	10	10.0	40' NE of B-8
	690	12	10.0	40' NE of B-8
	705	110	6-9	65' NE of B-8
	720	8	3-5	40' W of B-4
	735	2	3-7	30' NE of B-8

EXCAVATED MATERIAL

	Sample Collected at tons	PID (ppm)	Depth	Approximate Location
	750	3	10.0	32' NE of B-8
	765	7	6.0	33' NE of B-8
	780	100	7-10	39' W of B-4
	795	200	8-9	38' W of B-4, + 10' N of B-4
6-18-91	810	28	5-6	20' N of B-3
	825	15	7-10	22' NE of B-3
	840	4	8-11	38' SW of B-4
	855	3	7-10	40' SW of B-4
	870	10	10-11	40' SW of B-4
	885	18	6-8	40' W of B-4
	900	16	7-9	40' W of B-4
	915	24	10-11	40' W of B-4
	930	8	7-10	39' W of B-4
	945	3	6-8	39' SW of B-4
	960	5	8-11	38' SW of B-4
	975	30	5-10	38' W of B-4
	990	25	10-12	38' W of B-4
	1005	50	10-12	39' W of B-4
	1020	10	5-7	39' W of B-4
	1035	40	3-10	38' W of B-4
	1050	35	6-11	39' W of B-4
	1065	3	3-7	37' W of B-4
	1080	12	6-8	38' SW of B-4
	1095	15	8-10	38' SW of B-4
	1110	29	7-10	37' NW of B-4
	1125	15	5-10	37' W of B-4
	1140	3	6-9	37' SW of B-4

EXCAVATED MATERIAL				
	Sample Collected at tons	PID (ppm)	Depth	Approximate Location
	1155	22	10.0	36' W of B-4
	1170	40	6-8	36' NW of B-4
	1185	15	3-6	35' W of B-4
	1200	52	3-8	33' NW of B-4
	1215	50	1.0	32' NW of B-4
	1230	120	10.0	31' W of B-4
	1245	70	8.0	20' N of B-3
	1260	50	6-7	20' N of B-3
	1275	50	10-11	20' N of B-3
	1290	130	7-10	20' NW of B-3
	1305	110	6-8	20' NW of B-3
	1320	35	6-9	20' NW of B-3
	1335	25	5-10	21' NW of B-3
	1350	50	3-8	21' N of B-3
	1365	10	6-9	22' NW of B-3
	1380	32	8-11	23' NW of B-3
6-20-91	1395	40	6-8	40' NW of B-3
	1410	38	1-5	41' N of B-3
	1425	19	6-8	38' N of B-3
	1440	16	0-5	36' N of B-3
	1455	22	4-8	35' N of B-3
	1470	18	8-10	37' NW of B-3
	1485	3	10-12	30' N of B-3
	1500	40	7-9	29' N of B-3
	1515	25	6-8	38' N of B-3
	1530	25	6-8	39' N of B03

EXCAVATED MATERIAL

	Sample Collected at tons	PID (ppm)	Depth	Approximate Location
	1545	22	6-8	40' N of B-3
	1560	32	5-10	38' NE of B-3
	1575	18	4-8	36' N of B-3
	1590	10	0-3	22' NE of B-3
	1605	12	6-9	20' NE of B-3
	1620	4	0-2	30' N of B-3
	1635	17	6-10	28' NE of B-3
	1650	21	10-11	30' N of B-3
	1665	6	4-8	28' N of B-3
	1680	8	6-8	31' N of B-3
	1695	12	8-10	20' NE of B-3
	1710	22	4-7	22' NE of B-3
6-24-91	1725	3	2-10	22' NE of B-3
	1740	20	5-10	28' N of B-3
	1755	7	6-8	20' NE of B-3
	1770	12	5-10	22' N of B-3
	1785	4	6-8	23' N of B-3
	1800	18	10.0	35' N of B-3
	1815	12	8.0	35' NW of B-3
	1830	4	7-10	38' NW of B-3
	1845	2	5-10	37' NW of B-3
	1860	2	6-8	38' N of B-3
	1875	18	6-8	33' N of B-3
	1890	15	7-10	33' N of B-3
	1905	25	3-8	12' NE of B-3
	1920	12	6-8	22' N of B-3
	1935	5	8-10	27' N of B-3

EXCAVATED MATERIAL

	Sample Collected at tons	PID (ppm)	Depth	Approximate Location
6-25-91	1950	18	8-10	20' NE of B-3
	1965	4	5-7	21' NE of B-3
	1980	4	4-7	22' NE of B-3
	1995	2	8-10	22' NE of B-3
	2010	20	2-5	23' NE of B-3
	2025	15	7-10	23' NE of B-3
	2040	10	6-8	24' NE of B-3
	2055	12	8-10	24' NE of B-3
	2070	16	3-5	25' NE of B-3
	2085	14	6-10	25' NE of B-3
	2100	8	6-10	26' NE of B-3
	2115	4	3-5	26' NE of B-3
	2130	20	8-10	60' NW of B-4
	2145	13	8.0	45' NW of B-4
	2160	12	8-10	45' NW of B-4
	2175	30	7-9	50' NW of B-4
	2190	25	5-10	50' NW of B-4
6-26-91	2205	10	5-10	40' NW of B-4
	2220	32	4-5	40' NW of B-4
	2235	32	8-10	40' NW of B-4
	2250	7	2-3	38' NW of B-4
	2265	2	12	37' NW of B-4
	2280	13	3-5	37' NW of B-4
	2295	25	0-3	37' NW of B-4
	2310	40	0-3	36' NW of B-4
	2325	25	5-8	36' NW of B-4
	2340	22	8-12	36' NW of B-4
	2355	18	6-8	39' NW of B-4

EXCAVATED MATERIAL

	Sample Collected at tons	PID (ppm)	Depth	Approximate Location
	2370	25	3-8	35' NW of B-4
	2385	35	8-11	35' NW of B-4
	2400	12	8-10	34' NW of B-4
	2415	8	5-10	33' NW of B-4
	2430	15	3-5	33' NW of B-4
	2445	4	3-6	32' NW of B-4
	2460	16	6-8	31' NW of B-4
	2475	10	6-10	30' NW of B-4
	2490	22	8-10	29' NW of B-4
	2505	12	3-5	28' NW of B-4
	2520	15	4-6	30' NW of B-4
	2535	20	3-5	30' NW of B-4
	2550	60	1-2	10' N of B-4
	2565	90	2-3	10' N of B-4
	2580	55	3.0	10' N of B-4
	2595	18	3.0	12' N of B-4
6-27-91	2610	4	2-4	22' W of B-4
	2625	18	6-8	22' W of B-4
	2640	3	10-11	22' W of B-4
	2655	35	6-10	20' NW of B-4
	2670	50	10-11	20' NW of B-4
	2685	7	1-2	15' SW of B-4
	2700	30	2-5	15' NW of B-4
	2715	5	12-14	10' SW of B-4
	2730	10	8-10	20' NW of B-4
	2745	50	5-6	18' NW of B-4
	2760	45	6-10	8' NW of B-4

EXCAVATED MATERIAL

	Sample Collected at tons	PID (ppm)	Depth	Approximate Location
	2775	18	0-3	17' NW of B-4
	2790	90	3	10' NW of B-4
	2805	75	2	10' N of B-4
	2820	60	4-7	10' N of B-4
	2835	70	6	10' NW of B-4
	2850	12	12.0	10' NW of B-4
	2865	55	6.0	10' NW of B-4
	2880	45	8.0	12' NW of B-4
	2895	5	10.0	12' NW of B-4
	2910	50	13	12' NW of B-4
	2925	40	12	12' NW of B-4
	2940	6	1-3	28' NW of B-4
	2955	7	1-3	26' NW of B-4
	2970	10	1-3	25' N of B-4
	2985	20	4.0	8' SW of B-4
	3000	10	10	6' SW of B-4
	3015	35	7	8' NW of B-4
	3030	50	11	10' NW of B-4
	3045	7	2-3	30' NW of B-4
	3060	3	4-5	30' NW of B-4
	3075	6	1-2	30' N of B-4
	3090	2	2-5	30' N of B-4
	3105	10	4-6	10' N of B-4
	3120	15	6-8	8' NW of B-4
	3135	60	3.0	3' SW of B-4
	3150	12	3.0	2' NW of B-4
	3165	40	3-4	10' S of B-4

EXCAVATED MATERIAL				
	Sample Collected at tons	PID (ppm)	Depth	Approximate Location
	3180	50	5-6	2' NW of B-4
	3195	19	2.0	8' S of B-4
	3210	25	2.0	18' SW of B-4
	3225	8	2-3	20' NE of B-4
	3240	20	2-3	22' NE of B-4
	3255	10	2-3	22' NE of B-4
	3270	2	5.0	20' NE of B-4

APPENDIX B

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Serigraph - 95036

PAGE 1 OF 3

DATE: 6/15/91

TIME: 10:00 a.m.

DIRECTION OF PHOTOGRAPH:

West

WEATHER CONDITIONS:

o

PHOTOGRAPHED BY:

Peter Pavalko

SAMPLE ID:
(If Applicable):

FA+A+B (Approximate)



DESCRIPTION: Pictured is the southwest corner of the excavation.

DATE: 6/17/91

TIME: 12:00 p.m.

DIRECTION OF PHOTOGRAPH:

South

WEATHER CONDITIONS:

o

PHOTOGRAPHED BY:

Peter Pavalko

SAMPLE ID:
(If Applicable):

C+D (Approximate)



DESCRIPTION: Pictured is a portion of the south wall of excavation.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Serigraph - 95036

PAGE 2 OF 3

DATE: 6/18/91

TIME: 10:00 a.m.

DIRECTION OF PHOTOGRAPH:

West

WEATHER CONDITIONS:

PHOTOGRAPHED BY:

Peter Pavalko

SAMPLE ID:
(If Applicable):

FB+E (Approximate)



DESCRIPTION: Pictured is the southern extent of the excavation. The excavation has not yet been extended to the north at the time of this photograph.

DATE: 6/19/91

TIME: 4:00 p.m.

DIRECTION OF PHOTOGRAPH:

Northwest

WEATHER CONDITIONS:

PHOTOGRAPHED BY:

Peter Pavalko

SAMPLE ID:
(If Applicable):

Z+Y (Approximate)



DESCRIPTION: Pictured is the west wall of the excavation. The soil exit auger had to be dismantled in order to extend the excavation to the west.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Serigraph - 95036

PAGE 3 OF 3

DATE: 6/29/91

TIME: 2:30 p.m.

DIRECTION OF PHOTOGRAPH:

Northeast

WEATHER CONDITIONS:

Sunny

o

PHOTOGRAPHED BY:

Peter Pavalko

SAMPLE ID:
(If Applicable):

T, J, I, H, FE



DESCRIPTION: Pictured is the east end of the excavation. The approximate location of soil samples are shown. At the time this photo was taken not all of the samples had been collected.

DATE: 7/1/91

TIME: 10:30 a.m.

DIRECTION OF PHOTOGRAPH:

Southeast

WEATHER CONDITIONS:

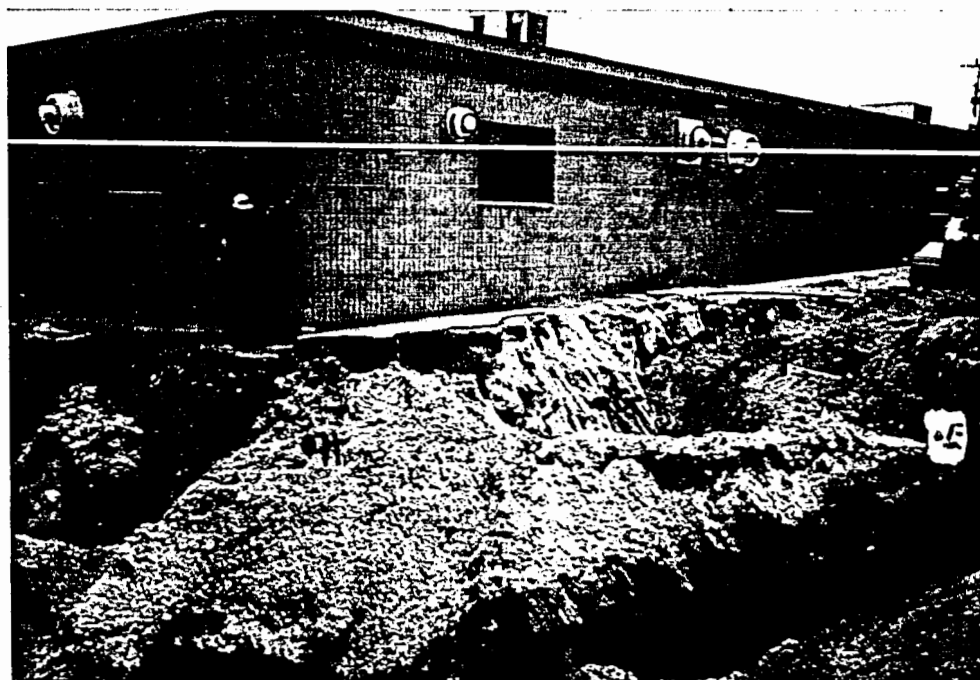
Sunny

o

PHOTOGRAPHED BY:

Peter Pavalko

SAMPLE ID:
(If Applicable):



DESCRIPTION: This picture was taken before the excavation and sampling was complete. Soil sample locations depicted are approximate.

APPENDIX C

**APPLICATION TO TREAT OR DISPOSE OF PETROLEUM CONTAMINATED SOIL
ASPHALT PLANT OR OTHER TYPE OF THERMAL TREATMENT UNIT**

Form 4400-121

This form is required by the Department of Natural Resources for leaking underground storage tank sites (Wis. Adm. Code NR 419). Failure to complete and submit this form may lead to violations of subchapters III and IV of ch. 144 Wis. Stats. and may result in forfeitures of not less than \$10 or more than \$25,000 for each violation, pursuant to ss. 144.426, 144.469, 144.74 (1), and 144.99, Wis. Stats., or fines of not less than \$100 or more than \$150,000 or imprisonment for not more than 10 years, or both, pursuant to s. 144.74 (2), Wis. Stats. Each day of a continuing violation constitutes a separate violation. Department approval of this form is required prior to site remediation, except for soils to be buried in landfills.

ALL SITES MUST COMPLETE PART I

Part I. Source of Soil

Site/Facility Name
SERIGRAPH, INC.

Site I.D. # (for DNR use only)

Site Address
760 INDIANA AVENUE

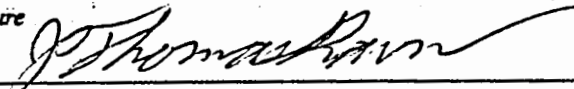
Contact Name
TOM RAVIN

City, State, Zip Code
WEST BEND, WI 53095

1/4, 1/4, Section, Township, and Range
SE SW 13 11N 19E

The information on this form is accurate to the best of my knowledge.

Signature



Telephone Number (include area code)

414-335-7343

Consulting Firm

Contact

Telephone Number

AQUA-TECH, INC.

PETER PAVALKO

414-284-5746

Estimated Volume Contaminated Soil

4000 Tons/cubic yards (circle one)

Soil Type (USCS)

- sand (SP, SW)
- silty/clayey sands (SM, SC)
- silt (ML, MH, OL)
- clay (CI, CH, OH)
- gravel (GC, GM, GP, GW)
- peat (PT)

Type of Petroleum Contamination (Circle):

Gasoline Diesel Fuel/#2 Fuel Oil ?

Other MOSTLY DIESEL FUEL

Contaminant concentration:

One screened sample per 15 yds³ and one laboratory analysis per 300 yds³ of contaminated soil when the PID registers contamination OR one laboratory analysis per 100 yds³ when the PID does not register contamination on soil shown to be contaminated during the site investigation/excavation or stockpiling. PLEASE ATTACH A TABLE SHOWING THE RESULTS OF BOTH FIELD SCREENING AND ANALYSES, IN ADDITION TO PROVIDING THE FOLLOWING INFORMATION.

Total Benzene in soil to be remediated (attach calculations) 3.36 lbs

Total Petroleum Hydrocarbons in soil to be remediated (attach calculations) 41,311 lbs

Total TPH as DIESEL FUEL

ATTACH EMISSIONS CALCULATIONS

(a/1,000,000) x (2,800 lbs/yd³) x b = benzene emission in lbs., where
 a = benzene concentration of soil sample in ppm or mg/kg dry weight basis
 b = amount of contaminated soil in yds³

NOTE: This calculation can also be used to estimate TPH emissions by substituting TPH concentration (ppm or mg/kg) for "a." It may also be used to calculate VOCs. 3.91:1.2P

Part II: Proposed Treatment Facility

Name of Plant CLEAN SOILS THERMAL TREATMENT

Plant number and Model SRU-101

Contact DAVE KRESS

DNR Facility I.D. No. 999773720

AIR POLLUTION CONTROL PERMIT NO. 89-POY

Address 700 INDIANA AVENUE, WEST BEND, WI
(or location of portable plant)

Distance to Nearest Residence, Business 250 FEET

LEAVE BLANK - DEPARTMENT OF NATURAL RESOURCES USE ONLY

Application Concurrence:

Air Management Michael J. Griffin * Report March 1991 EA Date May 10, 1991

Project Manager Jeffrey L. Luscher Date MAY 10, 1991

Comments:

THIS SECTION TO BE COMPLETED BY THE ASPHALT/THERMAL UNIT PROCESSING THE CONTAMINATED SOI
AFTER PROCESSING IS COMPLETED

Part III

WDNR Air Quality permit Number

Actual Volume of Soil Treated (tons/cubic yards)

Date of transport to plant

Date of treatment

Transporter Name

Transporter License Number

Circle One: Roasted and Incorporated Roasted Only

Total Benzene emissions in pounds for this batch (apply 50% destruction factor if no after burner is used)

Benzene emissions to date for this plant (including this batch) for this calendar year

Signature of Treatment plant representative

Telephone Number at Plant

POST BURN SAMPLE RESULTS: COMPLETE ONLY FOR SOILS NOT INCORPORATED!

(One representative sample for each 100 cubic yards-not composites)

Sample Number _____

TPH _____

DNR APPROVAL IS REQUIRED BEFORE USING AS COMMON FILL

Date of backfilling or use as common fill

Location of fill site SE 1/4 SW 1/4 13S 11N T19E R

DIRECTIONS: 1) Complete parts I and II. 2) Submit the application to the DNR project manager for approval. 3) Have the treatment facility complete part III of the approved form after the soil has been treated. 4) Return the ORIGINAL form to the DNR project manager. 5) Keep a copy for your files.

Serigraph, 95036
May 3, 1991

BENZENE AND TPH CALCULATIONS

TOTAL BENZENE:

Benzene not detected at the 0.40 ug/g laboratory detection limit using 0.40 ug/g for calculation purposes.

$$\frac{0.40}{1,000,000} \times 2800 \text{ lbs / yd}^3 \times 3000 = 3.36$$

TOTAL TPH AS DIESEL:

Mean TPH in samples in which TPH was detected = 4,918 ppm

NOTE: Samples were collected from the most contaminated areas within the boring and are not representative of the materials as a whole.

$$\frac{4918}{1,000,000} \times 2800 \text{ lbs / yd}^3 \times 3000 = 41,311.20 \text{ lbs}$$

APPENDIX D

DAVY LABORATORIES

115 South 6th Street
P.O. Box 2076
La Crosse, WI 54602-2076
(608) 782-3130



Division of Davy Engineering Co.

Aqua-Tech, Inc.
140 South Park Street
Port Washington, Wisconsin 53074

June 19, 1991
Client No. 10645
Project No. 95036

Attn: Mr. Peter Pavalko

INTRODUCTION:

Number of Samples Received: Six soil samples
Date Received: June 18, 1991
Analysis Requested: Three soil samples to be analyzed for Total Petroleum Hydrocarbons (TPH) as gasoline and diesel and the other three of the samples as diesel. All the soil samples to be analyzed for total solids.

SAMPLE IDENTIFICATION:

Date Collected: June 13 and 14, 1991
Collected By: Peter Pavalko of Aqua-Tech, Inc.
Collection Location: Project: 95036 - Serigraph
Date Delivered: June 18, 1991
Delivered By: Client

Upon the arrival at the laboratory, the samples were given the following identification numbers:

<u>Davy Lab Number</u>	<u>Sample Site</u>
18521	A
18522	FA
18523	B
18524	Pre-Tr-1
18525	Pre-Tr-2
18526	Pos-Tr-1

METHODOLOGY:

TPH ANALYSIS

The soil samples were analyzed according to the method outlined in the Leaking Underground Fuel Tank Manual published by the State of California. The Wisconsin Department of Natural Resources references this method for the analysis of Total Petroleum Hydrocarbons (TPH) either as Gasoline, Fuel Oil, or Diesel.

Each sample for the determination of TPH as Diesel was extracted three times with carbon disulfide. The extracts were then dried and concentrated to 1-ml with carbon disulfide. A portion of the sample was injected into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Fuel standards from the EPA are used to calibrate the system. A minimum of eight peak areas are used to quantitate the sample response. Total peak areas obtained were compared with known standards.

The soil samples were analyzed for TPH as Gasoline by extracting a portion of the sample with methanol. The sample was then purged for 11-minutes using helium as the carrier gas. Following the purge cycle, the sample was desorbed into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Peak areas obtained were then compared to the areas obtained from standard curves. Quantitation was based on the response of the parameter against concentration. A linear regression curve was used.

TOTAL SOLIDS

The sample was analyzed according to EPA Methodology. A portion of the sample was weighed out and dried to a constant weight.

DAVY LABORATORIES

115 South 6th Street
P.O. Box 2076
La Crosse, WI 54602-2076
(608) 782-3130



Division of Davy Engineering Co.

RESULTS:

The results of the analysis for Total Petroleum Hydrocarbons (TPH) and total solids is given below:

<u>SAMPLE NO.</u>	<u>TOTAL SOLIDS(%)</u>	<u>TPH as DIESEL ppm(a)</u>	<u>TPH as GASOLINE ppm(a)</u>
18521-A	85.3	<1.0	<1.0
18522-FA	78.0	<1.0	<1.0
18523-B	83.3	<1.0	<1.0
18524-PreTr-1	88.5	1,330	---
18525-PreTr-2	86.4	5.84	---
18526-PosTr-1	97.6	<1.0	---

< means "less than"
a - calculated on a dry weight basis
Minimum Detection Limit = 1.0 ppm

Submitted by:

DAVY LABORATORIES

A handwritten signature in cursive script, appearing to read "Paul A. Harris".

Paul A. Harris, Director

The laboratory analysis reported was determined in accordance with current methodology. The results are only representative of the samples received; conditions can be expected to vary at different times and under different sampling conditions.

Use Black Ink Only, Press Hard

PROJ. NO 95036	PROJECT NAME SERIGRAPH
--------------------------	----------------------------------

SAMPLERS: (Signature)
Peter Pavalko

ATI Lab No.	Yr 91	Date	Time	Sample Station ID	Depth
-------------	-------	------	------	-------------------	-------

ATI Lab No.	Yr 91	Date	Time	Sample Station ID	Depth
		6/13	6:00pm	A	8'
		6/14	5:00pm	FA	14'
		6/14	6:00pm	B	8'
		6/14	3:00pm	PRETR-1	N/A
		6/14	6:30pm	PRETR-2	N/A
		6/14	4:00pm	POSTTR-1	N/A

Total Number of Containers	Filtered (Yes/No)												
	Preserved (Code)												
	Refrigerated (Yes/No)												
	Sample type (Grab/Composite)												
	Sample sources (WW, GW, DW, other)												
	Preservation Code: A - None D - NaOH B - HNO3 E - HCL C - H ₂ SO4 F - _____												
											Analysis	Comments:	PID
												18521	0
												18522	0
												18523	0
												18524	40
												18525	5
												18526	-

Relinquished by: (Signature) <i>Peter Pavalko</i>	Date / Time 6/14/91 7:15pm	Received by: (Signature)	Date / Time
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) <i>Paula Dolmar</i>	Date / Time 6/18/91 11:00

Report to: *P. Pavalko*

Name P. Pavalko

Street _____

City _____ State _____ Zip _____

Phone no. () _____

Fax no. () _____

Remarks: **SAMPLES "A" "B" AND POSTTR-1 ARE TO BE RUN ON A "24-HOUR TURNAROUND". TO DAVY**

Receipt pH _____

Receipt temp 11°C

DAVY LABORATORIES

115 South 6th Street
P.O. Box 2076
La Crosse, WI 54602-2076
(608) 782-3130



Division of Davy Engineering Co.

Aqua-Tech, Inc.
140 South Park Street
Port Washington, Wisconsin 53074

June 19, 1991
Client No. 10644
Project No. 95036

Attn: Mr. Peter Pavalko

INTRODUCTION:

Number of Samples Received: One soil samples
Date Received: June 18, 1991
Analysis Requested: Total Petroleum Hydrocarbons (TPH) as diesel and for total solids.

SAMPLE IDENTIFICATION:

Date Collected: June 17, 1991
Collected By: Peter Pavalko of Aqua-Tech, Inc.
Collection Location: Project: 95036 - Serigraph
Date Delivered: June 18, 1991
Delivered By: Client

Upon the arrival at the laboratory, the sample was given the following identification number:

<u>Davy Lab Number</u>	<u>Sample Site</u>
18520	Pos-Tr-2

METHODOLOGY:

TPH ANALYSIS

The soil sample was analyzed according to the method outlined in the Leaking Underground Fuel Tank Manual published by the State of California. The Wisconsin Department of Natural Resources references this method for the analysis of Total Petroleum Hydrocarbons (TPH) either as Gasoline, Fuel Oil, or Diesel.

The sample for the determination of TPH as Diesel was extracted three times with carbons disulfide. The extracts were then dried and concentrated to 1-ml with carbon disulfide. A portion of the sample was injected into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Fuel standards from the EPA are used to calibrate the system. A minimum of eight peak areas are used to quantitate the sample response. Total peak areas obtained were compared with known standards.

TOTAL SOLIDS

The sample was analyzed according to EPA Methodology. A portion of the sample was weighed out and dried to a constant weight.

DAVY LABORATORIES

115 South 6th Street
P.O. Box 2076
La Crosse, WI 54602-2076
(608) 782-3130



Division of Davy Engineering Co.

RESULTS:

The results of the analysis for Total Petroleum Hydrocarbons (TPH) and total solids is given below:

<u>SAMPLE NO.</u>	<u>TOTAL SOLIDS(%)</u>	<u>TPH as DIESEL ppm(a)</u>
18520-PosTr-2	85.3	<1.0

< means "less than"
a - calculated on a dry weight basis
Minimum Detection Limit = 1.0 ppm

Submitted by:

DAVY LABORATORIES

A handwritten signature in black ink, appearing to read "Paul A. Harris", written over a horizontal line.

Paul A. Harris, Director

The laboratory analysis reported was determined in accordance with current methodology. The results are only representative of the samples received; conditions can be expected to vary at different times and under different sampling conditions.

Use Black Ink Only, Press Hard

PROJ. NO: **9508** PROJECT NAME: **Seisigraph**

SAMPLERS: (Signature) *[Signature]*

ATI Lab No. **Yr 21** Date **6/17** Time **9:20** Sample Station ID **POSTT-2**

Total Number of Containers	X X		Filtered (Yes/No)
			Preserved (Code)
			Refrigerated (Yes/No)
			Sample type (Grab/Composite)
			Sample sources (WW, GW, DW, other)
X X		Analysis	Preservation Code:
% SOLIDS TYP DIESSEL			A - None D - NaOH B - HNO3 E - HCL C - H ₂ SO4 F - _____
		Comments:	
	X X	18520	Post TREATMENT Sample collected @ 435.35 Yards Rusted and Soil Exit temp of 575°F

Relinquished by: (Signature) *[Signature]* Date / Time **6/17/91 11:20**

Relinquished by: (Signature) _____ Date / Time _____ Received by: (Signature) _____ Date / Time _____

Relinquished by: (Signature) _____ Date / Time _____ Received for Laboratory by: (Signature) *[Signature]* **6/18/91 11:00**

Report to: Name **P. Parvalbo**

Street _____ City _____ State _____ Zip _____

Phone no. () _____ Fax no. () _____

Remarks: **24-hour TURNAROUND**

Receipt pH _____ Receipt temp **16°C**

DAVY LABORATORIES

115 South 6th Street
P.O. Box 2076
La Crosse WI 54602-2076
(608) 782-3130
FAX: (608) 784-6611



Division of Davy Engineering Co.

Aqua-Tech, Inc.
140 South Park Street
Port Washington, Wisconsin 53074

June 20, 1991
Client No. 10651
Project No. 95036

Attn: Mr. Peter Pavalko

INTRODUCTION:

Number of Samples Received: Three soil samples
Date Received: June 19, 1991
Analysis Requested: Three soil samples to be analyzed for Total Petroleum Hydrocarbons (TPH) as diesel and two of the samples to be analyzed for gasoline. All of the samples were to be analyzed for total solids.

SAMPLE IDENTIFICATION:

Date Collected: June 17, 1991
Collected By: Peter Pavalko of Aqua-Tech, Inc.
Collection Location: Project: 95036 - Serigraph
Date Delivered: June 19, 1991
Delivered By: Client

Upon the arrival at the laboratory, the samples were given the following identification numbers:

<u>Davy Lab Number</u>	<u>Sample Site</u>
18539	C
18540	FB
18541	PreTr-3

METHODOLOGY:

TPH ANALYSIS

The soil samples were analyzed according to the method outlined in the Leaking Underground Fuel Tank Manual published by the State of California. The Wisconsin Department of Natural Resources references this method for the analysis of Total Petroleum Hydrocarbons (TPH) either as Gasoline, Fuel Oil, or Diesel.

Each sample for the determination of TPH as Diesel was extracted three times with carbon disulfide. The extracts were then dried and concentrated to 1-ml with carbon disulfide. A portion of the sample was injected into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Fuel standards from the EPA are used to calibrate the system. A minimum of eight peak areas are used to quantitate the sample response. Total peak areas obtained were compared with known standards.

The soil samples were analyzed for TPH as Gasoline by extracting a portion of the sample with methanol. The sample was then purged for 11-minutes using helium as the carrier gas. Following the purge cycle, the sample was desorbed into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Peak areas obtained were then compared to the areas obtained from standard curves. Quantitation was based on the response of the parameter against concentration. A linear regression curve was used.

TOTAL SOLIDS

The samples were analyzed according to EPA Methodology. A portion of the sample was weighed out and dried to a constant weight.

DAVY LABORATORIES

115 South 6th Street
P.O. Box 2076
La Crosse WI 54602-2076
(608) 782-3130
FAX: (608) 784-6611



Division of Davy Engineering Co.

RESULTS:

The results of the analysis for Total Petroleum Hydrocarbons (TPH) and total solids is given below:

<u>SAMPLE NO.</u>	<u>TOTAL SOLIDS(%)</u>	<u>TPH as DIESEL ppm(a)</u>	<u>TPH as GASOLINE ppm(a)</u>
18539-C	79.5	<1.0	<1.0
18540-FB	81.2	<1.0	<1.0
18541-PreTr-3	83.0	281	—

< means "less than"

a - calculated on a dry weight basis

Minimum Detection Limit = 1.0 ppm

Submitted by:

DAVY LABORATORIES

Paul A. Harris (msh)
Paul A. Harris, Director

The laboratory analysis reported was determined in accordance with current methodology. The results are only representative of the samples received; conditions can be expected to vary at different times and under different sampling conditions.

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME					VO. OF CON- TAINERS	SOLIDS TPH DIESEL TPH GAS			REMARKS	
SAMPLERS: (Signature)												
LAB NO.	DATE	TIME	COMP	GRAB	STATION LOCATION							
	1991										PID	
	6-17	12:30		X	C	18539	1	X	X	X	SOUTH WALL 8'	0
	6-17	1:15		X	FB	18540	1	X	X	X	FLOOR 14'	0
	6-17	2:30		X	PRETR-3	18541	1	X	X		PRE Treatment sample - 600-900 tons	

Relinquished by: (Signature) <i>Peter Swulley</i>	Date / Time 6/17/91 5:40	Received by: (Signature)	Date / Time	Report to: Name <u>PETER E. PAVALKO</u>
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Street _____
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) <i>Paula Holman</i>	Date / Time 6/19/91	City _____ State _____ Zip _____
Remarks	Run samples "C" and "FB" on a 24-hour turnaround.			Phone no. () _____

Remarks

DAVY LABORATORIES

115 South 6th Street
P.O. Box 2076
La Crosse, WI 54602-2076
(608) 782-3130



Division of Davy Engineering Co.

Aqua-Tech, Inc.
140 South Park Street
Port Washington, Wisconsin 53074

June 21, 1991
Client No. 10651
Project No. 95036

Attn: Mr. Peter Pavalko

INTRODUCTION:

Number of Samples Received: Four soil samples
Date Received: June 20, 1991
Analysis Requested: All soil samples to be analyzed for Total Petroleum Hydrocarbons (TPH) as diesel and two of the samples to be analyzed for gasoline. All of the samples were to be analyzed for total solids.

SAMPLE IDENTIFICATION:

Date Collected: June 18, 1991
Collected By: Peter Pavalko of Aqua-Tech, Inc.
Collection Location: Project: 95036 - Serigraph
Date Delivered: June 20, 1991
Delivered By: Client

Upon the arrival at the laboratory, the samples were given the following identification numbers:

<u>Davy Lab Number</u>	<u>Sample Site</u>
18553	PreTr-4
18554	D
18555	FC
18556	PosTr-3

METHODOLOGY:

TPH ANALYSIS

The soil samples were analyzed according to the method outlined in the Leaking Underground Fuel Tank Manual published by the State of California. The Wisconsin Department of Natural Resources references this method for the analysis of Total Petroleum Hydrocarbons (TPH) either as Gasoline, Fuel Oil, or Diesel.

Each sample for the determination of TPH as Diesel was extracted three times with carbon disulfide. The extracts were then dried and concentrated to 1-ml with carbon disulfide. A portion of the sample was injected into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Fuel standards from the EPA are used to calibrate the system. A minimum of eight peak areas are used to quantitate the sample response. Total peak areas obtained were compared with known standards.

The soil samples were analyzed for TPH as Gasoline by extracting a portion of the sample with methanol. The sample was then purged for 11-minutes using helium as the carrier gas. Following the purge cycle, the sample was desorbed into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Peak areas obtained were then compared to the areas obtained from standard curves. Quantitation was based on the response of the parameter against concentration. A linear regression curve was used.

TOTAL SOLIDS

The samples were analyzed according to EPA Methodology. A portion of the sample was weighed out and dried to a constant weight.

DAVY LABORATORIES

115 South 6th Street
P.O. Box 2076
La Crosse, WI 54602-2076
(608) 782-3130



Division of Davy Engineering Co.

RESULTS:

The results of the analysis for Total Petroleum Hydrocarbons (TPH) and total solids is given below:

<u>SAMPLE NO.</u>	<u>TOTAL SOLIDS(%)</u>	<u>TPH as DIESEL ppm(a)</u>	<u>TPH as GASOLINE ppm(a)</u>
18553-PreTr-4	83.9	165	---
18554-D	80.9	< 1.0	< 1.0
18555-FC	84.5	< 1.0	< 1.0
18556-Post-Tr-3	100	< 1.0	---

< means "less than"

a - calculated on a dry weight basis

Minimum Detection Limit = 1.0 ppm

Submitted by:

DAVY LABORATORIES

A handwritten signature in cursive script that reads "Paul A. Harris". The signature is written in black ink and is positioned above the printed name.

Paul A. Harris, Director

The laboratory analysis reported was determined in accordance with current methodology. The results are only representative of the samples received; conditions can be expected to vary at different times and under different sampling conditions.

Use Black Ink Only, Press Hard

PROJ. NO: **95036**
 PROJECT NAME: **SERIGRAPH**

SAMPLERS: (Signature)
Peter Spavalko

ATI Lab No. | Yr 91 | Date | Time | Sample Station ID

ATI Lab No.	Yr 91	Date	Time	Sample Station ID
		6/18	11:30am	PRETR-4 18553
		6/18	11:45am	"D" 18554
		6/18	1:00pm	"FC" 18555
		6/18	1:45pm	POSTTR-3 18556

Total Number of Containers	Filtered (Yes/No)	N
	Preserved (Code)	A
	Refrigerated (Yes/No)	Y
	Sample type (Grab/Composite)	G
Analysis	Sample sources (WW, GW, DW, other)	
	Preservation Code:	
	Comments:	HNU

Relinquished by: (Signature) <i>Peter Spavalko</i>	Date / Time 6/18/91 5:20pm	Received by: (Signature) <i>Greg Kowal</i>	Date / Time 10:00 6-20-91
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	

Report to: *P. Spavalko*

Name: _____
 Street: _____
 City: _____ State: _____ Zip: _____
 Phone no. () _____
 Fax no. () _____

Remarks: **24 HOUR TURN AROUND ON SAMPLES D, FC, AND POSTTR-3**

Receipt pH _____
 Receipt temp ONICE

DAVY LABORATORIES

115 South 6th Street
P.O. Box 2076
La Crosse WI 54602-2076
(608) 782-3130
FAX: (608) 784-6611



Division of Davy Engineering Co.

Aqua-Tech, Inc.
140 South Park Street
Port Washington, Wisconsin 53074

June 25, 1991
Client No. 10671
Project No. 95036

Attn: Mr. Peter Pavalko

INTRODUCTION:

Number of Samples Received: Three soil samples
Date Received: June 21, 1991
Analysis Requested: Three soil samples to be analyzed for Total Petroleum Hydrocarbons (TPH) as diesel and two of the samples to be analyzed for gasoline. All of the samples were to be analyzed for total solids.

SAMPLE IDENTIFICATION:

Date Collected: June 19, 1991
Collected By: Peter Pavalko of Aqua-Tech, Inc.
Collection Location: Project: 95036 - Serigraph
Date Delivered: June 21, 1991
Delivered By: Client

Upon the arrival at the laboratory, the samples were given the following identification numbers:

<u>Davy Lab Number</u>	<u>Sample Site</u>
18578	Pre-Tr-5
18579	Z
18580	Y

METHODOLOGY:

TPH ANALYSIS

The soil samples were analyzed according to the method outlined in the Leaking Underground Fuel Tank Manual published by the State of California. The Wisconsin Department of Natural Resources references this method for the analysis of Total Petroleum Hydrocarbons (TPH) either as Gasoline, Fuel Oil, or Diesel.

Each sample for the determination of TPH as Diesel was extracted three times with carbon disulfide. The extracts were then dried and concentrated to 1-ml with carbon disulfide. A portion of the sample was injected into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Fuel standards from the EPA are used to calibrate the system. A minimum of eight peak areas are used to quantitate the sample response. Total peak areas obtained were compared with known standards.

The soil samples were analyzed for TPH as Gasoline by extracting a portion of the sample with methanol. The sample was then purged for 11-minutes using helium as the carrier gas. Following the purge cycle, the sample was desorbed into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Peak areas obtained were then compared to the areas obtained from standard curves. Quantitation was based on the response of the parameter against concentration. A linear regression curve was used.

TOTAL SOLIDS

The samples were analyzed according to EPA Methodology. A portion of the sample was weighed out and dried to a constant weight.

DAVY LABORATORIES

115 South 6th Street
P.O. Box 2076
La Crosse WI 54602-2076
(608) 782-3130
FAX: (608) 784-6611



Division of Davy Engineering Co.

RESULTS:

The results of the analysis for Total Petroleum Hydrocarbons (TPH) and total solids is given below:

SAMPLE NO.	TOTAL SOLIDS(%)	TPH as DIESEL ppm(a)	TPH as GASOLINE ppm(a)
18578-PreTr-5	86.4	83.2	—
18579-Z	81.9	<1.0	<1.0
18580-Y	83.4	<1.0	<1.0

< means "less than"

a - calculated on a dry weight basis

Minimum Detection Limit = 1.0 ppm

Submitted by:

DAVY LABORATORIES

A handwritten signature in black ink, appearing to read "Paul A. Harris".

Paul A. Harris, Director

The laboratory analysis reported was determined in accordance with current methodology. The results are only representative of the samples received; conditions can be expected to vary at different times and under different sampling conditions.

Use Black Ink Only, Press Hard

PROJ. NO 95036	PROJECT NAME SERIGRAPH			Total Number of Containers	X X X					Filtered (Yes/No)					
SAMPLERS: (Signature) <i>Peter Pawalko</i>					% Solids TPH DIESEL TPH GASOLINE					Preserved (Code)					
ATI Lab No.	Yr 91 Date	Time	Sample Station ID							Analysis					Refrigerated (Yes/No)
															Sample type (Grab/Composite) Sample sources (WW, GW, DW, other) Preservation Code: A - None D - NaOH B - HNO3 E - HCL C - H ₂ SO4 F - _____
									Comments: (PI)						
18578	6/19	4:00pm	PRETR-5						1	X	X				PRETREATMENT 1200-1500 tons
18579	6/19	5:00pm	Z RUSH	1	X	X	X			WEST WALL 8' deep 25' N of 'A'	0				
18580	6/19	6:00pm	Y RUSH	1	X	X	X			NW corner wall 8' deep 25' N of 'Z'	0				
Relinquished by: (Signature) <i>Peter Pawalko</i>	Date / Time 6/19/91 6:45pm	Received by: (Signature)		Date / Time		Report to: P. Pawalko									
Relinquished by: (Signature)	Date / Time	Received by: (Signature)		Date / Time		Name _____									
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) <i>Comp Run</i>		Date / Time 6-21-91 11:00 AM		Street _____									
Remarks: RUN Z + Y on a 24 hour TURNAROUND				City _____ State _____ Zip _____											
				Phone no. () _____											
				Fax no. () _____											
				Receipt pH _____											
				Receipt temp _____											

DAVY LABORATORIES

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P.O. Box 2076
La Crosse WI 54602-2076
(608) 782-3130
FAX: (608) 784-6611



Division of Davy Engineering Co.

Aqua-Tech, Inc.
140 South Park Street
Port Washington, Wisconsin 53074

June 27, 1991
Client No. 10693
Project No. 95036

Attn: Mr. Peter Pavalko

INTRODUCTION:

Number of Samples Received: One soil sample
Date Received: June 26, 1991
Analysis Requested: Total Petroleum Hydrocarbons (TPH) as diesel and total solids.

SAMPLE IDENTIFICATION:

Date Collected: June 21, 1991
Collected By: Peter Pavalko of Aqua-Tech, Inc.
Collection Location: Project: 95036 - Serigraph
Date Delivered: June 26, 1991
Delivered By: Client

Upon the arrival at the laboratory, the sample was given the following identification number:

<u>Davy Lab Number</u>	<u>Sample Site</u>
18607	PosTr-4

METHODOLOGY:

TPH ANALYSIS

The soil sample was analyzed according to the method outlined in the Leaking Underground Fuel Tank Manual published by the State of California. The Wisconsin Department of Natural Resources references this method for the analysis of Total Petroleum Hydrocarbons (TPH) either as Gasoline, Fuel Oil, or Diesel.

The sample for the determination of TPH as Diesel was extracted three times with carbon disulfide. The extracts were then dried and concentrated to 1-ml with carbon disulfide. A portion of the sample was injected into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Fuel standards from the EPA are used to calibrate the system. A minimum of eight peak areas are used to quantitate the sample response. Total peak areas obtained were compared with known standards.

TOTAL SOLIDS

The sample was analyzed according to EPA Methodology. A portion of the sample was weighed out and dried to a constant weight.

DAVY LABORATORIES

115 South 6th Street
P.O. Box 2076
La Crosse WI 54602-2076
(608) 782-3130
FAX: (608) 784-6611



Division of Davy Engineering Co.

Aqua-Tech, Inc.
June 27, 1991
Page 2

RESULTS:

The result of the analysis for Total Petroleum Hydrocarbons (TPH) and total solids is given below:

<u>SAMPLE NO.</u>	<u>TOTAL SOLIDS(%)</u>	<u>TPH as DIESEL ppm(a)</u>
18607-PosTr-4	100	<1.0

< means "less than"

a - calculated on a dry weight basis

Minimum Detection Limit = 1.0 ppm

Submitted by:

DAVY LABORATORIES

A handwritten signature in black ink, appearing to read "Paul Harris", written over a horizontal line.

Paul A. Harris, Director

The laboratory analysis reported was determined in accordance with current methodology. The results are only representative of the samples received; conditions can be expected to vary at different times and under different sampling conditions.

Use Black Ink Only, Press Hard

PROJ. NO: **95036** PROJECT NAME: **SCRIGRAPH**

SAMPLERS: (Signature) *[Signature]*

ATI Lab No. Y91 Date 6/25 Time 8:45 Sample Station ID POSTTR-4

Total Number of Containers	Y		Filtered (Yes/No)
	Y		Preserved (Code)
	Y		Refrigerated (Yes/No)
	Y		Sample type (Grab/Composite)
	Y		Sample sources (WW, GW, DW, other)
Y		Analysis	Preservation Code: A - None D - NaOH B - HNO3 E - HCL C - H ₂ SO4 F - _____
Y		Comments:	
Y		<i>0% SOLIDS TPH DIESEL</i>	
Y		<i>1 X X 18607 Post Treatment Sample (900-1200+)</i>	

Relinquished by: (Signature) <i>[Signature]</i>	Date / Time <u>6/21/91 9:20 AM</u>	Received by: (Signature) <i>[Signature]</i>	Date / Time <u>6/26/91 10:00</u>
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) <i>[Signature]</i>	Date / Time

Report to: **PETE PAVALKO**

Name PETE PAVALKO

Street _____

City _____ State _____ Zip _____

Phone no. () _____

Fax no. () _____

Remarks: **NEED 24 HOUR TURNAROUND ON SAMPLE POSTTR-4**

Receipt pH 27C

Receipt temp _____

DAVY LABORATORIES

115 South 6th Street
P.O. Box 2076
La Crosse WI 54602-2076
(608) 782-3130
FAX: (608) 784-6611



Division of Davy Engineering Co.

Aqua-Tech, Inc.
140 South Park Street
Port Washington, Wisconsin 53074

June 27, 1991
Client No. 10694
Project No. 95036

Attn: Mr. Peter Pavalko

INTRODUCTION:

Number of Samples Received: One soil sample
Date Received: June 26, 1991
Analysis Requested: Total Petroleum Hydrocarbons (TPH) as diesel and total solids.

SAMPLE IDENTIFICATION:

Date Collected: June 22, 1991
Collected By: Peter Pavalko of Aqua-Tech, Inc.
Collection Location: Project: 95036 - Serigraph
Date Delivered: June 26, 1991
Delivered By: Client

Upon the arrival at the laboratory, the sample was given the following identification number:

Davy Lab Number

Sample Site

18608

PosTr-5

METHODOLOGY:

TPH ANALYSIS

The soil sample was analyzed according to the method outlined in the Leaking Underground Fuel Tank Manual published by the State of California. The Wisconsin Department of Natural Resources references this method for the analysis of Total Petroleum Hydrocarbons (TPH) either as Gasoline, Fuel Oil, or Diesel.

The sample for the determination of TPH as Diesel was extracted three times with carbons disulfide. The extracts were then dried and concentrated to 1-ml with carbon disulfide. A portion of the sample was injected into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Fuel standards from the EPA are used to calibrate the system. A minimum of eight peak areas are used to quantitate the sample response. Total peak areas obtained were compared with known standards.

TOTAL SOLIDS

The sample was analyzed according to EPA Methodology. A portion of the sample was weighed out and dried to a constant weight.

DAVY LABORATORIES

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FAX: (608) 784-6611



Division of Davy Engineering Co.

Aqua-Tech, Inc.
June 27, 1991
Page 2

RESULTS:

The result of the analysis for Total Petroleum Hydrocarbons (TPH) and total solids is given below:

<u>SAMPLE NO.</u>	<u>TOTAL SOLIDS(%)</u>	<u>TPH as DIESEL ppm(a)</u>
18608-PosTr-5	100	<1.0

< means "less than"
a - calculated on a dry weight basis
Minimum Detection Limit = 1.0 ppm

Submitted by:

DAVY LABORATORIES

A handwritten signature in cursive script, appearing to read "Paul A. Harris", written over a horizontal line.

Paul A. Harris, Director

The laboratory analysis reported was determined in accordance with current methodology. The results are only representative of the samples received; conditions can be expected to vary at different times and under different sampling conditions.

AQUA-TECH INC.

140 S. Park St. Port Washington, WI 53074

CHAIN OF CUSTODY RECORD

PAGE _____ OF _____

Use Black Ink Only, Press Hard

PROJ. NO 95036		PROJECT NAME SERTGRAPH					Total Number of Containers						Filtered (Yes/No)
SAMPLERS: (Signature) 								% SOLIDS TPH DIESEL					Preserved (Code)
													Refrigerated (Yes/No)
													Sample type (Grab/Composite)
													Sample sources (WW, GW, DW, other)
ATI Lab No.	Yr?/	Date	Time	Sample Station ID					Analysis	Preservation Code: A - None D - NaOH B - HNO3 E - HCL C - H ₂ SO4 F - _____			
		6/22	1:20pm	POST TR-5						Comments: Post-Treatment sample @ 1455 tons (1200-1500 tons) 435°F			
Relinquished by: (Signature) 		Date / Time 6/24/91 8:00am		Received by: (Signature)			Date / Time		Report to: Name P. Pavallo				
Relinquished by: (Signature)		Date / Time		Received by: (Signature)			Date / Time		Street _____ City _____ State _____ Zip _____				
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature) Paula Volzgen 6/24/91 11:00			Date / Time		Phone no. () _____ Fax no. () _____				
Remarks: 24 HOUR TURN AROUND								Receipt pH 26°C Receipt temp _____					

DAVY LABORATORIES

115 South 6th Street
P.O. Box 2076
La Crosse WI 54602-2076
(608) 782-3130
FAX: (608) 784-6611



Division of Davy Engineering Co.

Aqua-Tech, Inc.
140 South Park Street
Port Washington, Wisconsin 53074

June 27, 1991
Client No. 10696
Project No. 95036

Attn: Mr. Peter Pavalko

INTRODUCTION:

Number of Samples Received: Two soil samples
Date Received: June 26, 1991
Analysis Requested: Total Petroleum Hydrocarbons (TPH) as diesel and total solids.

SAMPLE IDENTIFICATION:

Date Collected: June 24, 1991
Collected By: Peter Pavalko of Aqua-Tech, Inc.
Collection Location: Project: 95036 - Serigraph
Date Delivered: June 26, 1991
Delivered By: Client

Upon the arrival at the laboratory, the samples were given the following identification numbers :

<u>Davy Lab Numbers</u>	<u>Sample Site</u>
18611	PreTr-6
18612	PosTr-6

METHODOLOGY:

TPH ANALYSIS

The soil samples were analyzed according to the method outlined in the Leaking Underground Fuel Tank Manual published by the State of California. The Wisconsin Department of Natural Resources references this method for the analysis of Total Petroleum Hydrocarbons (TPH) either as Gasoline, Fuel Oil, or Diesel.

The sample for the determination of TPH as Diesel was extracted three times with carbon disulfide. The extracts were then dried and concentrated to 1-ml with carbon disulfide. A portion of the samples were injected into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Fuel standards from the EPA are used to calibrate the system. A minimum of eight peak areas are used to quantitate the sample response. Total peak areas obtained were compared with known standards.

TOTAL SOLIDS

The samples were analyzed according to EPA Methodology. A portion of the samples were weighed out and dried to a constant weight.

DAVY LABORATORIES

115 South 6th Street
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La Crosse WI 54602-2076
(608) 782-3130
FAX: (608) 784-6611



Division of Davy Engineering Co.

Aqua-Tech, Inc.
June 27, 1991
Page 2

RESULTS:

The result of the analysis for Total Petroleum Hydrocarbons (TPH) and total solids is given below:

<u>SAMPLE NO.</u>	<u>TOTAL SOLIDS(%)</u>	<u>TPH as DIESEL ppm(a)</u>
18611-PreTr-6	87.7	28.8
18612-PcsTr-6	100	<1.0

< means "less than"
a - calculated on a dry weight basis
Minimum Detection Limit = 1.0 ppm

Submitted by:

DAVY LABORATORIES

A handwritten signature in black ink, appearing to read "Paul A. Harris", written over a horizontal line.

Paul A. Harris, Director

The laboratory analysis reported was determined in accordance with current methodology. The results are only representative of the samples received; conditions can be expected to vary at different times and under different sampling conditions.

Use Black Ink Only, Press Hard

PROJ. NO 95036		PROJECT NAME Seringa				Total Number of Containers	/								Filtered (Yes/No)					
SAMPLERS: (Signature) <i>[Signature]</i>							/								Preserved (Code)					
ATI Lab No.		Year	Date	Time	Sample Station ID		Flow						Analysis	Preservation Code: A - None D - NaOH B - HNO ₃ E - HCL C - H ₂ SO ₄ F - _____						
												Comments:								
			6/24/91	1:45	PRI TR-6		18611 20	1	X	X								PPE Treatment 1500-1800 tons		
			6/24/91	5:00	POST TR-6		18612	1	X	X							POST Treatment @ 1563.15 (1500-1800)			
Relinquished by: (Signature) <i>[Signature]</i>							Date / Time 6/24/91 6:00pm		Received by: (Signature)				Date / Time		Report to: <i>[Signature]</i>		Name _____			
Relinquished by: (Signature)							Date / Time		Received by: (Signature)				Date / Time		Street _____					
Relinquished by: (Signature)							Date / Time		Received for Laboratory by: (Signature) <i>Paula Dellman 6/26/91 10:00</i>								Phone no. () _____		City _____ State _____ Zip _____	
Fax no. () _____							Remarks: <i>POST TR-6 DN 24 HOUR TURNAROUNDS</i>						Receipt pH _____		<i>Received at Dawg or ice</i>					

DAVY LABORATORIES

115 South 6th Street
P.O. Box 2076
La Crosse, WI 54602-2076
(608) 782-3130



Division of Davy Engineering Co.

Aqua-Tech, Inc.
140 South Park Street
Port Washington, Wisconsin 53074

July 1, 1991
Client No. 10707
Project No. 95036

Attn: Mr. Peter Pavalko

INTRODUCTION:

Number of Samples Received: Four soil samples
Date Received: June 27, 1991
Analysis Requested: All of the soil samples to be analyzed for Total Petroleum Hydrocarbons (TPH) as diesel and two of the samples to be analyzed for gasoline. All of the samples were to be analyzed for total solids.

SAMPLE IDENTIFICATION:

Date Collected: June 25, 1991
Collected By: Peter Pavalko of Aqua-Tech, Inc.
Collection Location: Project: 95036 - Serigraph
Date Delivered: June 27, 1991
Delivered By: Client

Upon the arrival at the laboratory, the samples were given the following identification numbers:

<u>Davy Lab Number</u>	<u>Sample Site</u>
18651	X
18652	PreTr-7
18653	W
18654	PosTr-7

METHODOLOGY:

TPH ANALYSIS

The soil samples were analyzed according to the method outlined in the Leaking Underground Fuel Tank Manual published by the State of California. The Wisconsin Department of Natural Resources references this method for the analysis of Total Petroleum Hydrocarbons (TPH) either as Gasoline, Fuel Oil, or Diesel.

Each sample for the determination of TPH as Diesel was extracted three times with carbon disulfide. The extracts were then dried and concentrated to 1-ml with carbon disulfide. A portion of the sample was injected into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Fuel standards from the EPA are used to calibrate the system. A minimum of eight peak areas are used to quantitate the sample response. Total peak areas obtained were compared with known standards.

The soil samples were analyzed for TPH as Gasoline by extracting a portion of the sample with methanol. The sample was then purged for 11-minutes using helium as the carrier gas. Following the purge cycle, the sample was desorbed into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Peak areas obtained were then compared to the areas obtained from standard curves. Quantitation was based on the response of the parameter against concentration. A linear regression curve was used.

TOTAL SOLIDS

The samples were analyzed according to EPA Methodology. A portion of the sample was weighed out and dried to a constant weight.

DAVY LABORATORIES

115 South 6th Street
P.O. Box 2076
La Crosse, WI 54602-2076
(608) 782-3130



Division of Davy Engineering Co.

Aqua-Tech, Inc.
July 1, 1991
Page 2

RESULTS:

The results of the analysis for Total Petroleum Hydrocarbons (TPH) and total solids is given below:

<u>SAMPLE NO.</u>	<u>TOTAL SOLIDS(%)</u>	<u>TPH as DIESEL ppm(a)</u>	<u>TPH as GASOLINE ppm(a)</u>
18651-X	91.6	<1.0	<1.0
18652-PreTr-7	81.8	10.8	---
18653-W	84.0	<1.0	< 1.0
18654-PosTr-7	100	<1.0	---

< means "less than"

a - calculated on a dry weight basis

Minimum Detection Limit = 1.0 ppm

Submitted by:

DAVY LABORATORIES

A handwritten signature in black ink, appearing to read "Paul A. Harris".

Paul A. Harris, Director

The laboratory analysis reported was determined in accordance with current methodology. The results are only representative of the samples received; conditions can be expected to vary at different times and under different sampling conditions.

Use Black Ink Only, Press Hard

PROJ. NO 95036 PROJECT NAME Seignaph

SAMPLERS: (Signature) Peter P. Pawalk

ATI Lab No. Y971 Date 6/25 Time 1:45 Sample Station ID "X" HW11

18651 6/25 1:45 "X" 0

18652 6/25 3:00 "W" 18 PRE-TR-7

18653 6/25 3:30 "W" 0

18654 6/25 4:30 Post TR-7

Total Number of Containers	0.5 SOLIDS TPH DIESEL TPH GAS X Y A N										Filtered (Yes/No)	
											Preserved (Code)	
											Refrigerated (Yes/No)	
											Sample type (Grab/Composite)	
											Sample sources (WW, GW, DW, other)	
Analysis											Preservation Code: A - None D - NaOH B - HNO3 E - HCL C - H ₂ SO4 F - _____	
Comments:												
												<u>7' deep North wall - 25' east of "Y"</u>
												<u>PRE-TREATMENT 1800-2100 turn 1950 turn</u>
												<u>7' deep N. wall - 25' east of "X"</u>
												<u>Post Treatment collected at 1944 turn (1800-2100)</u>

Relinquished by: (Signature) Peter P. Pawalk Date / Time 6/25/91 5:30pm

Received by: (Signature) _____ Date / Time _____

Relinquished by: (Signature) _____ Date / Time _____

Received for Laboratory by: (Signature) Paula Volkmer Date / Time 6/27/91 10:00

Report to: P. Pawalk

Name _____

Street _____

City _____ State _____ Zip _____

Phone no. () _____

Fax no. () _____

Remarks: 24 Hour Turnaround on X, W, Post TR-7

Receipt pH _____

Receipt temp _____

Samples received
Warm

DAVY LABORATORIES

115 South 6th Street
P.O. Box 2076
La Crosse WI 54602-2076
(608) 782-3130
FAX: (608) 784-6611



Division of Davy Engineering Co.

Aqua-Tech, Inc.
140 South Park Street
Port Washington, Wisconsin 53074

July 1, 1991
Client No. 10718
Project No. 95036

Attn: Mr. Peter Pavalko

INTRODUCTION:

Number of Samples Received: Three soil samples
Date Received: June 28, 1991
Analysis Requested: Total Petroleum Hydrocarbons (TPH) as diesel, and total percent solids.

SAMPLE IDENTIFICATION:

Date Collected: June 26, 1991
Collected By: Peter Pavalko of Aqua-Tech, Inc.
Collection Location: Project: 95036 - Serigraph
Date Delivered: June 28, 1991
Delivered By: Client

Upon the arrival at the laboratory, the samples were given the following identification numbers:

<u>Davy Lab Number</u>	<u>Sample Site</u>
18689	PreTr-8
18690	PreTr-9
18691	PosTr-8

METHODOLOGY:

TPH ANALYSIS

The soil samples were analyzed according to the method outlined in the Leaking Underground Fuel Tank Manual published by the State of California. The Wisconsin Department of Natural Resources references this method for the analysis of Total Petroleum Hydrocarbons (TPH) either as Gasoline, Fuel Oil, or Diesel.

Each sample for the determination of diesel was extracted three times with carbon disulfide. The extracts were then dried and concentrated to 1-ml with carbon disulfide. A portion of the each sample was injected into a Perkin-Elmer Sigma 2B Gas Chromatograph equipped with a FID detector. Fuel standards from the EPA are used to calibrate the system. A minimum of eight peak areas are used to quantitate the sample response. Total peak areas obtained were compared with known standards.

TOTAL SOLIDS

The sample was analyzed according to EPA Methodology. A portion of the sample was weighed out and dried at 103-105°C.

RESULTS:

The results of the analysis for Total Petroleum Hydrocarbons (TPH) and total solids is given below:

<u>SAMPLE NO.</u>	<u>TOTAL SOLIDS(%)</u>	<u>TOTAL PETROLEUM HYDROCARBONS as DIESEL (ppm)_a</u>
18689-PreTr-8	88.4	199.0
18690-PreTr-9	94.2	4,830
18691-PosTr-8	100	<1.0

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FAX: (608) 784-6611



Division of Davy Engineering Co.

Aqua-Tech, Inc.
July 1, 1991
Page 2

< means "less than"
a - calculated on a dry weight basis
Minimum Detection Limit = 1.0 ppm

Submitted by:

DAVY LABORATORIES

A handwritten signature in black ink, appearing to read "Paul A. Harris", written over a horizontal line.

Paul A. Harris, Director

The laboratory analysis reported was determined in accordance with current methodology. The results are only representative of the samples received; conditions can be expected to vary at different times and under different sampling conditions.

Use Black Ink Only, Press Hard

PROJ. NO **95036** PROJECT NAME **SCRIGRAPH**

SAMPLERS: (Signature) *Peter Pawalko*

ATI Lab No. YMD Date Time Sample Station ID HNC =

Total Number of Containers	Analysis										Filtered (Yes/No)										
	/ Solids PH DIESEL										Preserved (Code)										
											Refrigerated (Yes/No)										
											Sample type (Grab/Composite)										
										Sample sources (WW, GW, DW, other)											
																				Preservation Code: A - None D - NaOH B - HNO3 E - HCL C - H2SO4 F - _____	
										Comments:											
											1	X	X								Pre-treatment 2100-2400 from
											1	X	X								1 2400-2700 from
											1	X	X								Post Treatment 2100-2400 575°F

Relinquished by: (Signature) <i>Peter Pawalko</i>	Date / Time 6/26/91 6:00pm	Received by: (Signature) _____	Date / Time _____
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) <i>Karla Volkmann</i>	Date / Time 6/28/91 10:00

Report to: *P. Pawalko*
 Name _____
 Street _____
 City _____ State _____ Zip _____
 Phone no. () _____
 Fax no. () _____

Remarks: *24 hour turnaround on POSTTR-8*

Receipt pH _____
 Receipt temp _____

DAVY LABORATORIES

115 South 6th Street
P.O. Box 2076
La Crosse, WI 54602-2076
(608) 782-3130



Division of Davy Engineering Co.

Aqua-Tech, Inc.
140 South Park Street
Port Washington, Wisconsin 53074

July 2, 1991
Client No. 10719
Project No. 95036

Attn: Mr. Peter Pavalko

INTRODUCTION:

Number of Samples Received: Five soil samples
Date Received: June 28, 1991
Analysis Requested: All of the soil samples to be analyzed for Total Petroleum Hydrocarbons (TPH) as diesel and three for gasoline. Additionally, all of the samples to be analyzed for Total Percent Solids.

SAMPLE IDENTIFICATION:

Date Collected: June 26, 1991
Collected By: Peter Pavalko of Aqua-Tech, Inc.
Collection Location: Project: 95036 - Serigraph
Date Delivered: June 28, 1991
Delivered By: Client

Upon the arrival at the laboratory, the samples were given the following identification numbers:

<u>Davy Lab Number</u>	<u>Sample Site</u>
18692	FD
18693	PreTr-10
18694	E
18695	V
18696	PostTr-Q

METHODOLOGY:

TPH ANALYSIS

The soil samples were analyzed according to the method outlined in the Leaking Underground Fuel Tank Manual published by the State of California. The Wisconsin Department of Natural Resources references this method for the analysis of Total Petroleum Hydrocarbons (TPH) either as Gasoline, Fuel Oil, or Diesel.

Each sample for the determination of Diesel was extracted three times with carbon disulfide. The extracts were then dried and concentrated to 1-ml with carbon disulfide. A portion of the each sample was injected into a Perkin-Elmer Sigma 2B Gas Chromatograph equipped with a FID detector. Fuel standards from the EPA are used to calibrate the system. A minimum of eight peak areas are used to quantitate the sample response. Total peak areas obtained were compared with known standards.

The soil samples were analyzed for TPH as Gasoline by extracting a portion of the sample with methanol. The sample was then purged for 11 minutes using helium as the carrier gas. Following the purge cycle, the sample was desorbed into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Peak areas obtained were then compared to the areas obtained from standard curves. Quantitation was based on the response of the parameter against concentration. A linear regression curve was used.

DAVY LABORATORIES

115 South 6th Street
P.O. Box 2076
La Crosse, WI 54602-2076
(608) 782-3130



Division of Davy Engineering Co.

TOTAL SOLIDS

The percent total solids were determined on each sample using current EPA Methodology. A portion of the sample was weighed and dried at 103 - 105°C.

RESULTS:

The results of the analysis for Total Petroleum Hydrocarbons (TPH) and total solids is given below.

<u>SAMPLE NO.</u>	<u>TPH as DIESEL (ppm)a</u>	<u>TPH as GASOLINE (ppm)a</u>	<u>TOTAL SOLIDS %</u>
18692-FD	<1.0	<1.0	83.0
18693-PreTr-10	1,720	—	84.6
18694-E	<1.0	<1.0	83.8
18695-V	<1.0	<1.0	88.4
18696-PosTr-9	26.3	—	100

< means "less than"
a - calculated on a dry weight basis
Minimum Detection Limit = 1.0 ppm

Submitted by:

DAVY LABORATORIES

A handwritten signature in cursive script, appearing to read "Paul A. Harris".

Paul A. Harris, Director

The laboratory analysis reported was determined in accordance with current methodology. The results are only representative of the samples received; conditions can be expected to vary at different times and under different sampling conditions.

PROJ. NO: **95036**
 PROJECT NAME: **SERIGRAPH**

SAMPLERS: (Signature) *Peter Pawelko*

ATI Lab No. | Yr. | Date | Time | Sample Station ID | HANU=

18692	6/26	11:30	FD	0
18693	6/26	1:15	PRETR-10	55
18694	6/26	2:00	E	0
18695	6/26	2:15	V	0
18696	6/26	2:30	POSTTR-9	N/A

Total Number of Containers	Y K Y 0% SOLIDS TPH GAS TPH DERIV										Filtered (Yes/No)
											Preserved (Code)
											Refrigerated (Yes/No)
											Sample type (Grab/Composite)
											Sample sources (WW, GW, DW, other)
											Analysis
Preservation Code: A - None D - NaOH B - HNO3 E - HCL C - H ₂ SO4 F - _____ Comments:											

Relinquished by: (Signature) <i>Peter Pawelko</i>	Date / Time: 6/26/01 3:05	Received by: (Signature)	Date / Time
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) <i>Paula Volkmann</i>	Date / Time: 6/28/01 10:00

Report to: *P. Pawelko*
 Name: _____
 Street: _____
 City: _____ State: _____ Zip: _____
 Phone no. () _____
 Fax no. () _____

Remarks: **FD, E, V, POSTTR-9 ON 24 HOUR TURNAROUND**

Receipt pH _____
 Receipt temp _____

DAVY LABORATORIES

115 South 6th Street
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La Crosse WI 54602-2076
(608) 782-3130
FAX: (608) 784-6611



Division of Davy Engineering Co.

Aqua-Tech, Inc.
140 South Park Street
Port Washington, Wisconsin 53074

July 5, 1991
Client No. 10725

Attn: Mr. Peter Pavalko

INTRODUCTION:

Number of Samples Received: Five soil samples
Date Received: July 2, 1991
Analysis Requested: Total Petroleum Hydrocarbons (TPH) as diesel and gasoline, plus all samples to be analyzed for total percent solids.

SAMPLE IDENTIFICATION:

Date Collected: July 1, 1991
Collected By: Peter Pavalko of Aqua Tech, Inc.
Collection Location: Serigraph - Project No. 95036
Date Delivered: July 2, 1991
Delivered By: Client

Upon the arrival at the laboratory, the samples were given the following identification numbers:

<u>Davy Lab Number</u>	<u>Sample Site</u>
18708	PostTr-11
18709	G
18710	F
18711	PosTr-9A
18712	PosTr-9B

METHODOLOGY:

The samples were analyzed according to the method outlined in the Leaking Underground Fuel Tank Manual published by the State of California. The Wisconsin Department of Natural Resources references this method for the analysis of Total Petroleum Hydrocarbons (TPH) either as Gasoline, Fuel Oil, or Diesel.

Each sample for the determination of diesel was extracted three times with carbon disulfide. The extracts were then dried and concentrated to 1-ml with carbon disulfide. A portion of the sample was injected into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Fuel standards from the EPA are used to calibrate the system. A minimum of eight peak areas are used to quantitate the sample response. Total peak areas obtained were compared with known standards.

The soil samples were analyzed for TPH as gasoline by extracting a portion of the sample with methanol. The sample was then purged for 11 minutes using helium as the carrier gas. Following the purge cycle, the sample was desorbed into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Peak areas obtained were then compared to the areas obtained from standard curves. Quantitation was based on the response of the parameter against concentration. A linear regression curve was used.

TOTAL SOLIDS ANALYSIS

The percent total solids were determined on each sample using current EPA Methodology. A portion of the sample was weighed and dried at 103 - 105°C.

DAVY LABORATORIES

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Division of Davy Engineering Co.

Aqua Tech, Inc.
July 5, 1991
Page 2

RESULTS:

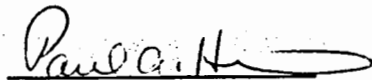
The results of the analysis for Total Petroleum Hydrocarbons (TPH) and total solids in the samples are given below:

SAMPLE NO.	SAMPLE SITE	TPH AS DIESEL (ppm) ^a	TPH AS GASOLINE(ppm) ^a	TOTAL SOLIDS (%)
18708	PosTr-11	2.9	—	100
18709	G	6,440	<1.0	94.2
18710	F	<1.0	<1.0	95.7
18711	PosTr-9A	23.0	—	90.4
18712	PosTr-9B	45.8	—	88.6

< means "less than"
a - calculated on a "dry weight basis"
Minimum Detection Limit = 1.0 ppm

Submitted by:

DAVY LABORATORIES


Paul A. Harris, Director

The laboratory analysis reported was determined in accordance with current methodology. The results are only representative of the samples received; conditions can be expected to vary at different times and under different sampling conditions.

PROJ. NO 95036 PROJECT NAME SERIGRAPH

SAMPLERS: (Signature) Peter Paulko

ATI Lab No. Yr 91 Date 7/1 Time 7:00 Sample Station ID HN4

Total Number of Containers	0 SOLIDS TPH GAS TPH DIESEL										Filtered (Yes/No)	
											Preserved (Code)	
											Refrigerated (Yes/No)	
											Sample type (Grab/Composite)	
											Sample sources (WW, GW, DW, other)	
											Preservation Code: A - None D - NaOH B - HNO3 E - HCL C - H ₂ SO4 F - _____	
Analysis												
Comments:												
												Post Treatment 3000-3300
												East wall 5" deep
												South wall 5" deep
												Collected from stockpile - 2400-2700
												to check for exceedance above 10ppm
												per results of PostTR-9

Relinquished by: (Signature) <u>Peter Paulko</u>	Date / Time <u>7-1-91 3:10pm</u>	Received by: (Signature) <u>Michael J. Kozlowski</u>	Date / Time <u>7/1/91 3:10</u>
Relinquished by: (Signature) <u>Michael J. Kozlowski</u>	Date / Time <u>7-1-91 3:30</u>	Received by: (Signature) _____	Date / Time _____
Relinquished by: (Signature) _____	Date / Time _____	Received for Laboratory by: (Signature) <u>Paula Walker</u>	Date / Time <u>7/2/91 10:30</u>

Report to: Name PETE PAULKO
 Street 140 S. Park St.
 City Port Washington State WI Zip 53074
 Phone no. (414) 284-5746
 Fax no. () _____

Remarks: 24 hour turnaround on All samples
GAUGE, OVERNITE

Receipt pH _____
 Receipt temp _____

DAVY LABORATORIES

115 South 6th Street
P.O. Box 2076
La Crosse WI 54602-2076
(608) 782-3130
FAX: (608) 784-6611



Division of Davy Engineering Co.

Aqua-Tech, Inc.
140 South Park Street
Port Washington, Wisconsin 53074

July 9, 1991
Client No. 10726
Project No. 95036

Attn: Mr. Peter Pavalko

INTRODUCTION:

Number of Samples Received: Eight soil samples
Date Received: July 2, 1991
Analysis Requested: Total Petroleum Hydrocarbons (TPH) as diesel and gasoline, plus all samples to be analyzed for total percent solids.

SAMPLE IDENTIFICATION:

Date Collected: June 28, 29, 1991
Collected By: Peter Pavalko of Aqua Tech, Inc.
Collection Location: Serigraph - Project No. 95036
Date Delivered: July 2, 1991
Delivered By: Client

Upon the arrival at the laboratory, the samples were given the following identification numbers:

<u>Davy Lab Number</u>	<u>Sample Site</u>
18713	U
18714	PreTr-11
18715	H
18716	PosTr-10
18717	I
18718	FE
18719	T
18720	J

METHODOLOGY:

The samples were analyzed according to the method outlined in the Leaking Underground Fuel Tank Manual published by the State of California. The Wisconsin Department of Natural Resources references this method for the analysis of Total Petroleum Hydrocarbons (TPH) either as Gasoline, Fuel Oil, or Diesel.

Each sample for the determination of diesel was extracted three times with carbon disulfide. The extracts were then dried and concentrated to 1-ml with carbon disulfide. A portion of the sample was injected into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Fuel standards from the EPA are used to calibrate the system. A minimum of eight peak areas are used to quantitate the sample response. Total peak areas obtained were compared with known standards.

The soil samples were analyzed for TPH as gasoline by extracting a portion of the sample with methanol. The sample was then purged for 11 minutes using helium as the carrier gas. Following the purge cycle, the sample was desorbed into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Peak areas obtained were then compared to the areas obtained from standard curves. Quantitation was based on the response of the parameter against concentration. A linear regression curve was used.

DAVY LABORATORIES

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FAX: (608) 784-6611



Division of Davy Engineering Co.

Aqua Tech, Inc.
July 9, 1991
Page 2

TOTAL SOLIDS ANALYSIS

The percent total solids were determined on each sample using current EPA Methodology. A portion of the sample was preweighed and dried for a given period of time. Following the drying cycle, the sample was reweighed and the percent solids calculated.

RESULTS:

The results of the analysis for Total Petroleum Hydrocarbons (TPH) and total solids in the samples are given below:

SAMPLE NO.	SAMPLE SITE	TPH AS DIESEL (ppm) ^a	TPH AS GASOLINE(ppm) ^a	TOTAL SOLIDS (%)
18713	U	<1.0	<1.0	84.2
18714	PreTr-11	19.2	—	93.8
18715	H	2.5	<1.0	90.2
18716	PosTr-10	<1.0	—	100
18717	I	<1.0	<1.0	90.0
18718	FE	<1.0	<1.0	79.6
18719	T	<1.0	<1.0	88.7
18720	J	<1.0	<1.0	91.8

< means "less than"
a - calculated on a "dry weight basis"
Minimum Detection Limit = 1.0 ppm

Submitted by:

DAVY LABORATORIES

Paul A. Harris, Director

The laboratory analysis reported was determined in accordance with current methodology. The results are only representative of the samples received; conditions can be expected to vary at different times and under different sampling conditions.

Use Black Ink Only, Press Hard

PROJ. NO
95036

PROJECT NAME
SERIGRAPH

SAMPLERS: (Signature)
Peter Pawalko

ATI Lab No.

Date Time

Sample Station ID

HMV:

	6/28	12:45	"U"	18713	0
	4/28	1:45p	PRETR-11	18714	12
	6/28	4:00p	"H"	18715	0
	6/29	8:30a	POSTTR-10	18716	-
	6/29	11:00a	"I"	18717	0.5
	6/29	12:30p	"FE"	18718	0
	6/29	1:15p	"T"	18719	0
	4/29	2:00p	"J"	18720	0

Total Number of Containers																			Filtered (Yes/No)
																			Preserved (Code)
																			Refrigerated (Yes/No)
																			Sample type (Grab/Composite)
																			Sample sources (WW, GW, DW, other)
																			Preservation Code:
																			A - None D - NaOH
																			B - HNO3 E - HCL
																			C - H2SO4 F -
																			Analysis
																			Comments:

% SOLIDS
TPH GAS
TPH DIESEL

Y Y Y

Relinquished by: (Signature) <i>Peter Pawalko</i>	Date / Time 6/29/91 3:00pm	Received by: (Signature)	Date / Time
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) <i>Paula Volkmann</i>	Date / Time 7/2/91 10:30

Report to: *P. Pawalko*

Name P. Pawalko

Street 140 S. Park St.

City Port Washington State WI Zip 53074

Phone no. (414) 284-5746

Fax no. (414) 284-0243

Remarks:
48 Hour TURNAROUND ON "U", "H", POSTTR-10, "I", "FE", "T", and "J"
Needed

Receipt pH _____

Receipt temp _____

DAVY LABORATORIES

115 South 6th Street
P.O. Box 2076
La Crosse WI 54602-2076
(608) 782-3130
FAX: (608) 784-6611



Division of Davy Engineering Co.

Aqua-Tech, Inc.
140 South Park Street
Port Washington, Wisconsin 53074

July 11, 1991
Client No. 10759
Project No. 95036

Attn: Mr. Randy Igel

INTRODUCTION:

Number of Samples Received:	Two soil samples
Date Received:	July 10, 1991
Analysis Requested:	Total Petroleum Hydrocarbons (TPH) as diesel, plus all samples to be analyzed for total percent solids.

SAMPLE IDENTIFICATION:

Date Collected:	July 9, 1991
Collected By:	Randy Igel of Aqua Tech, Inc.
Collection Location:	Serigraph - Project No. 95036

DAVY LAB NO.

18784
18785

SAMPLE SITE

PosTr-12
PosTr-9C

METHODOLOGY:

TPH AS DIESEL

The samples were analyzed according to the method outlined in the Leaking Underground Fuel Tank Manual published by the State of California. The Wisconsin Department of Natural Resources references this method for the analysis of Total Petroleum Hydrocarbons (TPH) either as Gasoline, Fuel Oil, or Diesel.

Each sample for the determination of diesel was extracted three times with carbon disulfide. The extracts were then dried and concentrated to 1-ml with carbon disulfide. A portion of the sample was injected into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Fuel standards from the EPA are used to calibrate the system. A minimum of eight peak areas are used to quantitate the sample response. Total peak areas obtained were compared with known standards.

TOTAL SOLIDS ANALYSIS

The percent total solids were determined on each sample using current EPA Methodology. A portion of the sample was preweighed and dried for a given period of time. Following the drying cycle, the sample was reweighed and the percent solids calculated.

DAVY LABORATORIES

115 South 6th Street
P.O. Box 2076
La Crosse WI 54602-2076
(608) 782-3130
FAX: (608) 784-6611



Division of Davy Engineering Co.

Aqua Tech, Inc. - Randy Igel
July 11, 1991 - Client No. 10759
Page 2

RESULTS:

The results of the analysis for Total Petroleum Hydrocarbons (TPH) and total solids in the samples are given below:

SAMPLE NO.	SAMPLE SITE	TPH AS DIESEL (ppm) ^a	TOTAL SOLIDS (%)
18784	PosTr-12	<1.0	100
18785	PosTr-9C	<1.0	100

< means "less than"
a - calculated on a "dry weight basis"
Minimum Detection Limit = 1.0 ppm

Submitted by:

DAVY LABORATORIES

A handwritten signature in cursive script that reads "Paul A. Harris".

Paul A. Harris, Director

The laboratory analysis reported was determined in accordance with current methodology. The results are only representative of the samples received; conditions can be expected to vary at different times and under different sampling conditions.

Use Black Ink Only, Press Hard

PROJ. NO 95036	PROJECT NAME Serignoph
--------------------------	----------------------------------

SAMPLERS: (Signature)
Randall & Bell

ATI Lab No.	Yr 91 Date Time	Sample Station ID
-------------	------------------------------	-------------------

18784	7/9 9:50	Post Tr - 12
18785	7/9 12:00	Post Tr - 9C

Total Number of Containers	N/N	Filtered (Yes/No)
	A/A	Preserved (Code)
	Y/Y	Refrigerated (Yes/No)
	G/G	Sample type (Grab/Composite)
	S/S	Sample sources (WW, GW, DW, other)
	% Solids	Preservation Code: A - None D - NaOH B - HNO3 E - HCL C - H ₂ SO4 F - _____
	TPH - Diesel	
		Analysis

1	X	X												3500-3300 Post treatment
1	X	X												2400-2700 Post treatment

Relinquished by: (Signature) Randall & Bell	Date / Time 7/9/91 2:30pm	Received by: (Signature) [Signature]	Date / Time
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) [Signature]	Date / Time 7-10-91 10:00 A.M.

Report to: **Randy Fygel**
Name: **ATI**
Street _____
City _____ State _____ Zip _____
Phone no. () _____
Fax no. () _____

Remarks:
24 hour Turn around

Receipt pH _____
Receipt temp _____

AQUA-TECH INC.

May 14, 1991

Pete Pavalko
Aqua-Tech, Inc.
140 S. Park Street
Port Washington, WI 53074

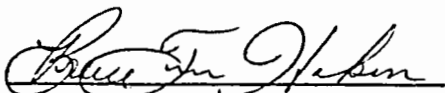
Sample Description: Serigraph, Inc.
WO #95036
Lab #W3622A
SB - 1

Date Collected: 2-1-91 Date Received: 2-4-91

<u>Parameter</u>	<u>Detect. Limit</u>	<u>Conc.</u>	<u>Units</u>	<u>Date Analyzed</u>
Total Solids	0.5	78.	%	2-5-91
TPH Gasoline	1.0	ND	ug/g	2-11-91
TPH Diesel	10.	ND	ug/g	2-22-91
TPH - Fuel Oil	*	*	*	

ND = Not Detected

* Under the conditions of analysis, diesel fuel cannot be separated from #2 Fuel Oil. All results were quantitated as diesel fuel.



Bruce Ten Haken
Laboratory Supervisor
Certification No. 246049430

AQUA-TECH INC.

May 14, 1991

Pete Pavalko
Aqua-Tech, Inc.
140 S. Park Street
Port Washington, WI 53074

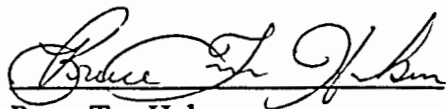
Sample Description: Serigraph, Inc.
WO #95036
Lab #W3622B
SB - 2

Date Collected: 2-1-91 Date Received: 2-4-91

<u>Parameter</u>	<u>Detect. Limit</u>	<u>Conc.</u>	<u>Units</u>	<u>Date Analyzed</u>
Total Solids	0.5	83.	%	2-5-91
TPH Gasoline	1.0	ND	ug/g	2-11-91
TPH Diesel	10.	ND	ug/g	2-22-91
TPH - Fuel Oil	*	*	*	

ND = Not Detected

* Under the conditions of analysis, diesel fuel cannot be separated from #2 Fuel Oil. All results were quantitated as diesel fuel.



Bruce Ten Haken
Laboratory Supervisor
Certification No. 246049430

AQUA-TECH INC.

May 14, 1991

Pete Pavalko
Aqua-Tech, Inc.
140 S. Park Street
Port Washington, WI 53074

Sample Description: Serigraph, Inc.
WO #95036
Lab #W3622C
SB - 3

Date Collected: 2-1-91 Date Received: 2-4-91

<u>Parameter</u>	<u>Detect. Limit</u>	<u>Conc.</u>	<u>Units</u>	<u>Date Analyzed</u>
Total Solids	0.5	94.	%	2-5-91
TPH Gasoline	1.0	30.	ug/g	2-11-91
TPH Diesel	10.	3170.	ug/g	2-22-91
TPH - Fuel Oil	*	*	*	

* Under the conditions of analysis, diesel fuel cannot be separated from #2 Fuel Oil. All results were quantitated as diesel fuel.



Bruce Ten Haken
Laboratory Supervisor
Certification No. 246049430

AQUA-TECH INC.

May 14, 1991

Pete Pavalko
Aqua-Tech, Inc.
140 S. Park Street
Port Washington, WI 53074

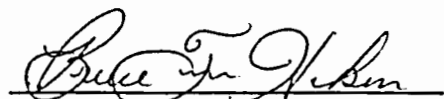
Sample Description: Serigraph, Inc., WO #95036
Lab #W3622D
SB - 4

Date Collected: 2-1-91 Date Received: 2-4-91

<u>Parameter</u>	<u>Detect. Limit</u>	<u>Conc.</u>	<u>Units</u>	<u>Date Analyzed</u>
Total Solids	0.5	84.	%	2-5-91
TPH Gasoline	1.0	198.	ug/g	2-11-91
TPH Diesel	10.	10770.	ug/g	2-22-91
TPH - Fuel Oil	*	*	*	
Benzene	0.40	ND	ug/g	2-16-91
Toluene	0.40	1.3	ug/g	2-16-91
Ethylbenzene	0.40	1.5	ug/g	2-16-91
Xylene	0.40	37.	ug/g	2-16-91

ND = Not Detected

* Under the conditions of analysis, diesel fuel cannot be separated from #2 Fuel Oil. All results were quantitated as diesel fuel.



Bruce Ten Haken
Laboratory Supervisor
Certification No. 246049430

AQUA-TECH^{INC.}

May 14, 1991

Pete Pavalko
Aqua-Tech, Inc.
140 S. Park Street
Port Washington, WI 53074

Sample Description: Serigraph, Inc.
WO #95036
Lab #W3622E
SB - 5

Date Collected: 2-1-91 Date Received: 2-4-91

<u>Parameter</u>	<u>Detect. Limit</u>	<u>Conc.</u>	<u>Units</u>	<u>Date Analyzed</u>
Total Solids	0.5	95.	%	2-5-91
TPH Gasoline	1.0	ND	ug/g	2-11-91
TPH Diesel	10.	14.	ug/g	2-22-91
TPH - Fuel Oil	*	*	*	

ND = Not Detected

* Under the conditions of analysis, diesel fuel cannot be separated from #2 Fuel Oil. All results were quantitated as diesel fuel.



Bruce Ten Haken
Laboratory Supervisor
Certification No. 246049430

AQUA-TECH^{INC.}

May 14, 1991

Pete Pavalko
Aqua-Tech, Inc.
140 S. Park Street
Port Washington, WI 53074

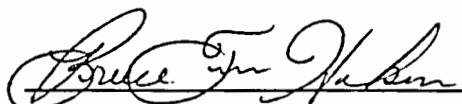
Sample Description: Serigraph, Inc.
WO #95036
Lab #W3622F
SB - 6

Date Collected: 2-1-91 Date Received: 2-4-91

<u>Parameter</u>	<u>Detect. Limit</u>	<u>Conc.</u>	<u>Units</u>	<u>Date Analyzed</u>
Total Solids	0.5	89.	%	2-5-91
TPH Gasoline	1.0	ND	ug/g	2-11-91
TPH Diesel	10.	ND	ug/g	2-22-91
TPH - Fuel Oil	*	*	*	

ND = Not Detected

* Under the conditions of analysis, diesel fuel cannot be separated from #2 Fuel Oil. All results were quantitated as diesel fuel.



Bruce Ten Haken
Laboratory Supervisor
Certification No. 246049430

AQUA-TECH^{INC.}

May 14, 1991

Pete Pavalko
Aqua-Tech, Inc.
140 S. Park Street
Port Washington, WI 53074

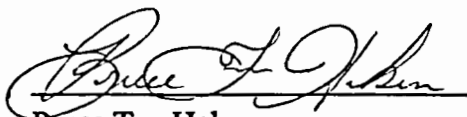
Sample Description: Serigraph, Inc.
WO #95036
Lab #W3622G
SB - 7

Date Collected: 2-1-91 Date Received: 2-4-91

<u>Parameter</u>	<u>Detect. Limit</u>	<u>Conc.</u>	<u>Units</u>	<u>Date Analyzed</u>
Total Solids	0.5	88.	%	2-5-91
TPH Gasoline	1.0	ND	ug/g	2-11-91
TPH Diesel	10.	ND	ug/g	2-22-91
TPH - Fuel Oil	*	*	*	

ND = Not Detected

* Under the conditions of analysis, diesel fuel cannot be separated from #2 Fuel Oil. All results were quantitated as diesel fuel.



Bruce Ten Haken
Laboratory Supervisor
Certification No. 246049430

AQUA-TECH^{INC.}

May 14, 1991

Pete Pavalko
Aqua-Tech, Inc.
140 S. Park Street
Port Washington, WI 53074

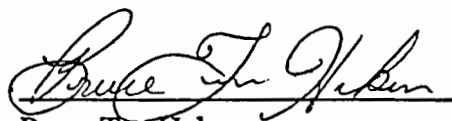
Sample Description: Serigraph, Inc.
WO #95036
Lab #W3622H
SB - 8

Date Collected: 2-1-91 Date Received: 2-4-91

<u>Parameter</u>	<u>Detect. Limit</u>	<u>Conc.</u>	<u>Units</u>	<u>Date Analyzed</u>
Total Solids	0.5	89.	%	2-5-91
TPH Gasoline	1.0	ND	ug/g	2-11-91
TPH Diesel	10.	ND	ug/g	2-22-91
TPH - Fuel Oil	*	*	*	

ND = Not Detected

* Under the conditions of analysis, diesel fuel cannot be separated from #2 Fuel Oil. All results were quantitated as diesel fuel.



Bruce Ten Haken
Laboratory Supervisor
Certification No. 246049430

AQUA-TECH^{INC.}

May 14, 1991

Pete Pavalko
Aqua-Tech, Inc.
140 S. Park Street
Port Washington, WI 53074

Sample Description: Serigraph, Inc.
WO #95036
Lab #W3622I
SB - 9

Date Collected: 2-1-91 Date Received: 2-4-91

<u>Parameter</u>	<u>Detect. Limit</u>	<u>Conc.</u>	<u>Units</u>	<u>Date Analyzed</u>
Total Solids	0.5	92.	%	2-5-91
TPH Gasoline	1.0	ND	ug/g	2-11-91
TPH Diesel	10.	ND	ug/g	2-22-91
TPH - Fuel Oil	*	*	*	

ND = Not Detected

* Under the conditions of analysis, diesel fuel cannot be separated from #2 Fuel Oil. All results were quantitated as diesel fuel.



Bruce Ten Haken
Laboratory Supervisor
Certification No. 246049430

**APPLICATION TO TREAT OR DISPOSE OF PETROLEUM CONTAMINATED SOIL
ASPHALT PLANT OR OTHER TYPE OF THERMAL TREATMENT UNIT**

Form 4400-121

5/10/91

This form is required by the Department of Natural Resources for leaking underground storage tank sites (Wis. Adm. Code NR 419). Failure to complete and submit this form may lead to violations of subchapters III and IV of ch. 144 Wis. Stats. and may result in forfeitures of not less than \$10 or more than \$25,000 for each violation, pursuant to ss. 144.426, 144.469, 144.74 (1), and 144.99, Wis. Stats., or fines of not less than \$100 or more than \$150,000 or imprisonment for not more than 10 years, or both, pursuant to s. 144.74 (2), Wis. Stats. Each day of a continuing violation constitutes a separate violation. Department approval of this form is required prior to site remediation, except for soils to be buried in landfills.

ALL SITES MUST COMPLETE PART I

Part I. Source of Soil

Site/Facility Name
SERIGRAPH, INC.

Site I.D. # (for DNR use only)

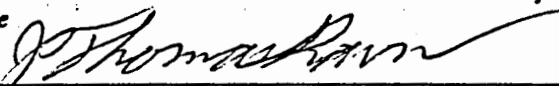
Site Address
760 INDIANA AVENUE

Contact Name
TOM RAVIN

City, State, Zip Code
WEST BEND, WI 53095

1/4, 1/4, Section, Township, and Range
SE SW 13 11N 19E

The information on this form is accurate to the best of my knowledge.

Signature 

Telephone Number (include area code)
414-335-7343

Consulting Firm
AQUA-TECH, INC.

Contact
PETER PAVALKO

Telephone Number
414-284-5746

Estimated Volume Contaminated Soil
4000 Tons/cubic yards (circle one)

Soil Type (USCS)
 sand (SP, SW)
 silty/clayey sands (SM, SC)
 silt (ML, MH, OL)
 clay (CL, CH, OH)
 gravel (GC, GM, GP, GW)
 peat (PT)

Type of Petroleum Contamination (Circle):

Gasoline Diesel Fuel/#2 Fuel Oil ?

Other MOSTLY DIESEL FUEL

Contaminant concentration:

One screened sample per 15 yds³ and one laboratory analysis per 300 yds³ of contaminated soil when the PID registers contamination OR one laboratory analysis per 100 yds³ when the PID does not register contamination on soil shown to be contaminated during the site investigation/excavation or stockpiling. PLEASE ATTACH A TABLE SHOWING THE RESULTS OF BOTH FIELD SCREENING AND ANALYSES, IN ADDITION TO PROVIDING THE FOLLOWING INFORMATION.

Total Benzene in soil to be remediated (attach calculations) 3.36 lbs

Total Petroleum Hydrocarbons in soil to be remediated (attach calculations) 41,311 lbs

Total TPH as DIESEL FUEL

ATTACH EMISSIONS CALCULATIONS

(a/1,000,000) x (2,800 lbs/yd³) x b = benzene emission in lbs., where
 a = benzene concentration of soil sample in ppm or mg/kg dry weight basis
 b = amount of contaminated soil in yds³

NOTE: This calculation can also be used to estimate TPH emissions by substituting TPH concentration (ppm or mg/kg) for "a." It may also be used to calculate VOCs. 3.91:1.2P

Part II: Proposed Treatment Facility

Name of Plant CLEAN SOILS THERMAL TREATMENT

Plant number and Model SRU-101

Contact DAVE KRESS

DNR Facility I.D. No. 999773720

AIR POLLUTION CONTROL PERMIT NO. 89-POY-06

Address 760 INDIANA AVENUE, WEST BEND, WI
(or location of portable plant)

Distance to Nearest Residence/Business 250 FEET

LEAVE BLANK - DEPARTMENT OF NATURAL RESOURCES USE ONLY

Application Concurrence:

Air Management Michael J. Griffin * Report March 1991 EA

Date May 10, 1991

Project Manager Jeffrey L. Luschka

Date MAY 10, 1991

Comments:

THIS SECTION TO BE COMPLETED BY THE ASPHALT/THERMAL UNIT PROCESSING THE CONTAMINATED SOIL
AFTER PROCESSING IS COMPLETED

Part III

WDNR Air Quality permit Number 89-POY-062

Actual Volume of Soil Treated (tons/cubic yards) 2,331.73

Date of transport to plant. —

Date of treatment 6-13-91 to 7-10-91

Transporter Name —

Transporter License Number

Circle One: Roasted and Incorporated

Roasted Only

Total Benzene emissions in pounds for this batch (apply 50% destruction factor if no after burner is used) 0.005223 lbs.

Benzene emissions to date for this plant (including this batch) for this calendar year 0.00 lbs

Signature of Treatment plant representative

Telephone Number at Plant

David H. Kress

612-639-8811

POST BURN SAMPLE RESULTS: COMPLETE ONLY FOR SOILS NOT INCORPORATED!

(One representative sample for each 100 cubic yards-not composites)

Sample Number _____

TPH _____

See Attached Reports

DNR APPROVAL IS REQUIRED BEFORE USING AS COMMON FILL

Date of backfilling or use as common fill

Location of fill site SE 1/4 SW 1/4 13S 11N T19E R

DIRECTIONS: 1) Complete parts I and II. 2) Submit the application to the DNR project manager for approval. 3) Have the treatment facility complete part III of the approved form after the soil has been treated. 4) Return the ORIGINAL form to the DNR project manager. 5) Keep a copy for your files.

Serigraph, 95036
May 3, 1991

BENZENE AND TPH CALCULATIONS

TOTAL BENZENE:

Benzene not detected at the 0.40 ug/g laboratory detection limit using 0.40 ug/g for calculation purposes.

$$\frac{0.40}{1,000,000} \times 2800 \text{ lbs / yd}^3 \times 3000 = 3.36$$

TOTAL TPH AS DIESEL:

Mean TPH in samples in which TPH was detected = 4,918 ppm

NOTE: Samples were collected from the most contaminated areas within the boring and are not representative of the materials as a whole.

$$\frac{4918}{1,000,000} \times 2800 \text{ lbs / yd}^3 \times 3000 = 41,311.20 \text{ lbs}$$

July 30, 1991

Mr. Jeffery Fischer
Lake Michigan District-DNR
1125 N. Military Avenue
Box 10448
Green Bay, WI 54307

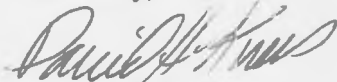
RE: Completed Thermal Treatment Application, Serigraph, Inc., West Bend, WI

Dear Mr. Fischer:

Enclosed please find the completed application for treatment of petroleum contaminated soil at Serigraph, Inc., West Bend, Wisconsin. The application includes the post-treatment laboratory results and emission calculations. Aqua-Tech Inc. was the environmental consultant and CleanSoils was the thermal treatment contractor for the projects

If you have any questions on this information, please contact me at (612)639 8811.

Sincerely,



David H. Kress
Project Manager

pc: File 91.032

TOTAL BENZENE EMISSION CALCULATION
SERIGRAPH PROJECT
WEST BEND, WI
CLEANSOILS PROJECT #91.032

$$\frac{0.4}{1,000,000} \times 2,800\text{lbs./yd}^3 \times 2,331.73\text{yd}^3 \times 0.002 = 0.005223\text{lbs.}$$

2,331.73yd³ remediated

0.002 = 99.8% efficient afterburner

DAVY LABORATORIES

115 South 6th Street
P.O. Box 2076
La Crosse, WI 54602-2076
(608) 782-3130



Division of Davy Engineering Co.

Aqua-Tech, Inc.
140 South Park Street
Port Washington, Wisconsin 53074

June 19, 1991
Client No. 10645
Project No. 95036

Attn: Mr. Peter Pavalko

INTRODUCTION:

Number of Samples Received: Six soil samples
Date Received: June 18, 1991
Analysis Requested: Three soil samples to be analyzed for Total Petroleum Hydrocarbons (TPH) as gasoline and diesel and the other three of the samples as diesel. All the soil samples to be analyzed for total solids.

SAMPLE IDENTIFICATION:

Date Collected: June 13 and 14, 1991
Collected By: Peter Pavalko of Aqua-Tech, Inc.
Collection Location: Project: 95036 - Serigraph
Date Delivered: June 18, 1991
Delivered By: Client

Upon the arrival at the laboratory, the samples were given the following identification numbers:

<u>Davy Lab Number</u>	<u>Sample Site</u>
18521	A
18522	FA
18523	B
18524	Pre-Tr-1
18525	Pre-Tr-2
18526	Pos-Tr-1

METHODOLOGY:

TPH ANALYSIS

The soil samples were analyzed according to the method outlined in the Leaking Underground Fuel Tank Manual published by the State of California. The Wisconsin Department of Natural Resources references this method for the analysis of Total Petroleum Hydrocarbons (TPH) either as Gasoline, Fuel Oil, or Diesel.

Each sample for the determination of TPH as Diesel was extracted three times with carbon disulfide. The extracts were then dried and concentrated to 1-ml with carbon disulfide. A portion of the sample was injected into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Fuel standards from the EPA are used to calibrate the system. A minimum of eight peak areas are used to quantitate the sample response. Total peak areas obtained were compared with known standards.

The soil samples were analyzed for TPH as Gasoline by extracting a portion of the sample with methanol. The sample was then purged for 11-minutes using helium as the carrier gas. Following the purge cycle, the sample was desorbed into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Peak areas obtained were then compared to the areas obtained from standard curves. Quantitation was based on the response of the parameter against concentration. A linear regression curve was used.

TOTAL SOLIDS

The sample was analyzed according to EPA Methodology. A portion of the sample was weighed out and dried to a constant weight.

DAVY LABORATORIES

115 South 6th Street
P.O. Box 2076
La Crosse, WI 54602-2076
(608) 782-3130



Division of Davy Engineering Co.

RESULTS:

The results of the analysis for Total Petroleum Hydrocarbons (TPH) and total solids is given below:

SAMPLE NO.	TOTAL SOLIDS(%)	TPH as DIESEL ppm(a)	TPH as GASOLINE ppm(a)
18521-A	85.3	<1.0	<1.0
18522-FA	78.0	<1.0	<1.0
18523-B	83.3	<1.0	<1.0
18524-PreTr-1	88.5	1,330	---
18525-PreTr-2	86.4	5.84	---
18526-PosTr-1	97.6	<1.0	---

< means "less than"

a - calculated on a dry weight basis

Minimum Detection Limit = 1.0 ppm

Submitted by:

DAVY LABORATORIES

A handwritten signature in cursive script, appearing to read "Paul A. Harris".

Paul A. Harris, Director

The laboratory analysis reported was determined in accordance with current methodology. The results are only representative of the samples received; conditions can be expected to vary at different times and under different sampling conditions.

DAVY LABORATORIES

115 South 6th Street
P.O. Box 2078
La Crosse, WI 54602-2078
(608) 782-3130



Division of Davy Engineering Co.

Aqua-Tech, Inc.
140 South Park Street
Port Washington, Wisconsin 53074

June 19, 1991
Client No. 10644
Project No. 95036

Attn: Mr. Peter Pavalko

INTRODUCTION:

Number of Samples Received: One soil samples
Date Received: June 18, 1991
Analysis Requested: Total Petroleum Hydrocarbons (TPH) as diesel and for total solids.

SAMPLE IDENTIFICATION:

Date Collected: June 17, 1991
Collected By: Peter Pavalko of Aqua-Tech, Inc.
Collection Location: Project: 95036 - Serigraph
Date Delivered: June 18, 1991
Delivered By: Client

Upon the arrival at the laboratory, the sample was given the following identification number:

<u>Davy Lab Number</u>	<u>Sample Site</u>
19520	Pos-Tr-2

METHODOLOGY:

TPH ANALYSIS

The soil sample was analyzed according to the method outlined in the Leaking Underground Fuel Tank Manual published by the State of California. The Wisconsin Department of Natural Resources references this method for the analysis of Total Petroleum Hydrocarbons (TPH) either as Gasoline, Fuel Oil, or Diesel.

The sample for the determination of TPH as Diesel was extracted three times with carbon disulfide. The extracts were then dried and concentrated to 1-ml with carbon disulfide. A portion of the sample was injected into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Fuel standards from the EPA are used to calibrate the system. A minimum of eight peak areas are used to quantitate the sample response. Total peak areas obtained were compared with known standards.

TOTAL SOLIDS

The sample was analyzed according to EPA Methodology. A portion of the sample was weighed out and dried to a constant weight.

DAVY LABORATORIES

115 South 6th Street
P.O. Box 2078
La Crosse, WI 54602-2076
(608) 782-3130



Division of Davy Engineering Co.

Aqua-Tech, Inc.
140 South Park Street
Port Washington, Wisconsin 53074

June 21, 1991
Client No. 10651
Project No. 95036

Attn: Mr. Peter Pavalko

INTRODUCTION:

Number of Samples Received: Four soil samples
Date Received: June 20, 1991
Analysis Requested: All soil samples to be analyzed for Total Petroleum Hydrocarbons (TPH) as diesel and two of the samples to be analyzed for gasoline. All of the samples were to be analyzed for total solids.

SAMPLE IDENTIFICATION:

Date Collected: June 18, 1991
Collected By: Peter Pavalko of Aqua-Tech, Inc.
Collection Location: Project: 95036 - Scrigraph
Date Delivered: June 20, 1991
Delivered By: Client

Upon the arrival at the laboratory, the samples were given the following identification numbers:

<u>Davy Lab Number</u>	<u>Sample Site</u>
18553	PreTr-4
18554	D
18555	FC
18556	PosTr-3

METHODOLOGY:

TPH ANALYSIS

The soil samples were analyzed according to the method outlined in the Leaking Underground Fuel Tank Manual published by the State of California. The Wisconsin Department of Natural Resources references this method for the analysis of Total Petroleum Hydrocarbons (TPH) either as Gasoline, Fuel Oil, or Diesel.

Each sample for the determination of TPH as Diesel was extracted three times with carbons disulfide. The extracts were then dried and concentrated to 1-ml with carbon disulfide. A portion of the sample was injected into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Fuel standards from the EPA are used to calibrate the system. A minimum of eight peak areas are used to quantitate the sample response. Total peak areas obtained were compared with known standards.

The soil samples were analyzed for TPH as Gasoline by extracting a portion of the sample with methanol. The sample was then purged for 11-minutes using helium as the carrier gas. Following the purge cycle, the sample was desorbed into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Peak areas obtained were then compared to the areas obtained from standard curves. Quantitation was based on the response of the parameter against concentration. A linear regression curve was used.

TOTAL SOLIDS

The samples were analyzed according to EPA Methodology. A portion of the sample was weighed out and dried to a constant weight.

DAVY LABORATORIES

115 South 6th Street
P.O. Box 2078
La Crosse, WI 54602-2078
(608) 782-3130



Division of Davy Engineering Co.

RESULTS:

The results of the analysis for Total Petroleum Hydrocarbons (TPH) and total solids is given below:

SAMPLE NO.	TOTAL SOLIDS(%)	TPH as DIESEL ppm(a)
18520-PosTr-2	85.3	<1.0

< means "less than"
a - calculated on a dry weight basis
Minimum Detection Limit = 1.0 ppm

Submitted by:

DAVY LABORATORIES

A handwritten signature in black ink, appearing to read "Paul A. Harris", written over a horizontal line.

Paul A. Harris, Director

The laboratory analysis reported was determined in accordance with current methodology. The results are only representative of the samples received; conditions can be expected to vary at different times and under different sampling conditions.

DAVY LABORATORIES

115 South 6th Street
P.O. Box 2076
La Crosse, WI 54602-2076
(608) 782-3130



Division of Davy Engineering Co.

RESULTS:

The results of the analysis for Total Petroleum Hydrocarbons (TPH) and total solids is given below:

SAMPLE NO.	TOTAL SOLIDS(%)	TPH as DIESEL ppm(a)	TPH as GASOLINE ppm(a)
18553-PreTr-4	83.9	165	—
18554-D	80.9	< 1.0	< 1.0
18555-FC	84.5	< 1.0	< 1.0
18556-Post-Tr-3	100	< 1.0	—

< means "less than"

a - calculated on a dry weight basis

Minimum Detection Limit = 1.0 ppm

Submitted by:

DAVY LABORATORIES

A handwritten signature in cursive script that reads "Paul A. Harris".

Paul A. Harris, Director

The laboratory analysis reported was determined in accordance with current methodology. The results are only representative of the samples received; conditions can be expected to vary at different times and under different sampling conditions.

DAVY LABORATORIES

115 South 6th Street
P.O. Box 2076
La Crosse WI 54602-2076
(608) 782-3130
FAX: (608) 784-6611



Division of Davy Engineering Co.

Aqua-Tech, Inc.
140 South Park Street
Port Washington, Wisconsin 53074

June 27, 1991
Client No. 10693
Project No. 95036

Attn: Mr. Peter Pavalko

INTRODUCTION:

Number of Samples Received: One soil sample
Date Received: June 26, 1991
Analysis Requested: Total Petroleum Hydrocarbons (TPH) as diesel and total solids.

SAMPLE IDENTIFICATION:

Date Collected: June 21, 1991
Collected By: Peter Pavalko of Aqua-Tech, Inc.
Collection Location: Project: 95036 - Serigraph
Date Delivered: June 26, 1991
Delivered By: Client

Upon the arrival at the laboratory, the sample was given the following identification number:

<u>Davy Lab Number</u>	<u>Sample Site</u>
18607	PosTr-4

METHODOLOGY:

TPH ANALYSIS

The soil sample was analyzed according to the method outlined in the Leaking Underground Fuel Tank Manual published by the State of California. The Wisconsin Department of Natural Resources references this method for the analysis of Total Petroleum Hydrocarbons (TPH) either as Gasoline, Fuel Oil, or Diesel.

The sample for the determination of TPH as Diesel was extracted three times with carbon disulfide. The extracts were then dried and concentrated to 1-ml with carbon disulfide. A portion of the sample was injected into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Fuel standards from the EPA are used to calibrate the system. A minimum of eight peak areas are used to quantitate the sample response. Total peak areas obtained were compared with known standards.

TOTAL SOLIDS

The sample was analyzed according to EPA Methodology. A portion of the sample was weighed out and dried to a constant weight.

DAVY LABORATORIES

115 South 6th Street
P.O. Box 2076
La Crosse WI 54602-2076
(608) 782-3130
FAX: (608) 784-6611



Division of Davy Engineering Co.

Aqua-Tech, Inc.
June 27, 1991
Page 2

RESULTS:

The result of the analysis for Total Petroleum Hydrocarbons (TPH) and total solids is given below:

SAMPLE NO.	TOTAL SOLIDS(%)	TPH as DIESEL ppm(a)
18607-PosTr-4	100	<1.0

< means "less than"
a - calculated on a dry weight basis
Minimum Detection Limit = 1.0 ppm

Submitted by:

DAVY LABORATORIES

A handwritten signature in black ink, appearing to read "Paul A. Harris", written over a horizontal line.

Paul A. Harris, Director

The laboratory analysis reported was determined in accordance with current methodology. The results are only representative of the samples received; conditions can be expected to vary at different times and under different sampling conditions.

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Division of Davy Engineering Co.

Aqua-Tech, Inc.
140 South Park Street
Port Washington, Wisconsin 53074

June 27, 1991
Client No. 10694
Project No. 95036

Attn: Mr. Peter Pavalko

INTRODUCTION:

Number of Samples Received: One soil sample
Date Received: June 26, 1991
Analysis Requested: Total Petroleum Hydrocarbons (TPH) as diesel and total solids.

SAMPLE IDENTIFICATION:

Date Collected: June 22, 1991
Collected By: Peter Pavalko of Aqua-Tech, Inc.
Collection Location: Project: 95036 - Serigraph
Date Delivered: June 26, 1991
Delivered By: Client

Upon the arrival at the laboratory, the sample was given the following identification number:

<u>Davy Lab Number</u>	<u>Sample Site</u>
18608	PosTr-5

METHODOLOGY:

TPH ANALYSIS

The soil sample was analyzed according to the method outlined in the Leaking Underground Fuel Tank Manual published by the State of California. The Wisconsin Department of Natural Resources references this method for the analysis of Total Petroleum Hydrocarbons (TPH) either as Gasoline, Fuel Oil, or Diesel.

The sample for the determination of TPH as Diesel was extracted three times with carbons disulfide. The extracts were then dried and concentrated to 1-ml with carbon disulfide. A portion of the sample was injected into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Fuel standards from the EPA are used to calibrate the system. A minimum of eight peak areas are used to quantitate the sample response. Total peak areas obtained were compared with known standards.

TOTAL SOLIDS

The sample was analyzed according to EPA Methodology. A portion of the sample was weighed out and dried to a constant weight.

DAVY LABORATORIES

115 South 6th Street
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FAX: (608) 784-6611



Division of Davy Engineering Co.

Aqua-Tech, Inc.
June 27, 1991
Page 2

RESULTS:

The result of the analysis for Total Petroleum Hydrocarbons (TPH) and total solids is given below:

<u>SAMPLE NO.</u>	<u>TOTAL SOLIDS(%)</u>	<u>TPH as DIESEL ppm(a)</u>
18608-PosTr-5	100	<1.0

< means "less than"
a - calculated on a dry weight basis
Minimum Detection Limit = 1.0 ppm

Submitted by:

DAVY LABORATORIES

A handwritten signature in cursive script, appearing to read "Paul A. Harris", written over a horizontal line.

Paul A. Harris, Director

The laboratory analysis reported was determined in accordance with current methodology. The results are only representative of the samples received; conditions can be expected to vary at different times and under different sampling conditions.

DAVY LABORATORIES

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La Crosse WI 54602-2076
(608) 782-3130
FAX: (608) 784-6611



Aqua-Tech, Inc.
140 South Park Street
Port Washington, Wisconsin 53074

June 27, 1991
Client No. 10696
Project No. 95036

Attn: Mr. Peter Pavalko

INTRODUCTION:

Number of Samples Received: Two soil samples
Date Received: June 26, 1991
Analysis Requested: Total Petroleum Hydrocarbons (TPH) as diesel and total solids.

SAMPLE IDENTIFICATION:

Date Collected: June 24, 1991
Collected By: Peter Pavalko of Aqua-Tech, Inc.
Collection Location: Project: 95036 - Serigraph
Date Delivered: June 26, 1991
Delivered By: Client

Upon the arrival at the laboratory, the samples were given the following identification numbers :

<u>Davy Lab Numbers</u>	<u>Sample Site</u>
18611	PreTr-6
18612	PosTr-6

METHODOLOGY:

TPH ANALYSIS

The soil samples were analyzed according to the method outlined in the Leaking Underground Fuel Tank Manual published by the State of California. The Wisconsin Department of Natural Resources references this method for the analysis of Total Petroleum Hydrocarbons (TPH) either as Gasoline, Fuel Oil, or Diesel.

The sample for the determination of TPH as Diesel was extracted three times with carbon disulfide. The extracts were then dried and concentrated to 1-ml with carbon disulfide. A portion of the samples were injected into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Fuel standards from the EPA are used to calibrate the system. A minimum of eight peak areas are used to quantitate the sample response. Total peak areas obtained were compared with known standards.

TOTAL SOLIDS

The samples were analyzed according to EPA Methodology. A portion of the samples were weighed out and dried to a constant weight.

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Aqua-Tech, Inc.
June 27, 1991
Page 2

RESULTS:

The result of the analysis for Total Petroleum Hydrocarbons (TPH) and total solids is given below:

SAMPLE NO.	TOTAL SOLIDS(%)	TPH as DIESEL ppm(a)
18611-PreTr-6	87.7	28.8
18612-PosTr-6	100	<1.0

< means "less than"
a - calculated on a dry weight basis
Minimum Detection Limit = 1.0 ppm

Submitted by:

DAVY LABORATORIES

Paul A. Harris, Director

The laboratory analysis reported was determined in accordance with current methodology. The results are only representative of the samples received; conditions can be expected to vary at different times and under different sampling conditions.

DAVY LABORATORIES

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Division of Davy Engineering Co.

Aqua-Tech, Inc.
140 South Park Street
Port Washington, Wisconsin 53074

July 1, 1991
Client No. 10707
Project No. 95036

Attn: Mr. Peter Pavalko

INTRODUCTION:

Number of Samples Received: Four soil samples
Date Received: June 27, 1991
Analysis Requested: All of the soil samples to be analyzed for Total Petroleum Hydrocarbons (TPH) as diesel and two of the samples to be analyzed for gasoline. All of the samples were to be analyzed for total solids.

SAMPLE IDENTIFICATION:

Date Collected: June 25, 1991
Collected By: Peter Pavalko of Aqua-Tech, Inc.
Collection Location: Project: 95036 - Scrigraph
Date Delivered: June 27, 1991
Delivered By: Client

Upon the arrival at the laboratory, the samples were given the following identification numbers:

<u>Davy Lab Number</u>	<u>Sample Site</u>
18651	X
18652	PreTr-7
18653	W
18654	PosTr-7

METHODOLOGY:

TPH ANALYSIS

The soil samples were analyzed according to the method outlined in the Leaking Underground Fuel Tank Manual published by the State of California. The Wisconsin Department of Natural Resources references this method for the analysis of Total Petroleum Hydrocarbons (TPH) either as Gasoline, Fuel Oil, or Diesel.

Each sample for the determination of TPH as Diesel was extracted three times with carbon disulfide. The extracts were then dried and concentrated to 1-ml with carbon disulfide. A portion of the sample was injected into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Fuel standards from the EPA are used to calibrate the system. A minimum of eight peak areas are used to quantitate the sample response. Total peak areas obtained were compared with known standards.

The soil samples were analyzed for TPH as Gasoline by extracting a portion of the sample with methanol. The sample was then purged for 11-minutes using helium as the carrier gas. Following the purge cycle, the sample was desorbed into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Peak areas obtained were then compared to the areas obtained from standard curves. Quantitation was based on the response of the parameter against concentration. A linear regression curve was used.

TOTAL SOLIDS

The samples were analyzed according to EPA Methodology. A portion of the sample was weighed out and dried to a constant weight.

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Division of Davy Engineering Co.

Aqua-Tech, Inc.
July 1, 1991
Page 2

RESULTS:

The results of the analysis for Total Petroleum Hydrocarbons (TPH) and total solids is given below:

SAMPLE NO.	TOTAL SOLIDS(%)	TPH as DIESEL ppm(a)	TPH as GASOLINE ppm(a)
18651-X	91.6	<1.0	<1.0
18652-PfcTr-7	81.8	10.8	-----
18653-W	84.0	<1.0	< 1.0
18654-PosTr-7	100	<1.0	----

< means "less than"

a - calculated on a dry weight basis

Minimum Detection Limit = 1.0 ppm

Submitted by:

DAVY LABORATORIES

A handwritten signature in black ink, appearing to read "Paul A. Harris", written over the printed name.

Paul A. Harris, Director

The laboratory analysis reported was determined in accordance with current methodology. The results are only representative of the samples received; conditions can be expected to vary at different times and under different sampling conditions.

DAVY LABORATORIES

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Division of Davy Engineering Co.

Aqua-Tech, Inc.
140 South Park Street
Port Washington, Wisconsin 53074

July 1, 1991
Client No. 10718
Project No. 95036

Attn: Mr. Peter Pavalko

INTRODUCTION:

Number of Samples Received: Three soil samples
Date Received: June 28, 1991
Analysis Requested: Total Petroleum Hydrocarbons (TPH) as diesel, and total percent solids.

SAMPLE IDENTIFICATION:

Date Collected: June 26, 1991
Collected By: Peter Pavalko of Aqua-Tech, Inc.
Collection Location: Project: 95036 - Serigraph
Date Delivered: June 28, 1991
Delivered By: Client

Upon the arrival at the laboratory, the samples were given the following identification numbers:

<u>Davy Lab Number</u>	<u>Sample Site</u>
18689	PreTr-8
18690	PreTr-9
18691	PosTr-8

METHODOLOGY:

TPH ANALYSIS

The soil samples were analyzed according to the method outlined in the Leaking Underground Fuel Tank Manual published by the State of California. The Wisconsin Department of Natural Resources references this method for the analysis of Total Petroleum Hydrocarbons (TPH) either as Gasoline, Fuel Oil, or Diesel.

Each sample for the determination of diesel was extracted three times with carbon disulfide. The extracts were then dried and concentrated to 1-ml with carbon disulfide. A portion of the each sample was injected into a Perkin-Elmer Sigma 2B Gas Chromatograph equipped with a FID detector. Fuel standards from the EPA are used to calibrate the system. A minimum of eight peak areas are used to quantitate the sample response. Total peak areas obtained were compared with known standards.

TOTAL SOLIDS

The sample was analyzed according to EPA Methodology. A portion of the sample was weighed out and dried at 103-105°C.

RESULTS:

The results of the analysis for Total Petroleum Hydrocarbons (TPH) and total solids is given below:

<u>SAMPLE NO.</u>	<u>TOTAL SOLIDS(%)</u>	<u>TOTAL PETROLEUM HYDROCARBONS as DIESEL (ppm)a</u>
18689-PreTr-8	88.4	199.0
18690-PreTr-9	94.2	4,830
18691-PosTr-8	100	<1.0

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Division of Davy Engineering Co.

Aqua-Tech, Inc.
July 1, 1991
Page 2

< means "less than"
a - calculated on a dry weight basis
Minimum Detection Limit = 1.0 ppm

Submitted by:

DAVY LABORATORIES

A handwritten signature in cursive script, appearing to read "Paul A. Harris", written over a horizontal line.

Paul A. Harris, Director

The laboratory analysis reported was determined in accordance with current methodology. The results are only representative of the samples received; conditions can be expected to vary at different times and under different sampling conditions.

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Division of Davy Engineering Co.

Aqua-Tech, Inc.
140 South Park Street
Port Washington, Wisconsin 53074

July 2, 1991
Client No. 10719
Project No. 95036

Attn: Mr. Peter Pavalko

INTRODUCTION:

Number of Samples Received: Five soil samples
Date Received: June 28, 1991
Analysis Requested: All of the soil samples to be analyzed for Total Petroleum Hydrocarbons (TPH) as diesel and three for gasoline. Additionally, all of the samples to be analyzed for Total Percent Solids.

SAMPLE IDENTIFICATION:

Date Collected: June 26, 1991
Collected By: Peter Pavalko of Aqua-Tech, Inc.
Collection Location: Project: 95036 - Serigraph
Date Delivered: June 28, 1991
Delivered By: Client

Upon the arrival at the laboratory, the samples were given the following identification numbers:

<u>Davy Lab Number</u>	<u>Sample Site</u>
18692	FD
18693	PreTr-10
18694	E
18695	V
18696	PostTr-Q

METHODOLOGY:

TPH ANALYSIS

The soil samples were analyzed according to the method outlined in the Leaking Underground Fuel Tank Manual published by the State of California. The Wisconsin Department of Natural Resources references this method for the analysis of Total Petroleum Hydrocarbons (TPH) either as Gasoline, Fuel Oil, or Diesel.

Each sample for the determination of Diesel was extracted three times with carbon disulfide. The extracts were then dried and concentrated to 1-ml with carbon disulfide. A portion of the each sample was injected into a Perkin-Elmer Sigma 2B Gas Chromatograph equipped with a FID detector. Fuel standards from the EPA are used to calibrate the system. A minimum of eight peak areas are used to quantitate the sample response. Total peak areas obtained were compared with known standards.

The soil samples were analyzed for TPH as Gasoline by extracting a portion of the sample with methanol. The sample was then purged for 11 minutes using helium as the carrier gas. Following the purge cycle, the sample was desorbed into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Peak areas obtained were then compared to the areas obtained from standard curves. Quantitation was based on the response of the parameter against concentration. A linear regression curve was used.

DAVY LABORATORIES

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Division of Davy Engineering Co.

TOTAL SOLIDS

The percent total solids were determined on each sample using current EPA Methodology. A portion of the sample was weighed and dried at 103 - 105°C.

RESULTS:

The results of the analysis for Total Petroleum Hydrocarbons (TPH) and total solids is given below.

SAMPLE NO.	TPH as DIESEL (ppm) ^a	TPH as GASOLINE (ppm) ^a	TOTAL SOLIDS %
18692-FD	<1.0	<1.0	83.0
18693-PreTr-10	1,720	—	84.6
18694-E	<1.0	<1.0	83.8
18695-V*	<1.0	<1.0	88.4
18696-PosTr-9	26.3	—	100

< means "less than"

a - calculated on a dry weight basis

Minimum Detection Limit = 1.0 ppm

Submitted by:

DAVY LABORATORIES

A handwritten signature in cursive script, appearing to read "Paul A. Harris".

Paul A. Harris, Director

The laboratory analysis reported was determined in accordance with current methodology. The results are only representative of the samples received; conditions can be expected to vary at different times and under different sampling conditions.

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FAX: (608) 784-6611



Division of Davy Engineering Co.

Aqua-Tech, Inc.
140 South Park Street
Port Washington, Wisconsin 53074

July 5, 1991
Client No. 10725

Attn: Mr. Peter Pavalko

INTRODUCTION:

Number of Samples Received: Five soil samples
Date Received: July 2, 1991
Analysis Requested: Total Petroleum Hydrocarbons (TPH) as diesel and gasoline, plus all samples to be analyzed for total percent solids.

SAMPLE IDENTIFICATION:

Date Collected: July 1, 1991
Collected By: Peter Pavalko of Aqua Tech, Inc.
Collection Location: Serigraph - Project No. 95036
Date Delivered: July 2, 1991
Delivered By: Client

Upon the arrival at the laboratory, the samples were given the following identification numbers:

<u>Davy Lab Number</u>	<u>Sample Site</u>
18708	PostTr-11
18709	G
18710	F
18711	PosTr-9A
18712	PosTr-9B

METHODOLOGY:

The samples were analyzed according to the method outlined in the Leaking Underground Fuel Tank Manual published by the State of California. The Wisconsin Department of Natural Resources references this method for the analysis of Total Petroleum Hydrocarbons (TPH) either as Gasoline, Fuel Oil, or Diesel.

Each sample for the determination of diesel was extracted three times with carbon disulfide. The extracts were then dried and concentrated to 1-ml with carbon disulfide. A portion of the sample was injected into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Fuel standards from the EPA are used to calibrate the system. A minimum of eight peak areas are used to quantitate the sample response. Total peak areas obtained were compared with known standards.

The soil samples were analyzed for TPH as gasoline by extracting a portion of the sample with methanol. The sample was then purged for 11 minutes using helium as the carrier gas. Following the purge cycle, the sample was desorbed into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Peak areas obtained were then compared to the areas obtained from standard curves. Quantitation was based on the response of the parameter against concentration. A linear regression curve was used.

TOTAL SOLIDS ANALYSIS

The percent total solids were determined on each sample using current EPA Methodology. A portion of the sample was weighed and dried at 103 - 105°C.

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Division of Davy Engineering Co.

Aqua Tech, Inc.
July 5, 1991
Page 2

RESULTS:

The results of the analysis for Total Petroleum Hydrocarbons (TPH) and total solids in the samples are given below:

SAMPLE NO.	SAMPLE SITE	TPH AS DIESEL (ppm) ^a	TPH AS GASOLINE(ppm) ^a	TOTAL SOLIDS (%)
18708	PosTr-11	2.9	—	100
18709	G	6,440	<1.0	94.2
18710	F	<1.0	<1.0	95.7
18711	{ PosTr-9A	23.0	—	90.4
18712	{ PosTr-9B	45.8	—	88.6

< means "less than"
a - calculated on a "dry weight basis"
Minimum Detection Limit = 1.0 ppm

Submitted by:

DAVY LABORATORIES

Paul A. Harris, Director

collected from the pile shows to be greater than 100 ppm by sample based 9

The laboratory analysis reported was determined in accordance with current methodology. The results are only representative of the samples received; conditions can be expected to vary at different times and under different sampling conditions.

DAVY LABORATORIES

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Division of Davy Engineering Co.

Aqua-Tech, Inc.
140 South Park Street
Port Washington, Wisconsin 53074

July 9, 1991
Client No. 10726
Project No. 95036

Attn: Mr. Peter Pavalko

INTRODUCTION:

Number of Samples Received: Eight soil samples
Date Received: July 2, 1991
Analysis Requested: Total Petroleum Hydrocarbons (TPH) as diesel and gasoline, plus all samples to be analyzed for total percent solids.

SAMPLE IDENTIFICATION:

Date Collected: June 28, 29, 1991
Collected By: Peter Pavalko of Aqua Tech, Inc.
Collection Location: Serigraph - Project No. 95036
Date Delivered: July 2, 1991
Delivered By: Client

Upon the arrival at the laboratory, the samples were given the following identification numbers:

<u>Davy Lab Number</u>	<u>Sample Site</u>
18713	U
18714	PreTr-11
18715	H
18716	PosTr-10
18717	I
18718	FE
18719	T
18720	J

METHODOLOGY:

The samples were analyzed according to the method outlined in the Leaking Underground Fuel Tank Manual published by the State of California. The Wisconsin Department of Natural Resources references this method for the analysis of Total Petroleum Hydrocarbons (TPH) either as Gasoline, Fuel Oil, or Diesel.

Each sample for the determination of diesel was extracted three times with carbon disulfide. The extracts were then dried and concentrated to 1-ml with carbon disulfide. A portion of the sample was injected into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Fuel standards from the EPA are used to calibrate the system. A minimum of eight peak areas are used to quantitate the sample response. Total peak areas obtained were compared with known standards.

The soil samples were analyzed for TPH as gasoline by extracting a portion of the sample with methanol. The sample was then purged for 11 minutes using helium as the carrier gas. Following the purge cycle, the sample was desorbed into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Peak areas obtained were then compared to the areas obtained from standard curves. Quantitation was based on the response of the parameter against concentration. A linear regression curve was used.

DAVY LABORATORIES

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P.O. Box 2076
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FAX: (608) 784-6611



Division of Davy Engineering Co.

Aqua Tech, Inc.
July 9, 1991
Page 2

TOTAL SOLIDS ANALYSIS

The percent total solids were determined on each sample using current EPA Methodology. A portion of the sample was preweighed and dried for a given period of time. Following the drying cycle, the sample was reweighed and the percent solids calculated.

RESULTS:

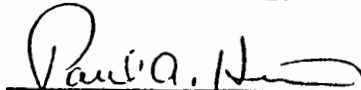
The results of the analysis for Total Petroleum Hydrocarbons (TPH) and total solids in the samples are given below:

SAMPLE NO.	SAMPLE SITE	TPH AS DIESEL (ppm) ^a	TPH AS GASOLINE(ppm) ^a	TOTAL SOLIDS (%)
18713	U	<1.0	<1.0	84.2
18714	PreTr-11	19.2	—	93.8
18715	H	2.5	<1.0	90.2
18716	PosTr-10	<1.0	—	100
18717	I	<1.0	<1.0	90.0
18718	FE	<1.0	<1.0	79.6
18719	T	<1.0	<1.0	88.7
18720	J	<1.0	<1.0	91.8

< means "less than"
a - calculated on a "dry weight basis"
Minimum Detection Limit = 1.0 ppm

Submitted by:

DAVY LABORATORIES


Paul A. Harris, Director

The laboratory analysis reported was determined in accordance with current methodology. The results are only representative of the samples received; conditions can be expected to vary at different times and under different sampling conditions.

DAVY LABORATORIES

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FAX: (608) 784-6611



Division of Davy Engineering Co.

Aqua-Tech, Inc.
140 South Park Street
Port Washington, Wisconsin 53074

July 11, 1991
Client No. 10759
Project No. 95036

Attn: Mr. Randy Igel

INTRODUCTION:

Number of Samples Received: Two soil samples
Date Received: July 10, 1991
Analysis Requested: Total Petroleum Hydrocarbons (TPH) as diesel, plus all samples to be analyzed for total percent solids.

SAMPLE IDENTIFICATION:

Date Collected: July 9, 1991
Collected By: Randy Igel of Aqua Tech, Inc.
Collection Location: Serigraph - Project No. 95036

DAVY LAB NO.

SAMPLE SITE

18784
18785

PosTr-12
PosTr-9C

METHODOLOGY:

TPH AS DIESEL

The samples were analyzed according to the method outlined in the Leaking Underground Fuel Tank Manual published by the State of California. The Wisconsin Department of Natural Resources references this method for the analysis of Total Petroleum Hydrocarbons (TPH) either as Gasoline, Fuel Oil, or Diesel.

Each sample for the determination of diesel was extracted three times with carbon disulfide. The extracts were then dried and concentrated to 1-ml with carbon disulfide. A portion of the sample was injected into a Perkin-Elmer Sigma 2B GC equipped with a FID detector. Fuel standards from the EPA are used to calibrate the system. A minimum of eight peak areas are used to quantify the sample response. Total peak areas obtained were compared with known standards.

TOTAL SOLIDS ANALYSIS

The percent total solids were determined on each sample using current EPA Methodology. A portion of the sample was preweighed and dried for a given period of time. Following the drying cycle, the sample was reweighed and the percent solids calculated.

DAVY LABORATORIES

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Division of Davy Engineering Co.

Aqua Tech, Inc. - Randy Igel
July 11, 1991 - Client No. 10759
Page 2

RESULTS:

The results of the analysis for Total Petroleum Hydrocarbons (TPH) and total solids in the samples are given below:

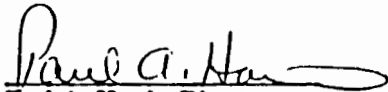
SAMPLE NO.	SAMPLE SITE	TPH AS DIESEL (ppm) ^a	TOTAL SOLIDS (%)
18784	PosTr-12	<1.0	100
18785	PosTr-9C	<1.0	100

< means "less than"
a - calculated on a "dry weight basis"
Minimum Detection Limit = 1.0 ppm

Submitted by:

*From the Wisconsin Dept. of Natural Resources to the DAVY LABORATORIES
10 Sample Receipt*

DAVY LABORATORIES


Paul A. Harris, Director

The laboratory analysis reported was determined in accordance with current methodology. The results are only representative of the samples received; conditions can be expected to vary at different times and under different sampling conditions.

Pre-treatment

TABLE 4-1
CHEMICAL ANALYSES (TPH) OF SOIL BORING SOIL SAMPLES



WEST BEND, WISCONSIN

DATE COLLECTED: 2/1/91

Sample Number	Depth Interval (feet)	Total Petroleum Hydrocarbons as gasoline (ug/g) ¹	Total Petroleum Hydrocarbons as diesel fuel (ug/g)	Maximum Photoionization Detector Readings (ppm)
SB-1	10-12	ND ²	ND ³	0
SB-2	10-12	ND ²	ND ³	0
SB-3	0-5	30.0 ⁴	3,970.0	50
SB-4	7-9	196.0	10,770.0	150
SB-5	3-5	ND ²	14.0	2
SB-6	10-12	ND ²	ND ³	0
SB-7	10-12	ND ²	ND ³	0
SB-8	10-12	ND ²	ND ³	0
SB-9	10-12	ND ²	ND ³	0

- ¹ All results calculated on a dry weight basis.
- ² Not detected above the 1.0 ug/g laboratory detection limit.
- ³ Not detected above the 10.0 ug/g laboratory detection limit.
- ⁴ Ten ug/g is the maximum level of TPH contamination allowed in soil before remediation is required by the Wisconsin Department of Industry, Labor, and Human Relations.

04/05/91 16:40 04142840243

April 29, 1991

Mr. Jeff Fischer
Wisconsin Department of Natural Resources, SE District
2300 N. Dr. Martin Luther King, Jr. Drive
Box 12436
Milwaukee, WI 53212

Dear Jeff:

RE: Work plan for the remediation of contaminated soils via thermal treatment at the Serigraph, Inc. site, 760 Indiana Ave., West Bend, WI.

The purpose of this letter is to outline the projected scope of work at the Serigraph site and associated factors which will be of concern during this project. ATI Project # 95036.

Scheduling & Preparation

This project is tentatively scheduled to begin the week of May 20, 1991. The start date will be dependent on the ending date of the Adell Whey project which is also using the Clean Soils thermal treatment unit. The thermal treatment unit should be operational at the Adell Whey site the week of May 6, 1991 if you would like to see it - see Frank Fuja.

The Excavation

ATI estimates the excavation and treatment of approximately 4,000 tons of contaminated soil (sand) at the site. The soil will be thermally treated by a Clean Soils portable roaster. The depth of the excavation is anticipated to be approximately 12 feet and should be relatively constant throughout the excavation. It appears that the true groundwater table was encountered at the site at a depth of 11 feet in soil borings during the SI.

The soil will be excavated and treated entirely on site. The treated soil will be stockpiled on site until conditions allow for its backfilling within the excavation. A water supply of 20 gpm will be utilized to remoisturize treated soil to advert potential dust problems.

A minimum of one groundwater collection sump will be installed within the excavation near the downgradient end prior to backfilling. When the excavation is complete ATI anticipates the installation of three groundwater monitoring wells around the excavation limits. Please refer to the enclosed map for the anticipated dimensions and location of the excavation and locations of groundwater monitoring wells.

Mr. Jeff Fischer
April 29, 1991
Page 2

Sampling

Field Screening

Soil samples from the floor and walls of the excavation will be field screened with a PID using the headspace method on a five foot grid pattern.

Laboratory Sampling

- The Excavation -** After the excavation is complete and prior to backfilling soil samples will be collected at 25 foot intervals from the walls of the excavation from a depth of 5.0 to 9.0 feet; this is the depth interval that appeared to be most contaminated during the SI. Soil samples will also be collected every 25 feet on the floor of the excavation. Soil samples will be analyzed for TPH as gasoline and diesel fuel.
- Pre-Treatment -** Per requirements as stated on Form 4400-120 one PID sample per 15 yds and one laboratory analysis (TPH - diesel only) per 300 yds of contaminated soil will be collected to verify that only contaminated soil is being remediated.
- Post-Treatment -** One soil sample per 300 yds of treated soil will be collected to verify TPH (diesel only) levels below 10 ppm. These samples will be run on a one or two day turnaround.

If there are any aspects of this project that you would like more information about, please contact me.

Sincerely,

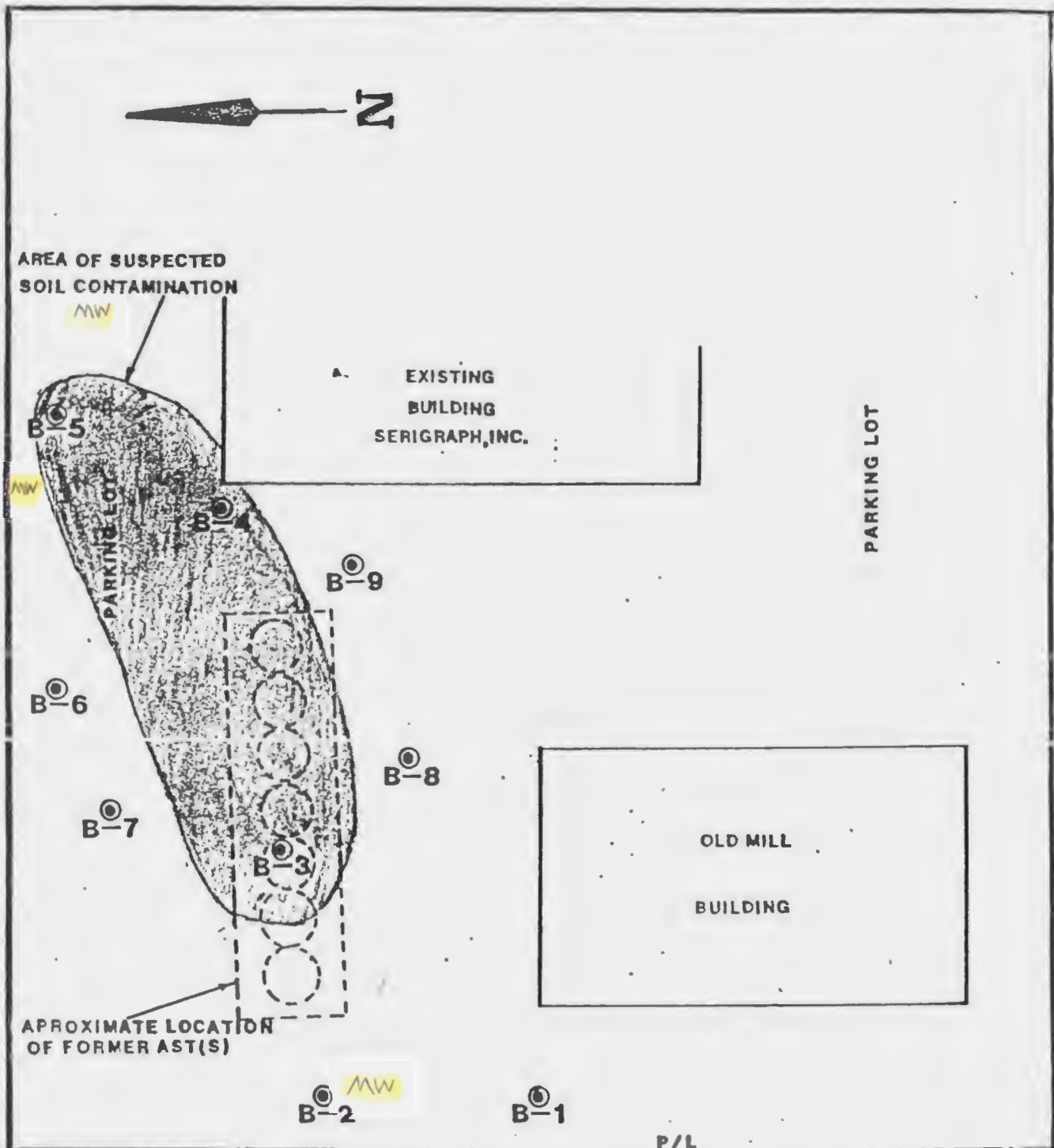
AQUA-TECH, INC.



Pete Pavalko
Environmental Specialist

cc: Tom Ravn, Serigraph, Inc.

FIGURE 3-1



NOTE:-
 (Symbol) - SOIL BORING

MW - PROPOSED *MONITORING WELL*

AQUA-TECH INC.		
SCALE: 1"=40'	APPROVED: <i>PP</i>	DRAWN BY:
DATE: 2/19/91		RICHARDSON
SERIGRAPH		
95036		

APR 17 1991

April 15, 1991

Mr. Jeff Fischer
SE Dist., WDNR
2300 N Dr. Martin Luther King, Jr. Dr.
Box 12436
Milwaukee, WI 53212

Mr. Fischer:

RE: Portable Soil Roaster - Serigraph, Inc., West Bend, WI.

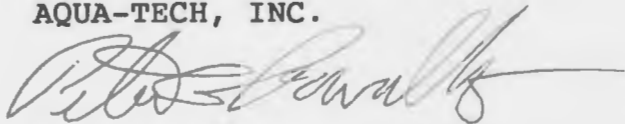
Enclosed please find a copy of the Clean Soils mobile thermal treatment brochure. We are strongly considering this option rather than landfilling or asphalt incorporation. Clean Soils say they have a WDNR air permit already. We analyzed the worst soil sample for BTEX already (see report for lab data). We would still like to discuss/confirm the following topics:

1. Will any other pre-treatment analyses be required by the WDNR?
2. number and type of post-treatment analyses?
3. Air Quality approval? Additional on-site air monitoring required?
4. Can the soil be used as backfill if less than 10ppm TPH? Contingency plan in the event that roasted soil is slightly greater than 10ppm TPH.

This project may begin in less than one month. I will be in contact soon. If you have any other questions or comments please call me.

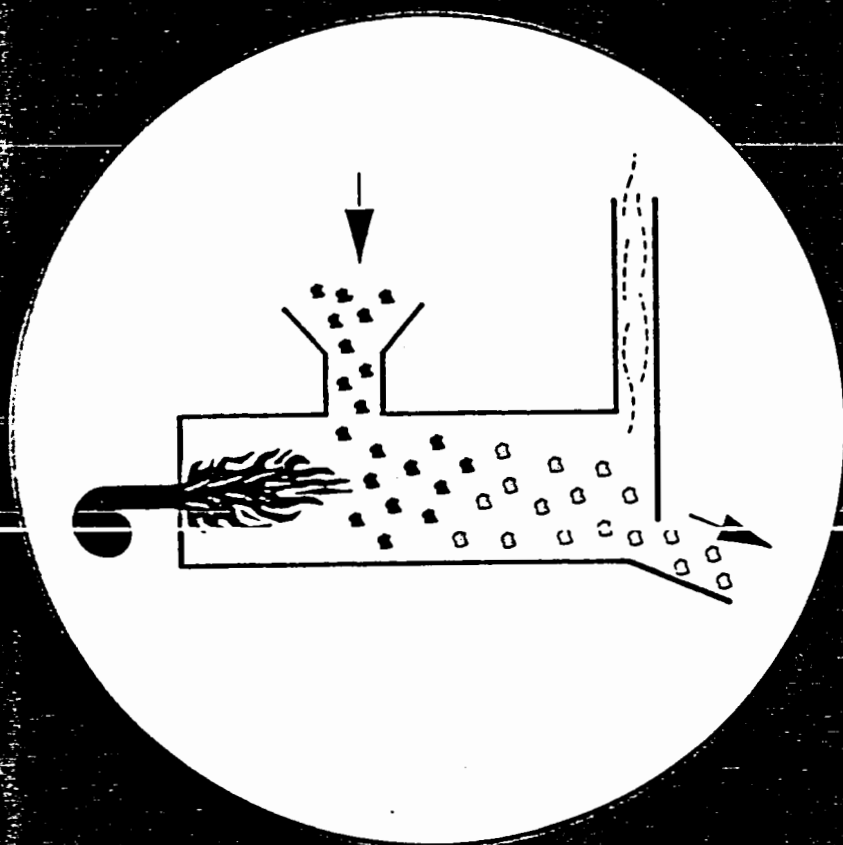
Sincerely,

AQUA-TECH, INC.



Pete Pavalko
Environmental Specialist

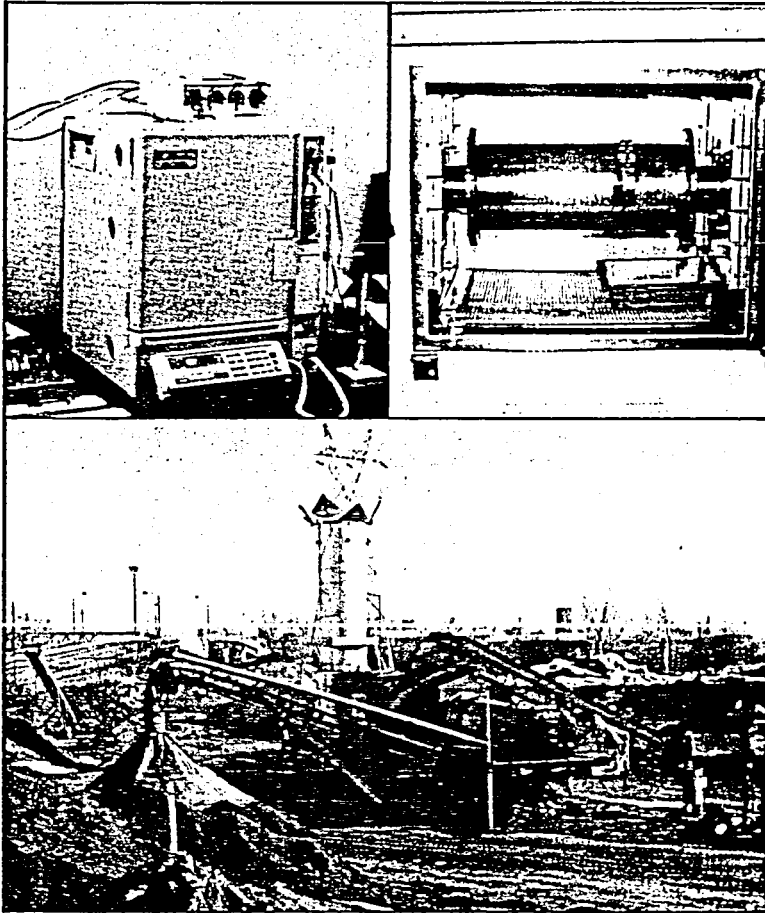
Thermal Desorber™



CleanSoils

RISK FREE AND POLLUTION FREE

The CleanSoils Thermal Desorber™ is a final treatment method for decontaminating soils. Thin spreading, vapor extraction and asphalt plant processing merely result in transferring hydrocarbons to the air. Studies show that asphalt plants are ineffective at destroying even light petroleum compounds and most hydrocarbons go out the stack. Landfilling of contaminated soils presents the risk of future liability. CleanSoils Thermal Desorber™ emits an invisible plume with less than 0.04 gdcf particulates and removes over 99 percent of hydrocarbons in the exhaust gas stream. Soils are typically decontaminated to less than 10 ppm, depending on soil characteristics and process conditions. CleanSoils guarantees its work with laboratory analysis of processed soils and certificates of compliance.



DRIVEN BY APPLIED TECHNOLOGY

CleanSoils is rapidly advancing thermal extraction technology. Our engineering staff has conducted extensive research, predictive modeling and field testing to determine effective equipment designs and soil-specific operating parameters. Our proprietary benchscale test equipment allows us to conduct advance testing of volatilization potential for candidate soils. Our laboratory is used exclusively for analyzing hydrocarbons in soils for our own projects. We are continually upgrading our soil remediation technologies using information generated in our laboratory and at our processing sites.

WE CAN TACKLE TOUGH PROJECTS

CleanSoils has permits from a number of states to process petroleum contaminated soils. We can also use thermal extraction technology at clients sites to treat soils with other hydrocarbons like solvents, PAH's and similar hazardous materials (subject to regulatory review). We can modify our equipment to include wet scrubbers and other accessories to deal with specific contaminants. We require submittal of a soil profile sheet, laboratory analysis, grain size analysis and a soil sample to review each candidate soil.

COST YOU CAN LIVE WITH

How much does total satisfaction cost? Processing costs depend on soil type, moisture content, contamination, volume and debris loading. Sandy soils with gasoline or No. 2 fuel oil can usually be processed [redacted] per ton. Each candidate soil is carefully evaluated in CleanSoils laboratory and all material characteristics are reviewed prior to pricing. CleanSoils is competitive with other remedial alternatives yet offers complete and final remediation. When costs for monitoring, laboratory analyses, trucking and future risk exposure are factored in, CleanSoils is tough to beat. And backfill is free!

SOIL TREATMENT - OUR ONLY BUSINESS

CleanSoils Inc. treats contaminated soils using state-of-the-art technologies. We direct all our resources towards developing and implementing soil decontamination technologies. For soil containing hydrocarbons, CleanSoils operates Thermal Desorber™ plants at fixed locations and on a mobile basis. CleanSoils is not a consultant, laboratory or a groundwater remediation company.

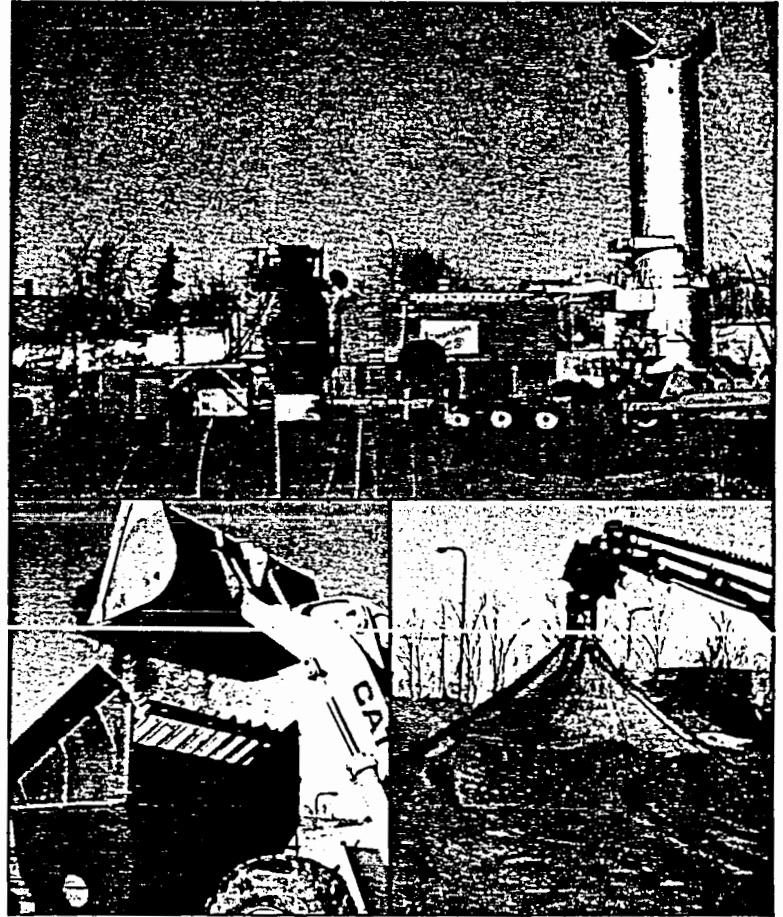
CLEANSOILS THERMAL DESORBER™

The CleanSoils Thermal Desorber™ is a stand alone, mobile, soil treatment system which uses thermal extraction followed by exhaust gas incineration for remediating hydrocarbon contaminated soils. It removes contaminants including petroleum products (gasoline through No. 6 fuel oil), and other hydrocarbons with low to medium boiling points. The system fits on two trailers and is accompanied by feed and discharge conveyors, a pulverizer, screen plant and loader. The Thermal Desorber™ requires about 100 feet by 100 feet and operates on natural gas or liquid propane.

SOIL AND PROCESS GAS TREATMENT

Contaminated soils are preprocessed by being fed into a large hopper and pulverized and screened to less than two inches. Soils are weighed on a feed belt as they enter the primary treatment unit. The primary is a counterflow rotating drum which heats soils to 300-600°F. This removes moisture and volatilizes hydrocarbons. Temperature and retention time are adjusted for the waste stream by adjusting the feed rate, drum speed, rake, burner controls or flighting pattern. Soils exit the primary to a discharge conveyor with a special water spray and dust control system. The unit can process 20 to 50 tons of contaminated soil per hour.

Exhaust gases from the primary go through a knockout chamber, quench system, pulsed jet baghouse and finally an afterburner. The afterburner combusts any residual organics at temperatures of up to 1400°F. An optional wet scrubber can be used instead of the afterburner for certain waste streams.



FIXED BASE OR MOBILE

CleanSoils is presently working both on a fixed and mobile basis. Staging areas are being developed as processing sites for smaller volumes of contaminated soils. If a single project has a large volume of soils to be treated (typically more than 1000 cubic yards) it is frequently advantageous to transport a Thermal Desorber™ plant to that site.

SOIL PROFILE SHEET

CleanSoils Reference No: _____ Date: _____
(For CS use only)

INSTRUCTIONS:

Complete each section of the soil profile sheet and submit with analytical and geotechnical reports. Written price quotation will not be issued without submission of a Soil Profile Sheet and analytical data. CleanSoils may request a representative sample of soil when appropriate. If so, label sample with customer, generator and application date. CleanSoils will evaluate each application and may perform benchscale tests to determine processing parameters and costs. Samples may be returned to the applicant at CleanSoils' option. Please list the party responsible for payment as CUSTOMER. If you are a consultant submitting for a responsible party but are not responsible for payment, please note your name, company and telephone number as indicated.

1. CUSTOMER Name: _____
Address: _____
Contact: _____ Telephone: _____
2. GENERATOR Name: _____
(if different)
Address: _____
Leak ID No: _____
3. CONSULTANT Name: _____
Address: _____
Contact: _____ Telephone: _____
4. SOIL LOCATION
Facility: _____
(if different)
Address: _____

(Continued on reverse side)

SOIL PROFILE SHEET
(continued)

5. ESTIMATED QUANTITY _____ Tons OR _____ Cubic Yards
Source: _____ Tanks _____ Pipeline _____ Spill _____ Other
Date Excavated: _____
6. CONTAMINATION _____ Gasoline, _____ No. _____ Fuel Oil, Other: _____
Field PID Reading: Range (min-max) _____ - _____ ppm Average _____
7. ANALYTICAL DATA (hard copy of analytical report required):
Total Petroleum Hydrocarbons as Gas/F.O. _____ ppm
Benzene _____ ppm Toluene _____ ppm Ethyl Benzene _____ ppm
Xylenes _____ ppm Total Lead _____ ppm Other _____
8. SOIL CHARACTERISTICS
Type: _____ Sand, _____ Silty Sand, _____ Sandy Clay, _____ Clay, _____ Topsoil
Unified Soil Classification System Designation _____
Cohesiveness: _____ Cohesive _____ Friable _____ Noncohesive
Color: _____ Dark Brown _____ Tan _____ Black
Fines Content: _____ % Actual Fines Passing #200 by weight
Moisture: _____ Appears Dry, _____ Moist, _____ Wet, _____ Saturated
_____ % Actual Moisture Content
Rocks: _____ None, _____ % Below 2", _____ % Above 2", _____ Boulders
Debris: _____ None, _____ Some (describe) _____

9. ADDITIONAL INFORMATION _____

10. TERMS I understand that this application and soil sample is submitted for evaluation by CleanSoils Inc. and all test samples may be returned to the applicant. No soils will be received or processed unless an agreement is properly executed. I also understand that no hazardous substances as defined by RCRA may be delivered to or processed by CleanSoils.

Signed: _____

PROCESS DESCRIPTION- CLEANSOILS THERMAL DESORBER

Soil is fed at 20-40 tons per hour into a large hopper with an adjustable grizzly screen to remove large rocks and debris. Material then passes through a two inch vibrating screen or a crusher to properly size all particles. Soil is fed by variable speed conveyor belt into the primary treatment unit (PTU). Incoming soils are weighed on a microprocessor controlled belt scale. The PTU is a 5x22 foot counter flow rotary kiln with a 25MBTU propane fired burner. Soil is heated to 350-500°F for up to five minutes while cascading down the PTU. Hydrocarbons are desorbed from soils in the PTU and are immediately combusted or become part of process gases, depending on contaminant type and concentration.

Process gases are treated by filtration in a high efficiency baghouse for particulate control followed by high temperature incineration in the secondary treatment unit (STU). The baghouse fines are recombined with hot soils exiting the PTU to remove residual contamination. The STU operates at 1000-1700°F to combust hydrocarbons in the process exhaust gas stream. No ash, residual water or contaminated process water is involved. The process requires no long term monitoring because processed soil is decontaminated to meet regulatory requirements.

The process requires different operating parameters for different soils. Factors influencing process operations include soil type, moisture, contamination type and concentrations. CleanSoils has developed software to determine proper operating criteria for various conditions. Adjustments include screen sizes, PTU and STU set temperatures, air flow, drum rake, burner settings, retention times, etc. CleanSoils engineers evaluate each project individually. Actual process data is recorded by CleanSoils operators and using a data logger with graphic printout.

Treated soils are remoisturized to 2-5 percent moisture content to control dust and to improve handling characteristics. Approximately 20 gallons per minute is required to provide water for restoring soil moisture under average operating conditions.

CleanSoils is required to have state air emission permits for each plant. Also, some states require site by site approval before mobilizing. In 1990, less than one percent of post burn soil samples exceeded 10 ppm TPH, including projects where soil contained 35 percent moisture, 60 percent fines and TPH contamination of 25,000 ppm. Due to our track record, CleanSoils gets many referrals from regulatory agencies.

CLEANSOILS INC.
PARTIAL CLIENT LIST

AT&T	Amoco Oil Company
APTUS	ARCO
Ashland Oil Company	Barr Engineering
Bay West, Inc.	Bor-son Co.
Blasland & Bouck Engineering	Bolander & Sons
Braun Engineering	CSX Minerals
Cargill	Chevron
CH2M Hill	Como Foundry Partners
Control Data Corp.	Dahl & Associates Inc.
Delta Environmental	Donohue Associates
DPRA Engineering	Enecotech Inc.
ENSR	Federated Insurance E&S
Foth & VanDyke	Geocon
General Mills	Geraghty-Miller
GME Consultants	Groundwater Technology
HydroSearch	IT Corporation
ICF Kaiser	Keystone Environmental
Laidlaw Environmental	Lincoln Companies
Leggette, Brashears & Graham	B. A. Liesch Assoc.
Malcolm Pirnie Inc.	Metro Waste Control Com.
Milacs Oil	Midwest Environmental
3M Company	MN Petroleum Services MN
Pollution Control Agency	MN State Univ. System
Nova Environmental	Pace Labs
R.E. Wright Assoc.	Rollins Oil
STS Consultants	Sinclair Oil
SP Environmental	SuperAmerica
Tellus Consultants	Terracon Consultants
Texaco	Total Petroleum
Twin City Testing Corp.	United Hospital
University of Minnesota	U.S. Air Force
U.S. Army	Warzyn Engineering
Wenck Assoc.	West Shore Pipeline



cleansoils

84 2nd Ave. S. E.
New Brighton, MN 55112

(612) 639-8811
www.cleansoils.com

PHASE III ENVIRONMENTAL ASSESSMENT

FOR THE

SERIGRAPH, INC. SITE

760 INDIANA AVENUE

WEST BEND, WISCONSIN

MARCH 1991

PREPARED BY
AQUA-TECH, INC.
140 SOUTH PARK STREET
PORT WASHINGTON, WISCONSIN 53074
ATI PROJECT 95036

PHASE III ENVIRONMENTAL ASSESSMENT

FOR THE

SERIGRAPH, INC. SITE

760 INDIANA AVENUE

WEST BEND, WISCONSIN

Prepared By: Peter E. Pavalko Date: 3-18-91
Peter E. Pavalko
Environmental Assessment Specialist
Aqua-Tech, Inc.

Reviewed By: J. Vance Jackson, Jr. Date: 3-18-91
J. Vance Jackson, Jr.
Hydrogeologist
Aqua-Tech, Inc.

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1.0 SUMMARY

Aqua-Tech, Inc. was contracted by Serigraph, Inc. to conduct a Phase III Environmental Assessment at the facility located at 760 Indiana Avenue, West Bend, Wisconsin. The purpose of the assessment was to determine the extent of contamination which may be associated with several aboveground storage tanks formerly located at the site that were identified during a Phase I Environmental audit conducted by Foth & Van Dyke Associates in January 1991. The Phase III assessment included the following:

- * Nine soil borings to a maximum depth of 14.0 feet
- * Collection and field screening of subsurface soil samples for volatile organic compounds (VOCs) with a photoionization detector (PID)
- * Chemical analyses of nine subsurface soil samples for total petroleum hydrocarbons (TPH) as gasoline, diesel fuel, and fuel oil.
- * Chemical analysis of one soil sample for benzene, toluene, ethylbenzene, and xylenes (BTEX)
- * Documentation of sampling procedures and soil and groundwater conditions at the site.

Results of this investigation indicate that a release of petroleum products and subsequent contamination of subsurface soil has occurred at the site. Laboratory analyses of two of the nine soil samples collected at the site identified TPH contamination above the 10 ug/g (ppm) Wisconsin Department of Industry, Labor, and Human Relations (WDILHR) remedial action level. In addition, field screening of soils from two of the borings with a PID indicated the presence of VOCs significantly above background levels.

Groundwater was encountered in the nine soil borings at a depth of approximately 11.0 feet. No groundwater samples could be collected due to sand clogging the collection bailer. A potential

for contamination of groundwater exists for this site. Further monitoring will be necessary to confirm this possibility and to define its extent.

Based on the soil borings completed at the site, the area of contamination, located near the northwest corner of the Serigraph facility, is believed to be approximately 140 feet long and 50 feet wide. The vertical extent of contamination in this area intercepts the groundwater table at a depth of 11.0 feet. The area of contaminated soil appears to correspond to the location of several aboveground petroleum storage tanks which existed at the site from 1958 to 1983.

Aqua-Tech, Inc. estimates that approximately 2,850 cubic yards of petroleum contaminated soil exists at the site. Remediation options include excavation and landfilling or excavation and asphalt incorporation. Preliminary cost estimates for remedial activities are outlined in Section 6.0.

2.0 SITE BACKGROUND

2.1 Introduction

This section includes information obtained from the on-site operations and the site representative interview.

2.2 Site Location

The Serigraph, Inc. site is located at 760 Indiana Avenue, West Bend, Wisconsin. Serigraph, Inc. occupies approximately five acres in a residential/commercial area of Washington County, Wisconsin (See Figure 2-1). The portion of the Serigraph property under investigation is located west and north of the northwest corner of the Serigraph facility.

2.3 Site Geology

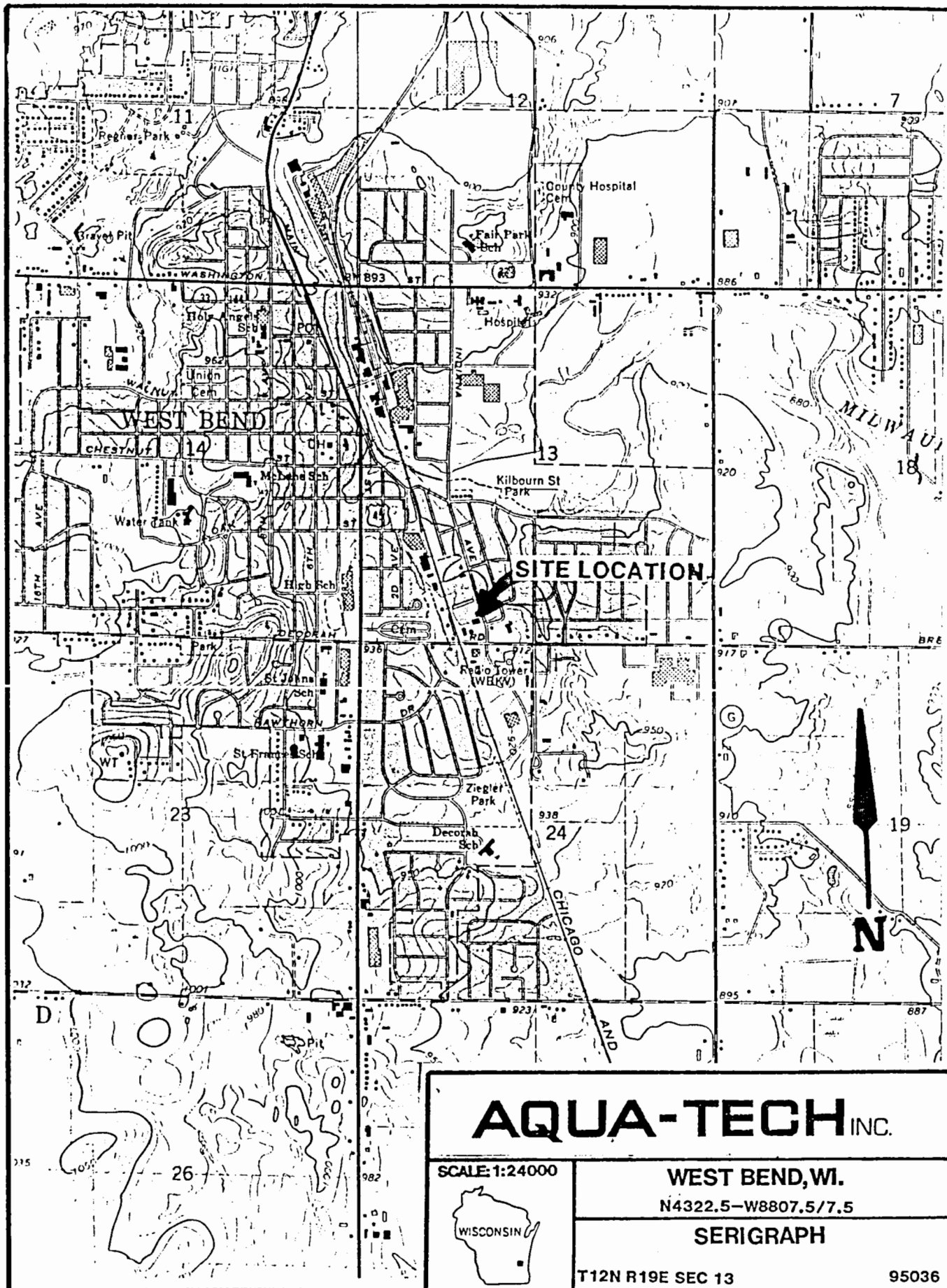
This site is located in the Eastern Ridges and Lowlands Province in southeastern Wisconsin. Glaciation has been an important agent in determining the geology and physiography of the site. It is part of the eastern end moraine of the Green Bay lobe of the Wisconsinan ice sheet deposited during the Woodfordian time.

The soils encountered within the soil borings at the site consisted of sands, gravels, and some silt which are consistent with the regional complex of soils typical of the glaciated uplands of southeastern Wisconsin.

Bedrock in the area is buried to varying depths by glacial deposits. Regionally, it consists of Silurian age dolomite of the Nigagaran Series. Bedrock was not encountered in the soil borings which reached to a maximum depth of 14.0 feet.

Surface topography at the site slopes gently to the northeast. Based on surface topography, the regional groundwater flow is believed to be northeast toward the Milwaukee River, which is 2,000 feet north of the site.

FIGURE 2-1



2.4 History

The Serigraph facility was built in 1955. Specialty graphics products are manufactured at the facility. Most of the area investigated during this assessment was purchased by Serigraph, Inc. in 1985.

The property west of Serigraph was utilized as a feed mill and petroleum distribution center from 1958 to 1983. A portion of the building which housed the feed mill is still located on the site (See Figure 3-1). Seven or eight above-ground bulk petroleum storage tanks (ASTs) were installed in 1958 on this property. The ASTs were oriented in an east-west direction approximately 70 feet north of the mill building. Based on photographs, the sizes of the ASTs are estimated to be greater than 20,000 gallons each. The ASTs are believed to have contained home heating oil and diesel fuel. The tanks were dismantled and removed from the site in 1983.

Based on the results and recommendations of a Phase I Environmental audit conducted by Foth & Van Dyke Associates, Milwaukee, Wisconsin, Serigraph, Inc. elected to complete a series of soil borings in the vicinity of the former ASTs.

3.0 SITE ASSESSMENT PROCEDURES AND FIELD OBSERVATIONS

3.1 Introduction

This section outlines procedures and observations for the Phase III Environmental Assessment at Serigraph, Inc. site in West Bend, Wisconsin. Individual subsections address specific assessment activities including field observations, sampling procedures, and chain of custody procedures.

3.2 Soil Borings

Nine soil borings were completed by Aqua-Tech, Inc. on February 1, 1991. The purpose of the borings was to identify and delineate the extent of soil contamination which appears to be associated with the ASTs formerly located at the site.

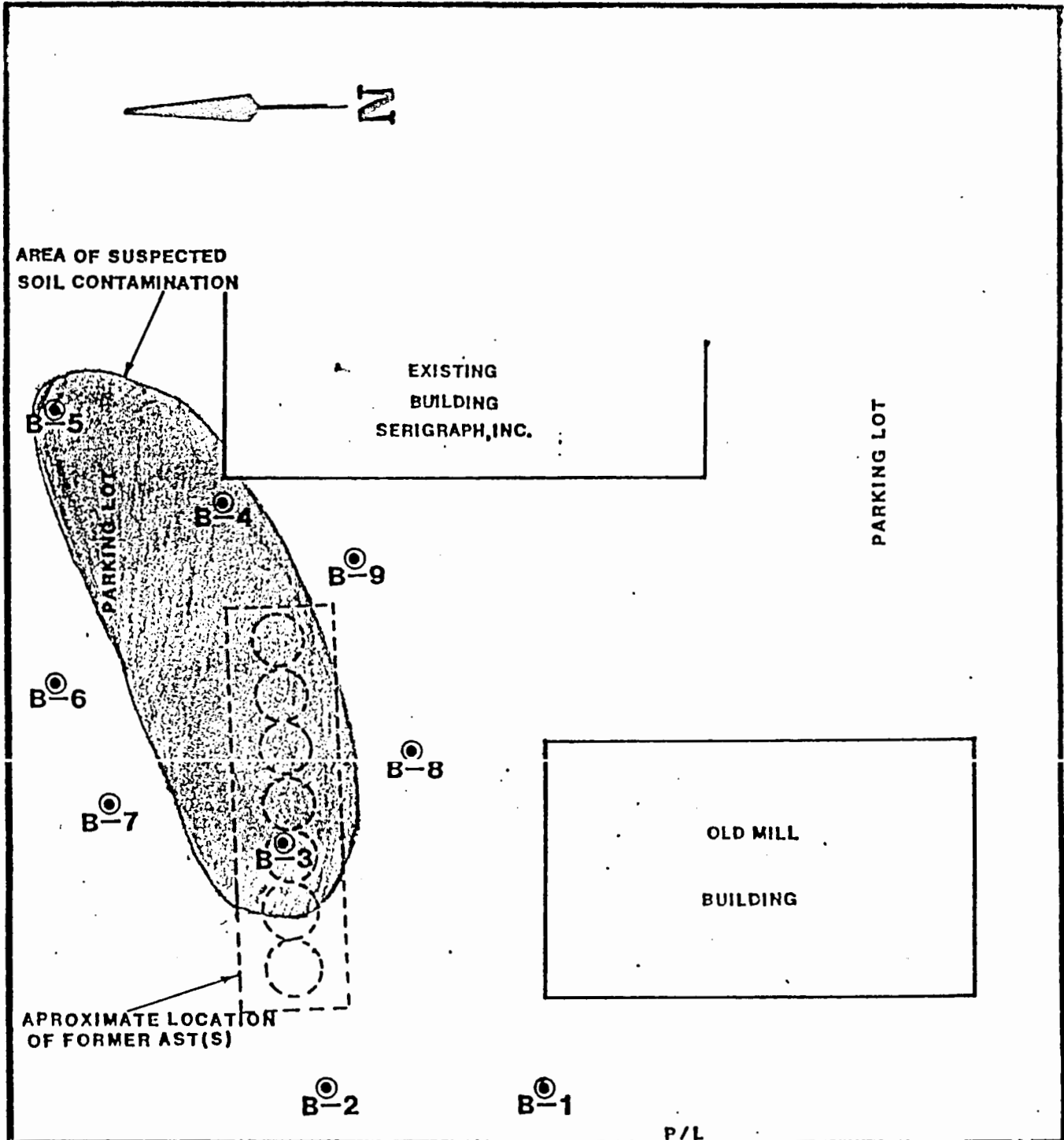
Soil Sample Locations

Soil borings B-1 and B-2 (See Figure 3-1) were located near the west property line. The purpose of these borings was to determine if petroleum products from a small tank farm located west of the Serigraph facility could have possibly migrated onto the Serigraph property. Soil borings B-3 and B-4 were completed in the vicinity of the former ASTs. Borings B-5, B-6, B-7, B-8, and B-9 were completed around the perimeter of the area identified as being contaminated. The purpose of borings B-5 through B-9 was to determine the horizontal extent of soil contamination.

Soil Sample Procedures

One soil sample was selected from each boring and retained for laboratory analysis. The soil sample which indicated the highest concentrations of VOCs based on field screening with the PID was selected. If field screening with the PID failed to indicate the presence of VOCs, the soil sample collected immediately above the groundwater table was

FIGURE 3-1



NOTE:--
 ⊙-SOIL BORING

AQUA-TECH INC.		
SCALE: 1"=40'	APPROVED:	DRAWN BY:
DATE: 2/19/91	<i>PP</i>	RICHARDSON
SERIGRAPH		
95036		

selected. The depth interval and PID reading of each sample selected for laboratory analysis is as follows:

<u>Soil Sample</u>	<u>Boring</u>	<u>Depth (feet)</u>	<u>PID Reading(ppm)</u>
SB-1	B-1	10-12	0
SB-2	B-2	10-12	0
SB-3	B-3	0-5	50
SB-4	B-4	7-9	150
SB-5	B-5	3-5	2
SB-6	B-6	10-12	0
SB-7	B-7	10-12	0
SB-8	B-8	10-12	0
SB-9	B-9	10-12	0

Groundwater was encountered in each boring at a depth of 11.0 feet. However, no water samples could be collected due to sand infiltration into the borehole which clogged the bailer.

Subsurface soil samples were collected using a truck mounted rotary drill equipped with hollow stem augers and a two inch diameter, 24 inch split spoon sampler. The split spoon sampler was advanced by conventional methods, including the attachment of the sampler to an AW rod and standard 140 pound hammer.

All drilling tools and equipment were washed with high pressure steam equipment prior to the start of sampling work. All sampling equipment was decontaminated with analconox and reagent water solution between sampling points to prevent cross contamination.

Samples selected for laboratory analyses were stored in clean, teflon™ lidded 4 ounce jars and cooled to 4°C for transport to the laboratory. Additional subsurface soil samples were collected, warmed, and field screened with a PID.

The depth and PID reading for each sample was recorded on soil profile logs (See Appendix B).

Upon completion of sampling, the borehole was completely backfilled with bentonite and abandoned according to Wisconsin Administrative Code N.R. 141.25 (See Appendix B).

3.3 Chain of Custody Procedures

This section describes procedures used for sample identification and chain of custody. The purpose of these procedures is to ensure security and integrity of the sample from collection through transportation, storage, and analysis.

Sample identification documents are carefully prepared so that sample identification and chain of custody are maintained and sample disposition is controlled. Sample identification documents include:

- * Field Notebooks
- * Sample Labels
- * Chain of Custody Records

Each sample is labeled, chemically or physically preserved, and sealed immediately after collection. To minimize handling of sampling containers, a label is filled out prior to sample collection. The sample label is completed using waterproof ink and then firmly affixed to the sample container. The sample label provides the following information:

- * Location
- * Sample Number
- * Date and Time of Collection
- * Analysis Required
- * Name of Sampler

A chain of custody record is fully completed in triplicate by the Aqua-Tech sampler immediately following sample collection.

Transfer of Custody Shipment

The cooler in which the samples are packed is accompanied by the chain of custody record. When transferring samples, the individuals relinquishing and receiving them sign, date, and note the time on the chain of custody record. This record documents sample custody.

Laboratory Custody Procedures

A designated sample custodian accepts custody of the shipped sample and verifies the sample identification number matches that on the chain of custody record. A copy of the completed chain of custody record is retained by the laboratory until analyses are complete. The record is then transferred to the site file with the analytical results.

4.0 ANALYTICAL PROCEDURES AND RESULTS

4.1 Introduction

This section includes results of chemical analyses of Aqua-Tech collected soil samples from soil borings B-1 through B-9 for total petroleum hydrocarbons (TPH) as gasoline, diesel fuel, and fuel oil. Soil sample SB-4 was also analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX). Samples were analyzed at the Aqua-Tech, Inc. Laboratory in Port Washington, Wisconsin.

4.2 Analytical Procedures

Soil samples were analyzed for TPH and BTEX by the Modified California Method, and EPA Method 8240, respectively.

Analytical methodology references for each sampling task contain specific quality control (QC) criteria associated with the particular methods. These specific requirements include calibration and QC samples and are described in detail within the methods. Daily performance tests and demonstration of precision and accuracy are required.

4.3 Results of Chemical Analyses of Aqua-Tech Collected Samples

Chemical analyses of soil samples SB-1, SB-2, SB-6, SB-7, SB-8, and SB-9 yielded the following results:

- * No petroleum hydrocarbons as gasoline were detected above the 1.0 ug/g laboratory detection limit.
- * No petroleum hydrocarbons as diesel fuel were detected above the 10.0 ug/g laboratory detection limit.

Chemical analyses of soil samples SB-3, SB-4, and SB-5 yielded the following results:

- * Petroleum hydrocarbon levels of 30 ug/g as gasoline and 3,970 ug/g as diesel fuel were identified in soil sample SB-3.
- * Petroleum hydrocarbon levels of 198 ug/g as gasoline and 10,770 ug/g as diesel fuel were identified in soil sample SB-4. Toluene, ethylbenzene, and xylenes were detected at concentrations of 1.3 ug/g, 1.5 ug/g, and 37 ug/g, respectively.
- * Petroleum hydrocarbon levels of 14.0 ug/g as diesel fuel was identified in soil sample SB-5. No petroleum hydrocarbons as gasoline were identified in soil sample SB-5 above the 1.0 ug/g laboratory detection limit.

Table 4-1 contains the TPH laboratory results of the collected soil samples. Complete laboratory results are provided in Appendix C. All results were calculated on a dry weight basis as required by WDILHR.

TABLE 4-1
 CHEMICAL ANALYSES (TPH) OF SOIL BORING SOIL SAMPLES
 SERIGRAPH, INC.
 WEST BEND, WISCONSIN
 DATE COLLECTED: 2/1/91

Sample Number	Depth Interval (feet)	Total Petroleum Hydrocarbons as gasoline (ug/g) ¹	Total Petroleum Hydrocarbons as diesel fuel (ug/g)	Maximum Photoionization Detector Readings (ppm)
SB-1	10-12	ND ²	ND ³	0
SB-2	10-12	ND ²	ND ³	0
SB-3	0-5	30.0 ⁴	3,970.0	50
SB-4	7-9	198.0	10,770.0	150
SB-5	3-5	ND ²	14.0	2
SB-6	10-12	ND ²	ND ³	0
SB-7	10-12	ND ²	ND ³	0
SB-8	10-12	ND ²	ND ³	0
SB-9	10-12	ND ²	ND ³	0

- ¹ All results calculated on a dry weight basis.
- ² Not detected above the 1.0 ug/g laboratory detection limit. *mg/kg*
- ³ Not detected above the 10.0 ug/g laboratory detection limit.
- ⁴ Ten ug/g is the maximum level of TPH contamination allowed in soil before remediation is required by the Wisconsin Department of Industry, Labor, and Human Relations.

5.0 DISCUSSION OF ASSESSMENT RESULTS

5.1 Introduction

This section discusses data and information that apply to observed and potential contamination at the Serigraph, Inc. site.

5.2 Soil

Based on the results of the Phase III Environmental Assessment, Aqua-Tech, Inc. estimates that an area approximately 140 feet long and 50 feet wide is contaminated by petroleum hydrocarbons above the 10 ug/g Wisconsin DILHR remedial action level. Contamination intercepts the groundwater table at 11.0 feet. The total volume of contaminated soil at the site is estimated at 2,850 yd³.

The zone of contamination coincides with the location of the former ASTs at the site. The absence of VOCs and TPHs in samples field screened and chemically analyzed from borings B-1 and B-2 suggest that the contamination identified at the site is not migrating from the tank farm west of the Serigraph facility.

The contamination that has been identified is most likely the result of petroleum releases at the bulk petroleum storage facility from 1958 to 1983.

5.3 Groundwater

It was not possible to collect a groundwater sample during completion of the soil borings due to sand entering the boring and subsequently clogging the bailer. Based on PID readings of soil samples collected at the soil/watertable interface, it is possible that groundwater has been impacted by petroleum products.

The City of West Bend is serviced by the West Bend Municipal Water System. There are no known private wells or

municipal wells within the vicinity which are likely to be impacted by this release.

6.0 RECOMMENDATIONS

Aqua-Tech, Inc. recognizes two viable options for the remediation of petroleum contaminated soils at the site. Excavation and landfill disposal or excavation and asphalt incorporation are the two options Aqua-Tech, Inc. considers feasible under the site specific conditions. Laboratory analyses indicate that the soil is heavily contaminated with diesel fuel/fuel oil, therefore, soil venting is not considered a viable and/or practical alternative. The landfilling and asphalt incorporation options are briefly discussed below.

Landfill Disposal

The site will be excavated until all contaminated soil is removed. The nearest landfill accepting petroleum contaminated soil is Parkview Landfill in Menomonee Falls, Wisconsin. Aqua-Tech, Inc. estimates the cost of landfilling the soil and all associated costs (excluding groundwater remediation activities) to be \$194,500. An itemized list of estimated expenses associated with this remedial option is provided in Appendix D.

Asphalt Incorporation

The site will be excavated until all contaminated soil is removed. The nearest asphalt plant accepting petroleum contaminated soil is the Payne & Dolan facility in Sussex, Wisconsin. Aqua-Tech, Inc. estimates the cost of asphalt incorporation and all associated costs (excluding groundwater remediation activities) to be \$285,000. An itemized list of estimated expenses associated with this remedial option is provided in Appendix E.

Regardless of which soil remediation techniques are implemented, Aqua-Tech, Inc. recommends the installation of a minimum of four groundwater monitoring wells to determine if groundwater has been impacted by this release. An estimated cost to install four

groundwater monitoring wells and complete one round of sampling is \$4,200.

APPENDIX A

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Serigraph, Inc.

PAGE 1 OF 3

DATE: 2/1/91

TIME: 3:30 p.m.

DIRECTION OF PHOTOGRAPH:

West

WEATHER CONDITIONS:

Sunny

40°F

PHOTOGRAPHED BY:

Peter E. Pavalko

SAMPLE ID:
(If Applicable):

SB-1



DESCRIPTION: Pictured is the location of soil boring B-1 near the west property line.

DATE: 2/1/91

TIME: 3:30 p.m.

DIRECTION OF PHOTOGRAPH:

Northwest

WEATHER CONDITIONS:

Sunny

40°F

PHOTOGRAPHED BY:

Peter E. Pavalko

SAMPLE ID:
(If Applicable):

SB-2



DESCRIPTION: Pictured is the location of soil boring B-2 near the west property line.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Seriqraph, Inc.

PAGE 2 OF 3

DATE: 2/1/91

TIME: 3:30 p.m.

DIRECTION OF PHOTOGRAPH:

Northeast

WEATHER CONDITIONS:

Sunny

40°F

PHOTOGRAPHED BY:

Peter E. Pavalko

SAMPLE ID:
(If Applicable):

SB-3



DESCRIPTION: Pictured is the location of soil boring B-3.

DATE: 2/1/91

TIME: 3:30 p.m.

DIRECTION OF PHOTOGRAPH:

East-Northeast

WEATHER CONDITIONS:

Sunny

40°F

PHOTOGRAPHED BY:

Peter E. Pavalko

SAMPLE ID:
(If Applicable):

SB-4, SB-8, SB-9



DESCRIPTION: Pictured are the locations of soil borings B-4, B-8, and B-9.

The Seriqraph, Inc. plant can be seen on the right of this photograph.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Serigraph, Inc.

PAGE 3 OF 3

DATE: 2/1/91

TIME: 3:30 p.m.

DIRECTION OF
PHOTOGRAPH:

East

WEATHER CONDITIONS:

40°F

Sunny

PHOTOGRAPHED BY:

Peter E. Pavalko

SAMPLE ID:
(If Applicable):

SB-5, SB-6, SB-7



DESCRIPTION: Pictured are the locations of soil borings B-5, B-6, and B-7 near the north property line.

APPENDIX B

AQUA-TECH, INC 140 S. PARK ST. PORT WASHINGTON, WI 53074 TELEPHONE: (414) 284-5746 (414) 375-0407 (MILW METRO)	SOIL PROFILE LOG PROJECT: SERIGRAPH, INC LOCATION: 760 INDIANA AVENUE PROJECT#: _____ ATI WO#: 95036
--	--

BORING <u>B-1</u>				SURFACE ELEVATION	
SAMPLES				DEPTH (FT)	DESCRIPTION AND REMARKS
NO.	MOISTURE	REC	PID LEVELS (PPM)		
	(BLOWS)		HEADSPACE		
	DRY		0 CUTTINGS	0.0	0.0' - 5.0' GRAVEL, SILT, SAND SANDY SILT 5.0' - 7.0' BROWN-TAN SAND (5" LAYER DK SILT) 7.0' - 10.0' TAN-YELLOWISH SAND 10.0' - 12.0' TAN SAND - WATER BEARING
	DRY		0	5.0	
	DRY - SL MOIST		0 CUTTINGS	10.0	
SB-1	WET		0	12.0	
				15.0	TERMINATED BORING AT 12.0' *SOIL SAMPLE SB-1: 10.0' - 12.0' *GROUNDWATER ENCOUNTERED AT 11.0' *NO BEDROCK ENCOUNTERED *COULD NOT COLLECT WATER SAMPLE, DUE TO SAND FILLING IN AUGER
				20.0	
				25.0	
				25.0	
				25.0	

WATER LEVEL OBSERVATIONS	GENERAL INFORMATION	
WHILE DRILLING <u>11.0'▽</u>	START DATE <u>02/01/91</u>	COMPLETION DATE <u>02/01/91</u>
DEPTH TO WATER <u>----</u>	DRILLING METHOD: <u>HOLLOW STEM AUGER; SPLIT SPOON SAMPLING</u>	
DEPTH TO CAVE-IN <u>----</u>	LOGGER: <u><i>Peter C. Cavallo</i></u>	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location <u>SE 1/4 of SW 1/4 of Sec. 13 ; T. 1 N.; R. 19</u> <small>(If applicable)</small>	County <u>WASHINGTON</u>	Original Well Owner (If Known) <u>SERIGRAPH INC.</u>	
Gov't Lot _____	Grid Number _____	Present Well Owner	
Grid Location ft. <input type="checkbox"/> N. <input type="checkbox"/> S., <input type="checkbox"/> E. <input type="checkbox"/> W.		Street or Route	
Civil Town Name <u>WEST BEND</u>		Facility Well No. and/or Name (If Applicable) <u>B-1</u>	WI Unique Well No.
Street Address of Well <u>760 INDIANA AVE</u>		Reason For Abandonment <u>ENVIRONMENTAL SOIL BORING COMPLETED</u>	
City, Village <u>WEST BEND, WI</u>		Date of Abandonment <u>FEB 1, 1991</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION			
(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>FEB. 1, 1991</u>	(4) Depth to Water (Feet) <u>11.0</u>		
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole <input type="checkbox"/> Borehole Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____	Construction Report Available? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____		
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock <u>BORING</u> Total Well Depth (ft.) <u>12.0</u> Casing Diameter (ins.) <u>N/A</u> (From ground surface) Casing Depth (ft.) <u>N/A</u> Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? <u>N/A</u> Feet	Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input type="checkbox"/> No <u>N/A</u> If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No		
	(5) Required Method of Placing Sealing Material		
	<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____		
	(6) Sealing Materials	For monitoring wells and monitoring well boreholes only	
	<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input checked="" type="checkbox"/> Chipped Bentonite	<input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>BENTONITE CHIPS</u>	<u>Surface</u>	<u>12.0</u>	<u>3-4</u> <u>50/lb</u> <u>SACKS</u>	<u>100% BENTONITE</u>

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work
AQUA-TECH, INC.

Signature of Person Doing Work <u>Peter E. Pawalch</u>	Date Signed <u>2-22-91</u>
Street or Route <u>140 S. PARK ST.</u>	Telephone Number <u>(914) 284-5746</u>
City, State, Zip Code <u>PORT WASHINGTON, WI 53074</u>	

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

AQUA-TECH, INC 140 S. PARK ST. PORT WASHINGTON, WI 53074 TELEPHONE: (414) 284-5746 (414) 375-0407 (MILW METRO)	SOIL PROFILE LOG PROJECT: SERIGRAPH, INC LOCATION: 760 INDIANA AVENUE PROJECT#: _____ ATI WO#: 95036
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BORING <u>B-2</u>				SURFACE ELEVATION	
SAMPLES				DEPTH (FT)	DESCRIPTION AND REMARKS
NO.	MOISTURE	REC	PID LEVELS (PPM)		
	(BLOWS)		HEADSPACE		
	DRY		0 CUTTINGS	0.0	0.0' - 7.0' TAN SAND 7.0' - 10.0' DARK SILT YELLOWISH-TAN SAND 10.0' - 12.0' TAN SAND - WATER BEARING
	DRY-MOIST		0	5.0	
	DRY - MOIST		0 CUTTINGS	10.0	
SB-2	WET		0	12.0	
				15.0	TERMINATED BORING AT 12.0' *SOIL SAMPLE SB-2: 10.0' - 12.0' *GROUNDWATER ENCOUNTERED AT 11.0' *NO BEDROCK ENCOUNTERED
				20.0	
				25.0	
				25.0	
				25.0	

WATER LEVEL OBSERVATIONS	GENERAL INFORMATION
WHILE DRILLING <u>11.0'▽</u>	START DATE <u>02/01/91</u> COMPLETION DATE <u>02/01/91</u>
DEPTH TO WATER <u>----</u>	DRILLING METHOD: <u>HOLLOW STEM AUGER; SPLIT SPOON SAMPLING</u>
DEPTH TO CAVE-IN <u>----</u>	LOGGER: <u><i>Peter E. Pawelko</i></u>

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County WASHINGTON	Original Well Owner (If Known) SERIGRAPH INC.	
SE 1/4 of SW 1/4 of Sec. 13 ; T. 1 N.; R. 19 <input checked="" type="checkbox"/> E <input type="checkbox"/> W (If applicable)		Present Well Owner	
Gov't Lot	Grid Number	Street or Route	
Grid Location ft. <input type="checkbox"/> N. <input type="checkbox"/> S., ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		City, State, Zip Code	
Civil Town Name WEST BEND		Facility Well No. and/or Name (If Applicable) B-2	WI Unique Well No.
Street Address of Well 760 INDIANA AVE		Reason For Abandonment ENVIRONMENTAL SOIL BORING COMPLETED	
City, Village WEST BEND, WI		Date of Abandonment FEB 1, 1991	

WELL/DRILLHOLE/BOREHOLE INFORMATION	
(3) Original Well/Drillhole/Borehole Construction Completed On (Date) FEB. 1, 1991	(4) Depth to Water (Feet) 31.0
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole <input type="checkbox"/> Borehole Construction Report Available? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____	Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____ Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input type="checkbox"/> No N/A If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock BORING Total Well Depth (ft.) 12.0 Casing Diameter (ins.) N/A (From ground surface) Casing Depth (ft.) N/A Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? N/A Feet	(5) Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____ (6) Sealing Materials For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Sand Slurry <input checked="" type="checkbox"/> Chipped Bentonite

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
BENTONITE CHIPS	Surface	12.0	3-4 50/16 SACKS	100% BENTONITE

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work
AQUA-TECH, INC.

Signature of Person Doing Work Peter E. Pawalch	Date Signed 2-22-91
Street or Route 140 S. PARK ST.	Telephone Number (414) 284-5746
City, State, Zip Code PORT WASHINGTON, WI 53074	

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

AQUA-TECH, INC 140 S. PARK ST. PORT WASHINGTON, WI 53074 TELEPHONE: (414) 284-5746 (414) 375-0407 (MILW METRO)	SOIL PROFILE LOG PROJECT: SERIGRAPH, INC LOCATION: 760 INDIANA AVENUE PROJECT#: _____ ATI WO#: 95036
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BORING <u>B-3</u>				SURFACE ELEVATION	
SAMPLES				DEPTH (FT)	DESCRIPTION AND REMARKS
NO.	MOISTURE	REC	PID LEVELS (PPM)		
	(BLOWS)		HEADSPACE		
SB-3	DRY		50 CUTTINGS	0.0	0.0' - 5.0' GREY SAND 5.0' - 7.0' GREYISH-TAN SAND 7.0' - 10.0' TAN SAND 10.0' - 12.0' YELLOWISH-TAN SAND (WATER BEARING)
	DRY		25	5.0	
	DRY		15	7.0	
	MOIST			10.0	
	WET		0	11.0	
				12.0	TERMINATED BORING AT 12.0' *SOIL SAMPLE SB-3: 3.0' (FROM CUTTINGS = 50 PPM) *GROUNDWATER ENCOUNTERED AT 11.0' *NO BEDROCK ENCOUNTERED
				15.0	
				20.0	
				25.0	

WATER LEVEL OBSERVATIONS	GENERAL INFORMATION	
WHILE DRILLING <u>11.0'▽</u>	START DATE <u>02/01/91</u>	COMPLETION DATE <u>02/01/91</u>
DEPTH TO WATER <u>----</u>	DRILLING METHOD: <u>HOLLOW STEM AUGER; SPLIT SPOON SAMPLING</u>	
DEPTH TO CAVE-IN <u>----</u>	LOGGER: <u><i>Peter B. Swell</i></u>	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location <u>SE 1/4 of SW 1/4 of Sec. 13 ; T. 1 N; R. 19</u> <small>(If applicable)</small>	County <u>WASHINGTON</u>	Original Well Owner (If Known) <u>SERIGRAPH INC.</u>	
Gov't Lot _____ Grid Number _____		Present Well Owner	
Grid Location ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		Street or Route	
Civil Town Name <u>WEST BEND</u>		City, State, Zip Code	
Street Address of Well <u>760 INDIANA AVE</u>		Facility Well No. and/or Name (If Applicable) WI Unique Well No. <u>B-3</u> _____	
City, Village <u>WEST BEND, WI</u>		Reason For Abandonment <u>ENVIRONMENTAL SOIL BORING COMPLETED</u>	
		Date of Abandonment <u>FEB 1, 1991</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) Depth to Water (Feet) <u>12.0</u>	
(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>FEB. 1, 1991</u>		Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole <input type="checkbox"/> Borehole Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____		Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input type="checkbox"/> No <u>N/A</u> If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Construction Report Available? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		(5) Required Method of Placing Sealing Material	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock <u>BORING</u> Total Well Depth (ft.) <u>12.0</u> Casing Diameter (ins.) <u>N/A</u> (From ground surface) Casing Depth (ft.) <u>N/A</u>		<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? <u>N/A</u> Feet		(6) Sealing Materials For monitoring wells and monitoring well boreholes only	
		<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Granular Bentonite <input checked="" type="checkbox"/> Chipped Bentonite	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>BENTONITE CHIPS</u>	<u>Surface</u>	<u>12.0</u>	<u>3-4</u> <u>50/lb</u> <u>SACKS</u>	<u>100% BENTONITE</u>

(b) Comments: _____

(9) Name of Person or Firm Doing Sealing Work
AQUA-TECH, INC.

Signature of Person Doing Work <u>Peter E. Pawalch</u>	Date Signed <u>2-22-91</u>
Street or Route <u>140 S. PARK ST.</u>	Telephone Number <u>(414) 284-5746</u>
City, State, Zip Code <u>PORT WASHINGTON, WI 53074</u>	

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

AQUA-TECH, INC 140 S. PARK ST. PORT WASHINGTON, WI 53074 TELEPHONE: (414) 284-5746 (414) 375-0407 (MILW METRO)	SOIL PROFILE LOG PROJECT: SERIGRAPH, INC LOCATION: 760 INDIANA AVENUE PROJECT#: _____ ATI WO#: 95036
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BORING <u>B-4</u>				SURFACE ELEVATION	DESCRIPTION AND REMARKS
SAMPLES				DEPTH (FT)	
NO.	MOISTURE (BLOWS)	REC	PID LEVELS (PPM) HEADSPACE		
			70		0.0
	DRY		70	5.0	
	DRY		50	7.0	
SB-4	DRY		150	9.0	
				10.0	
	WET		140	11.0	
	WET		1	12.0	
				14.0	
				15.0	
				20.0	
				25.0	

WATER LEVEL OBSERVATIONS	GENERAL INFORMATION
WHILE DRILLING <u>11.0'▽</u>	START DATE <u>02/01/91</u> COMPLETION DATE <u>02/01/91</u>
DEPTH TO WATER <u>----</u>	DRILLING METHOD: <u>HOLLOW STEM AUGER; SPLIT SPOON SAMPLING</u>
DEPTH TO CAVE-IN <u>----</u>	LOGGER: <u><i>Peter J. Pawl</i></u>

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County WASHINGTON	Original Well Owner (If Known) SERIGRAPH INC.	
SE 1/4 of SW 1/4 of Sec. 13 ; T. 1 N.; R. 19 <input checked="" type="checkbox"/> E <input type="checkbox"/> W (If applicable)		Present Well Owner	
Gov't Lot	Grid Number	Street or Route	
Grid Location ft <input type="checkbox"/> N. <input type="checkbox"/> S., ft <input type="checkbox"/> E. <input type="checkbox"/> W.		City, State, Zip Code	
Civil Town Name WEST BEND		Facility Well No. and/or Name (If Applicable) B-4	WI Unique Well No.
Street Address of Well 760 INDIANA AVE		Reason For Abandonment ENVIRONMENTAL SOIL BORING COMPLETED	
City, Village WEST BEND, WI		Date of Abandonment FEB 1, 1991	

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) FEB. 1, 1991		(4) Depth to Water (Feet) 11.0	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole <input type="checkbox"/> Borehole	Construction Report Available? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____	Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock BORING	Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input type="checkbox"/> No N/A If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Total Well Depth (ft.) 14.0 Casing Diameter (ins.) N/A (From ground surface)	Casing Depth (ft.) N/A	(5) Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? N/A Feet		(6) Sealing Materials For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Granular Bentonite <input checked="" type="checkbox"/> Bentonite-Sand Slurry <input checked="" type="checkbox"/> Chipped Bentonite	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
BENTONITE CHIPS	Surface	14.0	3-4 50/lb SACKS	100% BENTONITE

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work AQUA-TECH, INC.	
Signature of Person Doing Work Peter E. Pawalko	Date Signed 2-22-91
Street or Route 140 S. PARK ST.	Telephone Number (414) 284-5746
City, State, Zip Code PORT WASHINGTON, WI 53074	

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

AQUA-TECH, INC 140 S. PARK ST. PORT WASHINGTON, WI 53074 TELEPHONE: (414) 284-5746 (414) 375-0407 (MILW METRO)	SOIL PROFILE LOG PROJECT: SERIGRAPH, INC LOCATION: 760 INDIANA AVENUE PROJECT#: _____ ATI WO#: 95036
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BORING <u>B-5</u>				SURFACE ELEVATION	
SAMPLES				DEPTH (FT)	DESCRIPTION AND REMARKS
NO.	MOISTURE (BLOWS)	REC	PID LEVELS (PPM) HEADSPACE		
				0.0	0.0' - 3.0' SAND
SB-5	DRY		2	5.0	3.0' - 5.0' SAND, TRACE OF FINE GRAVEL
	DRY		0	7.0	5.0' - 7.0' TAN SAND
	DRY-MOIST		0	9.0	7.0' - 9.0' BLACK SILT LAYER 7.0' - 8.0' YELLOW SAND
	WET		0	11.0	10.0' - 12.0' TAN, WATER BEARING SAND
				12.0	TERMINATED BORING AT 12.0'
				15.0	*SOIL SAMPLE SB-5: 3.0' - 5.0' *GROUNDWATER ENCOUNTERED AT 11.0' *NO BEDROCK ENCOUNTERED *NO GROUNDWATER SAMPLE COLLECTED
				20.0	
				25.0	

WATER LEVEL OBSERVATIONS	GENERAL INFORMATION
WHILE DRILLING <u>11.0'▽</u>	START DATE <u>02/01/91</u> COMPLETION DATE <u>02/01/91</u>
DEPTH TO WATER <u>----</u>	DRILLING METHOD: <u>HOLLOW STEM AUGER; SPLIT SPOON SAMPLING</u>
DEPTH TO CAVE-IN <u>----</u>	LOGGER: <u>Peter E. Pawelko</u>

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location <u>SE 1/4 of SW 1/4 of Sec. 13 ; T. 1 N; R. 19</u> (If applicable)	County <u>WASHINGTON</u>	Original Well Owner (If Known) <u>SERIGRAPH INC.</u>	Present Well Owner
Gov't Lot	Grid Number	Street or Route	
Grid Location ft. <input type="checkbox"/> N. <input type="checkbox"/> S., <input type="checkbox"/> E. <input type="checkbox"/> W.		City, State, Zip Code	
Civil Town Name <u>WEST BEND</u>		Facility Well No. and/or Name (If Applicable) <u>B-5</u>	WI Unique Well No.
Street Address of Well <u>760 INDIANA AVE</u>		Reason For Abandonment <u>ENVIRONMENTAL SOIL BORING COMPLETED</u>	
City, Village <u>WEST BEND, WI</u>		Date of Abandonment <u>FEB 1, 1991</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION	
(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>FEB. 1, 1991</u>	(4) Depth to Water (Feet) <u>11.0</u>
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole <input type="checkbox"/> Borehole Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____	Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____ Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input type="checkbox"/> No <u>N/A</u> If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock <u>BORING</u> Total Well Depth (ft.) <u>12.0</u> Casing Diameter (ins.) <u>N/A</u> (From ground surface) Casing Depth (ft.) <u>N/A</u> Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? <u>N/A</u> Feet	(5) Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____ (6) Sealing Materials For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Sand Slurry <input checked="" type="checkbox"/> Chipped Bentonite

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>BENTONITE CHIPS</u>	<u>Surface</u>	<u>12.0</u>	<u>3-4</u> <u>50/lb</u> <u>SACKS</u>	<u>100% BENTONITE</u>

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work <u>AQUA-TECH, INC.</u>	
Signature of Person Doing Work <u>Peter E. Pawalko</u>	Date Signed <u>2-22-91</u>
Street or Route <u>140 S. PARK ST.</u>	Telephone Number <u>(914) 284-5746</u>
City, State, Zip Code <u>PORT WASHINGTON, WI 53074</u>	

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

AQUA-TECH, INC 140 S. PARK ST. PORT WASHINGTON, WI 53074 TELEPHONE: (414) 284-5746 (414) 375-0407 (MILW METRO)	SOIL PROFILE LOG PROJECT: SERIGRAPH, INC LOCATION: 760 INDIANA AVENUE PROJECT#: _____ ATI WO#: 95036
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BORING <u>B-6</u>	SURFACE ELEVATION
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SAMPLES				DEPTH (FT)	DESCRIPTION AND REMARKS
NO.	MOISTURE (BLOWS)	REC	PID LEVELS (PPM) HEADSPACE		
			0 CUTTINGS		
	DRY		0	5.0	3.0' - 5.0' SAND
	DRY		0	5.0	5.0' - 7.0' SAND, SOME GRAVEL
	DRY		0 CUTTINGS	10.0	7.0' - 10.0' SAND
SB-6	WET		0	10.0 ▽	10.0' - 12.0' SAND
				12.0	TERMINATED BORING AT 12.0'
				15.0	*SOIL SAMPLE SB-6: 10.0' - 12.0' *GROUNDWATER ENCOUNTERED AT 11.0' *NO BEDROCK ENCOUNTERED *NO GROUNDWATER SAMPLE COLLECTED
				20.0	
				25.0	

WATER LEVEL OBSERVATIONS	GENERAL INFORMATION
WHILE DRILLING <u>11.0'▽</u>	START DATE <u>02/01/91</u> COMPLETION DATE <u>02/01/91</u>
DEPTH TO WATER <u>----</u>	DRILLING METHOD: <u>HOLLOW STEM AUGER; SPLIT SPOON SAMPLING</u>
DEPTH TO CAVE-IN <u>----</u>	LOGGER: <u><i>Peter Paul</i></u>

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location <u>SE 1/4 of SW 1/4 of Sec. 13 ; T. 1 N.; R. 19</u> <small>(If applicable)</small>	County <u>WASHINGTON</u>	Original Well Owner (If Known) <u>SERIGRAPH INC.</u>	
Gov't Lot _____	Grid Number _____	Present Well Owner	
Grid Location ft. <input type="checkbox"/> N. <input type="checkbox"/> S., <input type="checkbox"/> E. <input type="checkbox"/> W.		Street or Route	
Civil Town Name <u>WEST BEND</u>		Facility Well No. and/or Name (If Applicable) <u>B-6</u>	WI Unique Well No. _____
Street Address of Well <u>760 INDIANA AVE</u>		Reason For Abandonment <u>ENVIRONMENTAL SOIL BORING COMPLETED</u>	
City, Village <u>WEST BEND, WI</u>		Date of Abandonment <u>FEB 1, 1991</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION			
(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>FEB. 1, 1991</u>	Construction Report Available? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(4) Depth to Water (Feet) <u>11.0</u>	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole <input type="checkbox"/> Borehole		Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____		Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input type="checkbox"/> No <u>N/A</u> If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock <u>BORING</u>		(5) Required Method of Placing Sealing Material	
Total Well Depth (ft.) <u>12.0</u> Casing Diameter (ins.) <u>N/A</u> (From ground surface)		<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____	
Casing Depth (ft.) <u>N/A</u>		(6) Sealing Materials	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? <u>N/A</u> Feet		<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input checked="" type="checkbox"/> Chipped Bentonite	
		For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>BENTONITE CHIPS</u>	<u>Surface</u>	<u>12.0</u>	<u>3-4</u> <u>50/lb</u> <u>SACKS</u>	<u>100% BENTONITE</u>

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work
AQUA-TECH, INC.

Signature of Person Doing Work <u>Peter E. Pawalch</u>	Date Signed <u>2-22-91</u>
Street or Route <u>140 S. PARK ST.</u>	Telephone Number <u>(414) 284-5746</u>
City, State, Zip Code <u>PORT WASHINGTON, WI 53074</u>	

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

AQUA-TECH, INC 140 S. PARK ST. PORT WASHINGTON, WI 53074 TELEPHONE: (414) 284-5746 (414) 375-0407 (MILW METRO)	SOIL PROFILE LOG PROJECT: SERIGRAPH, INC LOCATION: 760 INDIANA AVENUE PROJECT#: ATI WO#: 95036
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BORING <u>B-7</u>				SURFACE ELEVATION		
SAMPLES					DEPTH (FT)	DESCRIPTION AND REMARKS
NO.	MOISTURE	REC	PID LEVELS (PPM)	HEADSPACE		
	(BLOWS)					
			0 CUTTINGS		0.0	0.0' - 7.0' TAN SAND 7.0' - 10.0' BLACK SILT, SAND 10.0' - 12.0' TAN-YELLOWISH SAND
	DRY		0 CUTTINGS		5.0	
	DRY		0		10.0	
	DRY		0 CUTTINGS		11.0	
SB-7	WET		0		12.0	
					15.0	TERMINATED BORING AT 12.0' *SOIL SAMPLE SB-7: 10.0' - 12.0' *GROUNDWATER ENCOUNTERED AT 11.0' *NO BEDROCK ENCOUNTERED *NO GROUNDWATER SAMPLE COLLECTED
					20.0	
					25.0	
					25.0	

WATER LEVEL OBSERVATIONS	GENERAL INFORMATION	
WHILE DRILLING <u>11.0'▽</u>	START DATE <u>02/01/91</u>	COMPLETION DATE <u>02/01/91</u>
DEPTH TO WATER <u>----</u>	DRILLING METHOD: <u>HOLLOW STEM AUGER; SPLIT SPOON SAMPLING</u>	
DEPTH TO CAVE-IN <u>----</u>	LOGGER: <u><i>Peter Pawalter</i></u>	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County WASHINGTON	Original Well Owner (If Known) SERIGRAPH INC.	Present Well Owner
SE 1/4 of SW 1/4 of Sec. 13 ; T. 1 N.; R. 19 <input checked="" type="checkbox"/> E <input type="checkbox"/> W (If applicable)		Street or Route	
Gov't Lot	Grid Number	City, State, Zip Code	
Grid Location ft. <input type="checkbox"/> N. <input type="checkbox"/> S., ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		Facility Well No. and/or Name (If Applicable) WI Unique Well No. B-7 _____	
Civil Town Name WEST BEND		Reason For Abandonment ENVIRONMENTAL SOIL BORING COMPLETED	
Street Address of Well 760 INDIANA AVE		Date of Abandonment FEB 1, 1991	
City, Village WEST BEND, WI			

WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) Depth to Water (Feet) 11.0	
(3) Original Well/Drillhole/Borehole Construction Completed On (Date) FEB. 1, 1991		Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	
<input type="checkbox"/> Monitoring Well	Construction Report Available? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	
<input type="checkbox"/> Water Well Drillhole		Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	
<input type="checkbox"/> Borehole		Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug		If No, Explain _____	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No	
BORING Total Well Depth (ft.) 12.0 Casing Diameter (ins.) N/A (From ground surface)		Did Sealing Material Rise to Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No N/A	
Casing Depth (ft.) N/A		Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input type="checkbox"/> No N/A	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? N/A Feet		If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		(5) Required Method of Placing Sealing Material	
		<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
		<input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain)	
		(6) Sealing Materials	
		For monitoring wells and monitoring well boreholes only	
		<input type="checkbox"/> Neat Cement Grout	
		<input type="checkbox"/> Sand-Cement (Concrete) Grout	
		<input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Pellets	
		<input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Granular Bentonite	
		<input type="checkbox"/> Bentonite-Sand Slurry	
		<input checked="" type="checkbox"/> Chipped Bentonite	

(7) Sealing Material Used	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
BENTONITE CHIPS	Surface	12.0	3-4 50/16 SACKS	100% BENTONITE

(b) Comments: _____

(9) Name of Person or Firm Doing Sealing Work
AQUA-TECH, INC.

Signature of Person Doing Work Peter E. Pawalch	Date Signed 2-22-91
Street or Route 140 S. PARK ST.	Telephone Number (414) 284-5746
City, State, Zip Code PORT WASHINGTON, WI 53074	

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

AQUA-TECH, INC 140 S. PARK ST. PORT WASHINGTON, WI 53074 TELEPHONE: (414) 284-5746 (414) 375-0407 (MILW METRO)	SOIL PROFILE LOG PROJECT: SERIGRAPH, INC LOCATION: 760 INDIANA AVENUE PROJECT#: ATI WO#: 95036
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BORING B-8				SURFACE ELEVATION	
SAMPLES				DEPTH (FT)	DESCRIPTION AND REMARKS
NO.	MOISTURE	REC	PID LEVELS (PPM)		
	(BLOWS)		HEADSPACE		
	DRY		0 CUTTINGS	0.0	0.0' - 12.0' SAND
	DRY		0	5.0	
			0		
			0 CUTTINGS		
SB-8	WET		0	10.0 ▽	
				12.0	TERMINATED BORING AT 12.0' *SOIL SAMPLE SB-8: 10.0' - 12.0' *GROUNDWATER ENCOUNTERED AT 11.0' *NO BEDROCK ENCOUNTERED *NO GROUNDWATER SAMPLE COLLECTED
				15.0	
				20.0	
				25.0	

WATER LEVEL OBSERVATIONS	GENERAL INFORMATION	
WHILE DRILLING <u>11.0'▽</u>	START DATE <u>02/01/91</u>	COMPLETION DATE <u>02/01/91</u>
DEPTH TO WATER <u>----</u>	DRILLING METHOD: <u>HOLLOW STEM AUGER; SPLIT SPOON SAMPLING</u>	
DEPTH TO CAVE-IN <u>----</u>	LOGGER: <u><i>P. J. E. Parola</i></u>	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County WASHINGTON	Original Well Owner (If Known)	SERIGRAPH INC.
SE 1/4 of SW 1/4 of Sec. 13 ; T. 1 N.; R. 19 E (If applicable)		Present Well Owner	
Gov't Lot	Grid Number	Street or Route	
Grid Location ft. <input type="checkbox"/> N. <input type="checkbox"/> S., <input type="checkbox"/> E. <input type="checkbox"/> W.		City, State, Zip Code	
Civil Town Name WEST BEND		Facility Well No. and/or Name (If Applicable)	B-8
Street Address of Well 760 INDIANA AVE		WI Unique Well No.	
City, Village WEST BEND, WI		Reason For Abandonment	ENVIRONMENTAL SOIL BORING COMPLETED
		Date of Abandonment	FEB 1, 1991

WELL/DRILLHOLE/BOREHOLE INFORMATION	
(3) Original Well/Drillhole/Borehole Construction Completed On (Date) FEB. 1, 1991	(4) Depth to Water (Feet) 11.0
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole <input type="checkbox"/> Borehole Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____	Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____ Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input type="checkbox"/> No N/A If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No
Construction Report Available? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock BORING Total Well Depth (ft.) 12.0 Casing Diameter (ins.) N/A (From ground surface) Casing Depth (ft.) N/A Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? N/A Feet	(5) Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____
	(6) Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input checked="" type="checkbox"/> Chipped Bentonite For monitoring wells and monitoring well boreholes only: <input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite

(7) Sealing Material Used	From (Fl.)	To (Fl.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
BENTONITE CHIPS	Surface	12.0	3-4 50/16 SACKS	100% BENTONITE

(b) Comments: _____

(9) Name of Person or Firm Doing Sealing Work AQUA-TECH, INC.	
Signature of Person Doing Work Peter E. Pawaluk	Date Signed 2-22-91
Street or Route 140 S. PARK ST.	Telephone Number (914) 284-5746
City, State, Zip Code PORT WASHINGTON, WI 53074	

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

AQUA-TECH, INC

140 S. PARK ST.

PORT WASHINGTON, WI 53074

TELEPHONE:

(414) 284-5746

(414) 375-0407 (MILW METRO)

SOIL PROFILE LOG

PROJECT: SERIGRAPH, INC

LOCATION: 760 INDIANA AVENUE

PROJECT#:

ATI WO#: 95036

BORING B-9

SURFACE ELEVATION

SAMPLES

DESCRIPTION AND REMARKS

NO.	MOISTURE	REC	PID LEVELS (PPM)	DEPTH (FT)	
	(BLOWS)		HEADSPACE		
	DRY			0.0	0.0' - 10.0' SAND
	DRY		0		
	DRY		0	5.0	
	DRY		0 CUTTINGS		
SB-9	WET		0	10.0	10.0' - 12.0' BLACK SILT, SAND
				12.0	TERMINATED BORING AT 12.0' *SOIL SAMPLE SB-9: 10.0' - 12.0' *GROUNDWATER ENCOUNTERED AT 11.0' *NO BEDROCK ENCOUNTERED *NO GROUNDWATER SAMPLE COLLECTED
				15.0	
				20.0	
				25.0	

WATER LEVEL OBSERVATIONS

GENERAL INFORMATION

WHILE DRILLING 11.0'▽

START DATE 02/01/91

COMPLETION DATE 02/01/91

DEPTH TO WATER ----

DRILLING METHOD: HOLLOW STEM AUGER; SPLIT SPOON SAMPLING

DEPTH TO CAVE-IN ----

LOGGER: *Peter E. Swell*

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location <u>SE 1/4 of SW 1/4 of Sec. 13 ; T. 1 N; R. 19</u> <small>(If applicable)</small>	County <u>WASHINGTON</u>	Original Well Owner (If Known) <u>SERIGRAPH INC.</u>	
Gov't Lot _____ Grid Number _____		Present Well Owner	
Grid Location ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		Street or Route	
Civil Town Name <u>WEST BEND</u>		City, State, Zip Code	
Street Address of Well <u>760 INDIANA AVE</u>		Facility Well No. and/or Name (If Applicable) <u>B-9</u>	WI Unique Well No. _____
City, Village <u>WEST BEND, WI</u>		Reason For Abandonment <u>ENVIRONMENTAL SOIL BORING COMPLETED</u>	
		Date of Abandonment <u>FEB 1, 1991</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) Depth to Water (Feet) <u>11.0</u>	
(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>FEB. 1, 1991</u>		Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole <input type="checkbox"/> Borehole Construction Report Available? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____		Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input type="checkbox"/> No <u>N/A</u> If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock <u>BORING</u> Total Well Depth (ft.) <u>12.0</u> Casing Diameter (ins.) <u>N/A</u> (From ground surface) Casing Depth (ft.) <u>N/A</u> Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? <u>N/A</u> Feet		(5) Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____	
		(6) Sealing Materials For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Sand Slurry <input checked="" type="checkbox"/> Chipped Bentonite	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
<u>BENTONITE CHIPS</u>	<u>Surface</u>	<u>12.0</u>	<u>3-4</u> <u>50/16</u> <u>SACKS</u>	<u>100% BENTONITE</u>

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work
AQUA-TECH, INC.
 Signature of Person Doing Work: Peter E. Pawalch Date Signed: 2-22-91
 Street or Route: 140 S. PARK ST. Telephone Number: (414) 284-5746
 City, State, Zip Code: PORT WASHINGTON, WI 53074

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	
Follow-up Necessary	

APPENDIX C

AQUA-TECH

ANALYTICAL LABORATORY REPORT

Sample #: W3622 A-I
 Customer: Scrigraph, Inc
 Date Sampled: 2-1-91
 Date Received: 2-4-91
 Date Wanted: 2-15-91

Lab Director Approval: [Signature]
 WDF 95036 2-20-91

Sample Description

PARAMETER	A SB-1	B SB-2	C SB-3	D SB-4	Tech ID	Date Analysis Completed	
Total Solids	78%	83%	94%	84%	SB	2-5-91	
TPH - Gas	ND (1.0 µg/g)	ND (1.0 µg/g)	30 µg (1.0)	198 µg/g (10)	72M	2-11-91	
TPH - Diesel	ND (10 µg/g)	ND (10 µg/g)	2170 µg/g (10)	10770 µg/g (10)	42M	2-22-91	
TPH - Fuel Oil	*	*	*	*			
Benzene	 	 	 	ND (0.40 µg/g)	22	2-16-91	
Toluene	 	 	 	1.3 µg/g			
Ethylbenzene	 	 	 	1.5			
Xylene	 	 	 	37 µg/g			
	E SB-5	F SB-6	G SB-7	H SB-8			
Total Solids	95%	89%	88%	89%	SB	2-5-91	
TPH - Gas	ND (1.0 µg/g)	ND (1.0 µg/g)	ND (1.0 µg/g)	ND (1.0 µg/g)	72M	2-11-91	
TPH - Diesel	14 µg/g (10)	ND (10 µg/g)	ND (10 µg/g)	ND (10 µg/g)	42M	2-22-91	
TPH - Fuel Oil	*	*	*	*			
	I SB-9	* Under the conditions of analysis, diesel fuel cannot be separated from #2 Fuel Oil; all results were quantitated as diesel fuel					
Total Solids	92%					SB	2-5-91
TPH - Gas	ND (1.0 µg/g)					72M	2-12-91
TPH - Diesel	ND (10 µg/g)					42M	2-22-91
TPH - Fuel Oil	*						

Monroe P. Termini

Use Black Ink Only, Press Hard

PROJ. NO 95036 PROJECT NAME SERIGRAPH INC

SAMPLERS: (Signature) *Pete Paualko*

ATI Lab No.	Yr 91 Date	Time	Sample Station ID	DEPTH	Total Number of Containers	Analysis	Comments
<u>W3622A</u>	<u>2-1</u>	<u>9:00am</u>	<u>SB-1</u>	<u>10-12</u>	<u>1</u>	<u>X X</u>	<u>0</u>
<u>B</u>	<u>2-1</u>	<u>10:00am</u>	<u>SB-2</u>	<u>10-12</u>	<u>1</u>	<u>X X</u>	<u>0</u>
<u>C</u>	<u>2-1</u>	<u>10:15am</u>	<u>SB-3</u>	<u>~ 3' Composite</u>	<u>1</u>	<u>X X</u>	<u>50</u>
<u>D</u>	<u>2-1</u>	<u>11:30am</u>	<u>SB-4</u>	<u>7-9</u>	<u>2</u>	<u>X X X</u>	<u>150</u>
<u>E</u>	<u>2-1</u>	<u>1:15p</u>	<u>SB-5</u>	<u>3-5</u>	<u>1</u>	<u>X X</u>	<u>2</u>
<u>F</u>	<u>2-1</u>	<u>2:00p</u>	<u>SB-6</u>	<u>10-12</u>	<u>1</u>	<u>X X</u>	<u>0</u>
<u>G</u>	<u>2-1</u>	<u>2:45p</u>	<u>SB-7</u>	<u>10-12</u>	<u>1</u>	<u>X X</u>	<u>0</u>
<u>H</u>	<u>2-1</u>	<u>3:30p</u>	<u>SB-8</u>	<u>10-12</u>	<u>1</u>	<u>X X</u>	<u>0</u>
<u>I</u>	<u>2-1</u>	<u>3:45p</u>	<u>SB-9</u>	<u>10-12</u>	<u>1</u>	<u>X X</u>	<u>0</u>

Total Number of Containers	All soils										Filtered (Yes/No)
											Preserved (Code)
											Refrigerated (Yes/No)
											Sample type (Grab/Composite)
											Sample sources (WW, GW, DW, other)
											Preservation Code: A - None - NaOH B - HNO3 - HCL C - H2SO4 -
Analysis											Comments: <u>140ppm</u>

Relinquished by: (Signature) <u><i>Pete Paualko</i></u>	Date / Time <u>2-1-91 5:15pm</u>	Received by: (Signature) _____	Date / Time _____
Relinquished by: (Signature) _____	Date / Time _____	Received by: (Signature) _____	Date / Time _____
Relinquished by: (Signature) _____	Date / Time _____	Received for Laboratory by: (Signature) <u><i>Peter Olson</i></u>	Date / Time <u>2-4-91 11:20</u>

Report to: PETE PAUALKO
 Name _____
 Street _____
 City _____ State _____ Zip _____
 Phone no. () _____
 Fax no. () _____

Remarks: RETURN SIGNED C of C WITH RESULTS

Receipt pH _____
 Receipt temp _____

APPENDIX D

APPENDIX D

SERIGRAPH, INC.

ESTIMATE* OF REMEDIATION COSTS

FOR LANDFILL DISPOSAL

	<u>Unit Cost</u>	<u>Total Cost</u>
Soil sample collection and laboratory analyses required for landfill approval		\$ 550.00
Landfill disposal of 4,000 tons (2850 yd ³) of contaminated soil	\$30.60/ton	\$122,400.00
Excavation and transportation of 4,000 tons of contaminated soil to Parkview Landfill	\$8.00/ton	\$ 32,000.00
Backfill and compaction of 4,000 tons of crushed gravel fill	\$8.00/ton	\$ 32,000.00
Aqua-Tech professional field services		\$ 3,300.00
30 soil analyses (TPH) per WDNR protocol to verify contamination removal	\$110/sample	\$ 3,300.00
Consulting with WDNR and Report Preparation (25 hours)	\$50/hour	<u>\$ 1,250.00</u>
	<u>TOTAL</u>	<u>\$194,800.00</u>

* The cost estimate presented above does not constitute a formal contract and is provided for a relative comparison to asphalt incorporation costs.

APPENDIX E

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APPENDIX E

SERIGRAPH, INC.

ESTIMATE* OF REMEDIATION COSTS

FOR ASPHALT DISPOSAL

	<u>Unit Cost</u>	<u>Total Cost</u>
Collection and Analyses of additional soil samples per Payne and Dolan requirements		\$ 450.00
Asphalt Plant disposal of 4,000 tons (2850 yd ³) of contaminated soil	\$51.75/ton	\$207,000.00
Excavation and transportation of 4,000 tons of contaminated soil to Payne & Dolan, Inc.	\$9.50/ton	\$ 38,000.00
Backfill and compaction of 4,000 tons of crushed gravel fill	\$8.00/ton	\$ 32,000.00
Aqua-Tech professional field services		\$ 3,300.00
30 soil analyses (TPH) per WDNR protocol to verify contamination	\$110/sample	\$ 3,300.00
Consulting with WDNR and Report Preparation (25 hours)	\$50.00/hour	<u>\$ 1,250.00</u>
	TOTAL	\$285,300.00

* The cost estimate presented above does not constitute a formal contract, and is provided for a relative comparison to landfilling costs.



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Carroll D. Basadny
Secretary

Box 12436
Milwaukee, Wisconsin 53212
Fax: (414) 562-1258

March 13, 1991

File Ref: 4440

Mr. Tom Ravn
Serigraph, Inc
760 Indiana Avenue
West Bend, WI 53095

Dear Mr. Ravn:

RE: Serigraph, Inc #2, 760 Indiana Av, West Bend, WI 53095

The Wisconsin Department of Natural Resources (WDNR) has been notified that petroleum contamination was discovered January 18, 1991 at the above referenced location. Jeffrey Fischer, the Leaking Underground Storage Tank (LUST) Project Manager for your area, may be reached at the above address or at (414) 263-8655. Based on the site specific information provided, this case has been assigned to the Medium Priority Rank group. The purpose of this letter is to inform you of your legal responsibilities to address this situation.

Releases from underground storage tanks regulated under Subtitle I of the Resource Conservation and Recovery Act require compliance with the provisions of 40 CFR Parts 280 and 281. The Environmental Protection Agency (EPA) has the authority to take enforcement action at any time, but will generally not take action against parties cooperating with the state. The WDNR proceeds in LUST cases under the authority of s. 144.76, Wisconsin Statutes, commonly referred to as Wisconsin's Hazardous Substance Spill Law. The definition of "hazardous substance" as found in s. 144.01(4m), Wisconsin Statutes, includes petroleum products.

Wisconsin Statute 144.76(2a) states: "A person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall notify the Department immediately of any discharge not exempted under sub.(9)."

Wisconsin Statute 144.76(3) states: "A person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of this state."

Because you possess or control a hazardous substance which has been released to the environment, the Department identifies you as the party responsible for taking the actions necessary to restore the environment. You are required to:

1. Immediately notify your WDNR Project Manager, or the Spills Hotline at (414) 562-9615 should emergency conditions involving explosive vapors and/or well contamination develop.
2. Conduct an investigation to determine the extent of soil and groundwater

contamination.

3. Remediate all of the environmental impacts caused by this situation.

The Department suggests that you have a qualified environmental engineer or hydrogeologist direct the remedial investigation, assess the environmental impact, and coordinate the implementation of a cleanup program. . Within 15 days of receiving this letter, you should provide your WDNR Project Manager with the date the remedial investigation will begin.

In accordance with NR 141.23 and NR 141.25 The Department requires that the location of the tank and/or release be submitted with the work plan. Requirements for location are Latitude, Longitude, 1/4, 1/4, Township, and Range (east or west).

Final documentation of the investigation and cleanup should be prepared according to the guidance enclosed and sent to this office on completion of the project. Remedial actions must adequately cleanup contaminated soil and/or groundwater to current WDNR guidelines and/or standards. All product, soil, wastewater, and sludge must be disposed of in compliance with all applicable federal, state and local laws and regulations. Because the Department is experiencing a backlog of leaking underground storage tank cases of emergency status and your case is not currently ranked as an emergency, your submittals will be reviewed as time permits. Investigation and cleanup should not, however, be delayed pending WDNR review.

You are encouraged to contact the Department of Industry, Labor, and Human Relations (DILHR), the state agency that administers the Petroleum Environmental Cleanup Fund (PECFA). This fund may reimburse you for eligible costs associated with the remedial investigation and cleanup. DILHR should be contacted at (608) 267-4545 to obtain current information regarding the PECFA program.

Your cooperation in this matter will be appreciated. Please be aware that your ability to use PECFA funds is dependent on your cooperation in adequately addressing this problem. If you have any questions, please contact your WDNR Project Manager.

Sincerely,



Sharon Graham
Program Assistant, Environmental Repair Section

Enclosures: Remedial Investigation Checklist
. Application to Treat or Dispose of Petroleum Contaminated Soil

c: Peter Pavalko, Aqua-Tech, Inc
SED Case File

RECEIVED

MAR 29 1999

PECFA SITE REVIEW
MILWAUKEE OFFICE

N. KOCHIS

UID Number: 1408 FID Number: 267083850 PMN Number: _____

County: WASHINGTON Initial Contact Date: 3.4.91
Site Name: SERIGRAPH #2 Date RPLetter Sent: 3.13.91
Address: 760 INDIANA AVE Date Closure Approved: 5.21.99

Municipality: WEST BEND WI Person/Firm Reporting: _____

Legal Description: SE 1/4 SW 1/4 sec. 13 - 1 NR 19 (BWI) Phone Number: (____) _____

Lat.: _____ Long.: _____

Priority Screening	Scoring Criteria	Funding Source	Effective Date	LUST Trust Eligible
<input checked="" type="checkbox"/> 1 = High	1. _____	<input checked="" type="checkbox"/> 1 = RP	____/____/____	___ 1 = Federal
<input checked="" type="checkbox"/> 2 = Medium	2. _____	___ 2 = LTF	____/____/____	___ 2 = Non-Federal
___ 3 = Low	3. _____	___ 3 = EF	____/____/____	
___ 4 = Unknown	4. _____	___ 4 = Other	____/____/____	
	5. _____			

Score: 22 Init: MRK Date: 7.1.96

Case Status

	Start Date	End Date
<input type="checkbox"/> F) Free Product Removal	____/____/____	____/____/____
<input type="checkbox"/> E) RP Emergency Response	____/____/____	____/____/____
<input type="checkbox"/> R) LTF Emergency Response	____/____/____	____/____/____
<input type="checkbox"/> L) Long Term Monitoring	____/____/____	____/____/____

Responsible Party	Impacts
Company Name: <u>SERIGRAPH CORP.</u>	Enter "P" for potential and "K" for known
Contact Person: <u>TOM RAVN</u>	___ (1) Fire/Explosion Threat
Address: <u>760 INDIANA AVE</u>	___ (2) Contaminated Private Well(s), _____ # of Wells
<u>W. BEND, WI 53095</u>	___ (3) Contaminated Public Well
Phone Number: <u>(414) 335-7343</u>	___ (4) Groundwater Contamination
CC's: _____	<input checked="" type="checkbox"/> (5) Soil Contamination
_____	___ (6) Other: _____
_____	___ (7) Surface Water Impacts
_____	___ (9) Floating Product

Consultant	Substances	ASTs	# Tank(s)	Size
Company Name: <u>ADVENT</u>	___ (1) Leaded Gas			
Contact Name: <u>PETER PAVALKO</u>	___ (2) Unleaded Gas			
Address: <u>6100 W. EXECUTIVE DR. SUITE E</u>	<input checked="" type="checkbox"/> (3) Diesel		<u>7 or 8</u>	<u>20,000 g.</u>
<u>MEQUON WI 53092</u>	<input checked="" type="checkbox"/> (4) Fuel Oil			
Telephone: <u>(414) 238-1998</u>	___ (5) Unkwn Hydrocrbn			
	___ (8) Other: _____			
	___ (12) Waste Oil			

REMARKS:

Contamination discovered during
installation of soil borings. Borings were part
of Phase III site assessment regarding former
ASTs located on NW part of subject site.

gw encountered at 11' in borings

PRIORITY SCREENING WORKSHEET

HIGH FACTORS: (DEFINITION: Any case which presents an actual threat to human health, or has a high potential of causing a threat to human health and property; and/or any case which has caused or has a high potential of causing substantial impacts to the soil, waters and air of the State of Wisconsin.)

EMERGENCY FACTORS:

- Contaminated private or public well >NR 140 enf. sta.
- Explosive or toxic vapors in structures
- Threat of fire

HIGH FACTORS:

- Floating product (including sheen)
- GW contamination (>140 enf. sta.)
- Impacted surface water - - wetland, trout stream, etc. impacted
- Saturated soil contamination posing a risk to groundwater

MEDIUM FACTORS: (DEFINITION: Any case which does not appear to be an immediate threat to human health or vital natural resources but which shows levels of contamination that may cause substantial environmental impacts if left unaddressed.)

- Moderate soil contamination with potential for impacting groundwater.
- Impacted surface water - - no critical habitat threats.
- Groundwater contamination >NR 140 PAL.

LOW FACTORS: (DEFINITION: Any case where contamination has been documented, but which presents limited potential for immediate threat to human health and vital natural resources.)

- Soil contamination which appears to have a limited potential for impacting groundwater.
- Initial Remedial action has substantially reduced environmental threat.

UNKNOWN FACTORS: (DEFINITION: Any case where some indication of contamination is present, but due to incomplete or inaccurate information the level of threat to human health or the environment can not be assessed at this time.)

- Inadequate information to assign a high, medium, or low ranking.

NUMERICAL LUST SCORING WORKSHEET

1. **GROUNDWATER & SOILS:**

POINTS:

- 20 Municipal well impacted
- 18 >6 private wells impacted
- 16 4 - 6 private wells impacted
- 14 2 - 3 private wells impacted
- 12 1 private well impacted

Points:

- 10 Major soil and/or gw >ES within 1200' of a public well
- 8 Major soil and/or gw >ES within 1200' of one or more private wells
- 6 Groundwater contamination >ES
- 4 Groundwater contamination <ES
- 2 Soil contamination

POTENTIAL - FROM OFF SITE

For purposes of this scoring, private well includes any non-municipal water supply system (e.g. non-community and other than municipal)

2. **EXPLOSIVE OR TOXIC VAPORS:**

POINTS:

CONFIRMED
20
16
12

POTENTIAL

10
8
6

- Explosive levels in a residence or building
- Explosive levels in a sewer or other confined space
- Toxic levels in a residence or building

NOTE: Explosive levels determined to be >10% LEL as per an explosivity meter, toxicity levels are based on OSHA permissible exposure limits (PEL's)

3. **SURFACE WATER IMPACTS:**

POINTS:

CONFIRMED
14
10
6

POTENTIAL

7
5
3

- Visible sheen or product on sensitive surface water environment (e.g. wetland, trout stream)
- Visible sheen or product on non-sensitive surface water area.
- Exceedance of NR 102, 103 or 104 surface water quality standards.

Request assistance from District Water Resources staff in evaluating surface water impacts.

4. **HYDROGEOLOGIC SETTING:**

Points:

- 12 Permeable stratigraphy (gravel, sand, fractured bedrock or utilities capable of intercepting and directing flow) and groundwater within 25 feet of the ground surface.
- 10 Permeable stratigraphy and groundwater greater than 25 feet below ground surface.
- 8 Moderately permeable stratigraphy (silty sands, silty gravel, clayey sands) and groundwater within 25 feet of ground surface.
- 6 Moderately permeable stratigraphy and groundwater greater than 25 feet below ground surface.
- 4 Low permeability stratigraphy (silt, clayey silt, sand clays) and groundwater within 25 feet of ground surface.
- 2 Low permeability stratigraphy and groundwater greater than 25 feet below ground surface.

5. **TYPE OF PRODUCT:**

POINTS:

FREE PRODUCT
12
10

DISSOLVED PRODUCT

8
6

- Gasoline, mixture of gasoline and other products, other light petroleum products
- Diesel, fuel oil.

1408

PHN#: _____ FID#: _____
PROJECT MGR: J. Fischer
SUPPORT PERSON: _____
DISTRICT: SED COUNTY: Wash HNDI: _____

SITE NAME: Scitograph, Inc #2
ADDRESS: 760 Indiana Av
West Bend 53095 TN CITY VIL
LEGAL DESC: 1/4 1/4 SEC T R E/W

DATE OF INITIAL CONTACT: 03/04/91 (mo day yr) 1991
DATE OF RP LETTER: 03/13/91 (mo day yr)
DATE SITE CLOSURE APPROVED: / / (mo day yr)

LUST TRUST ELIGIBLE: (X)
 1 = FEDERAL
 2 = NON-FEDERAL
STATUS: (X)
 1 = STATE LEAD
 2 = RP LEAD

PRIORITY SCREENING: (X)
 1 = HIGH SCORE: _____
 2 = MEDIUM
 3 = LOW
 4 = UNKNOWN
(see worksheet on back)

FUNDING SOURCE: (X)
 1 = RESPONSIBLE PARTY
 2 = LUST TRUST FUND
 3 = ENVIRONMENTAL RESPONSE FUND
 4 = SUPER FUND
 5 = NONE
 6 = OTHER _____

(X AS APPROPRIATE)	DATE INITIATED (MO DAY YR)	DATE COMPLETED (MO DAY YR)	COMMENTS:
<input type="checkbox"/> NO ACTION TAKEN	___/___/___	___/___/___	_____
<input type="checkbox"/> EMERGENCY	___/___/___	___/___/___	_____
<input type="checkbox"/> EMERGENCY RESPONSE	___/___/___	___/___/___	_____
<input checked="" type="checkbox"/> FIELD INVESTIGATION	<u>01/18/91</u>	<u>01/31/91</u>	<u>interviews being</u>
<input type="checkbox"/> REMEDIAL ACTION	___/___/___	___/___/___	_____
<input type="checkbox"/> LONG TERM MONITORING	___/___/___	___/___/___	_____

FIRM OR PERSON RESPONSIBLE: None
CONTACT: Tom RAVN
ADDRESS: _____
PHONE: 414/335-7343
(list additional on separate list & attach)

CONSULTANT: Equaled, Inc
CONTACT: Peter Pawalko
ADDRESS: _____
PHONE: 7171
AMOUNT COMMITTED: \$ _____ AMOUNT SPENT: \$ _____
(list additional on separate list & attach)

PECFA REVIEW REQUESTED: (X) YES NO

DATE PECFA REQUEST RECEIVED: (mo day yr) ___/___/___

	KNOWN IMPACTS: (X)	POTENTIAL IMPACTS: (X)
FIRE/EXPLOSION THREAT	___	___
CONTAMINATED PRIVATE WELL	___	___
CONTAMINATED PUBLIC WELL	___	___
GROUNDWATER CONTAMINATION	___	<input checked="" type="checkbox"/>
SOIL CONTAMINATION	<input checked="" type="checkbox"/>	___
OTHER: _____	___	___

SUBSTANCES: (X)	QUANTITY DISCHARGED: (gals)
<input type="checkbox"/> LEADED GAS	<input type="checkbox"/> VOCs
<input type="checkbox"/> UNLEADED GAS	<input type="checkbox"/> PESTICIDE
<input type="checkbox"/> DIESEL	
<input type="checkbox"/> FUEL OIL	
<input checked="" type="checkbox"/> UNKNOWN HYDROCARBONS	
<input type="checkbox"/> OTHER _____	

ENFORCEMENT ACTION TAKEN

- 01=INF. CONTACT, RESP INITIATED
- 06=INSPECTION LETTER
- 14=NOTICE OF VIOLATION
- 23=REFERRAL TO DOJ
- 02=RP LETTER, RESP INITIATED
- 07=RESPONSE RECEIVED
- 18=ADMIN. ORDER FINAL
- 25=REFERRAL TO EPA
- 03=NTC OF NON COMPLIANCE
- 11=CLOSE OUT
- 20=ADMIN. ORDER CANCELLED
- 99=OTHER ACTION: _____

ACTION (code from above)	DATE (mo/day/yr)	COMMENT:
<u>01</u>	<u>03/04/91</u>	<u>RP notified</u>
<u>02</u>	<u>03/13/91</u>	<u>RP letter, med</u>
___	___/___/___	_____
___	___/___/___	_____

(for additional action codes see instructions/list additional on separate list and attach)

OVER ALL CASE COMMENT: see attach

LUST CASE PRIORITY SCREENING WORKSHEET

H FACTORS: (DEFINITION: Any case which presents an actual threat to human health, or has a high potential of causing a threat to human health and property; and/or any case which has caused or has a high potential of causing substantial impacts to the soil and air of the State of Wisconsin)

- | | |
|--|--|
| <p>H FACTORS:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Contaminated private or public well >NR140 enf. std. <input type="checkbox"/> Explosive or toxic vapors in structures <input type="checkbox"/> Threat of fire | <p>HIGH OR MEDIUM FACTORS: (write in choice of high or medium)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Floating product (medium if no receptors within 1 mile) <input type="checkbox"/> Known gw contamination (private or public well <140 enf. std.) <input type="checkbox"/> Impacted surface water--wetland, trout stream, etc. impacted saturated soil contamination |
|--|--|

M FACTORS: (DEFINITION: Any case which does not appear to be an immediate threat to human health or vital natural resources which shows levels of contamination that may cause substantial environmental impacts if left unaddressed.)

- Moderate soil contamination with moderate potential for impacting groundwater.
- Impacted surface water--no critical habitat threats.

L FACTORS: (DEFINITION: Any case where contamination has been documented, but which presents limited potential for any immediate threat to human health and vital natural resources.)

- Soil contamination which appears to have a limited potential for impacting groundwater.
- Initial remedial action has substantially reduced environmental threat.

U FACTOR: (DEFINITION: Any case where some indication of contamination is present, but due to incomplete or inaccurate information the level of threat to human health or the environment can not be assessed at this time.)

- Inadequate information to assign a high, medium, or low ranking.

FINAL RANKING: The screening rank for the site along with the date of ranking. This may be updated when additional information is received. Special circumstances for a particular case may be taken into account in the comment section. The District Coordinator may independently set the ranking of a site based upon "special circumstances."

Circle one & date, indicate in priority screening box opposite side HIGH MEDIUM LOW UNKNOWN

COMMENT: _____

NUMERICAL LUST SCORING WORKSHEET (complete for LUST cases ranked HIGH)

GROUNDWATER & SOILS: (circle one)

POINTS	Documented Petroleum Contamination:	POINTS	
20	Municipal well	8	Soil & gw within 1200' of a public well
18	>6 private wells	6	Soil & gw within 1200' of one or more private wells
16	4 - 6 private wells	4	GW contamination, no wells within 1200'
14	2 - 3 private wells	2	Soil contamination
12	1 private well		

EXPLOSIVE OR TOXIC VAPORS: (circle one)

POINTS	CONFIRMED	POTENTIAL	
20		10	Explosive levels in a residence or building
16		8	Explosive levels in a sewer or structure
12		6	Toxic levels in a residence or building

Notes: Explosive levels determined to be >20% LEL as per an explosivity meter; toxicity levels are based on OSHA permissible exposure limits (PEL)

HYDROGEOLOGIC SETTING: (circle one)

POINTS	
12	Highly permeable sub-soils (gravel, well sorted sand, fractured bedrock or utilities capable of intercepting and directing flow) <u>and</u> groundwater within 25 feet of the ground surface.
10	Highly permeable sub-soils <u>and</u> groundwater more than 25 feet below ground surface.
8	Moderately permeable sub-soils (silty sands, silty gravel, clayey sands) <u>and</u> groundwater within 25 feet of ground surface
6	Moderately permeable sub-soils <u>and</u> groundwater greater than 25 feet below ground surface.
4	Low permeability sub-soils (silt, clayey silt, sand clays) <u>and</u> groundwater within 25 feet of ground surface.
2	Low permeability sub-soils <u>and</u> groundwater greater than 25 feet below ground surface.

TYPE OF PRODUCT: (circle one)

POINTS	NOTE: Add 4 points if free product is present. (score in parentheses)
8 (12)	Gasoline, mixture of gasoline and other products, other light petroleum products.
6 (10)	Diesel, fuel oil
2 (6)	Bunker oil, other heavy oils or crude fractions

NOTE: DO NOT USE THIS FORM WHEN DOCUMENTING INSPECTIONS AT HAZARDOUS WASTE AND SOLID WASTE FACILITIES.
SEE BACK SIDE OF THIS FORM FOR MORE INFORMATION.

ATTN: _____				License Number _____	
<input type="checkbox"/> Residuals Management SW/3		<input type="checkbox"/> District _____		EPA ID Number _____	
<input type="checkbox"/> Hazardous Waste Management SW/3 Unit _____		<input type="checkbox"/> Environmental Enforcement EE/5		WI- _____	
<input type="checkbox"/> Systems Management SW/3		<input type="checkbox"/> _____		Facility ID Number _____	
Facility/Company Name			Location (Address or ¼¼)		City, State, Zip Code
Facility Type	District	County	Contact Method <input checked="" type="checkbox"/> Telephone <input type="checkbox"/> In-Person	Date 03/01/91 M M D D Y Y	Time (24-Hour Clock) 1454
Facility Representative Contacted Tom Ravn			Title or Position of Representative Scigrapp Inc		Telephone Number (include area code) 1417 335-7343

↑
Contact

Scigrapp, Inc
760 Indiana Av
West Bend 53095

tanks on prop. prior to 1978
1-18-91
site assessment + soil borings
odors + H₂S readings ~4500 ppm

working w/ Aqua Tech to develop
Site Savalko RAP

wells - 2 mi
surf H₂O - no - 3/4 mile
gw - at 10-15 ft
soils - sandy, silt, loam
filled area.

site area confined ~ 100 ft x 30 ft.
see borings.

Check if additional sheets attached

By
[Signature]