Appendix B

Field Forms
### Attachment 1

#### Chain of Custody Form

**Project Number:**

- BARR
- 700 W. 7th Street
- Minneapolis, MN 55403-5509
- (952) 552-2600

<table>
<thead>
<tr>
<th>Sample Identification</th>
<th>Collection</th>
<th>Matrix</th>
<th>Type</th>
<th>Sample ID</th>
<th>Quantity</th>
<th>Heater</th>
<th>Temperature</th>
<th>Date</th>
<th>Time</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
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<td>8.</td>
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<td>9.</td>
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<td>10.</td>
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<td>11.</td>
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<tr>
<td>12.</td>
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<td></td>
</tr>
</tbody>
</table>

#### Common Parameters & Considerations - Preservation Key:

- **1.** Volatile Organics = T discrepan SPME, PDU
- **2.** Semivolatile Organics = Ethyl-PCB, PCB83
- **3.** Heavy Metals = Cd, Pb, Zn, Cu, Ni, Cr
- **4.** Nutrients = N, P, TSP, TSS, TSS

**Received By:**
- Date
- Time

**Repackaged By:**
- Date
- Time

**Sample Submitted:**
- Date
- Time

**Air Bill Number:**
- Date
- Time

**Distribution:**
- Water: Original Sample shipped to Lab, Yellow Sheet: Pink Sheet Lab Coordinator

---

**Figure 3**

CHAIN OF CUSTOMY
Attachment 2
Example - Sample label

<table>
<thead>
<tr>
<th>Client</th>
<th>Project Number</th>
<th>Date</th>
<th>Time</th>
<th>Preservative</th>
<th>Sampled By</th>
<th>Sample Location</th>
</tr>
</thead>
</table>


Attachment 3
Custody Seal – if applicable

Custody Seal

Date  Project

Signature  Container#  of
FIELD SAMPLING REPORT

Date:
Project:
Contact:
Barr Engineering Company
4700 W. 77th Street
Minneapolis, MN 55435-4803

Field Sampling

Field Report
Attachments:

Laboratory Analysis Status

<Name inserts here>
Environmental Technician
FIELD LOG COVER SHEET
WATER SAMPLING

Client:  
Technician:  
Project No.:  
Sampling Period:  

<table>
<thead>
<tr>
<th>Date</th>
<th>Temperature</th>
<th>Wind Speed</th>
<th>Wind Direction</th>
<th>Cloud Cover</th>
</tr>
</thead>
</table>

Summary of Field Activities

Document
Barr Engineering Company 4700 W. 77th Street Minneapolis, MN 55435-4803 952/632-2660
## Barr Engineering Company
### Field Log Data Sheet

<table>
<thead>
<tr>
<th>Client:</th>
<th>Monitoring Point:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location:</td>
<td>Date:</td>
</tr>
<tr>
<td>Project #:</td>
<td>Sample Time:</td>
</tr>
</tbody>
</table>

### GENERAL DATA

<table>
<thead>
<tr>
<th>Barr lock:</th>
<th>Total Volume</th>
<th>Temp. °C</th>
<th>Cond. @ 25 °C</th>
<th>pH</th>
<th>Eh</th>
<th>O.D.</th>
<th>Turbidity Appearance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing diameter:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total well depth:*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Static water level:*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water depth:*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Well volume: (gall)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Purge method:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sample method:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Start time:</td>
<td>Odor:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stop time:</td>
<td>Purge Appearance:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Duration: (minutes)</td>
<td>Sample Appearance:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manner:</td>
<td>Comments:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Volume, purged:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Duplicate collected?</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sample collection by:</td>
<td>Fe2+</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Others present:</td>
<td>CO2-</td>
<td>Mn2+</td>
<td>Fe3+</td>
<td>Fe3+</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WELL INSPECTION (answer for each category, state if lock replaced, detail any repairs needed on back of form)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CASING &amp; CAP:</td>
<td>COLLAR:</td>
<td>LOCK:</td>
<td>OTHER:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MW ground water monitoring well</td>
<td>Wilk water supply well</td>
<td>SW surface water</td>
<td>SE sediment</td>
<td>OTHER:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOC-</td>
<td>semi-volatile-</td>
<td>volatile-</td>
<td>nutrient-</td>
<td>cyanide-</td>
<td>DPO-</td>
<td>Sulfide-</td>
<td></td>
</tr>
<tr>
<td>oil/grease-</td>
<td>bacteria-</td>
<td>total metal</td>
<td>filtered metal</td>
<td>methane-</td>
<td>filter-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Others:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

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Appendix C

Laboratory Certifications
Pre-approved Commercial Laboratories: Fixed Base and Mobile (Guidance Document 23)

The following laboratories have submitted information requested on Minnesota Department of Agriculture (MDA) guidance document GD24 Fixed Base Laboratory Quality Assurance/Quality Control Plans. The information has been reviewed and these labs can be used by contractors to perform analysis without submitting additional laboratory information. Pre-approved commercial laboratories have Quality Assurance/Quality Control Plans and methods on file with the Minnesota Department of Agriculture. The laboratories are listed below.

The pre-approved laboratories must use the methods that are approved and on file with the MDA. We have noted on the listing if a laboratory's reporting limit does not meet the program reporting limits required at most MDA Pesticide Clean-up sites. This list will be updated periodically.

If a contractor is considering using a laboratory not on the pre-approved list, the laboratory should submit the information required on MDA guidance document GD24 Fixed Base Laboratory Quality Assurance/Quality Control Plans at least two (2) months prior to analysis to allow MDA staff to review and approve the method.

The current MDA List 1, 2, and 3 compounds are listed below. It is the responsibility of the contractor to insure that the correct compound list is analyzed and the site specific target compound reporting limits are met. The pre-approved commercial laboratory program is not a certification program nor does MDA endorse any particular laboratory. The MDA pesticide programs operate under EPA FIFRA guidelines.

The MDA also pre-approves mobile field methods for use on pesticide incident investigations and cleanups. Field or Mobile laboratories interested in becoming pre-approved must submit the information outlined in MDA guidance document GD25 Mobile Laboratory Quality Assurance/Quality Control Plans which can be found on the MDA web page.

List 1 Pesticides - (Neutrals)

1. Acetochlor (Harness/Supra)
2. Alachlor (Lasso)
3. Atrazine (Aatrex)
4. Deethylatrazine
5. Desisopropylatrazine
6. Dimethenamid (Frontier)
7. Chlordimef (Lorban)
8. Cyanazine (Bladex)
9. EPTC (Eptam/Eradicane)
10. Ethalfluralin (Sonalan)
11. Fonofos (Dyfonate)
12. Metolachlor (Dual)
13. Metribuzin (Lexone/Sencor)
14. Pendimethalin (Prowl)
15. Phorate (Thimet)
16. Propachlor (Ramrod)
17. Prometon (Pramirol)
18. Propazine (Milogard)
19. Simazine (Princep)
20. Terbufos (Counter)
21. Triallate (Far-go)
22. Trifluralin (Treflan)

http://www.mda.state.mn.us/chemicals/spills/incidentresponse/gd23.htm

5/14/2009
List 2 Pesticides - (Acids)

1. 2,4-D
2. 2,4-DB (Butyrae)
3. 2,4,5-T
4. 2,4,5-TP (Silvex)
5. Bentazon (Basagran)
6. Dicamba (Banvel)
7. MCPA
8. Picloram (Tordon)
9. Triclopyr (Garlon)

List 3 Pesticides - (Carbamates)

1. Aldicarb (total), including aldicarb sulfoxide, aldicarb sulfone, (Temik)
2. Carbaryl (Sevin)
3. Carbofuran (total), including 3-OH carbofuran, (Furadan)

Pre-Approved Fixed Base Commercial Laboratories and Methods

1. **Braun Intertec, Inc.**
   11001 Hampshire Avenue South, Minneapolis, MN 55438, 952-995-2000
   **Contact:** Bill Dahl, Project Manager, wdahl@braunintertec.com or Michelle Hubanks, QA, mhubanks@braunintertec.com
   
   **Pre-approved Analytical Methods:** Status - Current
   **Soil:** MDA List 1 • MDA List 2
   **Water:** MDA List 1 • MDA List 2

2. **Environmental Chemistry Consulting Services, Inc. (ECCS)**
   2525 Advance Road, Madison, WI 53718, 608-221-8700
   **Contact:** Nick Nigro, Project Manager, nkn@eccsmobilielab.com or Greg Graf, QA, ggraf@eccsmobilielab.com
   
   **Pre-approved Analytical Methods:** Status - Current
   **Soil:** MDA List 1 • MDA List 2 (not including MCPA) • MDA List 3
   **Water:** MDA List 1 • MDA List 2 (not including MCPA) • MDA List 3

3. **Legend Technical Services**
   88 Empire Drive, St. Paul, MN 55103, 651-642-1150
   **Contact:** Terri Olson, Project Manager, tolson@Legend-group.com or Erica Nastrom, QA, enastrom@Legend-group.com
   
   **Pre-approved Analytical Methods:** Status - Current
   **Soil:** MDA List 1
   **Water:** MDA List 1

4. **Midwest Laboratories, Inc.**
   13611 B Street, Omaha, NE 68144, 402-334-7770
   **Contact:** Jerome King, QA at jking@midwestlabs.com
   
   **Pre-approved Analytical Methods:** Status - Current
   **Soil:** MDA List 1 • MDA List 2 (not including MCPA)
   **Water:** MDA List 1 • MDA List 2 (MCPA does not meet reporting limits requirements)

5. **Minnesota Valley Testing Laboratories, Inc. (MVTL)**
   1126 North Front Street, New Ulm, MN 56073, 507-354-8517
   **Contact:** Dan O’Connell, Project Manager, docconnell@mvtl.com or Mary Ann Baumgart, QA, mbaumgard@mvtl.com
   
   **Pre-approved Analytical Methods:** Status - Current
   **Soil:** MDA List 1 • MDA List 2
   **Water:** MDA List 1 • MDA List 2

Pre-Approved Mobile Laboratories

http://www.mda.state.mn.us/chemicals/spills/incidentresponse/gd23.htm 5/14/2009
1. **Environmental Chemistry Consulting Services, Inc. (ECCS)**
   2525 Advance Road, Madison, WI 53718, 608-221-8700
   **Contact:** Nick Nigro, Project Manager, nnigro@eccsmobilelab.com or Greg Graf, QA, ggraf@eccsmobilelab.com

   **Pre-approved Analytical Screening Methods:** Status - Current
   **Soil:** Partial MDA List 1 (14 compounds only: acetochlor, alachlor, atrazine, deethyllatrazine, desisopropylatrazine, cyanazine, EPTC, metolachlor, metribuzin, pendimethalin, prometon, propazine, simazine, trifluralin)

---

**Status:** Information in the laboratory's file is current for calendar year unless noted.

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**MDA Contact**

**Incident Response Program**
651-201-6061 • Fax: 651-201-6112
**Pesticide & Fertilizer Management Division**

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http://www.mda.state.mn.us/chemicals/spills/incidentresponse/gd23.htm

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5/14/2009