update 5/3/96

WISCONSIN DEPARTMENT OF NATURAL RESOURCES Case Summary and Close out Form

| UID # _02-16-120590 |
|--|
| |
| Responsible Party Name/Full Address: Fraser Shipyards, Inc. |
| Third St. & Clough Ave. |
| Superior, WI 54880 |
| Site Name/Full Address: Fraser Shipyards, Inc., AOC #5 - Paint Waste Staging Area, Third St. & Clough Ave., Superior, WI |
| Legal Description: 1/4, 1/4, Sec11 T _49 N, R14 _(E/ <u>W</u>) DNR Case No. <u>NWD-93-11</u> County: <u>Douglas</u> |
| Contaminant Type(s) <u>Lead in soils and groundwater</u> Quantity Released <u>unknown</u> |
| Incident Type: (amount released if known): Paint waste staging area -Lead found in soil and groundwater samples |
| Date of Incident/Discovered: 1-11-94 If Incident = LUST: Form 4 Pending? Yes _X_ No |
| Depth to Groundwater/Flow Direction: 6.5 ft. bgs/north, northeast Perched Water? Y X N Depth: N/A |
| Soil Type fill (0-5'), clay/silty sand layers (5-8'), clay (8-15') Depth to Bedrock approx. 270 ft. bgs |
| Potential Receptors: Howard's Bay |
| Site Assessment Consultant: N/A. |
| Investigation/Remediation Consultant: SEH INc. |
| Certified Lab Testing Soils/Water: <u>U.S.Filter (Enviroscan Corp.)</u> , Rothschild, WI - WI Lab Cert. No. 737053130 |
| Status of water supply wells within 1200 feet of the site? Area receives City water. |
| |
| Date Closure Submitted to DNR: November 26, 1997 Enforcement Actions or Permits Closed Out? Yes No |

| CLOSEOUT CO | OMMITTEE S | IGN OFF: | Date | |
|-------------|------------|----------|------|---|
| | | | | |
| (Signature) | | | | |
| (Signature) | | | 7 | |
| (Signature) | | | | |
| (Signature) | | | | - |

SOIL PRE-REMEDIATION OR INVESTIGATION ANALYTICAL RESULTS

| Extent Defined? X Y N | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| Attach Table of Pre-remedial Soil Samples | | | | | | | | | |
| SOIL POST REMEDIATION ANALYTICAL RESULTS | | | | | | | | | |
| Attach the Table for Post Remedial Soil Results | | | | | | | | | |
| Remedial Action Completed? Y N N/A 720.19 analysis Y _N N (if Y attach supporting documentation) | | | | | | | | | |
| Final Confirmation Sampling Methods: 3 hand auger borings | | | | | | | | | |
| Description of remedial action taken: Remedial investigation revealed remedial action not necessary. | | | | | | | | | |
| | | | | | | | | | |
| Were Soils Excavated? Y _X_ N Quantity: _N/A Disposal Method: _N/A | | | | | | | | | |
| Soil Disposal Form Attached? YX N Final Disposal Location: N/A | | | | | | | | | |
| GROUNDWATER ANALYTICAL RESULTS | | | | | | | | | |
| Extent Defined? Y N X NA | | | | | | | | | |
| Remedial Action Completed? Y N <u>N/A</u> | | | | | | | | | |
| Field Analyses? YX N Lab Analyses? _X Y N No. of Sampling Points: _7 | | | | | | | | | |
| Number of Sample Rounds: 3 | | | | | | | | | |
| #NR 141 Temporary Wells: 6 - hydraulic probes #Recovery Sumps: none | | | | | | | | | |
| Private Wells: <u>none</u> For private wells, Form 3300-67 completed: <u>none</u> | | | | | | | | | |
| Municipal Wells: none #NR141 Monitoring Wells: 1 | | | | | | | | | |
| Preventive Action Limit exceeded? YX N (If yes, location) | | | | | | | | | |
| Enforcement Standard exceeded? Y _X_ N (If yes, location) | | | | | | | | | |
| Attach Table of Groundwater Results | | | | | | | | | |

Description of remedial action taken: Remedial investigation revealed remedial action not necessary.

| Form completed by: I certify that, to the best of my knowledge, the inform recommendation for case closure is based upon all ava and Close Out Form Instructions and all required info | ailable data as of | (date). I have read the Case | |
|--|---|---|----------|
| Name: Gloria Chojnacki | Firm Name: Short | Elliott Hendrickson Inc. | |
| Affiliation with Site Owner: consultant | | | |
| Address: 421 Frenette Drive | | 8 | |
| City: Chippewa Falls | State:WI | Zip:54729 | |
| Telephone Number: (608) 274-2020 | | | |
| | | | ***** |
| (Signature) | E W.E | | |
| | | | |
| COMMITTEE RECOMMENDATION: | Date: | 111111111111111111111111111111111111111 | |
| | | . J | |
| | | | |
| | | | 94. 1 |
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| | | | |
| | *************************************** | | |
| * | | | |
| | | | |
| | *************************************** | | |

Fraser Shipyards, Inc.
Superior, Wisconsin
DNR Case No. NWD-93-11
UID # 02-16-120590
RE: Close Out Case Summary Narrative - AOC #5

AOC #5 - Paint Waste Staging Area

Fraser accumulated wastes from their painting operations in two portable aboveground storage tanks located in the west-central yard area. A number of tanks of varying sizes were also stored in this area to provide emergency storage capacity for oily wastes from ships. The wastes staged in this area of concern (AOC) included paint wastes potentially mixed with dirty solvents. Wastes staged in these tanks were disposed at Waste Research and Reclamation on July 2, 1993. Many of the tanks initially located at AOC #5 were cut up and removed for salvage.

Soil Samples

Initial soil samples were collected from AOC #5 on January 11, 1994 at the surface and at the 2.0 to 2.5 foot depth interval. A grab sample from boring B-9 (2 - 2.5 feet) indicated a total lead concentration of 685 mg/kg and B-10 (2 - 2.5 feet) indicated a total chromium concentration of 274 mg/kg. Both of these analytical results exceeded the ch. NR 720 Wisconsin Administrative Code industrial cleanup standards of 500 mg/kg for lead and 200 mg/kg for hexavalent chromium.

A TCLP as well as an ASTM water leach procedure was performed on the soil sample from B-9, the sample with the highest total lead concentration. A TCLP was also performed on B-10, the soil sample with the highest chromium concentration. No detectable concentrations of lead or chromium were noted in either of the leach procedures indicating that the lead and chromium in the subsurface are not leachable.

Additional surface soil samples were collected on August 16, 1997 in order to determine if surface soil concentrations of select heavy metals pose a significant threat. Laboratory results of the surface samples (B-11, HA-1, HA-2, HA-3) ranged from 20.4 mg/kg to 66.1 mg/kg for total lead and 16.1 mg/kg to 22.2 mg/kg for total chromium. Neither lead nor chromium surface soil concentrations exceed NR 720 industrial cleanup standards based on risk from direct contact. Soil analytical results are summarized on Tablé 1, "Field and Soil Analytical Results."

Groundwater Samples

Groundwater monitoring well, MW-2, was installed on August 16, 1996. Two rounds of groundwater samples were collected using a bailer, filtered and submitted for laboratory analysis of total lead and chromium. A third groundwater sample was collected from MW-2 using a peristaltic pump, filtered and submitted for total lead analysis. The soil boring log, monitoring well construction form and well development form are included as an attachment to this form.

Results of the initial rounds of sampling indicated no concentrations of chromium above the laboratory detection limit. Initial samples collected with a bailer indicated lead concentrations of 48.8 μ g/l and 34.2 μ g/l, exceeding the NR 140 Enforcement Standard (ES) of 15 μ g/l for lead. The third groundwater sample collected with a peristaltic pump from MW-2 indicated no detection of lead.

In an effort to further investigate the potential of dissolved lead contamination in groundwater at AOC #5, six hydropunch groundwater samples were collected on October 1, 1997. Groundwater samples were brought to the surface with a peristaltic pump, filtered and submitted for laboratory analysis of total lead. Results indicate dissolved lead concentrations ranging from none detected to 1.06 μ g/l. The NR 140 Preventive Action Limit (PAL) for lead is 1.5 μ g/l. Groundwater analytical results are summarized in Table 2, "Groundwater Analytical Results."

Discrepancies between lead concentrations in the initial rounds of groundwater monitoring and the final round are most likely due to the methods of collection. The vigorous action of a bailer allowed for extraction of a greater concentration of fine soil particles to which lead is adsorbed. Some of these particles likely passed through the filter, accounting for increased total lead results. The final round of groundwater monitoring indicates that lead does not exceed the NR 140 groundwater standard demonstrating that groundwater has not been adversely impacted by lead concentrations in the soil at AOC #5.

TABLE 1 FRASER SHIPYARDS, INC. FIELD AND SOIL ANALYTICAL RESULTS

| | | | | FIE | LD SCRI | EN | | ANALY | TICAL PARA | METERS & | METHODS | |
|-----------------|--------------------|----------|---------|-------|--------------|---------------|----------------------------------|-----------------------|--------------------|--------------------|--------------------|--------------------|
| AOC # | SAMPLE ID DEPTH | | | | PID units | DRO* mg/kg | VOC (8010/8020 or 8021) mg/kg | PVOC (8021a) mg/kg | Pb (6010) mg/kg | Cd (6010) mg/kg | Cr (6010) mg/kg | Hg (7471) mg/kg |
| 5 | | | | | | | | | | | | |
| Paint | B-9 | (2-2.5') | 1-11-94 | 1000+ | 42 | | ND | | 685** | 0.18 | 22.7 | 0.083 |
| Waste | B-10 | (0-6") | 1-11-94 | 0 | 36 | | | - | | | | |
| Staging | B-10 | (2-2.5') | 1-11-94 | | | | ND | | 270 | 0.28 | 274*** | 0.25 |
| Area | B-11 | (0-6") | 1-11-94 | 0 | 34 | | | | 66.1 | 0.64 | 22.2 | ND |
| | B-12 | (0-6") | 1-11-94 | 1.4 | 34 | | | | | - | | |
| | B-12 | (2-2.5') | 1-11-94 | 1000+ | 50 | | ND | | 177 | 0.38 | 23.1 | ND |
| | HA-1 | (0-6") | 8-16-96 | | - | | - | | 38.5 | | 16.1 | |
| | HA-2 | (0-6") | 8-16-96 | | | | | | 20.4 | | 14.9 | |
| | HA-3 | (0-6") | 8-16-96 | | | | | | 48.3 | - | 17.4 | |
| ch. NR 720 soil | | | | | | | | | 500 | 510 | 200 | NSE |

-- indicates parameter not analyzed
ND indicates parameter was not detected above laboratory detection level

NSE indicates no standard established

685 - Bold designation indicates value exceeds NR 720 cleanup standard

* WDNR Modified DRO

** TCLP - Pb, B-9 (2-2.5') = none detected
ASTM - Pb, B-9 (2-2.5') = none detected

***TCLP - Cr, B-10 (2-2.5') = none detected

NR 720 Industrial Site cleanup standard specified

prepared by: ggc checked by jjt

TABLE 2 FRASER SHIPYARDS, INC. **GROUNDWATER ANALYTICAL RESULTS**

| | | | ANALYTICAL P | ARAMETERS & METHOD | S | | |
|-----------------|--------------|----------|---------------------|---------------------------|--------------------|--------------------|--------------------|
| AOC # | SAMPLE ID | DATE | VOC (8021) ug/l | PAH (8310) ug/l | Cr (218.2) ug/l | Cd (213.2) ug/l | Pb (239.2) ug/l |
| 5 | | | | | | | |
| Paint Waste | MW-2 | 8-29-96 | | | ND | | 48.8 |
| Staging Area | | 11-21-96 | | | ND | | 34.2 |
| | MW-2 | 10-1-97 | | | | | ND |
|) | HP-1 | 10-1-97 | | - | - | | ND |
| ł | HP-2 | 10-1-97 | | | | | 1.06 |
| | HP-3 | 10-1-97 | | | | | ND |
| | HP-4 | 10-1-97 | | | | | ND |
| | HP-5 | 10-1-97 | | | - | | ND |
| | HP-6 | 10-1-97 | | | | | ND |
| ES | | ` | | | 100 | 5 | 15 |
| PAL | | | | | 10 | 0.5 | 1.5 |

ND = analyzed but not detected

-- indicated parameter not analyzed
1.42 - Bold designation indicates value exceeds NR 140 Enforcement Standard (ES)

compiled by: GGC checked by JJT

| State of Wisconsin Department of Natural Resources Route To: Solid Waste Emergency Response Wastewater | | | | | | | | Inderg | Vaste ground Resou | Tanks | | | | Soil Bo Form 44 | | | nforn | nation 7-91 |
|---|--------------------------|-------------|---------------|------------------------------------|-------------------------------------|---------------------|--------------------|---|--------------------------|----------------|-----------------|---------|-------------------------|---------------------|-----------------|------------------|-------|------------------|
| | | | | | Wasiewa | ici | □ w □ o | | Nesou | irces | | | | | Page | 1 | of | 1 |
| | y/Proje ASER | | e PYAR | D | | ¥ | | License/Permit/Monitoring Number Boring Number MW-2 | | | | | | | | | | |
| | | | | ne and name o | f crew chief) | | | Date | Drill | ing Star | ted | Date | e Drillin | g Com | pleted | Drilli | ng Me | thod |
| MES - Erik Schoenberg | | | | | | | | | 8 | /16/96 | i | | 17770 | 16/96 | | 4 1/4" ID HSA | | N_878675550 |
| DNR I | Facility | Well N | No. W | I Unique Well | 1 | nmon Well | Name | Fina | 1 Stati | c Water | | Surf | face Ele | | 1 | orehol | | |
| Roring | Locati | OD | | | + M | TW-2 | | | | Fee | t MSL | II oc | al Grid | Feet M | | nlicah | | Inches |
| State | | OII | | | N, | \mathbf{E} | | | Lat | 011 | 1 | Luc | ai Oliu . | | N (II ap | pricati | ic) | □ Е |
| | 1/4 | of | 1/4 | 4 of Section | T | N.R | | L | ong | 011 | | | Fe | | S | | Feet | \Box w |
| County | UGLA | S | | | | | DNR Cou | inty C | Code | | Town/Ci | | Village | | | | | |
| San | nple | | | | | | | | | | | | | Soil | Proper | ties | | |
| Number | Length (in) Recovered | Blow Counts | Depth In Feet | 1 | oil/Rock D d Geologic Each Ma | Origin F | | | USCS | Graphic Log | Well Diagram | PID/FID | Standard Penetration | Moisture Content | Liquid Limit | Plastic Limit | P 200 | RQD/ Comments |
| 1 | 9 | 3-3-6-9 | E | | own Silty | | | Ť | | | | ND | 9 | | | | | T |
| 2 | 12 | 10-19-9-4 | -2 2 | | occasional | | | | | | | ND | 28 | | | | | |
| 3 | 20 | 3-3-4-3 | -6 6 | Probable of Brown Sand, Litt | FILL: Alt Lean Clay le Gravel | ernating and Bro | Layers wn Silty | , | | | | ND | 7 | | | | | |
| 4 | 20 | 6-4-2-4 | 8 | Brown Or | ganic CLA | V | | _ | OL | | | ND | 6 | | | | | |
| 5 | 24 | 3-4-6-9 | -10 -12 | Stiff Redd | lish-Brown d and Grav | Lean CI | LAY, | 7 | CL | | | | 10 | | | | | |
| 6 | 24 | 3-6-6-8 | 14 | End of Bo | oring at 15. | 0 feet | | | | | | ND | 12 | | | | | |
| | | | | | | | , | | | | | | * | | | | | |
| I hereb | v certif | v that t | he infor | mation on this | form is true | and correct | to the he | et of | mu len | owledg | | | | | | | | 1 |

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

1, 9 9,00

#SEH

SEH 421 Frenette Drive Chippewa Falls, Wl. 54729 Tel: 715-720-6200, Fax: 715-720-6300

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

| State of Wisconsin Route to: Soli | d Waste 🗆 Haz. Waste | □ Wastewater □ |] | MONITORING WELL | | |
|--|--|--|----------------------|--|---|------------------------|
| | & Repair Undergre | | Other 🗆 | Form 4400-113A | R | Rev. 4-90 |
| , | Local Grid Location of ' | | ПЕ. | Well Name | | |
| FRASER SHIPYARD Facility License, Permit or Monitoring Number | Grid Origin Location | N. S. ———— | ft. E. ft. W. | MW-2 Wis: Unique Well Number | | Number |
| | Lat " | 0 | | Wis Offique Well (Valides) | | |
| Town of Wall Water Table Observation Well 5711 | | | | Date Well Installed | | |
| The second secon | St. Plane Section Location of Was | _ ft. N, | ft. E. | 8/16/96 | 5 | |
| Distance Well Is From Waste/Source Boundary | Section Location of Was | ste/Source | □ E. | Well Installed By: (Person's | | Firm) |
| ft. | 1/4 of 1/4 of Se Location of Well Relativ | ve to Waste/Source | R□ W. | Erik Schoent | | |
| Is Well A Point of Enforcement Std. Application? ⊠ Yes □ No | u ☐ Upgradient d ☐ Downgradient | s ☐ Sidegrad n ☐ Not Kno | | MES | | |
| A. Protective pipe, top elevation fi | | | Cap and lock | | ⊠ Yes | □ No |
| B. Well casing, top elevation fi | . MSL | □ 2. | Protective cov | | _ | 4.0 in. |
| C. Land surface elevation fi | . MSL ~ | | b. Length: | | | 5.0 tt. |
| | 100 | Se Succession | c. Material: | | Steel | ⊠ 0 ÷ |
| D. Surface seal, bottom ft. MSL or2 | £ ft. | * C | | | _ Other | |
| 12. USC classification of soil near screen: | (a) (a) | Post sing. | | protection? | | ⊠ No |
| | SP 🗆 | 1 | If yes, desc | ribe: | | _ |
| SM □ SC □ ML □ MH □ CL ☒ (Bedrock □ | CH 🗆 | 图 / /3 | Surface seal: | | Bentonite | |
| 15.51 W. 15.52 S. 15.15 | | | barrace scar. | TE. | Concrete | |
| 13. Sieve analysis attached? ☐ Yes ☒ N | | | second of which | 1862 19 11 120 | | |
| 14. Drilling method used: Rotary □ 5 | 1 (800) | 4. | Material betw | een well casing and protective | | |
| Hollow Stem Auger ⊠ 4 | | | | | Bentonite | |
| Other 🗆 | <u> </u> | | | Annular | space seal | |
| 15. Drilling fluid used: Water □02 Air □0 | , 🐰 | | | Chipped | | |
| Drilling Mud 03 None \(\Sigma 9\) | 120 | 1 | Annular space | | | |
| Similar Made 200 Mone 200 | | N N 2 | | al mud weight Bentonite-sa al mud weight Bentor | nite slurry | 35 |
| 16. Drilling additives used? ☐ Yes ☒ N | o 🛞 | 15.50 | % Be | The state of the s | 1.50 | |
| XX.4 | | 12.74 | | Ft ³ volume added for any of | _ | |
| DescribeNA | —— I 💮 | 82.1 | . How insta | Del av | Tremie | □ 0 i |
| 17. Source of water (attach analysis): | . 🛞 | | | Tremi | e pumped | □ 02 |
| NA | 🛞 | | | | Gravity | ☑ 08 |
| | | 6. | Bentonite seal | : a. Bentonite | e grimules | 128. 33 |
| E. Bentonite seal, top ft. MSL or | 2.2 ft. | | b. □1/4 in. | □3/8 in. □1/2 in. Benton | ite pellets | □ 32 |
| | | | c | inger or viveror. See | _ Other | |
| F. Fine sand, top ft. MSL or | 4.0 ft. | 7. | | erial: Manufacturer, product Flint Filter Sand #45 - | | mesh size |
| G. Filter pack, top ft. MSL or | 4.5 ft. | 8/ | b. Volume ad | $ded = 1/2 bag = ft^3$ | | |
| | | 8. | | nterial: Manufacturer, produc Flint Filter Sand #30 m | | l mesh siz |
| H. Screen joint, top ft. MSL or | II. | - 1/ | b. Volume add | | 10011 | _ 2 |
| I. Well bottom ft. MSL or1 | 5.0 ft . | | Well casing: | Flush threaded PVC scl | hedule 40 | 图 23 |
| 1. Well bottom | | 夏 1 2 | well casing. | Flush threaded PVC sci | | |
| J. Filter pack, bottom ft. MSL or1 | 5.0 ft. | 9. | | THE THE PARTY OF T | _ Other | |
| | 50 | 10. | Screen materi | | | _ &_ |
| K. Borehole, bottom ft. MSL or | 9. 0 ft. | | a. Screen Typ | | actory cut | |
| | | | | Contir | nuous slot | 911 |
| L. Borehole, diameter8.2 in. | ~ | | L | rer Diedrich | _ Other | □ =_ |
| M. O.D. well casing 2.40 in. | | | b. Manufactu | rer Diedrich | | 010 in |
| M. O.D. well casing 2.40 in. | | / | c. Slot size: | ath: | <u>5.</u> | 10.0 ft |
| N. I.D. well casing 2.00 in. | | | d. Slotted len | gtn: ial (below filter pack): | | <u>10.0</u> 1. ⊠ 14 |
| N. I.D. well casing 2.00 in. | | 11. | Dackilli illatel | iai (UCIOW THICI PACK). | | |
| I hereby certify that the information on this | form is true and as | errant to the ba | et of my les | oxyladga | _ = =================================== | |
| Signature | Firm = === | Townson Committee Committe | | | | |
| O. C. P Gull | -5F | Short Elliot | t Hendricks | on, Inc. 7 | rel: (715) | /20-6200 |

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.

| | | | | | ☐ Wastewater ☐ ound Tanks ☐ Oth | ner 🗆 | | | | |
|---|-------------|-----|--------------|-----|----------------------------------|---------------|----------|-------------|---------------------|----------|
| Facility/Project Name | | | County | - | | [Well h | | | | |
| | | | | \OI | ICI AC | Well I | variic | M | W-2 | |
| FRASER SHIPYARD Facility License, Permit or Monitoring Number | | - | County Code | | JGLAS Vis. Unique Well Nu | ımber | I Number | | | |
| Tuenty Electise, Termit of Monitoring Number | | | county code | | . B. Ollique Traising | шсі | ľ | | 11 Tullioci | |
| | | | | Ť | | | | | T T | |
| 1. Can this well be purged dry? | X | Yes | □ No | | | Refore | Devel | opment | After Develo | nment |
| To can time were se parged any. | _ | 100 | 2 1.0 | 1 | 1. Depth to Water | Bororo | 2010. | оринени | Titler Develo | pinent |
| 2. Well development method: | | | | | (from top of | a. | 6 | .58 ft. | 16 | 5.46 ft. |
| surged with bailer and bailed | | 4 | į. | | well casing) | a. | | .50 It. | 10 | 7.40 It. |
| surged with bailer and pumped | | 6 | | | | | | | | |
| surged with block and bailed | | 4 2 | 2 | | Date | b. | 8/29 | /96 | 8/29 | 196 |
| surged with block and pumped | \boxtimes | 6 2 | 2 | | | | | | | |
| surged with block, bailed, and pumped | | 7 (|) | 1 | | | | □ a.m. | · e | □ a.m. |
| compressed air | | 2 (|) | 1 | Time | c. | 12:35 | ⊠ p.m. | 12:50 | ⊠ p.m. |
| bailed only | | 1 (|) | | | | | | | |
| pumped only | | 5 1 | | 12 | 2. Sediment in well | | 0.0 | inches | 0.0 | inches |
| pumped slowly | | 5 (| | | bottom | | | | | |
| other | | | <u>.</u> | 13 | 3. Water clarity | Clear | □ 10 | | Clear 20 | |
| | | | | 1 | | | ⊠ 15 | | Turbid ⊠ 25 | |
| 3. Time spent developing well | | | 10 min. | | | (Descril | ne) | | (Describe) | |
| | | | | | | sligh | tly turb | id | Slightly turb | id |
| 4. Depth of well (from top of well casing) . | | 17 | .6 ft. | | | | | | | |
| | | | | | | | | | | |
| 5. Inside diameter of well | | 2.0 | 07 in. | | | | | | · | |
| | | | | | | | | | - | |
| 6. Volume of water in filter pack and well casing | | 9 | .7 gal. | | | | | | | |
| | | | | | | | | | | |
| | | | | Fi | ill in if drilling fluid | s were use | ed and w | ell is at s | olid waste facility | • |
| 7. Volume of water removed from well | | 8 | .0 gal. | | | | | | | |
| | | | | 14 | . Total suspended | | | mg/l | | mg/l |
| 8. Volume of water added (if any) | | 0 | .0 gal. | 1 | solids | | | | | |
| 0.0 | | | | 15 | . COD | | | mg/l | | mg/l |
| Source of water added | | | | 1. | . 000 | | | | | |
| | | | | 1 | | | | | | |
| 10. Analysis performed on water added? | П | Yes | □ No | 1 | | | | 1 | | |
| (If yes, attach results) | _ | | L 110 | | | | | | | |
| | | | | | | | | | | |
| 16. Additional comments on development: | | | | | | | | | | |
| Well purged dry after pumping 8 gall | ons | slo | w to rechars | ge | | | | | | |
| | , | | | | | | | | | |
| | | | | | | | | | | |
| | | | ı | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Well developed by: Person's Name and Firm | _ | | | TIE | nereby certify that th | e above i | nformati | on is true | and correct to th | e hest |
| de veleped by . Telson's Frame and Thin | | | | of | my knowledge. | ic above i | mormati | on is truc | and correct to th | c ocsi |
| | | | | | | , | | | | |
| Name: Trevor Bauer | | | | Si | gnature: | un | Bou | w | | |
| Name: Irevor Bauer | | | | | 9 | | 3. | 3 | | |
| Firm: SEH Inc. | | | 76.1 | Pr | int Initials: I | JB | | | | |
| THIII. | | | | | <i>-</i> | EU 01- | ont 1711 | iott TT | ondui-les Y | 20 |
| | | | | Fi | rm: | en sn | on El | lott H | endrickson I | nc. |

REPRODUCED FROM

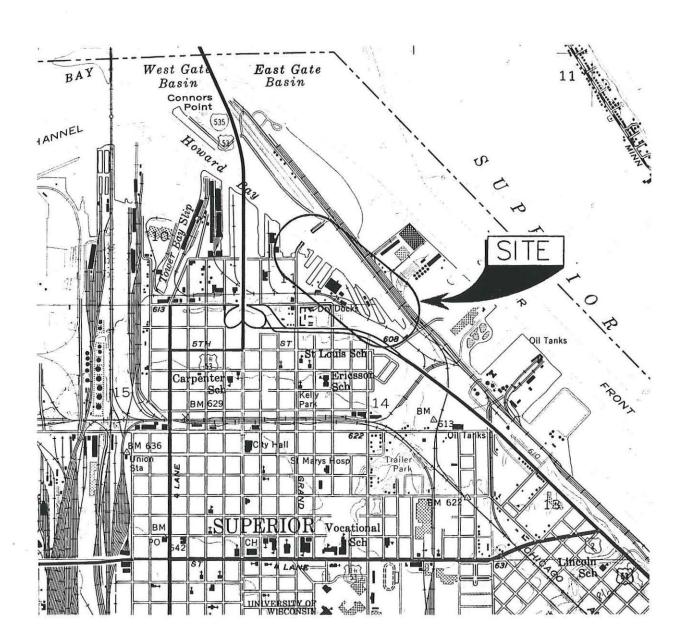
USGS SUPERIOR QUADRANGLE

WISCONSIN - DOUGLAS CO. 7.5 MINUTE SERIES





SCALE IN FEET 0 500 1000 2000



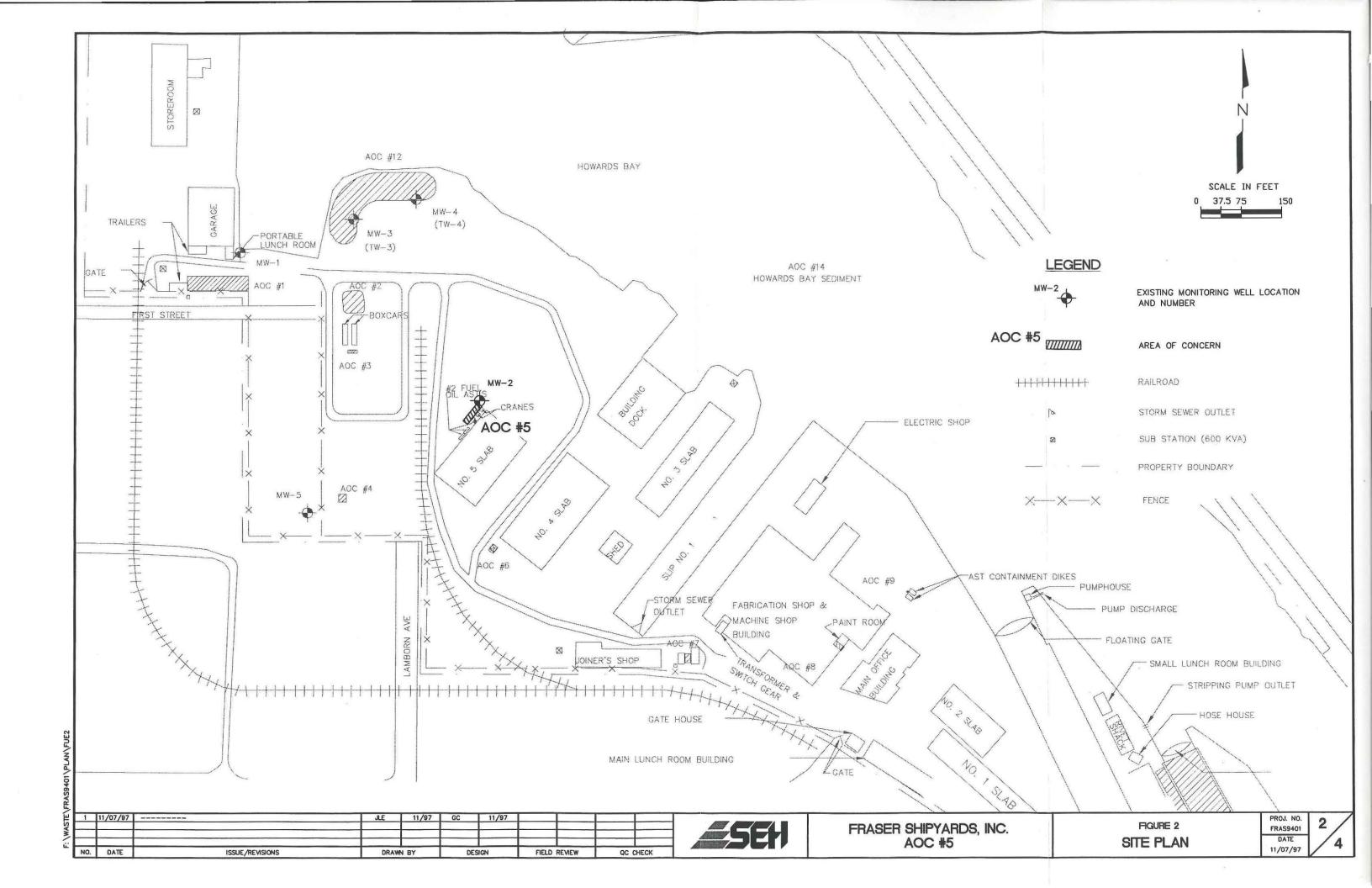
1 11/07/97 ------ JLE 11/97 GC 11/97 NO. DATE ISSUE/REVISIONS DRAWN BY DESIGN FIELD REVIEW QC CHECK

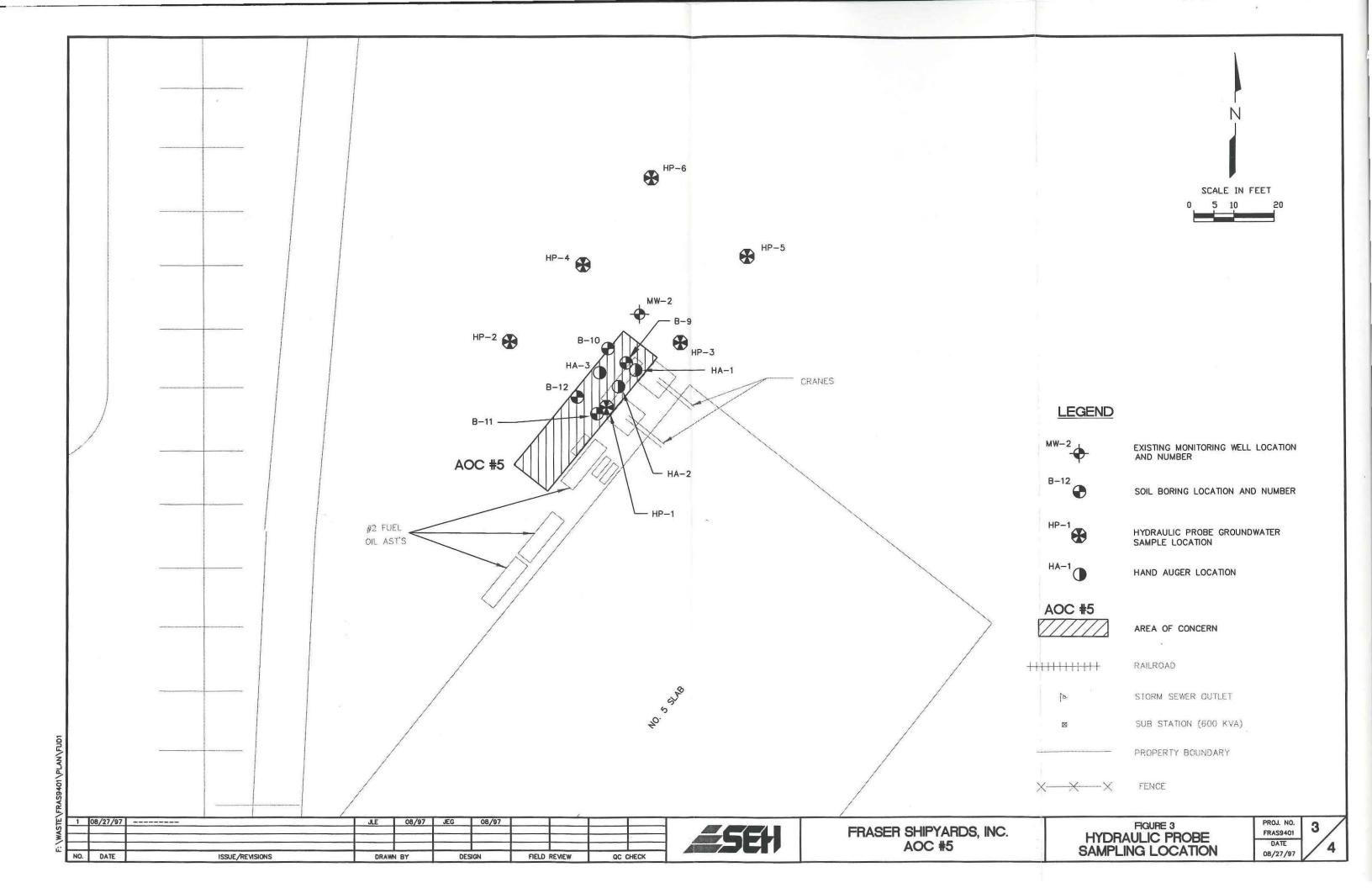


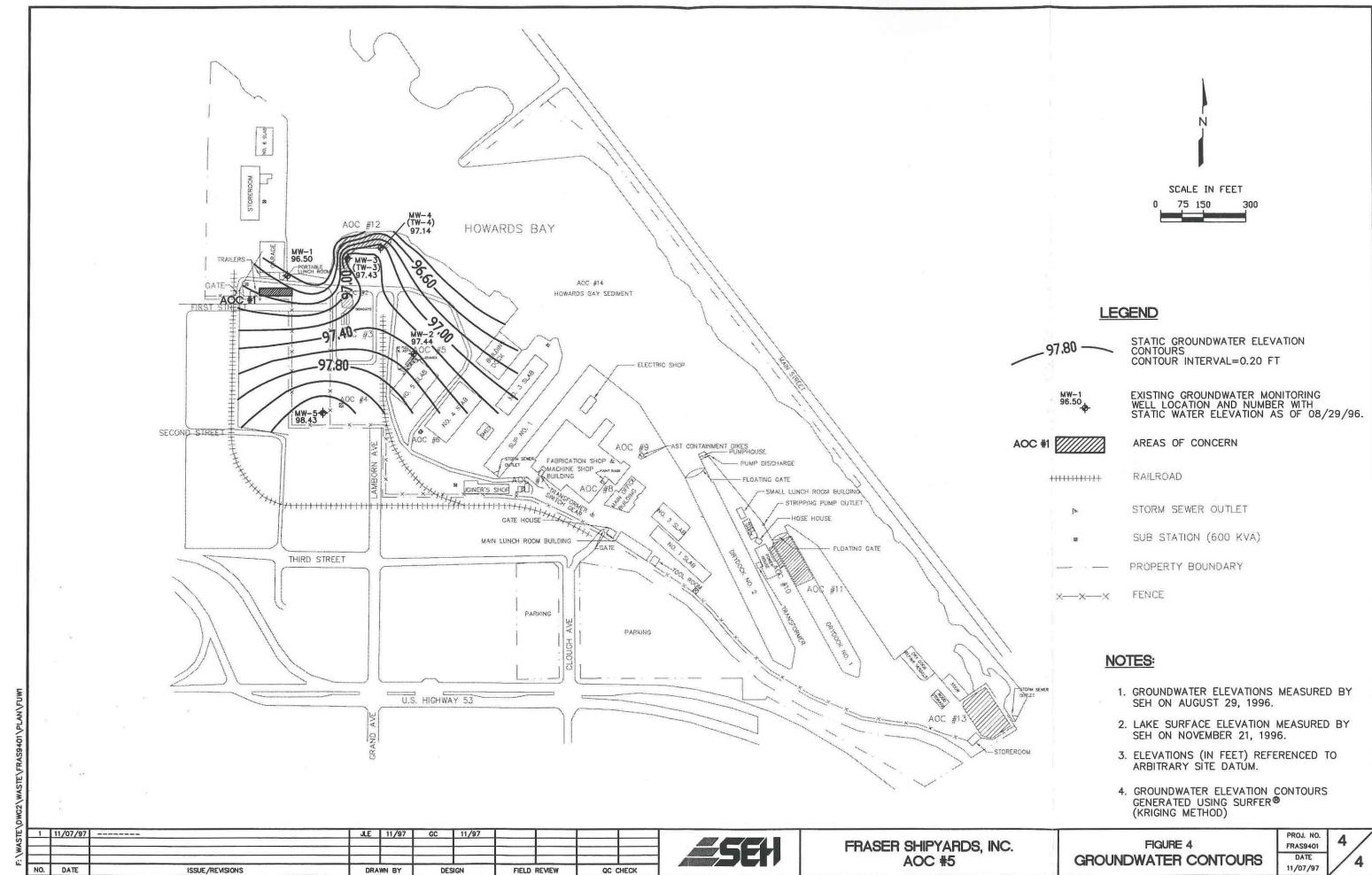
FRASER SHIPYARDS, INC. AOC #5

FIGURE 1
SITE LOCATION

PROJ. NO. FRAS9401 DATE 11/07/97 1/4







ENVIROSCAN

August 30, 1996

Short Elliott Hendrickson, Inc. 421 Frenette Drive Chippewa Falls , WI 54729

Attn: John Guhl

Re: FRASE9401.00

ENVIRONMENTAL AND ANALYTICAL SERVICES

SEP 3

Please find enclosed the analytical results for the samples received August 20, 1996.

All analyses were completed in accordance with appropriate EPA and Wisconsin methodologies. Methods and dates of analysis are included in the report tables.

The chain of custody document is enclosed.

If you have any questions about the results, please call. Thank you for using US Filter/Enviroscan for your analytical needs.

Sincerely,

US Filter/Enviroscan

Cindy K. Varga

Senior Analytical Chemist



Short Elliott Hendrickson,Inc. 421 Frenette Drive Chippewa Falls , WI 54729

Attn: John Guhl

CUST NUMBER: FRASE9401.00

SAMPLED BY: Client
DATE REC'D: 08/20/96
REPORT DATE: 08/30/96
PREPARED BY: CKVCKV
REVIEWED BY: 5001

Client Sample HAX-3 , Enviroscan Analytical # 74862, Results are in Units of mg/kg

| Method EPA 8021 | MDL | LUST LOD | LUST LOQ | | R Wet | ESULT | Dry | Quality Control Qualifiers | Analysis Date |
|-----------------------------|---------|-------------|--------------------|---|------------------|-------|-------|----------------------------------|------------------|
| | | | | | | | | | |
| Benzene | 0.012 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | | 08/26/96 |
| Bromobenzene | 0.007 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | | 08/26/96 |
| Bromodichloromethane | 0.005 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | | 08/26/96 |
| n-Butylbenzene | 0.007 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | | 08/26/96 |
| sec-Butylbenzene | 0.006 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | | 08/26/96 |
| tert-Butylbenzene | 0.004 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | | 08/26/96 |
| Carbon Tetrachloride | 0.008 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | | 08/26/96 |
| Chlorobenzene | 0.003 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | | 08/26/96 |
| Chlorodibromomethane | 0.005 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | | 08/26/96 |
| Chloroethane | 0.006 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | CSH SPH | 08/26/96 |
| Chloroform | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | | 08/26/96 |
| Chloromethane | 0.012 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | CSH SPL DUP | 08/26/96 |
| o-Chlorotoluene | 0.003 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | | 08/26/96 |
| p-Chlorotoluene | 0.005 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | SPH | 08/26/96 |
| 1,2-Dibromo-3-chloropropane | 0.018 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | (F1.00) | 08/26/96 |
| 1,2-Dibromoethane | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | | 08/26/96 |
| 1,2-Dichlorobenzene | 0.014 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | | 08/26/96 |
| 1,3-Dichlorobenzene | 0.003 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | | 08/26/96 |
| 1,4-Dichlorobenzene | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | | 08/26/96 |
| | 0.005 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | SPL | 08/26/96 |
| Dichlorodifluoromethane | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | SIL | 08/26/96 |
| 1,1-Dichloroethane | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | | 08/26/96 |
| 1,2-Dichloroethane | 0.006 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | CSH | 08/26/96 |
| 1,1-Dichloroethylene | | 0.025 | | < | 0.025 | < | 0.032 | CSL SPL | 08/26/96 |
| cis-1,2-Dichloroethylene | 0.008 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | CSL SFL | 08/26/96 |
| trans-1,2-Dichloroethylene | 0.002 | | | | | | | | |
| 1,2-Dichloropropane | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | | 08/26/96 |
| 1,3-Dichloropropane | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | col col | 08/26/96 |
| 2,2-Dichloropropane | 0.008 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | CSL SPL | 08/26/96 |
| Ethylbenzene | 0.006 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | 0011 | 08/26/96 |
| Hexachlorobutadiene | 0.003 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | SPH | 08/26/96 |
| Isopropylbenzene | 0.006 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | | 08/26/96 |
| p-Isopropyltoluene | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | 1450 SON 2440 | 08/26/96 |
| Methyl tert Butyl Ether | 0.017 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | CSL SPL DUP | 08/26/96 |
| Methylene Chloride | 0.009 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | CSH | 08/26/96 |
| Naphthalene | 0.017 | | 0.060 | | 0.026 | | 0.033 | SPH | 08/26/96 |
| n-Propylbenzene | 0.007 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | | 08/26/96 |
| Tetrachloroethylene | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | | 08/26/96 |
| 1,1,2,2-Tetrachloroethane | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | DUP | 08/26/96 |
| Toluene | 0.004 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | | 08/26/96 |
| 1,2,3-Trichlorobenzene | 0.003 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | SPH | 08/26/96 |
| 1,2,4-Trichlorobenzene | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | SPH | 08/26/96 |
| Trichloroethylene | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | CSH | 08/26/96 |
| Trichlorofluoromethane | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | CSH | 08/26/96 |
| 1,2,4-Trimethylbenzene | 0.007 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | | 08/26/96 |
| 1,3,5-Trimethylbenzene | 0.020 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | | 08/26/96 |
| Vinyl Chloride | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | SPL | 08/26/96 |
| m- & p-Xylene | 0.011 | 0.025 | 0.060 | < | 0.025 | < | 0.032 | SE VINE | 08/26/96 |
| o-Xylene & Styrene | 0.011 | 0.025 | 0.060 | | 0.036 | | 0.046 | | 08/26/96 |
| ,, | 7777777 | 1000 | 00.000.000.000.000 | | 1500000000101000 | | | | |

^{* =} Regulatory Limit based on total Xylene.



Attn: John Guhl

CUST NUMBER: FRASE9401.00

SAMPLED BY: Client DATE REC'D: 08/20/96 REPORT DATE: 08/30/96 PREPARED BY: CKVC/

REVIEWED BY: 2mm

| Client Sample HA | X-4 | , Enviro | scan Ar | nalytical | # 7 | 4863, Res | ults | are in Unit | s of mg/kg Quality | |
|----------------------|-----|----------|---------|-----------|-----|-----------|-------|-------------|-----------------------|----------|
| | | | LUST | LUST | | RI | ESUL1 | • | Control | Analysis |
| Method EPA 8021 | | MDL | LOD | LOQ | | Wet | | Dry | Qualifiers | Date |
| | | | | | | | | | | |
| Benzene | | 0.015 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | | 08/26/96 |
| Bromobenzene | | 0.009 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | | 08/26/96 |
| Bromodichloromethane | | 0.006 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | | 08/26/96 |
| - District bearing | | 0.000 | 0 025 | 0.060 | - | 0.025 | _ | 0.027 | | 08/26/06 |

| | | LUST | LUST | | R | SULT | | Control | Analysis |
|-----------------------------|-------|-------|-------|---|-------|------|-------|-------------|----------|
| Method EPA 8021 | MDL | LOD | LOQ | | Wet | | Dry | Qualifiers | Date |
| | | | | | | | | | |
| Benzene | 0.015 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | | 08/26/96 |
| Bromobenzene | 0.009 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | | 08/26/96 |
| Bromodichloromethane | 0.006 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | | 08/26/96 |
| n-Butylbenzene | 0.008 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | | 08/26/96 |
| sec-Butylbenzene | 0.008 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | | 08/26/96 |
| tert-Butylbenzene | 0.005 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | | 08/26/96 |
| Carbon Tetrachloride | 0.010 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | | 08/26/96 |
| Chlorobenzene | 0.004 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | | 08/26/96 |
| Chlorodibromomethane | 0.006 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | | 08/26/96 |
| Chloroethane | 0.007 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | CSH SPH | 08/26/96 |
| Chloroform | 0.003 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | | 08/26/96 |
| Chloromethane | 0.015 | 0.025 | 0.060 | | 0.026 | | 0.028 | CSH SPL DUP | |
| o-Chlorotoluene | 0.003 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | | 08/26/96 |
| p-Chlorotoluene | 0.006 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | SPH | 08/26/96 |
| 1,2-Dibromo-3-chloropropane | 0.021 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | | 08/26/96 |
| 1,2-Dibromoethane | 0.003 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | | 08/26/96 |
| 1,2-Dichlorobenzene | 0.017 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | | 08/26/96 |
| 1.3-Dichlorobenzene | 0.003 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | | 08/26/96 |
| 1,4-Dichlorobenzene | 0.003 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | | 08/26/96 |
| Dichlorodifluoromethane | 0.005 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | SPL | 08/26/96 |
| 1,1-Dichloroethane | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | | 08/26/96 |
| 1,2-Dichloroethane | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | | 08/26/96 |
| 1,1-Dichloroethylene | 0.008 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | CSH | 08/26/96 |
| cis-1,2-Dichloroethylene | 0.009 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | CSL SPL | 08/26/96 |
| trans-1,2-Dichloroethylene | 0.003 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | | 08/26/96 |
| 1,2-Dichloropropane | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | | 08/26/96 |
| 1,3-Dichloropropane | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | | 08/26/96 |
| 2,2-Dichloropropane | 0.009 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | CSL SPL | 08/26/96 |
| Ethylbenzene | 0.008 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | | 08/26/96 |
| Hexachlorobutadiene | 0.004 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | SPH | 08/26/96 |
| Isopropylbenzene | 0.008 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | | 08/26/96 |
| p-Isopropyltoluene | 0.003 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | | 08/26/96 |
| Methyl tert Butyl Ether | 0.020 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | CSL SPL DUF | |
| Methylene Chloride | 0.011 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | CSH | 08/26/96 |
| Naphthalene | 0.020 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | SPH | 08/26/96 |
| n-Propylbenzene | 0.008 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | | 08/26/96 |
| Tetrachloroethylene | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | | 08/26/96 |
| 1,1,2,2-Tetrachloroethane | 0.003 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | DUP | 08/26/96 |
| Toluene | 0.004 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | 501 | 08/26/96 |
| 1,2,3-Trichlorobenzene | 0.004 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | SPH | 08/26/96 |
| 1,2,4-Trichlorobenzene | 0.003 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | SPH | 08/26/96 |
| Trichloroethylene | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | CSH | 08/26/96 |
| Trichlorofluoromethane | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | CSH | 08/26/96 |
| 1,2,4-Trimethylbenzene | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | COII | 08/26/96 |
| | 0.024 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | | 08/26/96 |
| 1,3,5-Trimethylbenzene | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | SPL | 08/26/96 |
| Vinyl Chloride | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.027 | SFL | 08/26/96 |
| m- & p-Xylene | | 0.025 | | • | 0.025 | • | 0.027 | | 08/26/96 |
| | | | | | | | | | |

^{* =} Regulatory Limit based on total Xylene.

o-Xylene & Styrene

0.013 0.025

0.060

0.035

0.032

08/26/96



Short Elliott Hendrickson,Inc. 421 Frenette Drive Chippewa Falls , WI 54729

Attn: John Guhl

CUST NUMBER: FRASE9401.00 SAMPLED BY: Client

SAMPLED BY: CITENT
DATE REC'D: 08/20/96
REPORT DATE: 08/30/96
PREPARED BY: CKV&V
REVIEWED BY: 5774

| | | | | | | | | | KEVIEWED |
|--|----------|---------|----------|---------|----------------|-------|----------------|--------------------|----------------------|
| Client Sample HAX-5 | , Enviro | scan Ar | alytical | l # 748 | 364, Resi | ults | are in Uni | ts of mg/kg | |
| | | LUST | LUST | | DI | ESULT | | Quality Control | Apolycia |
| Nother FDA 9031 | MDI | | | | | ESULI | | | Analysis |
| Method EPA 8021 | MDL | LOD | LOQ | | Wet | | Dry | Qualifiers | Date |
| Benzene | 0.014 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| Bromobenzene | 0.008 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| Bromodichloromethane | 0.006 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| n-Butylbenzene | 0.007 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| sec-Butylbenzene | 0.007 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| tert-Butylbenzene | 0.004 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| Carbon Tetrachloride | 0.009 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| Chlorobenzene | 0.003 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| Chlorodibromomethane | 0.005 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| Chloroethane | 0.006 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | CSH SPH | 08/26/96 |
| Chloroform | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| Chloromethane | 0.013 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | CSH SPL DUP | 08/26/96 |
| o-Chlorotoluene | 0.003 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| p-Chlorotoluene | 0.005 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | SPH | 08/26/96 |
| 1,2-Dibromo-3-chloropropane | 0.019 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| 1,2-Dibromoethane | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| 1,2-Dichlorobenzene | 0.015 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| 1,3-Dichlorobenzene | 0.003 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| 1,4-Dichlorobenzene | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| Dichlorodifluoromethane | 0.005 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | SPL | 08/26/96 |
| 1,1-Dichloroethane | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| 1,2-Dichloroethane | 0.001 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| 1,1-Dichloroethylene | 0.007 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | CSH | 08/26/96 |
| cis-1,2-Dichloroethylene | 0.008 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | CSL SPL | 08/26/96 |
| trans-1,2-Dichloroethylene | 0.003 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| 1,2-Dichloropropane | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| 1,3-Dichloropropane | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| 2,2-Dichloropropane | 0.008 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | CSL SPL | 08/26/96 |
| Ethylbenzene | 0.007 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| Hexachlorobutadiene | 0.004 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | SPH | 08/26/96 |
| Isopropylbenzene | | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| p-Isopropyltoluene | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | COL ODL DUD | 08/26/96 |
| Methyl tert Butyl Ether | 0.019 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | CSL SPL DUP | 08/26/96 |
| Methylene Chloride | 0.010 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | CSH | 08/26/96 |
| Naphthalene | 0.018 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | SPH | 08/26/96 |
| n-Propylbenzene | 0.008 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| Tetrachloroethylene | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | DUP | 08/26/96 |
| 1,1,2,2-Tetrachloroethane | 0.003 | 0.025 | 0.060 | < | 0.025 | < | 0.031 0.031 | DUP | 08/26/96 |
| Toluene | 0.004 | 0.025 | 0.060 | < | 0.025 0.025 | < | 0.031 | SPH | 08/26/96 08/26/96 |
| 1,2,3-Trichlorobenzene | 0.003 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | SPH | 08/26/96 |
| 1,2,4-Trichlorobenzene | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | CSH | 08/26/96 |
| Trichloroethylene | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | CSH | 08/26/96 |
| Trichlorofluoromethane | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | Con | 08/26/96 |
| 1,2,4-Trimethylbenzene | 0.022 | 0.025 | 0.060 | ~ | 0.025 | < | 0.031 | | 08/26/96 |
| 1,3,5-Trimethylbenzene Vinyl Chloride | 0.002 | 0.025 | 0.060 | ~ | 0.025 | < | 0.031 | SPL | 08/26/96 |
| m- & p-Xylene | 0.002 | 0.025 | 0.060 | ~ | 0.025 | < | 0.031 | JI L | 08/26/96 |
| o-Xylene & Styrene | 0.012 | 0.025 | 0.060 | 3. | 0.112 | | 0.138 | | 08/26/96 |
| o Aytone a otyrone | 0.012 | 31023 | 3.000 | | | | | | ,, , 0 |

^{* =} Regulatory Limit based on total Xylene.



Short Elliott Hendrickson,Inc. 421 Frenette Drive Chippewa Falls , WI 54729

Attn: John Guhl

CUST NUMBER: FRASE9401.00

SAMPLED BY: Client
DATE REC'D: 08/20/96
REPORT DATE: 08/30/96
PREPARED BY: CKV ok
REVIEWED BY: 5/21/1

| | | LUST | LUST | | D | ESULT | | Quality | Analysis |
|-----------------------------|-------|-------|-------|---|-------|-------|-------|-----------------------|------------------|
| Method EPA 8021 | MDL | LOD | LOQ | | Wet | ESULI | Dry | Control Qualifiers | Analysis Date |
| | | | | | | | | | |
| Benzene | 0.014 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| Bromobenzene | 0.008 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| Bromodichloromethane | 0.006 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| n-Butylbenzene | 0.008 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| sec-Butylbenzene | 0.007 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| tert-Butylbenzene | 0.005 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| Carbon Tetrachloride | 0.010 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| Chlorobenzene | 0.003 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| Chlorodibromomethane | 0.005 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| Chloroethane | 0.007 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | CSH SPH | 08/26/96 |
| Chloroform | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| Chloromethane | 0.014 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | CSH SPL DUP | 08/26/96 |
| o-Chlorotoluene | 0.003 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | 22.0 | 08/26/96 |
| p-Chlorotoluene | 0.006 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | SPH | 08/26/96 |
| 1,2-Dibromo-3-chloropropane | 0.020 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| 1,2-Dibromoethane | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| 1,2-Dichlorobenzene | 0.016 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| 1,3-Dichlorobenzene | 0.003 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| 1,4-Dichlorobenzene | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| Dichlorodifluoromethane | 0.005 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | SPL | 08/26/96 |
| 1,1-Dichloroethane | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| 1,2-Dichloroethane | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | 2511 | 08/26/96 |
| 1,1-Dichloroethylene | 0.007 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | CSH | 08/26/96 |
| cis-1,2-Dichloroethylene | 0.009 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | CSL SPL | 08/26/96 |
| trans-1,2-Dichloroethylene | 0.003 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| 1,2-Dichloropropane | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| 1,3-Dichloropropane | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | ani ani | 08/26/96 |
| 2,2-Dichloropropane | 0.009 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | CSL SPL | 08/26/96 |
| Ethylbenzene | 0.007 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | 0011 | 08/26/96 |
| Hexachlorobutadiene | 0.004 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | SPH | 08/26/96 |
| Isopropylbenzene | 0.007 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| p-Isopropyltoluene | 0.003 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | ani ani niin | 08/26/96 |
| Methyl tert Butyl Ether | 0.019 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | CSL SPL DUP | 08/26/96 |
| Methylene Chloride | 0.011 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | CSH | 08/26/96 |
| Naphthalene | 0.019 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | SPH | 08/26/96 |
| n-Propylbenzene | 0.008 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| Tetrachloroethylene | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | DUD | 08/26/96 |
| 1,1,2,2-Tetrachloroethane | 0.003 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | DUP | 08/26/96 |
| Toluene | 0.004 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | OBU | 08/26/96 |
| 1,2,3-Trichlorobenzene | 0.003 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | SPH | 08/26/96 |
| 1,2,4-Trichlorobenzene | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | SPH | 08/26/96 |
| Trichloroethylene | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | CSH | 08/26/96 |
| Trichlorofluoromethane | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | CSH | 08/26/96 |
| 1,2,4-Trimethylbenzene | 0.008 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| 1,3,5-Trimethylbenzene | 0.023 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | CDI | 08/26/96 |
| Vinyl Chloride | 0.002 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | SPL | 08/26/96 |
| m- & p-Xylene | 0.013 | 0.025 | 0.060 | < | 0.025 | < | 0.031 | | 08/26/96 |
| o-Xylene & Styrene | 0.012 | 0.025 | 0.060 | | 0.098 | | 0.122 | | 08/26/96 |

^{* =} Regulatory Limit based on total Xylene.



Short Elliott Hendrickson,Inc. 421 Frenette Drive Chippewa Falls , WI 54729

Attn: John Guhl

CUST NUMBER: FRASE9401.00

SAMPLED BY: Client
DATE REC'D: 08/20/96
REPORT DATE: 08/30/96
PREPARED BY: CKV CCU
REVIEWED BY: 5pm

| Client Sample | MW-1,5-7' | , Enviroscan Analytical # 74871, Results are in Units of mg/ | kg |
|---------------|-----------|--|----|
| | | 01: | |

| | | LUST | LUST | | R | ESUL1 | #X | Control | Analysis |
|-------------------------|-------|-------|-------|---|-------|-------|-------|------------|----------|
| Method EPA 8021 | MDL | LOD | LOQ | | Wet | | Dry | Qualifiers | Date |
| | | | | | | | | | |
| Benzene | 0.012 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/23/96 |
| Ethylbenzene | 0.006 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/23/96 |
| Methyl tert Butyl Ether | 0.016 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/23/96 |
| 1,2,4-Trimethylbenzene | 0.007 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/23/96 |
| 1,3,5-Trimethylbenzene | 0.019 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/23/96 |
| m- & p-Xylene | 0.011 | 0.025 | 0.060 | | 0.041 | | 0.041 | | 08/23/96 |
| o-Xylene & Styrene | 0.010 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/23/96 |
| Toluene | 0.003 | 0.025 | 0.060 | | 0.035 | | 0.035 | | 08/23/96 |

Client Sample MW-3, 12.5-14.5 , Enviroscan Analytical # 74872, Results are in Units of mg/kg

| | | LUST | LUST | | RI | ESULT | | Control | Analysis |
|-------------------------|-------|-------|-------|---|-------|-------|-------|------------|----------|
| Method EPA 8021 | MDL | LOD | LOQ | | Wet | | Dry | Qualifiers | Date |
| | | | | | | | | | |
| Benzene | 0.012 | 0.025 | 0.060 | | 0.045 | | 0.045 | | 08/23/96 |
| Ethylbenzene | 0.006 | 0.025 | 0.060 | | 0.032 | | 0.032 | | 08/23/96 |
| Methyl tert Butyl Ether | 0.016 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/23/96 |
| 1,2,4-Trimethylbenzene | 0.007 | 0.025 | 0.060 | | 0.063 | | 0.063 | | 08/23/96 |
| 1,3,5-Trimethylbenzene | 0.019 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/23/96 |
| m- & p-Xylene | 0.011 | 0.025 | 0.060 | | 0.135 | | 0.135 | | 08/23/96 |
| o-Xylene & Styrene | 0.010 | 0.025 | 0.060 | | 0.045 | | 0.045 | | 08/23/96 |
| Toluene | 0.003 | 0.025 | 0.060 | | 0.126 | | 0.126 | | 08/23/96 |
| | | | | | | | | | |

Client Sample MW-4, 7.5-9.5', Enviroscan Analytical # 74873, Results are in Units of mg/kg

| | | LUST | LUST | | RI | ESULT | 9 | Control | Analysis |
|-------------------------|-------|-------|-------|---|-------|-------|-------|------------|----------|
| Method EPA 8021 | MDL | LOD | LOQ | | Wet | | Dry | Qualifiers | Date |
| | | | | | | | | | |
| Benzene | 0.012 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/28/96 |
| Ethylbenzene | 0.006 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/28/96 |
| Methyl tert Butyl Ether | 0.016 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/28/96 |
| 1,2,4-Trimethylbenzene | 0.007 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/28/96 |
| 1,3,5-Trimethylbenzene | 0.019 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/28/96 |
| m- & p-Xylene | 0.011 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/28/96 |
| o-Xylene & Styrene | 0.010 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/28/96 |
| Toluene | 0.003 | 0.025 | 0.060 | | 0.026 | | 0.026 | | 08/28/96 |

Client Sample MW-5, 2.5-4.5', Enviroscan Analytical # 74874, Results are in Units of mg/kg

| | | LUST | LUST | | RI | ESULT | e e | Control | Analysis |
|-------------------------|-------|-------|-------|---|-------|-------|-------|------------|----------|
| Method EPA 8021 | MDL | LOD | LOQ | | Wet | | Dry | Qualifiers | Date |
| | | | | | | - | | | |
| Benzene | 0.012 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/23/96 |
| Ethylbenzene | 0.006 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/23/96 |
| Methyl tert Butyl Ether | 0.016 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/23/96 |
| 1,2,4-Trimethylbenzene | 0.007 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/23/96 |
| 1,3,5-Trimethylbenzene | 0.019 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/23/96 |
| m- & p-Xylene | 0.011 | 0.025 | 0.060 | | 0.041 | | 0.041 | | 08/23/96 |
| o-Xylene & Styrene | 0.010 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/23/96 |
| Toluene | 0.003 | 0.025 | 0.060 | | 0.037 | | 0.037 | | 08/23/96 |

^{* =} Regulatory Limit based on total Xylene.



Attn: John Guhl

CUST NUMBER: FRASE9401.00 SAMPLED BY: Client DATE REC'D: 08/20/96

REPORT DATE: 08/30/96 PREPARED BY: CKV CKV REVIEWED BY: 50m

| 9 | | LUST | LUST | | R | ESUL1 | 7 | Quality Control | Analysis |
|-------------------------|-------|-------|-------|---|-------|-------|-------|--------------------|----------|
| Method EPA 8021 | MDL | LOD | LOQ | | Wet | | Dry | Qualifiers | Date |
| | | | | | | | | | |
| Benzene | 0.012 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/23/96 |
| Ethylbenzene | 0.006 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/23/96 |
| Methyl tert Butyl Ether | 0.016 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/23/96 |
| 1,2,4-Trimethylbenzene | 0.007 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/23/96 |

1,3,5-Trimethylbenzene 0.019 0.025 0.060 0.025 0.025 08/23/96 0.060 0.038 0.038 08/23/96 m- & p-Xylene 0.011 0.025 0.010 0.025 0.060 0.025 0.025 08/23/96 o-Xylene & Styrene Toluene 0.003 0.025 0.060 0.034 0.034 08/23/96

Client Sample B-1,7.5-9.5' , Enviroscan Analytical # 74876, Results are in Units of mg/kg

Client Sample B-1, 2.5-4.5', Enviroscan Analytical # 74875, Results are in Units of mg/kg

| | | LUST | LUST | | RI | ESULT | in . | Control | Analysis |
|-------------------------|-------|-------|-------|---|-------|-------|-------|------------|----------|
| Method EPA 8021 | MDL | LOD | LOQ | | Wet | | Dry | Qualifiers | Date |
| | | | | | | | | | |
| Benzene | 0.012 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/23/96 |
| Ethylbenzene | 0.006 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/23/96 |
| Methyl tert Butyl Ether | 0.016 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/23/96 |
| 1,2,4-Trimethylbenzene | 0.007 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/23/96 |
| 1,3,5-Trimethylbenzene | 0.019 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/23/96 |
| m- & p-Xylene | 0.011 | 0.025 | 0.060 | | 0.100 | | 0.100 | | 08/23/96 |
| o-Xylene & Styrene | 0.010 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/23/96 |
| Toluene | 0.003 | 0.025 | 0.060 | | 0.101 | | 0.101 | | 08/23/96 |

Client Sample B-2,2.5-4.5', Enviroscan Analytical # 74877, Results are in Units of mg/kg

| | | LUST | LUST | | RI | ESULT | | Control | Analysis |
|-------------------------|-------|-------|-------|---|-------|-------|-------|------------|----------|
| Method EPA 8021 | MDL | LOD | LOQ | | Wet | | Dry | Qualifiers | Date |
| | | | | | | - | | | |
| Benzene | 0.012 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/22/96 |
| Ethylbenzene | 0.006 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/22/96 |
| Methyl tert Butyl Ether | 0.016 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/22/96 |
| 1,2,4-Trimethylbenzene | 0.007 | 0.025 | 0.060 | | 0.027 | | 0.027 | | 08/22/96 |
| 1,3,5-Trimethylbenzene | 0.019 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/22/96 |
| m- & p-Xylene | 0.011 | 0.025 | 0.060 | | 0.095 | | 0.095 | | 08/22/96 |
| o-Xylene & Styrene | 0.010 | 0.025 | 0.060 | | 0.027 | | 0.027 | | 08/22/96 |
| Toluene | 0.003 | 0.025 | 0.060 | | 0.090 | | 0.090 | | 08/22/96 |

, Enviroscan Analytical # 74878, Results are in Units of mg/kg Client Sample B-2,5-7'

| | | LUST | LUST | | RI | ESULT | | Control | Analysis |
|-------------------------|-------|-------|-------|---|-------|-------|-------|------------|----------|
| Method EPA 8021 | MDL | LOD | LOQ | | Wet | | Dry | Qualifiers | Date |
| | | | | | | | | ********* | |
| Benzene | 0.012 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/22/96 |
| Ethylbenzene | 0.006 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/22/96 |
| Methyl tert Butyl Ether | 0.016 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/22/96 |
| 1,2,4-Trimethylbenzene | 0.007 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/22/96 |
| 1,3,5-Trimethylbenzene | 0.019 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/22/96 |
| m- & p-Xylene | 0.011 | 0.025 | 0.060 | | 0.048 | | 0.048 | | 08/22/96 |
| o-Xylene & Styrene | 0.010 | 0.025 | 0.060 | < | 0.025 | < | 0.025 | | 08/22/96 |
| Toluene | 0.003 | 0.025 | 0.060 | | 0.038 | | 0.038 | | 08/22/96 |

⁼ Regulatory Limit based on total Xylene.



CUST NUMBER: FRASE9401.0 SAMPLED BY: Client DATE REC'D: 08/20/96 REPORT DATE: 08/30/96 PREPARED BY: CKV &

REVIEWED BY: ZM

Attn: John Guhl

| Actif. Comi Guili | | | | | |
|---|------------------------------|---------------------------|---|-------------------|---|
| | Units | Reporting Limit | HAX-3 08/15/96 | Qualifiers | Date Analyzed |
| EPA 160.3 Total Solids | 8 | - | 78.6 | | 08/20/96 |
| EPA 6010 Chromium Lead | mg/kg mg/kg | 1.1 5.1 | 10.5 33.3 | | 08/27/96 08/27/96 |
| Analytical No.: | | | 74862 | | |
| | Units | Reporting Limit | HAX-4 08/15/96 | Qualifiers | Date Analyzed |
| EPA 160.3 Total Solids | ક | ST. | 92.4 | | 08/20/96 |
| EPA 6010 Chromium Lead | mg/kg mg/kg | 0.9 4.3 | 3.35 X | | 08/27/96 08/27/96 |
| Analytical No.: | | | 74863 | | |
| | | | | | |
| | | ă. | | | |
| | Units | Reporting Limit | HAX-5 08/15/96 | Qualifiers | Date Analyzed |
| EPA 160.3 Total Solids | Vnits % | | | Qualifiers | |
| EPA 160.3 Total Solids EPA 6010 Chromium Lead | | Limit | 08/15/96 | Qualifiers | Analyzed |
| Total Solids EPA 6010 Chromium | % mg/kg | Limit | 08/15/96 81.2 2.92 | Qualifiers | Analyzed 08/20/96 08/27/96 |
| Total Solids EPA 6010 Chromium Lead | % mg/kg | Limit | 08/15/96 81.2 2.92 X | Qualifiers | Analyzed 08/20/96 08/27/96 |
| Total Solids EPA 6010 Chromium Lead | % mg/kg | Limit | 08/15/96 81.2 2.92 X | <u>Qualifiers</u> | Analyzed 08/20/96 08/27/96 |
| Total Solids EPA 6010 Chromium Lead | % mg/kg mg/kg | Limit 1.0 4.9 Reporting | 08/15/96 81.2 2.92 X 74864 | * | Analyzed 08/20/96 08/27/96 08/27/96 |
| Total Solids EPA 6010 Chromium Lead Analytical No.: | % mg/kg mg/kg Units | Limit 1.0 4.9 Reporting | 08/15/96 81.2 2.92 X 74864 HAX-6 08/15/96 | * | Analyzed 08/20/96 08/27/96 08/27/96 Date Analyzed |

X = Analyzed but not detected.
Results calculated on a dry weight basis.

All analyses conducted in accordance with Enviroscan Quality Assurance Program.

Enviroscan Corp., 303 West Military Rd., Rothschild, WI 54474 1/800/338-SCAN Wisconsin Lab Certification No. 737053130



Short Elliott Hendrickson, Inc. 421 Frenette Drive Chippewa Falls , WI 54729

CUST NUMBER: FRASE9401.0 SAMPLED BY: Client DATE REC'D: 08/20/96 REPORT DATE: 08/30/96 PREPARED BY: CKV

REVIEWED BY: CKV

Attn: John Guhl

Analytical No.:

| Attn: John Guhl | | | | | |
|------------------------------|----------------|--------------------|----------------------------|-------------------|-------------------------|
| | Units | Reporting Limit | AOC 5, HA-1 08/16/96 | <u>Qualifiers</u> | Date <u>Analyzed</u> |
| EPA 160.3 Total Solids | 8 | - | 92.0 | | 08/20/96 |
| EPA 6010 Chromium Lead | mg/kg mg/kg | 0.9 4.3 | 16.1 38.5 | | 08/27/96 08/27/96 |
| Analytical No.: | | | 74866 | | |
| | | | | | |
| | Units | Reporting Limit | AOC 5, HA-2 08/16/96 | Qualifiers | Date Analyzed |
| EPA 160.3 Total Solids | 8 | - | 89.7 | | 08/20/96 |
| EPA 6010 Chromium Lead | mg/kg mg/kg | 0.93 4.5 | 14.9 20.4 | | 08/27/96 08/27/96 |
| Analytical No.: | | | 74867 | | |
| | | | | | |
| | Units | Reporting Limit | AOC 5 HA-3 08/16/96 | <u>Qualifiers</u> | Date Analyzed |
| EPA 160.3 Total Solids | ક | - | 88.1 | | 08/20/96 |
| EPA 6010 Chromium Lead | mg/kg mg/kg | 0.94 4.5 | 17.4 48.3 | | 08/27/96 08/27/96 |
| Analytical No.: | | , | 74868 | | |
| | Units | Reporting Limit | AOC11,LYS1 0-6 08/12/96 | Qualifiers | Date <u>Analyzed</u> |
| EPA 160.3 Total Solids | ક | - | 72.9 | | 08/20/96 |
| EPA 6010 Lead | mg/kg | 5.5 | x | | 08/27/96 |
| | | | | | |

74869

X = Analyzed but not detected.
Results calculated on a dry weight basis.
All analyses conducted in accordance with Enviroscan Quality Assurance Program.



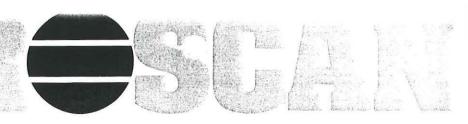
Short Elliott Hendrickson, Inc. 421 Frenette Drive Chippewa Falls , WI 54729 CUST NUMBER: FRASE9401.0
SAMPLED BY: Client
DATE REC'D: 08/20/96
REPORT DATE: 08/30/96
PREPARED BY: CKVOC
REVIEWED BY: 5244

Attn: John Guhl

| | Units | Reporting AC | 0C11,LYS12-2.5 08/12/96 | Qualifiers | Date Analyzed |
|---------------------------|-------|--------------|----------------------------|------------|------------------|
| EPA 160.3 Total Solids | 8 | ¥ | 77.7 | | 08/20/96 |
| EPA 6010 Lead | mg/kg | 5.1 | x | | 08/27/96 |
| Analytical No.: | | | 74870 | | |

X = Analyzed but not detected.Results calculated on a dry weight basis.





CUST NUMBER: FRASE9401.0 SAMPLED BY: Client DATE REC'D: 08/20/96 REPORT DATE: 08/30/96

PREPARED BY: CKV av

REVIEWED BY: 300

Attn: John Guhl

Qualifier Descriptions

| CSH | Check standard for this analyte exhibited a high bias. Sample results may also be biased high. Non-detects were verified by comparison with a low standard. |
|-----|--|
| SPH | The matrix spike included with this analytical batch had a high recovery. Since that sample matrix appears similar to your sample, your result may also be high. |
| SPL | The matrix spike included with this analytical batch had a low recovery. Since that sample matrix appears similar to your sample, your result may also be low. |
| DUP | Result of duplicate analysis in this quality assurance batch exceeds the limits for precision. Sample results may also show a degree of variability. |
| CSL | Check standard for this analyte exhibited a low bias. Sample results may also be biased low. Non-detects were verified by comparison with a low standard. |





SAMPLED BY: Client
DATE REC'D: 08/20/96
REPORT DATE: 08/30/96
PREPARED BY: CKV CKV

CUST NUMBER: FRASE9401.00

REVIEWED BY: 200

Attn: John Guhl

Modified Diesel Range Organics (DRO)
Parameter # 78919

| _ | DRO | Qualifiers | Date Ext | Date Analyzed | Analytical No. |
|----------------|------|------------|----------|------------------|-------------------|
| MW-1,5-7' | 4.92 | D3 | 08/21/96 | 08/25/96 | 74871 |
| MW-5, 2.5-4.5' | 75.4 | D2 D4 | 08/21/96 | 08/27/96 | 74874 |
| B-1, 2.5-4.5' | 16.8 | D2 | 08/21/96 | 08/25/96 | 74875 |
| B-1,7.5-9.5' | 4.12 | D3 | 08/21/96 | 08/25/96 | 74876 |
| B-2,2.5-4.5' | 6.32 | D3 | 08/21/96 | 08/25/96 | 74877 |
| B-2,5-7' | X | | 08/21/96 | 08/25/96 | 74878 |

Reporting Limit 5.0

Units mg/kg X = Analyzed but not detected.

Results calculated on a dry weight basis.

Qualifiers:

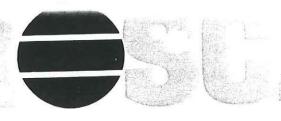
Only above indicated qualifiers apply.

- (D1) The chromatogram is characteristic for a fuel oil/diesel. (i.e. #1 or #2 Diesel, jet fuel, kerosene, aged or degraded diesel, etc.)
- (D2) The chromatogram is not characteristic for diesel. It has the characteristics of a product which has significant peaks within the DRO window.
- (D2A) The chromatogram is characteristic for a light petroleum product (i.e. gasoline, aged or degraded gasoline, mineral spirits, etc.)
- (D2B) The chromatogram is characteristic for a heavier petroleum product other than diesel (i.e. motor oil, hydraulic oil, etc.)
- (D3) The chromatogram is not characteristic for diesel or any single common petroleum product.
- (D4) The chromatogram contained significant peaks outside the DRO window.
- (D5) The chromatogram contained significant peaks and a raised baseline outside the DRO window.

The entire area within the DRO window was quantitated.

The replicate spike recovery of this batch of samples was found to be 95.0% and 87.5%.

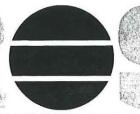
QUALITY ASSURANCE



Sample Receipt Report

| Client: | Short Date Received: \\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |
|---------|--|
| Analyt | ical No.: 74862 Through 74878 |
| Check | all deviations from EPA or WDNR sample protocol. |
| [] | Sample(s) received at°C which is above the EPA and WDNR limit of 4°C. |
| [] | VOC vial(s) received with headspace. Explain: |
| [] | Sample(s) received in bottles not furnished by Enviroscan. Preservation method, if used, is unknown. |
| [] | Sample(s) not properly preserved per EPA/WDNR protocol for the following: |
| [] | Sample(s) received beyond EPA holding time for: |
| [] | Sample date/time not supplied by client. Actual holding time unknown. |
| [] | GRO/PVOC/VOC/DRO (circle appropriate) sample(s) are <19.5 gms and this report is the flag for that information. Sample(s) under-weight: |
| ð | GRO/PVOC/VOC (circle appropriate) sample(s) were between 26.4-35.4 gms so methanol was added in a 1:1 ratio. Sample(s) included: 74871 =73m1, 74873 =>3m1, 74877 =>4877 =>65m1 |
| [] | GRO/PVOC/VOC/DRO (circle appropriate) sample(s) were >35.4 gms and are required to be rejected. Sample(s) included: |
| M | Other: report on wet weight no Total solid for samples, 74871374978 |
| Client | contact concerning the above deviations: |
| | Tohn Guhl (contact name) notified of the above deviation(s) on 8122194 : oc am/pm by Knyatty and the client ordered: (signature) |
| | Proceed with analyses as ordered. [] Proceed with analyses after taking the following corrective action: |
| | [] Do NOT proceed with analyses. |

REQUEST FOR SERVICES





| REPORT TO: | /V. IVIILI | 173111 | . II | 0111001 | BILL TO: (i | | | | | | |
|--|------------|---------------------------|----------------------|-------------|------------------------------|--------|--|----------------------------|-----------|----------------|------------|
| Name: JOHN GUH | | | | | Name: | | | | | | |
| Company: SHART EL | | | | INC. | Company: _ | | | | | | |
| Address: 421 FR€ | | | | | Address: | | | | | | |
| C.F. WI | | | | | Dh / | | 1 | | | | |
| Phone: (715)72 | 0-620 | 0 | | - | Phone: (| | | | | | - |
| Project # FRASE 9401.00 | Ouc | nte # | 7741-9 | | | | AN | ALYTI | CAL F | REQUEST | S |
| 1 10ject #_11 11 11- | Que | nc # | | | | | | | ate sheet | necessary) | |
| Sample Type (Check all that app Groundwater Wastewater | ly) | Norm | (Pre-approv | ved by Lab) | | | 0 | locio) | 2 | 17- PUBC CARON | |
| Soil/Solid | | | | | | | W.3 | 13 | \$ |]/°/ | |
| ☐ Drinking Water☐ Oil☐ Vapor | | Approved | d By | | | | 72. C. | TOTHE CHE | | | |
| ☐ Other | | | | | | | n/ | J/ J | 7/ | / | |
| LAB USE ONLY | DATE | TIME | No. of Containers | SAI | MPLE ID | // | 70° CS | 7 7 | | 2/ RE | MARKS |
| 21074862 | 8-15-% | | | HAX- | 3 | | | | | , | |
| 21074863 | 8-15-96 | | / | HAX- | me a | | | | | | |
| 21074864 | 8-15-96 | | / | HAX-S | | / | | 4 | | | |
| 21074865 | 8-15-96 | | | HAX- | | | | | | | - |
| 21074866 | 8-16-96 | | | AOC \$ 1 | 14-1, 0-6" | | | | | | |
| 21074867 | 8-16-96 | | | ADC \$ | HA-2, 0"6" | | | | | | |
| 21074868 | 8-16-96 | | | Aoc*5 | MA-3,0"-6" | | | 4 | | | |
| 21074869 | 8-12-96 | | | Aoc 11 | L751, 0"-6" | | | | | e | |
| 21074870 | 8-12-96 | | | AOCTI, | LYS 1 , Z-2.5 | | | | | PUCC = 0 | 102.3 |
| 21074871 | 8-16-96 | With the Burney Committee | | MW-1 | , 5-7 | | | | | DRO = a | |
| CHAIN OF SAMPLERS: (Signatu | ıre) | ГOD | | | | 7 | 2.7 | Ship. (Sample Seals | Cont. Ol | | N/A N/A |
| John E. | | 1 | | | | | | Comm | ents: | | |
| RELINQUISHED BY: | | 9) 1 | DATE/TIME | REC | EIVED BY: (Sig | gnatur | e) _ | | | | |
| John E. Has | el | 8-19 | 9-96 10; | 30am | | | | | | | |
| RELINQUISHED BY: | , | | DATE/TIME | | EIVED BY: (Sig | gnatur | e) | | | | |
| RELINQUISHED BY: | (Signature | e) [| DATE/TIME | BY: (| EIVED FOR LAB (Signature) | | | DATE/ | FIME 9:00 | wt g clien | tive by |

REQUEST FOR SERVICES



303 W. MILITARY RD. ROTHSCHILD, WI 54474 1-800-338-SCAN

| REPORT TO: Name: JOHN GU | ш | | | | | BILL TO: (| | | | eport To | o info): |
|--|--------------|-----------|----------------|-------|-------------------|--|---------|--------|---------------------------------------|----------|--|
| Company: SHORT EL | TOTT | HENN | RICKS | N | INC | | | | | | |
| Address: 421 FREM | ETTE | DRIVE | _ | | 1.40. | Address: | | | | | |
| C. F. | W1 | | | | | _ | | | | | |
| | 20-62 | 200 | | | | Phone: (| |) | | | |
| P.O. # FRASER | | | | | | | | 1A | TYIA | ICAL I | REQUESTS |
| Project # FRASE 9401.00 | Quo | te # | | | | | | | | | et if necessary) |
| Sample Type (Check all that apply Groundwater Wastewater Soil/Solid Drinking Water Oil Vapor Other | ĺ | Norm Rush | (Pre-ap | prove | ime ed by Lab) | | | | | | |
| (2) (2) (4) (4) (4) (4) (4) (4) (4) | | | No. | of | | | +/ | | 2// | / / | |
| LAB USE ONLY | DATE | TIME | Contai | | SAI | MPLE ID | 1/0 | يخ /لخ | 5/ / | | |
| EAD OOL ONE | DAIL | 1 HVIL | COMP | GRAB | OAI | WI LE 10 | 1 | / - | / / | / | / REMARKS |
| 04.084.080 | 8-16-96 | | | / | M. 1-3 | 12.5-14.5 | / | | | | POOC 264 |
| W-20-10-W- | | | ' | | | • | 1 | | | _ | pua: = 29.0 |
| | 8-16-96 | | - | /, | MW-4 | 7.5'-9.5' | / | | | - | pucc = 28.7 |
| 21074874 | 8-16-96 | | | | MW-S. | 2.5 - 4.5 | | | | | DRO= 27.6 |
| 21074875 | | | | / | , | 2.5'-4.5' | | | | | pv0c = 260 |
| | 8-16-96 | | | | B-1, | , , | | | | | DRD= 253 |
| 21074876 | 8-16-96 | | | | B-1 | 7.5-9.5 | | | | | PUNC - 25.5 DE0 = 21.0 PUCC = 27.5 |
| 21074877 | B-16-96 | | | | B-Z | 2.5-4.5 | | | | | POOC = 27.5 |
| | | | | | 3 | - ' - ' | | | | | PUOC - 26 4 |
| 21074878 | 8-16-96 | | | | B-2, | 5-7 | | | | _ | DR0= 28/6 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | MONTH BUT DO | | IA USAFACO | 00707 | | | | | | | |
| ted to sea of the beg | en yesahi | | | | | | | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 17 No 2 | |
| CHAIN OF (SAMPLERS: (Signatur | - W | rod | ΥR | EC | CORD | | 7 | | Ship. Samp Seals | Cont. C | |
| | | | | | | | | | Come | nonto: | |
| RELINQUISHED BY: (| Sianatura | 1 (| DATE/T | IME | BEC | EIVED BY: (Si | anatur | (م | Comm | nents: _ | |
| TILLINGOIOI ILD DT. (| Jigiralure | , l | -/\IE/I | IIVIL | INLO | LIVED D1. (O) | griatui | 5) | | | |
| | | | | | | | | | | | |
| RELINQUISHED BY: (| Signature |) [| DATE/T | IME | REC | EIVED BY: (Si | gnatur | e) | | | |
| | | | | | | | | | | | |
| DELINOUS EN C | 0' | | \ ATE (** | 18.4= | | -11/55 505 11/5 | OF A | 2017 | STREET, STREET | | T/I |
| RELINQUISHED BY: (| Signature | ן ני | DATE/T | IME | BY: | EIVED FOR LAB (Signature) ************************************ | 相差是 | | DATE | | |

ENVIRESCAN

September 16, 1996

ENVIRONMENTAL AND ANALYTICAL SERVICES

Short Elliott Hendrickson, Inc. 421 Frenette Drive Chippewa Falls , WI 54729

SEP 18 1999

Attn: John Guhl

Re: FRASE9401.00

Please find enclosed the analytical results for the samples received August 31, 1996.

All analyses were completed in accordance with appropriate EPA and Wisconsin methodologies. Methods and dates of analysis are included in the report tables.

The chain of custody document is enclosed.

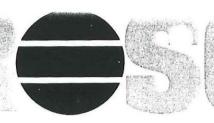
If you have any questions about the results, please call. Thank you for using US Filter/Enviroscan for your analytical needs.

Sincerely,

US Filter/Enviroscan

Jay C. Hunger

Analytical Chemist



CUST NUMBER: FRASE9401.0

SAMPLED BY: Client DATE REC'D: 08/31/96 REPORT DATE: 09/16/96 PREPARED BY: JCH LA

REVIEWED BY:

Attn: John Guhl

Reporting MW-1 Date Units Limit 08/29/96 Qualifiers Analyzed EPA 213.2 Cadmium (GFAAS) $\mu g/1$ 0.21 1.88 09/07/96 EPA 239.2 Lead (GFAAS) $\mu g/1$ 1.0 X 09/04/96 EPA 8021 0.5 X 09/06/96 Benzene $\mu g/1$ 2.0 X 09/06/96 Bromobenzene $\mu g/1$ X Bromodichloromethane $\mu g/1$ 1.0 09/06/96 $\mu g/1$ 1.0 X 09/06/96 n-Butylbenzene X 09/06/96 $\mu g/1$ sec-Butylbenzene 1.0 $\mu g/1$ 1.0 X 09/06/96 tert-Butylbenzene $\mu g/1$ Carbon Tetrachloride X 09/06/96 1.0 $\mu g/1$ X 09/06/96 Chlorobenzene 1.0 $\mu g/1$ X Chlorodibromomethane 1.0 09/06/96 $\mu g/1$ X CSL Chloroethane 1.0 09/06/96 X Chloroform $\mu g/1$ 1.0 09/06/96 X CSL 09/06/96 Chloromethane $\mu g/1$ 2.0 X o-Chlorotoluene $\mu g/1$ 1.0 09/06/96 p-Chlorotoluene $\mu g/1$ 2.0 X 09/06/96 X 09/06/96 1,2-Dibromo-3-chloropropane μg/l 1.0 X 09/06/96 1,2-Dibromoethane $\mu g/1$ 1.0 μg/l 09/06/96 1,2-Dichlorobenzene X 1.0 $\mu g/1$ 1,3-Dichlorobenzene X 09/06/96 1.0 $\mu g/1$ X 1,4-Dichlorobenzene 1.0 09/06/96 X Dichlorodifluoromethane $\mu g/1$ 2.0 09/06/96 X 09/06/96 1,1-Dichloroethane 1.0 $\mu g/1$ X 1,2-Dichloroethane $\mu g/1$ 1.0 09/06/96 X 1,1-Dichloroethylene $\mu g/1$ 1.0 09/06/96 X $\mu g/1$ 09/06/96 cis-1,2-Dichloroethylene 2.0 $\mu g/1$ X 09/06/96 trans-1,2-Dichloroethylene 1.0 $\mu g/1$ X 09/06/96 1,2-Dichloropropane 1.0 μg/l 1,3-Dichloropropane 1.0 X 09/06/96 2,2-Dichloropropane $\mu g/1$ X 2.0 09/06/96 X Ethylbenzene $\mu g/1$ 1.0 SPH 09/06/96 X 09/06/96 Hexachlorobutadiene $\mu g/1$ 1.0 Isopropylbenzene $\mu g/1$ 1.0 X 09/06/96 Isopropyl Ether $\mu g/1$ 1.0 X 09/06/96 $\mu g/1$ X p-Isopropyltoluene 1.0 09/06/96 X 09/06/96 Methyl tert Butyl Ether $\mu g/1$ 1.0 Methylene Chloride $\mu g/1$ CSL 09/06/96 2.0 X Naphthalene 1.0 X 09/06/96 $\mu g/1$

Analytical No.:

75796

X = Analyzed but not detected.



Attn: John Guhl

CUST NUMBER: FRASE9401.0 SAMPLED BY: Client

DATE REC'D: 08/31/96 REPORT DATE: 09/16/96 PREPARED BY: JCH

REVIEWED BY:

| 9 | Units | Reporting Limit | MW-1 08/29/96 | Qualifiers | Date Analyzed |
|---------------------------|-----------|-----------------|------------------|--------------|------------------|
| EPA 8021 | | | | | |
| n-Propylbenzene | $\mu g/1$ | 1.0 | x | | 09/06/96 |
| Tetrachloroethylene | $\mu g/1$ | 1.0 | x | | 09/06/96 |
| 1,1,2,2-Tetrachloroethane | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| Toluene | μg/1 | 1.0 | X | | 09/06/96 |
| 1,2,3-Trichlorobenzene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| 1,2,4-Trichlorobenzene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| 1,1,1-Trichloroethane | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| 1,1,2-Trichloroethane | μg/1 | 1.0 | X | | 09/06/96 |
| Trichloroethylene | $\mu g/1$ | 0.5 | X | | 09/06/96 |
| Trichlorofluoromethane | $\mu g/1$ | 1.0 | X | CSL | 09/06/96 |
| 1,2,4-Trimethylbenzene | $\mu g/1$ | 1.0 | X | SPH | 09/06/96 |
| 1,3,5-Trimethylbenzene | μg/l | 1.0 | X | SPH | 09/06/96 |
| Vinyl Chloride | $\mu g/1$ | 0.2 | x | 1,15,170,000 | 09/06/96 |
| m- & p-Xylene | μg/l | 1.0 | 1.2 | | 09/06/96 |
| o-Xylene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| | 1-31- | | | | ,, |
| EPA 8310 | | | | | |
| Acenaphthene | $\mu g/1$ | 0.2 | X | | 09/12/96 |
| Acenaphthylene | $\mu g/1$ | 0.04 | X | | 09/12/96 |
| Anthracene | $\mu g/1$ | 0.32 | X | | 09/12/96 |
| Benzo (a) Anthracene | $\mu g/1$ | 0.14 | X | | 09/12/96 |
| Benzo (a) Pyrene | $\mu g/1$ | 0.14 | X | | 09/12/96 |
| Benzo(b) Fluoranthene | $\mu g/1$ | 0.08 | X | | 09/12/96 |
| Benzo(k) Fluoranthene | $\mu g/1$ | 0.06 | X | | 09/12/96 |
| Benzo (ghi) Perylene | $\mu g/1$ | 0.16 | X | | 09/12/96 |
| Chrysene | $\mu g/1$ | 0.06 | X | | 09/12/96 |
| Dibenzo (a, h) Anthracene | $\mu g/1$ | 0.22 | X | | 09/12/96 |
| Fluoranthene | $\mu g/1$ | 0.22 | X | | 09/12/96 |
| Fluorene | $\mu g/1$ | 0.12 | X | | 09/12/96 |
| Indeno (1,2,3-cd) Pyrene | $\mu g/1$ | 0.24 | X | | 09/12/96 |
| 1-Methyl Naphthalene | $\mu g/1$ | 0.04 | X | | 09/12/96 |
| 2-Methyl Naphthalene | $\mu g/1$ | 0.12 | X | | 09/12/96 |
| Naphthalene | $\mu g/1$ | 0.06 | X | | 09/12/96 |
| Phenanthrene | $\mu g/1$ | 0.24 | 0.251 | | 09/12/96 |
| Pyrene | $\mu g/1$ | 0.18 | 0.207 | | 09/12/96 |
| | - | | | | |
| Analytical No.: | | , | 75796 | | |

X = Analyzed but not detected.



CUST NUMBER: FRASE9401.0 SAMPLED BY: Client

DATE REC'D: 08/31/96

REVIEWED BY:

Attn: John Guhl

| | Units | Reporting Limit | MW-2 08/29/96 | Qualifiers | Date Analyzed | |
|-------------------------------|-------|-----------------|------------------|------------|------------------|--|
| EPA 218.2 Chromium (GFAAS) | μg/l | 1.0 | х | | 09/10/96 | |
| EPA 239.2 Lead (GFAAS) | μg/l | 1.0 | 48.8 | | 09/04/96 | |
| Analytical No.: | | | 75797 | | | |

X = Analyzed but not detected.

Police --- Comp. 202 West Military Pd. Pothschild WI 54474 1/800/338 SCAN Wisconsin Lab Cortification No. 737052120



Short Elliott Hendrickson, Inc. 421 Frenette Drive Chippewa Falls , WI 54729 CUST NUMBER: FRASE9401.0 SAMPLED BY: Client DATE REC'D: 08/31/96 REPORT DATE: 09/16/96

REPORT DATE: 09/16/96 PREPARED BY: JCHUL

REVIEWED BY:

Attn: John Guhl

| | Units | Reporting Limit | MW-3 08/29/96 | <u>Oualifiers</u> | Date <u>Analyzed</u> |
|-------------------------|-----------|-----------------|------------------|-------------------|-------------------------|
| EPA 8021_ | | | | | |
| Benzene | $\mu g/1$ | 0.5 | X | | 09/04/96 |
| Ethylbenzene | $\mu g/1$ | 1.0 | X | | 09/04/96 |
| Methyl tert Butyl Ether | $\mu g/1$ | 1.0 | X | | 09/04/96 |
| Toluene | $\mu g/1$ | 1.0 | X | | 09/04/96 |
| 1,2,4-Trimethylbenzene | $\mu g/1$ | 1.0 | X | | 09/04/96 |
| 1,3,5-Trimethylbenzene | $\mu g/1$ | 1.0 | X | | 09/04/96 |
| m- & p-Xylene | $\mu g/1$ | 1.0 | X | | 09/04/96 |
| o-Xylene | $\mu g/1$ | 1.0 | X | | 09/04/96 |
| Analytical No.: | | | 75798 | | |

X = Analyzed but not detected.



Short Elliott Hendrickson, Inc. 421 Frenette Drive Chippewa Falls , WI 54729 CUST NUMBER: FRASE9401.0 SAMPLED BY: Client DATE REC'D: 08/31/96

REPORT DATE: 09/16/96 PREPARED BY: JCH REVIEWED BY:

Attn: John Guhl

| | Units | Reporting Limit | MW-4 08/29/96 | Qualifiers | Date Analyzed | |
|---|----------------------|--------------------|------------------|------------|----------------------------------|--|
| EPA 8021 Benzene | μg/l | 0.5 | x | | 09/04/96 | |
| Ethylbenzene Methyl tert Butyl Ether | μg/l μg/l | 1.0 | X X X | | 09/04/96 09/04/96 | |
| Toluene 1,2,4-Trimethylbenzene | μg/l μg/l | 1.0 1.0 1.0 | X X X | | 09/04/96 09/04/96 09/04/96 | |
| 1,3,5-Trimethylbenzene m- & p-Xylene o-Xylene | μg/l μg/l μg/l | 1.0 | X X | | 09/04/96 09/04/96 09/04/96 | |
| Analytical No.: | F3/1 | 2.0 | 75799 | | 05/01/50 | |

X = Analyzed but not detected.



Attn: John Guhl

CUST NUMBER: FRASE9401.0 SAMPLED BY: Client DATE REC'D: 08/31/96

REPORT DATE: 09/16/96
PREPARED BY: JCH CAR
REVIEWED BY:

| | | Reporting | DUP-1 | | Date |
|----------------------------|-----------|-----------|----------|------------|----------|
| | Units | Limit | 08/29/96 | Qualifiers | Analyzed |
| _ | | | | | , |
| EPA 8021 | | | | | |
| Benzene | $\mu g/1$ | 0.5 | X | | 09/06/96 |
| Bromobenzene | $\mu g/1$ | 2.0 | X | | 09/06/96 |
| Bromodichloromethane | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| n-Butylbenzene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| sec-Butylbenzene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| tert-Butylbenzene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| Carbon Tetrachloride | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| Chlorobenzene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| Chlorodibromomethane | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| Chloroethane | $\mu g/1$ | 1.0 | X | CSL | 09/06/96 |
| Chloroform | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| Chloromethane | $\mu g/1$ | 2.0 | X | CSL | 09/06/96 |
| o-Chlorotoluene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| p-Chlorotoluene | $\mu g/1$ | 2.0 | X | | 09/06/96 |
| 1,2-Dibromo-3-chloropropan | | 1.0 | X | | 09/06/96 |
| 1,2-Dibromoethane | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| 1,2-Dichlorobenzene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| 1,3-Dichlorobenzene | $\mu g/1$ | 1.0 | x | | 09/06/96 |
| 1,4-Dichlorobenzene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| Dichlorodifluoromethane | $\mu g/1$ | 2.0 | X | | 09/06/96 |
| 1,1-Dichloroethane | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| 1,2-Dichloroethane | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| 1,1-Dichloroethylene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| cis-1,2-Dichloroethylene | $\mu g/1$ | 2.0 | X | | 09/06/96 |
| trans-1,2-Dichloroethylene | | 1.0 | X | | 09/06/96 |
| 1,2-Dichloropropane | μg/1 | 1.0 | X | | 09/06/96 |
| 1,3-Dichloropropane | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| 2,2-Dichloropropane | $\mu g/1$ | 2.0 | x | | 09/06/96 |
| Ethylbenzene | $\mu g/1$ | 1.0 | X | SPH | 09/06/96 |
| Hexachlorobutadiene | $\mu g/1$ | 1.0 | x | D111 | 09/06/96 |
| Isopropylbenzene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| Isopropyl Ether | | 1.0 | X | | 09/06/96 |
| p-Isopropyltoluene | μg/1 | 1.0 | X | | 09/06/96 |
| Methyl tert Butyl Ether | $\mu g/1$ | | X | CSL | |
| Methylene Chloride | $\mu g/1$ | 2.0 | | CSL | 09/06/96 |
| Naphthalene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| n-Propylbenzene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| Tetrachloroethylene | $\mu g/1$ | 1.0 | x | | 09/06/96 |
| 1,1,2,2-Tetrachloroethane | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| Toluene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| 1,2,3-Trichlorobenzene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| 1,2,4-Trichlorobenzene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| 1,1,1-Trichloroethane | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| 1,1,2-Trichloroethane | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| Trichloroethylene | μ g/l | 0.5 | X | | 09/06/96 |
| | | | | | |

Analytical No.:

75800

B.1 B. th. -1:14 WI 54474 1 /800 /338 SCAN Wisconsin Lab Cartification No. 727052120



CUST NUMBER: FRASE9401.0

SAMPLED BY: Client
DATE REC'D: 08/31/96
REPORT DATE: 09/16/96
PREPARED BY: JCH

REVIEWED BY: 10

Attn: John Guhl

| | Units | Reporting Limit | DUP-1 08/29/96 | Qualifiers | Date Analyzed |
|------------------------|-----------|-----------------|-------------------|------------|--------------------------------|
| EPA 8021_ | | | | | The Law Hallman and All Horses |
| Trichlorofluoromethane | $\mu g/1$ | 1.0 | X | CSL | 09/06/96 |
| 1,2,4-Trimethylbenzene | $\mu g/1$ | 1.0 | X | SPH | 09/06/96 |
| 1,3,5-Trimethylbenzene | $\mu g/1$ | 1.0 | X | SPH | 09/06/96 |
| Vinyl Chloride | μg/1 | 0.2 | X | | 09/06/96 |
| m- & p-Xylene | $\mu g/1$ | 1.0 | 1.6 | | 09/06/96 |
| o-Xylene | $\mu g/1$ | 1.0 | x | | 09/06/96 |
| Analytical No.: | | | 75800 | | |



Attn: John Guhl

CUST NUMBER: FRASE9401.0

SAMPLED BY: Client DATE REC'D: 08/31/96 REPORT DATE: 09/16/96
PREPARED BY: JCH

REVIEWED BY: \N

| | TT-14- | Reporting | TRIP BLANK | 01.1.51 | Date |
|---|-----------|--------------|------------|-------------------|----------|
| - | Units | <u>Limit</u> | 08/29/96 | <u>Qualifiers</u> | Analyzed |
| EPA 8021 | | | | | |
| Benzene | $\mu g/1$ | 0.5 | Х | | 09/06/96 |
| Bromobenzene | $\mu g/1$ | 2.0 | X | | 09/06/96 |
| Bromodichloromethane | $\mu g/1$ | 1.0 | x | | 09/06/96 |
| n-Butylbenzene | $\mu g/1$ | 1.0 | x | | 09/06/96 |
| sec-Butylbenzene | $\mu g/1$ | 1.0 | x | | 09/06/96 |
| tert-Butylbenzene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| Carbon Tetrachloride | $\mu g/1$ | 1.0 | x | | 09/06/96 |
| Chlorobenzene | μg/1 | 1.0 | X | | 09/06/96 |
| Chlorodibromomethane | μg/1 | 1.0 | X | | 09/06/96 |
| Chloroethane | μg/1 | 1.0 | X | CSL | 09/06/96 |
| Chloroform | μg/1 | 1.0 | X | CDII | 09/06/96 |
| Chloromethane | $\mu g/1$ | 2.0 | X | CSL | 09/06/96 |
| o-Chlorotoluene | $\mu g/1$ | 1.0 | X | CDI | 09/06/96 |
| p-Chlorotoluene | $\mu g/1$ | 2.0 | X | | 09/06/96 |
| 1,2-Dibromo-3-chloropropane | | 1.0 | X | | 09/06/96 |
| 1,2-Dibromoethane | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| 1,2-Dibromoethane 1,2-Dichlorobenzene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| 1,3-Dichlorobenzene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| 1,4-Dichlorobenzene Dichlorodifluoromethane | μg/1 | 2.0 | X | | 09/06/96 |
| | μg/1 | 1.0 | X | | 09/06/96 |
| 1,1-Dichloroethane | μg/1 | | X | | 09/06/96 |
| 1,2-Dichloroethane | $\mu g/1$ | 1.0 | | | |
| 1,1-Dichloroethylene | μg/1 | 1.0 | X | | 09/06/96 |
| cis-1,2-Dichloroethylene | μg/l | 2.0 | X | | 09/06/96 |
| trans-1,2-Dichloroethylene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| 1,2-Dichloropropane | $\mu g/1$ | 1.0 | X | 4 | 09/06/96 |
| 1,3-Dichloropropane | μg/1 | 1.0 | X | | 09/06/96 |
| 2,2-Dichloropropane | $\mu g/1$ | 2.0 | X | an | 09/06/96 |
| Ethylbenzene | μg/1 | 1.0 | X | SPH | 09/06/96 |
| Hexachlorobutadiene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| Isopropylbenzene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| Isopropyl Ether | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| p-Isopropyltoluene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| Methyl tert Butyl Ether | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| Methylene Chloride | $\mu g/1$ | 2.0 | X | CSL | 09/06/96 |
| Naphthalene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| n-Propylbenzene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| Tetrachloroethylene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| 1,1,2,2-Tetrachloroethane | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| Toluene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| 1,2,3-Trichlorobenzene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| 1,2,4-Trichlorobenzene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| 1,1,1-Trichloroethane | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| 1,1,2-Trichloroethane | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| Trichloroethylene | μ g/l | 0.5 | Х | | 09/06/96 |

75801

X = Analyzed but not detected.

Analytical No.:

All analyses conducted in accordance with Enviroscan Quality Assurance Program.

Facilities -- Comp. 202 Most Military D.J. D. H. - 1:11 MILETER 1 (000 (220 CC 1)) 141



Attn: John Guhl

CUST NUMBER: FRASE9401.0

SAMPLED BY: Client DATE REC'D: 08/31/96 REPORT DATE: 09/16/96 PREPARED BY: JCH CAREVIEWED BY:

| | Units | Reporting Limit | TRIP BLANK _08/29/96 | Qualifiers | Date Analyzed |
|------------------------|-----------|-----------------|-------------------------|------------|------------------|
| EPA 8021_ | | | | | |
| Trichlorofluoromethane | $\mu g/1$ | 1.0 | X | CSL | 09/06/96 |
| 1,2,4-Trimethylbenzene | $\mu g/1$ | 1.0 | X | SPH | 09/06/96 |
| 1,3,5-Trimethylbenzene | $\mu g/1$ | 1.0 | X | SPH | 09/06/96 |
| Vinyl Chloride | $\mu g/1$ | 0.2 | X | | 09/06/96 |
| m- & p-Xylene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| o-Xylene | $\mu g/1$ | 1.0 | X | 8 E0 | 09/06/96 |
| Analytical No.: | | | 75801 | 38 | |





CUST NUMBER: FRASE9401.0

SAMPLED BY: Client
DATE REC'D: 08/31/96
REPORT DATE: 09/16/96
PREPARED BY: JCH / L/A
REVIEWED BY: \

Attn: John Guhl

| | | Reporting | MW-5 | | Date |
|-----------------------------|-----------|-----------|----------|------------|-----------|
| | Units | Limit | 08/29/96 | Qualifiers | Analyzed_ |
| - | | | | | |
| EPA 213.2 | /3 | 0.01 | | | / / |
| Cadmium (GFAAS) | μ g/l | 0.21 | 2.84 | | 09/07/96 |
| EPA 218.2 | | | | | |
| Chromium (GFAAS) | $\mu g/l$ | 1.0 | X | | 09/10/96 |
| TD3 020 0 | | | | | |
| EPA 239.2 Lead (GFAAS) | $\mu g/1$ | 1.0 | х | | 09/04/96 |
| Dead (GIIID) | M3/ = | 2.0 | 21 | | 03/04/30 |
| EPA 8021 | | | | | |
| Benzene | $\mu g/1$ | 0.5 | X | | 09/06/96 |
| Bromobenzene | $\mu g/1$ | 2.0 | X | | 09/06/96 |
| Bromodichloromethane | $\mu g/1$ | 1.0 | Х | | 09/06/96 |
| n-Butylbenzene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| sec-Butylbenzene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| tert-Butylbenzene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| Carbon Tetrachloride | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| Chlorobenzene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| Chlorodibromomethane | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| Chloroethane | $\mu g/1$ | 1.0 | X | CSL | 09/06/96 |
| Chloroform | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| Chloromethane | $\mu g/1$ | 2.0 | X | CSL | 09/06/96 |
| o-Chlorotoluene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| p-Chlorotoluene | $\mu g/1$ | 2.0 | X | | 09/06/96 |
| 1,2-Dibromo-3-chloropropane | | 1.0 | X | | 09/06/96 |
| 1,2-Dibromoethane | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| 1,2-Dichlorobenzene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| 1,3-Dichlorobenzene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| 1,4-Dichlorobenzene | μg/1 | 1.0 | x | | 09/06/96 |
| Dichlorodifluoromethane | $\mu g/1$ | 2.0 | X | | 09/06/96 |
| 1,1-Dichloroethane | $\mu g/1$ | 1.0 | x | | 09/06/96 |
| 1,2-Dichloroethane | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| 1,1-Dichloroethylene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| cis-1,2-Dichloroethylene | μg/1 | 2.0 | X | | 09/06/96 |
| trans-1,2-Dichloroethylene | μg/1 | 1.0 | X | | 09/06/96 |
| 1,2-Dichloropropane | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| 1,3-Dichloropropane | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| 2,2-Dichloropropane | $\mu g/1$ | 2.0 | X | | 09/06/96 |
| Ethylbenzene | $\mu g/1$ | 1.0 | x | SPH | 09/06/96 |
| Hexachlorobutadiene | $\mu g/1$ | 1.0 | X | 2211 | 09/06/96 |
| Isopropylbenzene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| Isopropyl Ether | $\mu g/1$ | 1.0 | x | | 09/06/96 |
| p-Isopropyltoluene | $\mu g/1$ | 1.0 | x | | 09/06/96 |
| EEF1 | 1-31- | | (A.2) | | / / |

Analytical No.:

75802

ANALYTICAL REPORT



Short Elliott Hendrickson, Inc. 421 Frenette Drive Chippewa Falls , WI 54729

Attn: John Guhl

CUST NUMBER: FRASE9401.0

SAMPLED BY: Client
DATE REC'D: 08/31/96
REPORT DATE: 09/16/96
PREPARED BY: JCH \(\) L\(\)

REVIEWED BY:

| | | Reporting | MW-5 | | Date |
|------------------------------------|-----------|-----------|----------|------------|---------------------------------|
| | Units | Limit | 08/29/96 | Qualifiers | Analyzed |
| | | | | | |
| EPA 8021_ | | | | | Automore of Propositive Company |
| Methyl tert Butyl Ether | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| Methylene Chloride | $\mu g/1$ | 2.0 | X | CSL | 09/06/96 |
| Naphthalene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| n-Propylbenzene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| Tetrachloroethylene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| 1,1,2,2-Tetrachloroethane | | 1.0 | X | | 09/06/96 |
| Toluene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| 1,2,3-Trichlorobenzene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| 1,2,4-Trichlorobenzene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| 1,1,1-Trichloroethane | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| 1,1,2-Trichloroethane | $\mu g/1$ | 1.0 | . X | | 09/06/96 |
| Trichloroethylene | $\mu g/1$ | 0.5 | X | | 09/06/96 |
| Trichlorofluoromethane | $\mu g/1$ | 1.0 | X | CSL | 09/06/96 |
| 1,2,4-Trimethylbenzene | $\mu g/1$ | 1.0 | X | SPH | 09/06/96 |
| 1,3,5-Trimethylbenzene | $\mu g/1$ | 1.0 | X | SPH | 09/06/96 |
| Vinyl Chloride | $\mu g/1$ | 0.2 | X | | 09/06/96 |
| m- & p-Xylene | $\mu g/1$ | 1.0 | X | | 09/06/96 |
| o-Xylene | μg/l | 1.0 | x | | 09/06/96 |
| | | | | | |
| EPA 8310 | | | | | |
| Acenaphthene | $\mu g/1$ | 0.1 | X | | 09/12/96 |
| Acenaphthylene | $\mu g/1$ | 0.02 | X | | 09/12/96 |
| Anthracene | $\mu g/1$ | 0.16 | X | | 09/12/96 |
| Benzo (a) Anthracene | $\mu g/1$ | 0.07 | 0.97 | | 09/12/96 |
| Benzo (a) Pyrene | $\mu g/1$ | 0.07 | 1.42 | | 09/12/96 |
| Benzo(b) Fluoranthene | $\mu g/1$ | 0.04 | 0.835 | | 09/12/96 |
| Benzo(k) Fluoranthene | $\mu g/1$ | 0.03 | 0.509 | | 09/12/96 |
| Benzo (ghi) Perylene | $\mu g/1$ | 0.08 | 0.541 | | 09/12/96 |
| Chrysene | $\mu g/1$ | 0.03 | X | | 09/12/96 |
| Dibenzo (a, h) Anthracene | $\mu g/1$ | 0.11 | X | | 09/12/96 |
| Fluoranthene | $\mu g/1$ | 0.11 | 2.97 | | 09/12/96 |
| Fluorene | μg/1 | 0.06 | X | | 09/12/96 |
| Indeno (1, 2, 3-cd) Pyrene | $\mu g/1$ | 0.12 | 0.840 | | 09/12/96 |
| 1-Methyl Naphthalene | μg/1 | 0.02 | 1.01 | | 09/12/96 |
| 2-Methyl Naphthalene | $\mu g/1$ | 0.06 | X | | 09/12/96 |
| Naphthalene | $\mu g/1$ | 0.03 | 0.338 | | 09/12/96 |
| Phenanthrene | μg/1 | 0.12 | 1.48 | | 09/12/96 |
| Pyrene | $\mu g/1$ | 0.09 | 4.25 | | 09/12/96 |
| - 1 | F3/ = | , | 1.25 | | 00/12/00 |
| Page 14th FeV 14th Control Control | | | | | |

Analytical No.:

75802



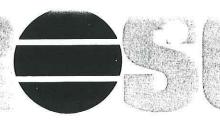
CUST NUMBER: FRASE9401.0 SAMPLED BY: Client

DATE REC'D: 08/31/96 REPORT DATE: 09/16/96
PREPARED BY: JCH AREVIEWED BY:

Attn: John Guhl

| | Units | Reporting Limit | LYS-1 _08/29/96_ | Qualifiers | Date Analyzed |
|---------------------------|-------|-----------------|---------------------|------------|------------------|
| EPA 239.2 Lead (GFAAS) | μg/l | 1.0 | 6.94 | | 09/04/96 |

75803 Analytical No.:





Attn: John Guhl

CUST NUMBER: FRASE9401.0

SAMPLED BY: Client DATE REC'D: 08/31/96 REPORT DATE: 09/16/96 PREPARED BY: JCHJ.C.

REVIEWED BY:

Qualifier Descriptions

Check standard for this analyte exhibited a low bias. CSL

Sample results may also be biased low. Non-detects

were verified by comparison with a low standard.

The matrix spike included with this analytical batch had a high recovery. Since that sample matrix appears SPH

similar to your sample, your result may also be high.

REQUEST FOR SERVICES



303 W. MILITARY RD. ROTHSCHILD, WI 54474 1-800-338-SCAN

| REPORT TO: Name: John | Cub | 1 | | BILL TO: (i | f diff | erent | from | Repo | ort To | info): |
|------------------------------|----------------|----------|----------------------|--------------------|---------------|------------|------------|-------------|----------------|--|
| Name: John Company: SEH | Inc | | | Name: Company: | | | | | | |
| Address: 421 F | rene. H | e. Dr | | Address: | | | | | | |
| Chippen | a Fo | Mr, | NI 5 | <u>47a9</u> | | | | | | 10-11-1 |
| Phone: (715) 7 | 20 - | 6200 | | Phone: (| | _) | o enome to | Yaran Maria | | |
| Project # FRASE 940 | <i>1,00</i> Qu | ote # | 3941 | -5 | | Α | | | | REQUESTS if necessary) |
| Sample Type | | I | urnaround T | <u>ime</u> | | | 1 | / | 9 3 | |
| (Check all that app | ly) | Norm | | | | , | 1 | 1 3 | | / / ,/ |
| Groundwater | | Rush | (Pre-approve | ed by Lab) | | / | ~/ | / | 7 | / 5/ |
| ✓ Wastewater Soil/Solid | | Date Nee | eded | | Ė | / | BUY. | 3 | /0 | 453 |
| Drinking Water | | | | | | / ' | ٠/ ٠ | 100 | 4 | हों ही |
| Oil | | | | | | / ` | / | | 2 | 15 8 16 8 |
| ☐ Vapor☐ Other | | | | | / | / | / | . / | 2 C/ | 9 |
| | | | 1 | | / | # | 14 | 30 | 100 | at the second se |
| | DATE | TIME | No. of Containers | SAMPLE ID | / 6 | 14Hz | | 3, | 36 | REMARKS |
| LAB USE ONLY | DATE | TIME | COMP GRAB | SAMPLE ID | / | 7 - | 7 4 | Y ~ | 1 - | REMARKS |
| 10075796 | 8/29/96 | 9:40 AM | 4 | MW-I | X | X | | X | | Page 1 of 2 |
| 10075797 | Ì | 12:45 | 1 | MW-2 | | | | | X | |
| 10075798 | | 11:30 | 2 | MW-3 | | | X | | | |
| 10075799 | | 11:35 | 2 | MW-4 | | | X | | | |
| 10075800 | | 1:00 | 2 | Du0-1 | | X | - | | | |
| 10075801 | | | 2 | Trip Blank | | X | | | | |
| on the control of the second | 1 | | i | Temp Blank | | / | | | | |
| | | | | 1 Emp 15 Innie | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Short Short | Fro | sers | h | | | | Plane at a | production | 74010 <u>2</u> | |
| J (01) | | .5(, 5 | | , | | | | | | Comm. |
| CHAIN OF | CUS | TOD | V REC | ORD | | | | | | ⟨? ⟨У N N/A ng? Y ⟨∇ N/A |
| | - X X X X | 100 | T MEX | OND | 7 | | | | K? | |
| SAMPLERS: (Signatu | ire) | | | | | | Re | c'd or | ice? | |
| hun | Ban | ~ | | | | | Co | mmer | nts: | |
| RELINQUISHED BY: | (Signatur | re) [| DATE/TIME | RECEIVED BY: (Sig | gnatur | e) | | | | |
| Tuna a | | 8/30 | 196 9:3 | 30 4M | | | - | | | |
| RELINQUISHED BY: | /Signatur | , | DATE/TIME | RECEIVED BY: (Sig | natur | (9) | - | | | |
| , inclined of the bit. | Joignatur | , . | | 1.2021425 51. (6)8 | , i i a i u i | ٥, | | | | |
| RELINQUISHED BY: | (Signatur | ٦ (م | DATE/TIME | RECEIVED FOR LAB | ORAT |)BV | D.A | TE/TII | ME | |
| TILLINGOIGHED BY. | Jugiralur | , , | | BY: (Signature) | - V | \$100 E 55 | 1/21 1 | | 0.15 | |

REQUEST FOR SERVICES



303 W. MILITARY RD. ROTHSCHILD, WI 54474 1-800-338-SCAN

| REPORT TO: Name: John G | | | BILL TO: (| | | port To | o info): |
|---|----------|----------------------|------------------|-----------|------------|-----------|------------------|
| Company: SEH, I | | | Name: | | | | |
| Address: 421 Fren | atte D | r | Address: | | | | |
| Chippewa | Falls. | WF 5 | 1729 | | | | |
| Phone: (715) 720 | -6200 | | Phone: (|) | | | |
| PO # | | | | Δ | ΝΑΙΥΤ | CALE | REQUESTS |
| Project # FRASE 9401.00 | | | | | | | et if necessary) |
| Sample Type (Check all that apply) | X Norn | <u>Furnaround T</u> | <u>ime</u> | | / / | / - | |
| Groundwater | 4-4 | n (Pre-approve | d by Lab) | | / / | 1 | 7 / / |
| Wastewater | | , (, ,o spp.ore | ,, | / | / | 10 | / / |
| Soil/Solid | Date Ne | eded | | | / / | 5 | / / |
| Drinking Water | | | | | / / | . 3 | |
| Oil | | | | | / / | E. | |
| ☐ Vapor | | | | | //- | 3 | / / |
| Other | | | | / 4/ | · | d fad min | |
| C (-14 -25 -25 -15 -15 -15 -15 -15 -15 -15 -15 -15 -1 | | No of | | 1 / # | U W | Lead | |
| LAB USE ONLY DA | re TIME | No. of Containers | SAMPLE ID | PAH. | 7007 | 7 | |
| LAB USE ONLY DA | TE TIME | COMP GRAB | SAMPLE ID | / 7 . | 7 1 | 1 | REMARKS |
| 4 | 1 9:40 | | MADE + | | | | Page 2 of 2 |
| 10075802 8/29 | /quia:30 | 4 | MW-5 | XX | X | | 0 |
| 10075803 | 1:55 | 1 | Lvs -1 | | | (| _ |
| | | | | | | | |
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| | | | | | | | |
| Short Fa | sersh | is Treas | | | The second | | |
| - NONT IFA | SELZY | | | | Del'v: | Hand< | Comp. |
| | | | | | | | K? ON N/A |
| CHAIN OF CU | STOD | Y REC | CORD | | | | ting? Y M N/A |
| DAMPI EDO. (Giran Luna) | | | | | | OK? | |
| SAMPLERS: (Signature) | | | | | Rec'd | on ice? | N N/A_C |
| - hum | Bar | ~ | | | | | |
| | | | DECEMED BY (C) | innat | Comm | ents: _ | |
| RELINQUISHED BY: (Signa | | DATE/TIME | RECEIVED BY: (Si | gnature) | | | |
| Turn Ban | 8/3 | 0/96 9:3 | in | | | | |
| RELINQUISHED BY: (Signal | ature) | DATE/TIME | RECEIVED BY: (Si | ignature) | | | |
| | | | | gridianoj | | | |
| | | | | | | | |
| RELINQUISHED BY: (Signa | ature) | DATE/TIME | RECEIVED FOR LAB | BORATORY | DATE/ | TIME | |

301 WEST MILITARY ROAD ROTHSCHILD, WI 54474

U.S. FILTER/ENVIROSCAN TELEPHONE 715-359-7226 FACSIMILE 715-355-3221

December 12, 1996

Short Elliott Hendrickson, Inc. 421 Frenette Drive Chippewa Falls , WI 54729

Attn: John Guhl

Re: FRASE9401.00

DEC 16

Please find enclosed the analytical results for the samples received November 23, 1996.

All analyses were completed in accordance with appropriate EPA methodologies. Methods and dates of analysis are included in the report tables.

The chain of custody document is also enclosed.

If you have any questions about the results, please call. Thank you for using US Filter/Enviroscan for your analytical needs.

Sincerely,

US Filter/Enviroscan

Gary L. Scharrer

Instrumentation Chemist

Short Elliott Hendrickson, Inc. 421 Frenette Drive Chippewa Falls , WI 54729

CUST NUMBER: FRASE9401.0

SAMPLED BY: Client DATE REC'D: 11/23/96 REPORT DATE: 12/12/96 PREPARED BY: GLS MAC

PREPARED BY: GLS MAN

Attn: John Guhl

| | | | | | 1)1 | |
|-----------------------------|---------------|-----------|----------|------------|----------|--|
| | | Reporting | MW-5 | | Date | |
| | Units | Limit | 11/21/96 | Qualifiers | Analyzed | |
| | | | | | | |
| EPA 213.2 | | | | | | |
| Cadmium (GFAAS) | $\mu g/1$ | 0.21 | X | | 12/02/96 | |
| | | | | | | |
| EPA 218.2 | | | | | | |
| Chromium (GFAAS) | $\mu g/1$ | 1.0 | X | SPL | 11/26/96 | |
| | | | | | | |
| EPA 239.2 | | | | | | |
| Lead (GFAAS) | $\mu g/1$ | 1.0 | X | | 12/03/96 | |
| | | | | | | |
| EPA 8021 | Difference of | | | | | |
| Benzene | $\mu g/1$ | 0.5 | X | | 12/04/96 | |
| Bromobenzene | $\mu g/1$ | 2.0 | X | | 12/04/96 | |
| Bromodichloromethane | $\mu g/1$ | 1.0 | X | | 12/04/96 | |
| n-Butylbenzene | $\mu g/1$ | 1.0 | X | | 12/04/96 | |
| sec-Butylbenzene | $\mu g/1$ | 1.0 | X | | 12/04/96 | |
| tert-Butylbenzene | $\mu g/1$ | 1.0 | X | | 12/04/96 | |
| Carbon Tetrachloride | $\mu g/1$ | 1.0 | X | | 12/04/96 | |
| Chlorobenzene | $\mu g/1$ | 1.0 | X | | 12/04/96 | |
| Chlorodibromomethane | $\mu g/1$ | 1.0 | X | | 12/04/96 | |
| Chloroethane | $\mu g/1$ | 1.0 | X | | 12/04/96 | |
| Chloroform | $\mu g/1$ | 1.0 | X | | 12/04/96 | |
| Chloromethane | $\mu g/1$ | 2.0 | X | | 12/04/96 | |
| o-Chlorotoluene | $\mu g/1$ | 1.0 | X | SPH | 12/04/96 | |
| p-Chlorotoluene | $\mu g/1$ | 2.0 | X | | 12/04/96 | |
| 1,2-Dibromo-3-chloropropane | | 1.0 | X | | 12/04/96 | |
| 1,2-Dibromoethane | $\mu g/1$ | 1.0 | X | | 12/04/96 | |
| 1,2-Dichlorobenzene | $\mu g/1$ | 1.0 | X | | 12/04/96 | |
| 1,3-Dichlorobenzene | $\mu g/1$ | 1.0 | X | | 12/04/96 | |
| 1,4-Dichlorobenzene | $\mu g/1$ | 1.0 | X | | 12/04/96 | |
| Dichlorodifluoromethane | $\mu g/1$ | 2.0 | X | CSL | 12/04/96 | |
| 1,1-Dichloroethane | $\mu g/1$ | 1.0 | X | | 12/04/96 | |
| 1,2-Dichloroethane | $\mu g/1$ | 1.0 | X | | 12/04/96 | |
| 1,1-Dichloroethylene | $\mu g/1$ | 1.0 | X | | 12/04/96 | |
| cis-1,2-Dichloroethylene | $\mu g/1$ | 2.0 | X | | 12/04/96 | |
| trans-1,2-Dichloroethylene | $\mu g/1$ | 1.0 | X | | 12/04/96 | |
| 1,2-Dichloropropane | $\mu g/1$ | 1.0 | X | | 12/04/96 | |
| 1,3-Dichloropropane | $\mu g/1$ | 1.0 | X | | 12/04/96 | |
| 2,2-Dichloropropane | $\mu g/1$ | 2.0 | X | | 12/04/96 | |
| Ethylbenzene | $\mu g/1$ | 1.0 | X | | 12/04/96 | |
| Hexachlorobutadiene | $\mu g/1$ | 1.0 | X | | 12/04/96 | |
| Isopropylbenzene | $\mu g/1$ | 1.0 | X | | 12/04/96 | |
| Isopropyl Ether | $\mu g/1$ | 1.0 | X | | 12/04/96 | |
| p-Isopropyltoluene | $\mu g/1$ | 1.0 | X | | 12/04/96 | |
| | | | | | | |

X = Analyzed but not detected.

Analytical No.:

83151

Short Elliott Hendrickson, Inc. 421 Frenette Drive Chippewa Falls , WI 54729

Attn: John Guhl

| | | | | | <i>V</i> . |
|---------------------------|--------------|-----------|-----------|------------|------------|
| | | Reporting | MW-5 | | Date |
| | Units | Limit | _11/21/96 | Qualifiers | |
| - | | | | | |
| EPA 8021 | | | | | |
| Methyl tert Butyl Ether | $\mu g/1$ | 1.0 | X | | 12/04/96 |
| Methylene Chloride | μg/1 | 2.0 | X | | 12/04/96 |
| Naphthalene | $\mu g/1$ | 1.0 | x | | 12/04/96 |
| n-Propylbenzene | μg/1 | 1.0 | x | | 12/04/96 |
| Tetrachloroethylene | μg/1 | 1.0 | x | | 12/04/96 |
| 1,1,2,2-Tetrachloroethane | $\mu g/1$ | 1.0 | X | | 12/04/96 |
| Toluene | μg/1 | 1.0 | X | | 12/04/96 |
| 1,2,3-Trichlorobenzene | μg/1 | 1.0 | X | | 12/04/96 |
| 1,2,4-Trichlorobenzene | μg/1 | 1.0 | X | | 12/04/96 |
| 1,1,1-Trichloroethane | μg/1 | 1.0 | X | | |
| 1,1,2-Trichloroethane | μg/1 μg/1 | 1.0 | X | | 12/04/96 |
| | | 0.5 | x | | 12/04/96 |
| Trichloroethylene | μg/1 | | | | 12/04/96 |
| Trichlorofluoromethane | $\mu g/1$ | 1.0 | X | | 12/04/96 |
| 1,2,4-Trimethylbenzene | $\mu g/1$ | 1.0 | X | CSL | 12/04/96 |
| 1,3,5-Trimethylbenzene | μg/1 | 1.0 | X | | 12/04/96 |
| Vinyl Chloride | $\mu g/1$ | 0.2 | X | | 12/04/96 |
| m- & p-Xylene | $\mu g/1$ | 1.0 | X | | 12/04/96 |
| o-Xylene & Styrene | $\mu g/1$ | 1.0 | X | | 12/04/96 |
| | | | | | |
| EPA 8310 | | 7.00 | | | |
| Acenaphthene | $\mu g/1$ | 0.2 | X | | 12/05/96 |
| Acenaphthylene | $\mu g/1$ | 0.04 | X | | 12/05/96 |
| Anthracene | $\mu g/1$ | 0.32 | X | | 12/05/96 |
| Benzo(a)Anthracene | $\mu g/1$ | 0.14 | 0.718 | | UP12/05/96 |
| Benzo(a) Pyrene | $\mu g/1$ | 0.14 | 0.785 | DUP | 12/05/96 |
| Benzo(b) Fluoranthene | $\mu g/1$ | 0.08 | 0.684 | S1L S2L | 12/05/96 |
| Benzo(k) Fluoranthene | $\mu g/1$ | 0.06 | 0.390 | S1L S2L | 12/05/96 |
| Benzo(ghi)Perylene | $\mu g/1$ | 0.16 | 0.415 | S1L S2L D | UP12/05/96 |
| Chrysene | $\mu g/1$ | 0.06 | X | | 12/05/96 |
| Dibenzo (a, h) Anthracene | $\mu g/1$ | 0.22 | X | S1L S2L | 12/05/96 |
| Fluoranthene | $\mu g/1$ | 0.22 | X | S2L DUP | 12/05/96 |
| Fluorene | $\mu g/1$ | 0.12 | x | | 12/05/96 |
| Indeno (1,2,3-cd) Pyrene | μg/1 | 0.24 | 0.565 | S1L S2L D | UP12/05/96 |
| 1-Methyl Naphthalene | $\mu g/1$ | 0.04 | X | | 12/05/96 |
| 2-Methyl Naphthalene | $\mu g/1$ | 0.12 | X | | 12/05/96 |
| Naphthalene | μg/1 | 0.06 | x | | 12/05/96 |
| Phenanthrene | μg/1 | 0.24 | 1.03 | | 12/05/96 |
| Pyrene | μg/1 | 0.18 | X | | 12/05/96 |
| Water Org Ext - PNAs | 49/1 | - | COMP | | 11/27/96 |
| HADOL OLG LING FIND | | | COME | | 11/21/30 |
| Analytical No.: | | | 83151 | | |
| (47) | | | | | |



CUST NUMBER: FRASE9401.0

SAMPLED BY: Client DATE REC'D: 11/23/96 REPORT DATE: 12/12/96

PREPARED BY: GLS MAR

Attn: John Guhl

| | | 221 786 76 | Entrance property and registers | | 2 . |
|------------------------------------|--------------|--------------|---------------------------------|-------------------|--|
| | | Reporting | TRIP BLANK-USF | | Date |
| - | Units | <u>Limit</u> | 11/21/96 | <u>Qualifiers</u> | <u>Analyzed</u> |
| National Land - 1980 - 2012 - 1980 | | | | | |
| EPA 8021 | 172 | 72 F21 | (22) | | |
| Benzene | $\mu g/1$ | 0.5 | X | | 12/04/96 |
| Bromobenzene | $\mu g/1$ | 2.0 | X | | 12/04/96 |
| Bromodichloromethane | $\mu g/1$ | 1.0 | X | | 12/04/96 |
| n-Butylbenzene | μg/l | 1.0 | X | | 12/04/96 |
| sec-Butylbenzene | $\mu g/1$ | 1.0 | X | | 12/04/96 |
| tert-Butylbenzene | $\mu g/1$ | 1.0 | X | | 12/04/96 |
| Carbon Tetrachloride | $\mu g/1$ | 1.0 | X | | 12/04/96 |
| Chlorobenzene | $\mu g/1$ | 1.0 | X | | 12/04/96 |
| Chlorodibromomethane | $\mu g/1$ | 1.0 | X | | 12/04/96 |
| Chloroethane | $\mu g/1$ | 1.0 | x | | 12/04/96 |
| Chloroform | $\mu g/1$ | 1.0 | X | | 12/04/96 |
| Chloromethane | $\mu g/1$ | 2.0 | x | | 12/04/96 |
| o-Chlorotoluene | $\mu g/1$ | 1.0 | x | SPH | 12/04/96 |
| p-Chlorotoluene | $\mu g/1$ | 2.0 | X | | 12/04/96 |
| 1,2-Dibromo-3-chloropropan | $e \mu g/1$ | 1.0 | , X | | 12/04/96 |
| 1,2-Dibromoethane | $\mu g/1$ | 1.0 | X | | 12/04/96 |
| 1,2-Dichlorobenzene | $\mu g/1$ | 1.0 | X | | 12/04/96 |
| 1,3-Dichlorobenzene | $\mu g/1$ | 1.0 | x | | 12/04/96 |
| 1,4-Dichlorobenzene | $\mu g/1$ | 1.0 | X | | 12/04/96 |
| Dichlorodifluoromethane | $\mu g/1$ | 2.0 | x | CSL | 12/04/96 |
| 1,1-Dichloroethane | μg/l | 1.0 | X | | 12/04/96 |
| 1,2-Dichloroethane | $\mu g/1$ | 1.0 | x | | 12/04/96 |
| 1,1-Dichloroethylene | $\mu g/1$ | 1.0 | X | | 12/04/96 |
| cis-1,2-Dichloroethylene | $\mu g/1$ | 2.0 | X | | 12/04/96 |
| trans-1,2-Dichloroethylene | μg/1 | 1.0 | X | | 12/04/96 |
| 1,2-Dichloropropane | $\mu g/1$ | 1.0 | X | | 12/04/96 |
| 1,3-Dichloropropane | $\mu g/1$ | 1.0 | X | | 12/04/96 |
| 2,2-Dichloropropane | $\mu g/1$ | 2.0 | X | | 12/04/96 |
| Ethylbenzene | μg/1 | 1.0 | X | | 12/04/96 |
| Hexachlorobutadiene | μg/1 | 1.0 | x | | 12/04/96 |
| Isopropylbenzene | μg/1 | 1.0 | X | | 12/04/96 |
| Isopropyl Ether | μg/1 | 1.0 | X | | 12/04/96 |
| p-Isopropyltoluene | μg/1 | 1.0 | x | | 12/04/96 |
| | μg/1 μg/1 | 1.0 | X | | 12/04/96 |
| Methyl tert Butyl Ether | $\mu g/1$ | 2.0 | X | | 12/04/96 |
| Methylene Chloride | μg/1 | 1.0 | X | | 12/04/96 |
| Naphthalene | μg/1 | | x | | ###################################### |
| n-Propylbenzene | μg/1 | 1.0 | X | | 12/04/96 |
| Tetrachloroethylene | μg/1 | 1.0 | | | 12/04/96 |
| 1,1,2,2-Tetrachloroethane | $\mu g/1$ | 1.0 | X | | 12/04/96 |
| Toluene | μg/1 | 1.0 | X | | 12/04/96 |
| 1,2,3-Trichlorobenzene | $\mu g/1$ | 1.0 | X | | 12/04/96 |
| 1,2,4-Trichlorobenzene | $\mu g/1$ | 1.0 | X | | 12/04/96 |
| 1,1,1-Trichloroethane | μg/l | 1.0 | X | | 12/04/96 |
| 1,1,2-Trichloroethane | $\mu g/1$ | 1.0 | X | | 12/04/96 |
| Trichloroethylene | μ g/l | 0.5 | X | | 12/04/96 |

Analytical No.:

83152



CUST NUMBER: FRASE9401.0

SAMPLED BY: Client
DATE REC'D: 11/23/96
REPORT DATE: 12/12/96
PREPARED BY: GLS full
REVIEWED BY:

Attn: John Guhl

| | Units | Reporting Limit | TRIP BLANK-USF | Qualifiers | Date Analyzed |
|------------------------|-----------|--------------------|--------------------|------------|------------------|
| EPA 8021 | | | | | |
| Trichlorofluoromethane | $\mu g/1$ | 1.0 | x | | 12/04/96 |
| 1,2,4-Trimethylbenzene | $\mu g/1$ | 1.0 | x | CSL | 12/04/96 |
| 1,3,5-Trimethylbenzene | $\mu g/1$ | 1.0 | X | ž. | 12/04/96 |
| Vinyl Chloride | $\mu g/1$ | 0.2 | x | *: | 12/04/96 |
| m- & p-Xylene | $\mu g/1$ | 1.0 | x | | 12/04/96 |
| o-Xylene & Styrene | μ g/l | 1.0 | X | | 12/04/96 |
| Analytical No.: | %) | | 83152 | | |



Short Elliott Hendrickson, Inc.

421 Frenette Drive

Chippewa Falls , WI 54729

CUST NUMBER: FRASE9401.0

SAMPLED BY: Client DATE REC'D: 11/23/96 REPORT DATE: 12/12/96

PREPARED BY: GLS / MI REVIEWED BY:

Attn: John Guhl

| | Units | Reporting Limit | LYS-1 11/21/96 | Qualifiers | Date Analyzed | |
|---------------------------|-------|-----------------|-------------------|------------|------------------|--|
| EPA 239.2 Lead (GFAAS) | μg/1 | 1.0 | x | | 12/03/96 | |
| Analytical No.: | | | 83153 | | | |

Short Elliott Hendrickson, Inc. 421 Frenette Drive Chippewa Falls , WI 54729 CUST NUMBER: FRASE9401.0

SAMPLED BY: Client
DATE REC'D: 11/23/96
REPORT DATE: 12/12/96
PREPARED BY: GLS MA

REVIEWED BY: \(\)

Attn: John Guhl

| | | Reporting Limit | MW-1 11/21/96 | Qualifiers | Date Analyzed |
|--------------------------------|--------------|-----------------|------------------|------------|--|
| EPA 213.2 | | | | | |
| Cadmium (GFAAS) | μ g/l | 0.21 | X | iii | 12/02/96 |
| EPA 239.2 | | | | | |
| Lead (GFAAS) | μ g/l | 1.0 | X | | 12/03/96 |
| EPA 8021_ | | | | | |
| Benzene | $\mu g/1$ | 0.5 | X | | 11/27/96 |
| Ethylbenzene | $\mu g/1$ | 1.0 | X | SPH | 11/27/96 |
| Methyl tert Butyl Ether | $\mu g/1$ | 1.0 | X | | 11/27/96 |
| Toluene | $\mu g/1$ | 1.0 | X | | 11/27/96 |
| 1,2,4-Trimethylbenzene | $\mu g/1$ | 1.0 | X | | 11/27/96 |
| 1,3,5-Trimethylbenzene | $\mu g/1$ | 1.0 | X | | 11/27/96 |
| m- & p-Xylene | $\mu g/1$ | 1.0 | 1.12 | | 11/27/96 |
| o-Xylene & Styrene | $\mu g/1$ | 1.0 | X | x | 11/27/96 |
| EPA 8310 | | | | | |
| Acenaphthene | μg/l | 0.1 | x | | 12/06/96 |
| Acenaphthylene | μg/1 | 0.02 | X | | 12/06/96 |
| Anthracene | $\mu g/1$ | 0.16 | X | | 12/06/96 |
| Benzo (a) Anthracene | μg/1 | 0.07 | x | SPL DUP | 12/06/96 |
| Benzo (a) Pyrene | μg/1 | 0.07 | x | DUP | 12/06/96 |
| Benzo (b) Fluoranthene | μg/l | 0.04 | 0.085 | SPL | 12/06/96 |
| Benzo(k) Fluoranthene | μg/1 | 0.03 | x | SPL | 12/06/96 |
| Benzo (ghi) Perylene | μg/1 | 0.08 | X | SPL DUP | 12/06/96 |
| Chrysene | μg/1 | 0.03 | X | DIH DOL | 12/06/96 |
| Dibenzo (a, h) Anthracene | μg/1 | 0.11 | X | SPL | 12/06/96 |
| Fluoranthene | μg/1 | 0.11 | 0.350 | SPL DUP | 12/06/96 |
| Fluorene | μg/1 | 0.06 | X | DIH DUI | 12/06/96 |
| Indeno(1,2,3-cd)Pyrene | μg/1 | 0.12 | X | SPL DUP | 12/06/96 |
| 1-Methyl Naphthalene | μg/1 | 0.02 | X | DEL DOF | 12/06/96 |
| 2-Methyl Naphthalene | μg/1 μg/1 | 0.06 | X | | 12/06/96 |
| Naphthalene | μg/1 | 0.03 | X | | 12/06/96 |
| Phenanthrene | μg/1 μg/1 | 0.12 | 0.176 | | 12/06/96 |
| | μ9/1 | 0.09 | 0.195 | | |
| Pyrene Water Org Ext - PNAs | μg/1 | - | COMP | | 12/06/96 11/27/96 |
| Analytical No.: | | E | 83154 | | The second secon |

Short Elliott Hendrickson, Inc. 421 Frenette Drive Chippewa Falls , WI 54729

CUST NUMBER: FRASE9401.0

SAMPLED BY: Client DATE REC'D: 11/23/96 REPORT DATE: 12/12/96

PREPARED BY: GLS MM

REVIEWED BY: IN

Attn: John Guhl

| | Units | Reporting Limit | MW-2 11/21/96 | <u>Oualifiers</u> | Date Analyzed |
|-------------------------------|-------|-----------------|------------------|-------------------|------------------|
| EPA 218.2 Chromium (GFAAS) | μg/l | 1.0 | х | S1L S2L | 12/11/96 |
| EPA 239.2 Lead (GFAAS) | μg/l | 1.0 | 34.2 | | 12/03/96 |
| Analytical No.: | | | 83155 | | |



Attn: John Guhl

CUST NUMBER: FRASE9401.0

SAMPLED BY: Client DATE REC'D: 11/23/96

REPORT DATE: 12/12/96
PREPARED BY: GLS ///
REVIEWED BY: \h_

X

Qualifier Descriptions

| SPL | The matrix spike included with this analytical batch had a low recovery. Since that sample matrix appears similar to your sample, your result may also be low. |
|-----|--|
| SPH | The matrix spike included with this analytical batch had a high recovery. Since that sample matrix appears similar to your sample, your result may also be high. |
| CSL | Check standard for this analyte exhibited a low bias. Sample results may also be biased low. Non-detects were verified by comparison with a low standard. |
| S1L | Matrix spike recovery of this sample was low. Result for sample may also be biased low. |
| S2L | Matrix spike duplicate recovery of this sample was low. Result for sample may also be biased low. |
| DUP | Result of duplicate analysis in this quality assurance batch exceeds the limits for precision. Sample results may also show a degree of variability. |

U.S. FILTER/ENVIROSCAN 301 WEST MILITARY ROAD ROTHSCHILD, WI 54474 TELEPHONE 715-359-7226 FACSIMILE 715-355-3221

October 8, 1997

Short Elliott Hendrickson Inc 421 Frenette Drive Chippewa Falls , WI 54729

Attn: John Guhl

Re: Analytical Results

FRASE9401

Please find enclosed the analytical results for the samples received October 3, 1997.

The chain of custody document is enclosed.

If you have any questions about the results, please call. Thank you for using US Filter/Enviroscan for your analytical needs.

Sincerely,

US Filter/Enviroscan

Bruce M. Schertz

Inorganic Laboratory Supervisor



Short Elliott Hendrickson Inc

421 Frenette Drive

Chippewa Falls , WI 54729

CUST NUMBER: FRASE9401 SAMPLED BY: Client DATE REC'D: 10/03/97 REPORT DATE: 10/08/97

PREPARED BY: BMS

REVIEWED BY:



Attn: John Guhl

| | Sol. Lead (GFAA | |
|-----------------|-----------------|---------------|
| Sample ID_ | EPA 239.2 Qua | lifiersNo |
| MW-2 | X | 17230 |
| HP-1 | X | 17231 |
| HP-2 | 1.06 | 17232 |
| HP-3 | X | 17233 |
| HP-4 | X | 17234 |
| HP-5 | X | 17235 |
| HP-6 | X S1L | S2L DUP 17236 |
| Reporting Limit | 1.0 | |
| Units | μg/l | |
| Date Analyzed: | 10/07/97 | |

X = Analyzed but not detected.

Qualifier Descriptions

| S1L | Sample matrix spike recovery was low. Sample result may be biased low. |
|-----|--|
| S2L | Sample matrix spike duplicate recovery was low. Sample result may be biased low. |
| DUP | Result of duplicate analysis in this quality assurance batch exceeds the limits for precision. |

MARKET PARTY WILL COMMENSATION CONTRACTOR SECRETARIONS PART TO THE PART OF THE PART O ECHE A COURT MANUEL. NAME OF STREET

53756 Ct

ESSETE!

DESCRIPTION OF THE PERSON OF T PERMIT

WINDSHIP CARREST REMEMBERS DO NO.

ANALYTICAL REQUESTS

(use separate sheet if necessary)

NEWSCHOOL STATES Paris ... KINASTERUSTIS ENGLESISSICALI 100051 PETUDOPENERSALES COME

REMARKS

°C

FIELD - FILTE RED

PRESERVED - HNU3

| U.S. FILTER/ENVIROSCAN | 301 W. MILITARY RD. | ROTHSCHILD, WI 54474 | 1-800-338-SCAN |
|--|---------------------|--|----------------|
| REPORT TO: Name: 50HN GUHL Company: SHORT ELLIOT | Na | ILL TO: (if different from Report ame: | |

MAKE BARRE

CITAL RESIDENCE TOURS

Address:_

Phone: (

Killing Landstone

COMPANY: SHORT ELLIOTT HENDRICKSON 421 FRENETTE DRIVE Phone: (715) 720-6225

Project # FRASEGYOL Quote # 3111-

Location _ Sample Type

Turnaround Time

No. of Containers

(Check all that apply) Groundwater

Wastewater

Soil/Solid Drinking Water

Oil Vapor Other

Normal Rush (Pre-approved by Lab)

Approved By _____

LAB USE ONLY DATE TIME SAMPLE ID COMP GRAB 07017230 MW1-2 10-1-97 11:30 07017231 HP-1 10-1-97 11:10 07017232 HP-Z. 10-1-9712:30 07017233 HP-3 10-1-97 12:45 HP-4 07017234 10-1-97 1:15 07017235 HP-5 10 1-97 1.30 07017236 HP-6 10-1-97 2:00

Frasersh Short

CHAIN OF CUSTODY RECORD

SAMPLERS: (Signature)

BELINQUISHED BY: (Signature)

RECEIVED BY: (Signature)

10-2-97 8:30 DATE/TIME

RECEIVED BY: (Signature)

DATE/TIME RELINQUISHED BY: (Signature)

RECEIVED FOR LABORATORY BY: (Signature) Chacon Kmath

DATE/TIME 10-3.97 9:00

Del'v: Hand Comm. Ship. Cont. OK? Y N N/A Samples leaking? X N/A Seals OK? N N/A N N/A Rec'd on ice?

Comments: