

Appendix L
Soil Pesticide Assessment

Soil Pesticide Assessment

Silo Ridge Golf Course
Town of Amenia, Dutchess County, NY

Prepared for:

Millbrook Ventures
5021 Route 44
Amenia, NY 12501

Prepared By:

Roy T. Budnik & Associates, Inc.
317 Main Street
Poughkeepsie, NY 12601

July 8, 2008

Silo Ridge Golf Course
Town of Amenia, Dutchess County
Soil Pesticide Assessment

Introduction

A reconnaissance assessment was conducted at the Silo Ridge Golf Course to evaluate soil pesticide levels at selected locations. The subject property is located south of Route 44 and west of Route 22 in the Town of Amenia (see *Location Map*). The course was constructed approximately 20 years ago on former agricultural lands.

Sampling Protocol

Samples were collected on May 14, 2008 at 10 locations (see Figure 3), approved in advance by Audubon International. These locations were selected in order to provide a diverse cross section of the site and include locations in close proximity to Wetland AM-15 and the Cascade Amenia Brook. The sampling sites included portions of the property that are maintained areas within the golf course (green, fairway, and rough) as well as unmaintained perimeter areas (woods and wetland). Pesticides (herbicides, fungicides, and insecticides) are generally applied to the greens to maintain required turf characteristics.

Table 1 – Sample Locations

LOCATION	SAMPLE
green	SR-1, SR-7
fairway	SR-4, SR-9
rough	SR-2, SR-3, SR-5
woods	SR-6, SR-8
wetland	SR-10

At each location, samples were taken by use of a JMC 12” sampling tube. Several ¾” diameter cores (to a depth of about 3”) were taken within a 3-foot radius at each location and composited to insure more representative samples and an adequate volume of material to fill a sample jar. Fragments of turf, roots, and stones were rejected from the samples.

Testing Protocol

The soil samples were sent by overnight express to the Brookside Laboratories, Inc. soil pesticide analysis facility in New Knoxville, OH where the samples were analyzed using EPA Method 8270. The list of required analytes (Table 2) was provided to the operator by Shawn Williams, Staff Ecologist with Audubon International, in consultation with Charles Peacock, Senior Scientist with Audubon International. A summary of the results of the analyses are presented in Table 3; the laboratory reports are enclosed.

Table 2 – Pesticide Use

ANALYTE	USE
Deltamethrin*	pyrethroid insecticide
Iprodione*	fungicide
Chlorothalonil*	organochlorine fungicide
Chlorpyrifos	organophosphate insecticide
PCNB*	organochlorine fungicide
Cyfluthrin	pyrethroid insecticide

Note: Pesticides indicated by * have been used at the Silo Ridge Golf Course in the past 12 months

Table 3 – Samples exceeding Method Detection Level

SAMPLE	EXCEEDANCES	LOCATIONS
SR-1	1, 2, 3, 5	green
SR-2	none	rough
SR-3	none	rough
SR-4	none	fairway
SR-5	none	rough
SR-6	none	woods
SR-7	1, 2, 3, 5	green
SR-8	none	woods
SR-9	5	fairway
SR-10	none	wetland

MDL Exceedances Key

- 1 = Deltamethrin
- 2 = Iprodione
- 3 = Chlorothalonil
- 4 = Chlorpyrifos
- 5 = Pentachloronitrobenzene (PCNB)
- 6 = Cyfluthrin

Future Soil-Disturbance Activities

Reconstruction of the golf course is currently anticipated to commence in the fall of 2009, pending receipt of all applicable permits. The construction activities would require disturbance of golf greens and fairways that have been shown in this assessment to contain residues of soil pesticides.

It is unlikely that the construction activities will result in elevated pesticide levels in the adjacent water resources for the following reasons:

1. Application of pesticides will cease no less than 3 months prior to reconstruction;
2. The half-lives for the pesticides routinely applied at Silo Ridge are 3 months or less. As a result, the residues from these pesticides will be largely or completely dissipated prior to the start of construction;

Table 2 – Pesticide Use

ANALYTE	USE
Deltamethrin*	pyrethroid insecticide
Iprodione*	fungicide
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PCNB*	organochlorine fungicide
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SR-6	none	woods
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It is unlikely that the construction activities will result in elevated pesticide levels in the adjacent water resources for the following reasons:

1. Application of pesticides will cease no less than 3 months prior to reconstruction;
2. The half-lives for the pesticides routinely applied at Silo Ridge are 3 months or less. As a result, the residues from these pesticides will be largely or completely dissipated prior to the start of construction;

3. Although the golf course has been operated for about 20 years, the study did not find evidence of pesticide residues outside of the areas where they were directly applied, suggesting that they are relatively immobile in the environment;
4. Pesticides become attached to clay particles in the soil. Effective erosion and sediment control measures will limit the movement of soil to nearby surface water resources and, hence, the release of pesticides to those resources.

Table 4
Analyte Characteristics

CHEMICAL	SOIL HALF-LIFE (DAYS)	HALF-LIFE IN WATER
Deltamethrin*	13 [#]	3-4 days ⁺
Iprodione*	84 [#]	5-10 minutes ⁺⁺
Chlorothalonil*	22 [@]	10 weeks ^{**}
Chlorpyrifos	50 [@]	3 – 4 weeks ^{**}
PCNB*	39 [#]	2-5 days ^{**}
Cyfluthrin	33 [#]	1 day ^{**}

Notes: *Pesticides that have been used at the Silo Ridge Golf Course in the past 12 months. Half-life is *the time required for half of the residue to lose its analytical identity whether through dissipation, decomposition, metabolic alteration or other factors* (information from Extoxnet.orst.edu).

Data Sources:

[#]Natural Resources Management Plan for Silo Ridge, prepared by Audubon

[@] Audubon International staff (personal communication).

⁺ California EPA pesticide database website

⁺⁺ Cornell pesticide database website

^{**} Extoxnet pesticide database website

Conclusions

The May, 2008 soil sampling and testing program has detected residues of soil pesticides used at the Silo Ridge golf course in those areas to which they have been directly applied. No residues were found in areas where they have not been applied on the golf course or in adjacent areas. Reconstruction of the course and other construction activities in 2009 will not result in the release of pesticides to the adjacent surface water resources for the reasons discussed above.

Figures

Figure 1 Location Map

Figure 2 Aerial Photograph

Figure 3 Sample Locations

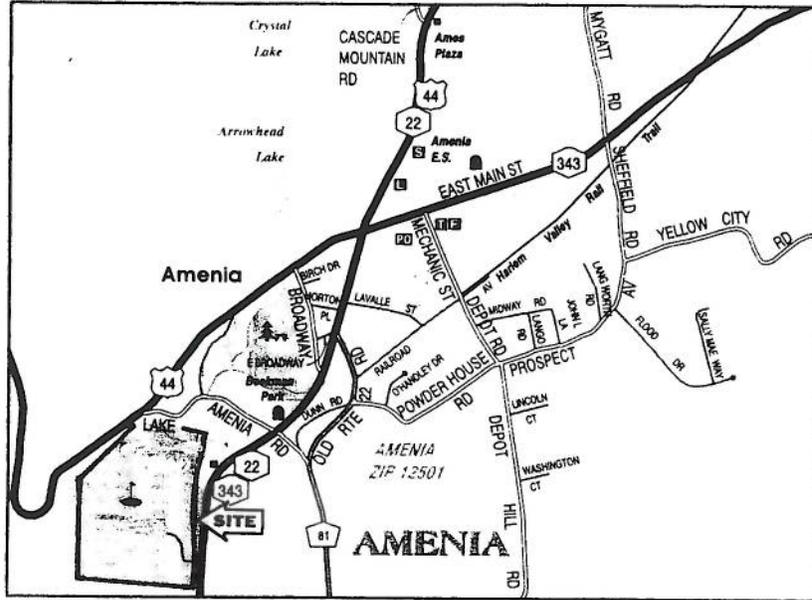


FIGURE 1 – LOCATION MAP
From: Jimapco: *Dutchess County Map*
North to Top
Not to Scale

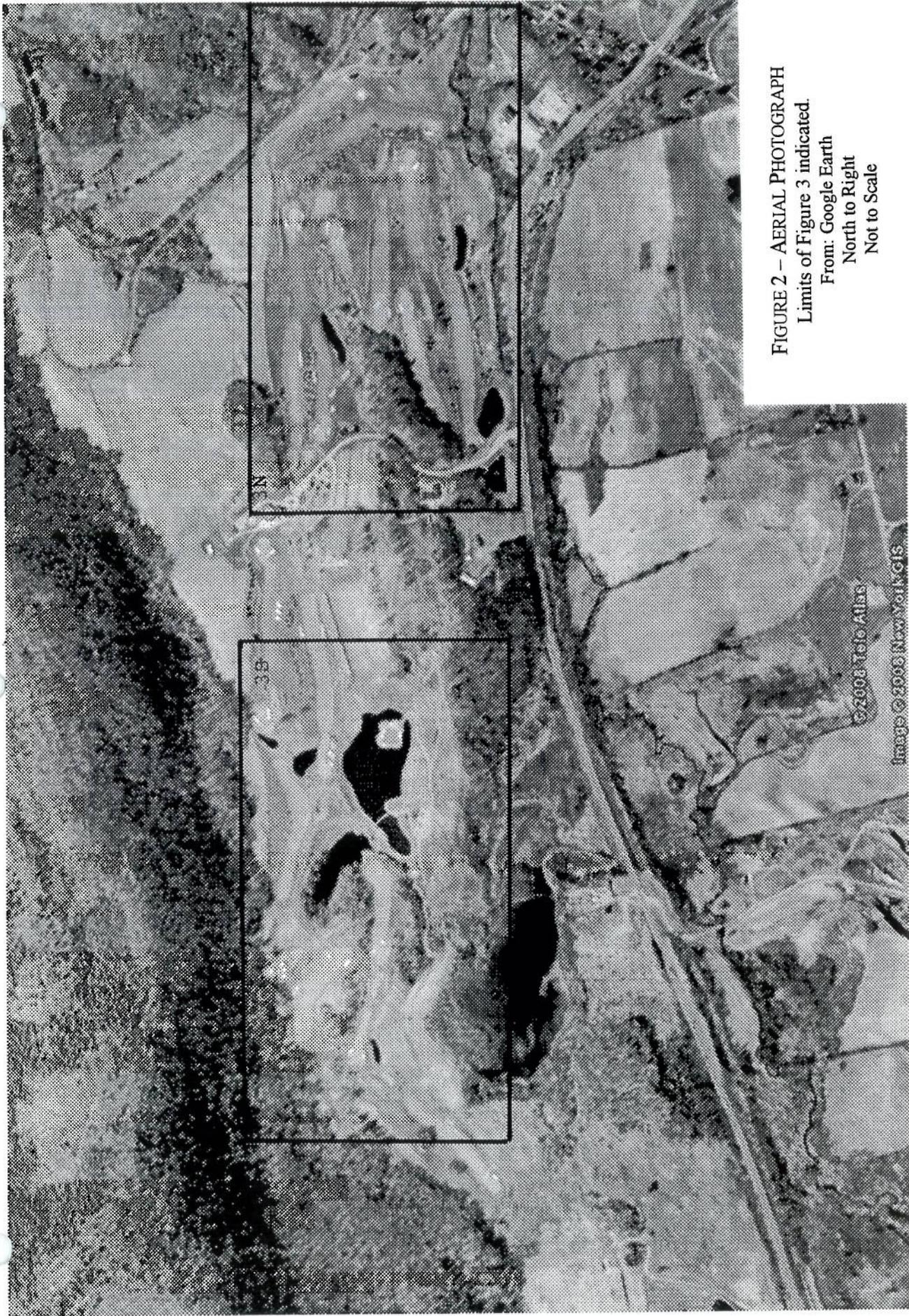


FIGURE 2 – AERIAL PHOTOGRAPH

Limits of Figure 3 indicated.

From: Google Earth

North to Right

Not to Scale

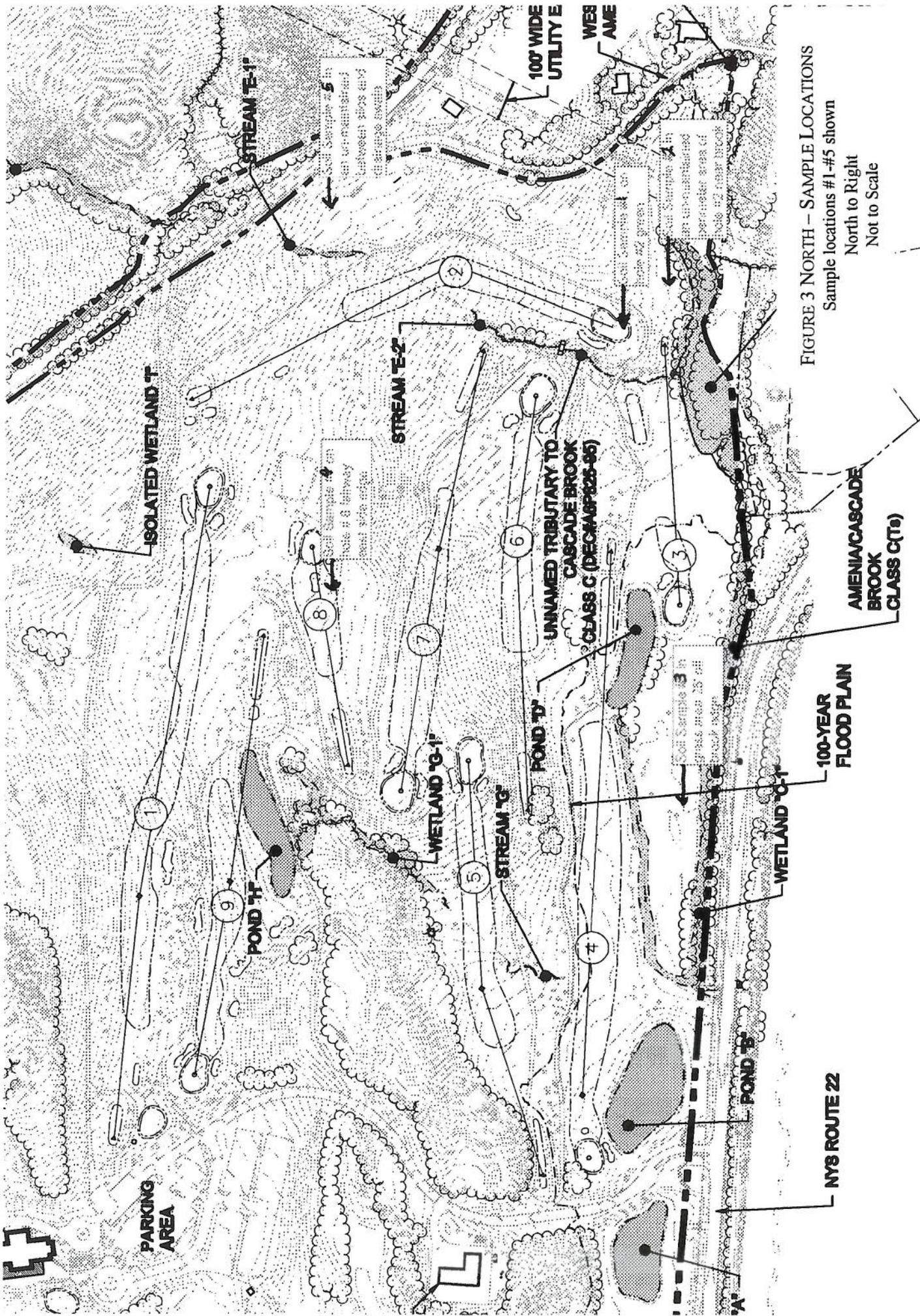


FIGURE 3 NORTH - SAMPLE LOCATIONS
 Sample locations #1-#5 shown
 North to Right
 Not to Scale

AMENIA/CASCADE
 BROOK
 CLASS C(Ts)

100-YEAR
 FLOOD PLAN

NYS ROUTE 22

PARKING
 AREA

POND T

POND B

POND G-1

STREAM E-1

STREAM E-2

STREAM G-1

STREAM G-2

UNNAMED TRIBUTARY TO
 CASCADE BROOK
 CLASS C (DECHMGR25-05)

ISOLATED WETLAND T

WETLAND G-1

WETLAND G-2

100' WIDE
 UTILITY E

WEST
 AME

Soil Sample 3
 25' off
 brook edge

Soil Sample 5
 10' from
 wetland edge
 10' from
 stream edge

Soil Sample 4
 10' from
 wetland edge
 10' from
 stream edge

Soil Sample 2
 10' from
 wetland edge
 10' from
 stream edge

Soil Sample 1
 10' from
 wetland edge
 10' from
 stream edge

Soil Sample 6
 10' from
 wetland edge
 10' from
 stream edge

Soil Sample 7
 10' from
 wetland edge
 10' from
 stream edge

Soil Sample 8
 10' from
 wetland edge
 10' from
 stream edge

Soil Sample 9
 10' from
 wetland edge
 10' from
 stream edge

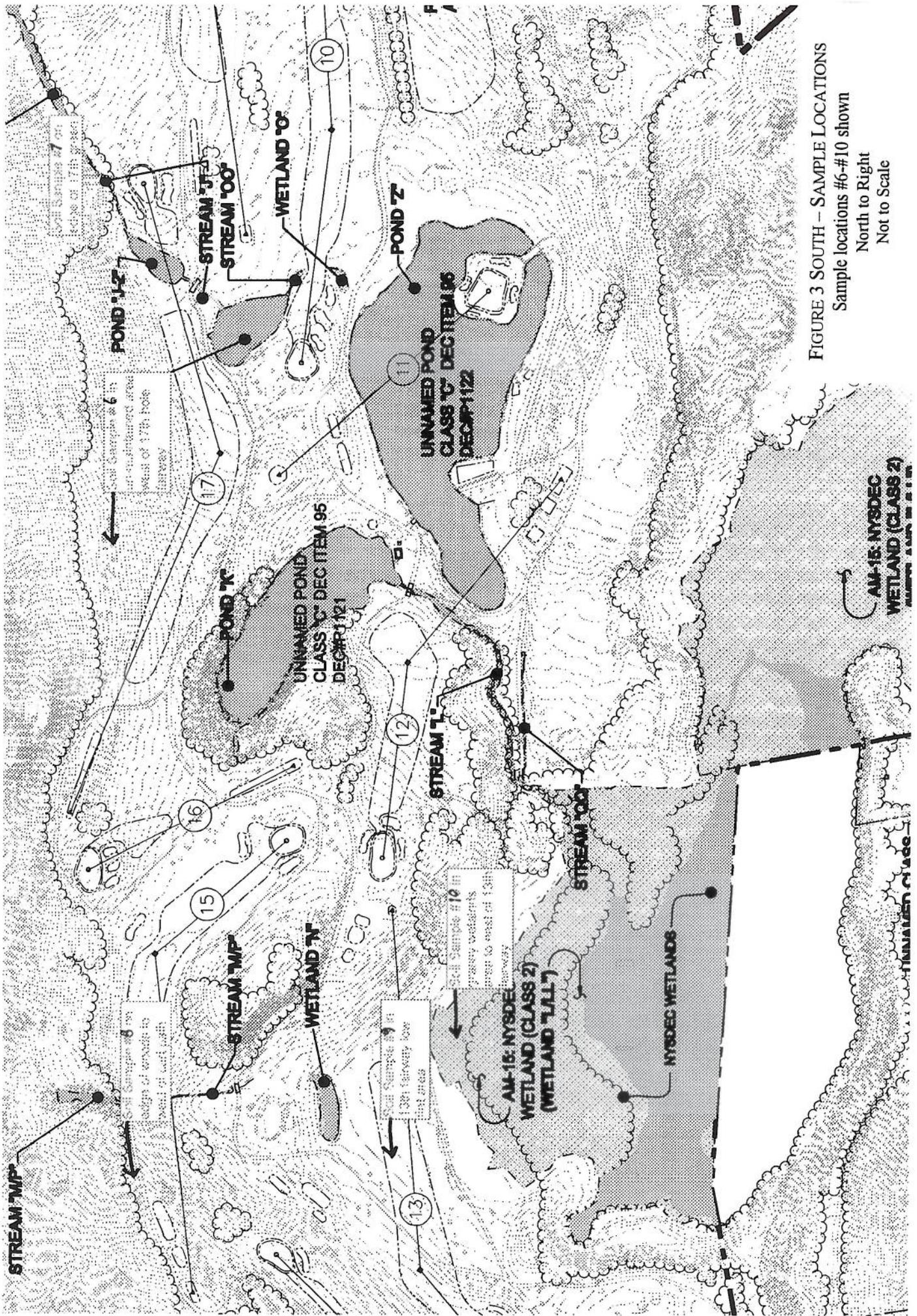
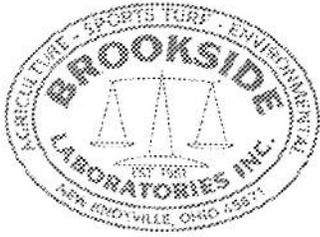


FIGURE 3 SOUTH - SAMPLE LOCATIONS
 Sample locations #6-#10 shown
 North to Right
 Not to Scale

AM-15: NYSDEC
 WETLAND (CLASS 2)

Laboratory Results
(All results reported on a dry-weight basis)



Brookside Laboratories, Inc.
Analytical Report

P.O. Box 456, 308 S. Main St.
New Knoxville, OH 45871
Phone: (419) 753-2448
Fax: (419) 753 2949

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Consultant Name: Home Office
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Date Received: 05/15/2008

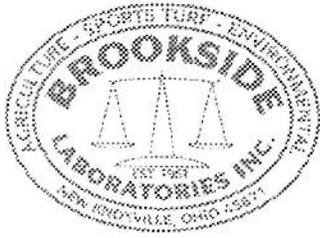
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Sub Description:

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IN097	DELTAMETHRIN (DELTA GARD)	8270	8270	05/20/2008	SRE	0.034965 mg/kg	0.00999
IO113	IPIRODIONE (CHIPCO)	8270	8270	05/20/2008	SRE	0.210289 mg/kg	0.00999
IO118	CHLOROTHALONIL (BRAVO)	8141	8270	05/20/2008	SRE	0.228271 mg/kg	0.00999
IO120	CHLORPYRIFOS (LORSBAN, DURS BAN)	8141	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00999
IO285	PENTACHLORONITROBENZENE (PCNB)	8270	8270	05/20/2008	SRE	0.034065 mg/kg	0.00999
IO648	CYFLUTHRIN (BAYTHROID)	8141	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00999

Approval:

Comments:

Thomas H. Batten
Environmental Services Coordinator



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Fax: (419) 753 2949

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Consultant Name: Home Office
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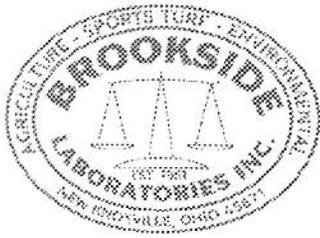
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IN097	DELTAMETHRIN (DELTA GARD)	8270	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00996
IO113	IPRODIONE (CHIPCO)	8270	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00996
IO118	CHLOROTHALONIL (BRAVO)	8141	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00996
IO120	CHLORPYRIFOS (LORSBAN, DURS BAN)	8141	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00996
IO285	PENTACHLORONITROBENZENE (PCNB)	8270	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00996
IO648	CYFLUTHRIN (BAYTHROID)	8141	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00996

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Client Name: Roy T. Budnik & Associates, Inc.
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Date Received: 05/15/2008

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Location: SR-3
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Sub Description:

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IN097	DELTA METHRIN (DELTA GARD)	8270	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00995
IO113	IPRODIONE (CHIPCO)	8270	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00995
IO118	CHLOROTHALONIL (BRAVO)	8141	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00995
IO120	CHLORPYRIFOS (LORSBAN, DURS BAN)	8141	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00995
IO285	PENTACHLORONITROBENZENE (PCNB)	8270	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00995
IO648	CYFLUTHRIN (BAYTHROID)	8141	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00995

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Client Name: Roy T. Budnik & Associates, Inc.
Consultant Name: Home Office
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Date Received: 05/15/2008

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Description:
Sub Description:

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IN097	DELTAMETHRIN (DELTA GARD)	8270	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00995
IO113	IPIRODIONE (CHIPCO)	8270	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00995
IO118	CHLOROTHALONIL (BRAVO)	8141	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00995
IO120	CHLORPYRIFOS (LORSBAN, DURSABAN)	8141	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00995
IO285	PENTACHLORONITROBENZENE (PCNB)	8270	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00995
IO648	CYFLUTHRIN (BAYTHROID)	8141	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00995

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Consultant Name: Home Office
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Date Received: 05/15/2008

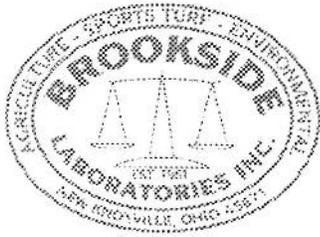
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IO113	IPRODIONE (CHIPCO)	8270	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00993
IO118	CHLOROTHALONIL (BRAVO)	8141	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00993
IO120	CHLORPYRIFOS (LORSBAN, DURSABAN)	8141	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00993
IO285	PENTACHLORONITROBENZENE (PCNB)	8270	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00993
IO648	CYFLUTHRIN (BAYTHROID)	8141	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00993

Approval:

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Client Name: Roy T. Budnik & Associates, Inc.
Consultant Name: Home Office
Date Collected: 05/14/2008 11:45:00 AM
Date Received: 05/15/2008

Lab Number: SE0515023
Location: SR-6
Description:
Sub Description:

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IO113	IPRODIONE (CHIPCO)	8270	8270	05/20/2008	SRE	< 0.01 mg/kg	0.01
IO118	CHLOROTHALONIL (BRAVO)	8141	8270	05/20/2008	SRE	< 0.01 mg/kg	0.01
IO120	CHLORPYRIFOS (LORSBAN, DURSABAN)	8141	8270	05/20/2008	SRE	< 0.01 mg/kg	0.01
IO285	PENTACHLORONITROBENZENE (PCNB)	8270	8270	05/20/2008	SRE	< 0.01 mg/kg	0.01
IO648	CYFLUTHRIN (BAYTHROID)	8141	8270	05/20/2008	SRE	< 0.01 mg/kg	0.01

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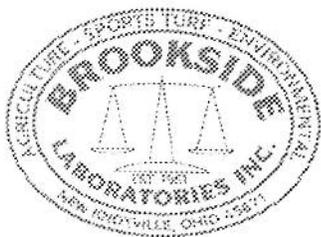
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IO285	PENTACHLORONITROBENZENE (PCNB)	8270	8270	05/20/2008	SRE	0.014442 mg/kg	0.00996
IO648	CYFLUTHRIN (BAYTHROID)	8141	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00996

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Date Received: 05/15/2008

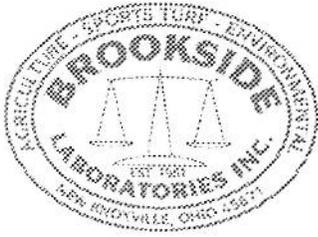
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IN097	DELTAMETHRIN (DELTA GARD)	8270	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00999
IO113	IPIRODIONE (CHIPCO)	8270	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00999
IO118	CHLOROTHALONIL (BRAVO)	8141	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00999
IO120	CHLORPYRIFOS (LORSBAN, DURSABAN)	8141	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00999
IO285	PENTACHLORONITROBENZENE (PCNB)	8270	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00999
IO648	CYFLUTHRIN (BAYTHROID)	8141	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00999

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Consultant Name: Home Office
Date Collected: 05/14/2008 12:45:00 PM
Date Received: 05/15/2008

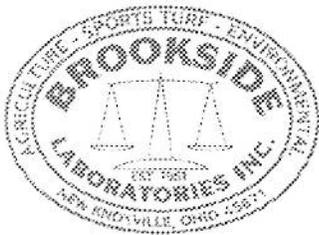
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IO118	CHLOROTHALONIL (BRAVO)	8141	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00991
IO120	CHLORPYRIFOS (LORSBAN, DURSABAN)	8141	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00991
IO285	PENTACHLORONITROBENZENE (PCNB)	8270	8270	05/20/2008	SRE	0.017937 mg/kg	0.00991
IO648	CYFLUTHRIN (BAYTHROID)	8141	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00991

Approval:

Comments:

Thomas H. Batten
Environmental Services Coordinator



Brookside Laboratories, Inc.
Analytical Report

P.O. Box 456, 308 S. Main St.
New Knoxville, OH 45871
Phone: (419) 753-2448
Fax: (419) 753 2949

Client Number: 63807
Client Name: Roy T. Budnik & Associates, Inc.
Consultant Name: Home Office
Date Collected: 05/14/2008 12:30:00 PM
Date Received: 05/15/2008

Lab Number: SE0515027
Location: SR-10
Description:
Sub Description:

<u>Code</u>	<u>Procedure Name</u>	<u>Prep Method</u>	<u>Analysis Method</u>	<u>Analysis Complete</u>	<u>Analyst</u>	<u>Result</u>	<u>MDL</u>
IN097	DELTAMETHRIN (DELTA GARD)	8270	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00998
IO113	IPRODIONE (CHIPCO)	8270	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00998
IO118	CHLOROTHALONIL (BRAVO)	8141	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00998
IO120	CHLORPYRIFOS (LORSBAN, DURS BAN)	8141	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00998
IO285	PENTACHLORONITROBENZENE (PCNB)	8270	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00998
IO648	CYFLUTHRIN (BAYTHROID)	8141	8270	05/20/2008	SRE	< 0.0099 mg/kg	0.00998

Approval:

Comments:

Thomas H. Batten
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