

RCRA CERTIFICATE OF DISPOSAL

August 08,2005

US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number USN2000-003-102/ was received by U.S. Ecology, Inc., on 07/30/2005. The waste(s) were subsequently treated, if required b CFR Part 268 and U.S. Ecology's permits and disposed of by 07/30/2005 in accordance with permits and laws regulating this facility.

Reference Number: 05073009828-USN2000-003-102-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature:

Donna Pullen

Title: RECEIVING SUPERVISOR

RCRA CERTIFICATE OF DISPOSAL

August 08,2005

US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number USN2000-003-103/ was received by U.S. Ecology, Inc., on 07/30/2005. The waste(s) were subsequently treated, if required b CFR Part 268 and U.S. Ecology's permits and disposed of by 07/30/2005 in accordance with permits and laws regulating this facility.

Reference Number: 05073009831-USN2000-003-103-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature: Donna Pullen

Title: RECEIVING SUPERVISOR

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August 08,2005

US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number USN 2000-003-104/ was received by U.S. Ecology, Inc., on 07/31/2005. The waste(s) were subsequently treated, if required b CFR Part 268 and U.S. Ecology's permits and disposed of by 07/31/2005 in accordance with permits and laws regulating this facility.

Reference Number: 05073109861-USN 2000-003-104-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature: Donna Pullen

Title: RECEIVING SUPERVISOR

RCRA CERTIFICATE OF DISPOSAL

August 08,2005

US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number USN2000-03-105/ was received by U.S. Ecology, Inc., on 07/30/2005. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits and disposed of by 07/30/2005 in accordance with permits and laws regulating this facility.

Reference Number: 05073009790-USN2000-03-105-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature: Donna Pullen

Title: RECEIVING SUPERVISOR

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US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number USN2000-003-106/ was received by U.S. Ecology, Inc., on 07/30/2005. The waste(s) were subsequently treated, if required b CFR Part 268 and U.S. Ecology's permits and disposed of by 07/30/2005 in accordance with permits and laws regulating this facility.

Reference Number: 05073009837-USN2000-003-106-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature: Donna Pullen

Title: RECEIVING SUPERVISOR

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US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number **USN2000-003-107/** was received by U.S. Ecology, Inc., on **07/30/2005**. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits and disposed of by **07/30/2005** in accordance with permits and laws regulating this facility.

Reference Number: 05073009800-USN2000-003-107-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature: Donna Pullen

Title: RECEIVING SUPERVISOR

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US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number **USN 2000-003-108/** was received by U.S. Ecology, Inc., on **07/30/2005**. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits and disposed of by **07/30/2005** in accordance with permits and laws regulating this facility.

Reference Number: 05072909734-USN 2000-003-108-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature:

Donna Pullen

Title: RECEIVING SUPERVISOR

RCRA CERTIFICATE OF DISPOSAL

August 15, 2005

US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number USN 2000-003-109/ was received by U.S. Ecology, Inc., on 08/09/2005. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits and disposed of by 08/09/2005 in accordance with permits and laws regulating this facility.

Reference Number: 05080910550-USN 2000-003-109-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature: Donna Pullen

Title: RECEIVING SUPERVISOR

RCRA CERTIFICATE OF DISPOSAL

August 08,2005

US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number USN2000-003-110/ was received by U.S. Ecology, Inc., on 07/30/2005 .The waste(s) were subsequently treated, if required b CFR Part 268 and U.S. Ecology's permits and disposed of by 07/30/2005 in accordance with permits and laws regulating this facility.

Reference Number: 05073009822-USN2000-003-110-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature: Donna Pullen

Title: RECEIVING SUPERVISOR

RCRA CERTIFICATE OF DISPOSAL

August 08,2005

US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number USN 2000-003-111/ was received by U.S. Ecology, Inc., on 07/31/2005 .The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits and disposed of by 07/31/2005 in accordance with permits and laws regulating this facility.

Reference Number: 05073109863-USN 2000-003-111-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature: Donna Pullen

Title: RECEIVING SUPERVISOR

RCRA CERTIFICATE OF DISPOSAL

August 15, 2005

US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number **USN 2000-003-112/** was received by U.S. Ecology, Inc., on **08/09/2005**. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits and disposed of by **08/09/2005** in accordance with permits and laws regulating this facility.

Reference Number: 05080910543-USN 2000-003-112-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature:

Donna Pullen

Title: RECEIVING SUPERVISOR

RCRA CERTIFICATE OF DISPOSAL

August 15,2005

US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number USN 2000-003-113/ was received by U.S. Ecology, Inc., on 08/07/2005 .The waste(s) were subsequently treated, if required b CFR Part 268 and U.S. Ecology's permits and disposed of by 08/07/2005 in accordance with permits and laws regulating this facility.

Reference Number: 05080710396-USN 2000-003-113-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature: Donna Pullen

Title: RECEIVING SUPERVISOR

RCRA CERTIFICATE OF DISPOSAL

August 15,2005

US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number USN 2000-003-114/ was received by U.S. Ecology, Inc., on 08/09/2005 . The waste(s) were subsequently treated, if required b CFR Part 268 and U.S. Ecology's permits and disposed of by 08/09/2005 in accordance with permits and laws regulating this facility.

Reference Number: 05080910525-USN 2000-003-114-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature: Donna Pullen

Title: RECEIVING SUPERVISOR

RCRA CERTIFICATE OF DISPOSAL

August 15, 2005

US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number USN 2000-003-115/ was received by U.S. Ecology, Inc., on 08/09/2005. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits and disposed of by 08/09/2005 in accordance with permits and laws regulating this facility.

Reference Number: 05080910524-USN 2000-003-115-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature: _____

Donna Pullen

Title: RECEIVING SUPERVISOR

RCRA CERTIFICATE OF DISPOSAL

August 08,2005

US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number USN2000-003-116/ was received by U.S. Ecology, Inc., on 07/30/2005 .The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits and disposed of by 07/30/2005 in accordance with permits and laws regulating this facility.

Reference Number: 05073009832-USN2000-003-116-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature: Donna Pullen

Title: RECEIVING SUPERVISOR

RCRA CERTIFICATE OF DISPOSAL

August 01, 2005

US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number USN2000-003-117/ was received by U.S. Ecology, Inc., on 07/27/2005. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits and disposed of by 07/26/2005 in accordance with permits and laws regulating this facility.

Reference Number: 05072609416-USN2000-003-117-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature: Donna Pullen

Title: RECEIVING SUPERVISOR

RCRA CERTIFICATE OF DISPOSAL

August 15, 2005

US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number USN2000-003-118/ was received by U.S. Ecology, Inc., on 08/08/2005. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits and disposed of by 08/08/2005 in accordance with permits and laws regulating this facility.

Reference Number: 05080810516-USN2000-003-118-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature: _____

Donna Pullen

Title: RECEIVING SUPERVISOR

RCRA CERTIFICATE OF DISPOSAL

July 29, 2005

US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number USN2000-003-119/ was received by U.S. Ecology, Inc., on 07/26/2005. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits and disposed of by 07/26/2005 in accordance with permits and laws regulating this facility.

Reference Number: 05072609372-USN2000-003-119-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature: Donna Pullen

Title: RECEIVING SUPERVISOR

RCRA CERTIFICATE OF DISPOSAL

July 29,2005

US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number USN2000-003-120/ was received by U.S. Ecology, Inc., on 07/26/2005 .The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits and disposed of by 07/26/2005 in accordance with permits and laws regulating this facility.

Reference Number: 05072609398-USN2000-003-120-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature: _____

Donna Pullen

Title: RECEIVING SUPERVISOR

RCRA CERTIFICATE OF DISPOSAL

August 01, 2005

US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number USN2000-003-121/ was received by U.S. Ecology, Inc., on 07/27/2005. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits and disposed of by 07/27/2005 in accordance with permits and laws regulating this facility.

Reference Number: 05072709473-USN2000-003-121-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature:

Donna Pullen

Title: RECEIVING SUPERVISOR

RCRA CERTIFICATE OF DISPOSAL

August 15,2005

US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number **USN 2000-003-122/** was received by U.S. Ecology, Inc., on **08/08/2005**. The waste(s) were subsequently treated, if required b CFR Part 268 and U.S. Ecology's permits and disposed of by **08/08/2005** in accordance with permits and laws regulating this facility.

Reference Number: 05080810518-USN 2000-003-122-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature:

Donna Pullen

Title: RECEIVING SUPERVISOR

RCRA CERTIFICATE OF DISPOSAL

August 15,2005

US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number USN 2000-003-123/ was received by U.S. Ecology, Inc., on 08/08/2005 .The waste(s) were subsequently treated, if required b CFR Part 268 and U.S. Ecology's permits and disposed of by 08/08/2005 in accordance with permits and laws regulating this facility.

Reference Number: 05080810502-USN 2000-003-123-1-a

Material: 1 ROLL OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature: Donna Pullen

Title: RECEIVING SUPERVISOR

RCRA CERTIFICATE OF DISPOSAL

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US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number USN2000-003-124/ was received by U.S. Ecology, Inc., on 08/08/2005. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits and disposed of by 08/08/2005 in accordance with permits and laws regulating this facility.

Reference Number: 05080810505-USN2000-003-124-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature: Donna Pullen

Title: RECEIVING SUPERVISOR

RCRA CERTIFICATE OF DISPOSAL

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US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number USN2000-003-125/ was received by U.S. Ecology, Inc., on 08/07/2005. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits and disposed of by 08/07/2005 in accordance with permits and laws regulating this facility.

Reference Number: 05080710398-USN2000-003-125-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature: Donna Pullen

Title: RECEIVING SUPERVISOR

RCRA CERTIFICATE OF DISPOSAL

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US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number USN 2000-003-126/ was received by U.S. Ecology, Inc., on 08/07/2005. The waste(s) were subsequently treated, if required b CFR Part 268 and U.S. Ecology's permits and disposed of by 08/07/2005 in accordance with permits and laws regulating this facility.

Reference Number: 05080710397-USN 2000-003-126-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature:

Donna Pullen

Title: RECEIVING SUPERVISOR

RCRA CERTIFICATE OF DISPOSAL

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US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number USN 2000-003-127/ was received by U.S. Ecology, Inc., on 08/07/2005. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits and disposed of by 08/07/2005 in accordance with permits and laws regulating this facility.

Reference Number: 05080710399-USN 2000-003-127-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature: _____

Donna Pullen

Title: RECEIVING SUPERVISOR

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US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number USN 2000-003-128/ was received by U.S. Ecology, Inc., on 08/07/2005. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits and disposed of by 08/07/2005 in accordance with permits and laws regulating this facility.

Reference Number: 05080610387-USN 2000-003-128-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature: _____

Donna Pullen

Title: RECEIVING SUPERVISOR

RCRA CERTIFICATE OF DISPOSAL

August 15, 2005

US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number USN 2000-003-129/ was received by U.S. Ecology, Inc., on 08/06/2005. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits and disposed of by 08/06/2005 in accordance with permits and laws regulating this facility.

Reference Number: 05080610360-USN 2000-003-129-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature: Donna Pullen

Title: RECEIVING SUPERVISOR

RCRA CERTIFICATE OF DISPOSAL

August 15, 2005

US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number USN 2000-003-130/ was received by U.S. Ecology, Inc., on 08/06/2005. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits and disposed of by 08/06/2005 in accordance with permits and laws regulating this facility.

Reference Number: 05080610373-USN 2000-003-130-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature: Donna Pullen

Title: RECEIVING SUPERVISOR

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US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number USN 2000-003-131/ was received by U.S. Ecology, Inc., on 08/06/2005. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits and disposed of by 08/06/2005 in accordance with permits and laws regulating this facility.

Reference Number: 05080610374-USN 2000-003-131-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature: Donna Pullen

Title: RECEIVING SUPERVISOR

RCRA CERTIFICATE OF DISPOSAL

August 15, 2005

US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number USN 2000-003-132/ was received by U.S. Ecology, Inc., on 08/09/2005. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits and disposed of by 08/09/2005 in accordance with permits and laws regulating this facility.

Reference Number: 05080910552-USN 2000-003-132-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature: Donna Pullen
Title: RECEIVING SUPERVISOR

RCRA CERTIFICATE OF DISPOSAL

August 15, 2005

US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number USN 2000-003-133/ was received by U.S. Ecology, Inc., on 08/09/2005. The waste(s) were subsequently treated; if required by CFR Part 268 and U.S. Ecology's permits and disposed of by 08/09/2005 in accordance with permits and laws regulating this facility.

Reference Number: 05080910563-USN 2000-003-133-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature: Donna Pullen

Title: RECEIVING SUPERVISOR

RCRA CERTIFICATE OF DISPOSAL

August 15, 2005

US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number USN 2000-003-134/ was received by U.S. Ecology, Inc., on 08/09/2005. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits and disposed of by 08/09/2005 in accordance with permits and laws regulating this facility.

Reference Number: 05080910575-USN 2000-003-134-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature: Donna Pullen

Title: RECEIVING SUPERVISOR

RCRA CERTIFICATE OF DISPOSAL

August 15,2005

US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number USN 2000-003-135/ was received by U.S. Ecology, Inc., on 08/10/2005. The waste(s) were subsequently treated, if required b CFR Part 268 and U.S. Ecology's permits and disposed of by 08/10/2005 in accordance with permits and laws regulating this facility.

Reference Number: 05081010628-USN 2000-003-135-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature: Donna Pullen

Title: RECEIVING SUPERVISOR

RCRA CERTIFICATE OF DISPOSAL

August 15, 2005

US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number **USN 2000-003-136/** was received by U.S. Ecology, Inc., on **08/09/2005**. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits and disposed of by **08/09/2005** in accordance with permits and laws regulating this facility.

Reference Number: 05080910577-USN 2000-003-136-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature:

Donna Pullen

Title: RECEIVING SUPERVISOR

RCRA CERTIFICATE OF DISPOSAL

August 15, 2005

US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number USN 2000-003-137/ was received by U.S. Ecology, Inc., on 08/10/2005. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits and disposed of by 08/10/2005 in accordance with permits and laws regulating this facility.

Reference Number: 05081010650-USN 2000-003-137-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature: _____

Donna Pullen

Title: RECEIVING SUPERVISOR

RCRA CERTIFICATE OF DISPOSAL

August 15, 2005

US ARMY JMC
GREAT LAKES NTS, MISSISSIPPI ST.
NORTH CHICAGO, IL

This is to certify that waste as defined on Uniform Hazardous Waste Manifest number USN 2000-003-138/ was received by U.S. Ecology, Inc., on 08/10/2005. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits and disposed of by 08/10/2005 in accordance with permits and laws regulating this facility.

Reference Number: 05081010655-USN 2000-003-138-1-a

Material: 1 ROLL-OFF

Process: Direct Landfill

Facility: U.S. ECOLOGY IDAHO, INC.
20400 LEMLEY ROAD
GRAND VIEW, ID 83624
EPA ID: IDD073114654

Customer: CABRERA SERVICES, INC

Printed Name: DONNA PULLEN

Signature: Donna Pullen

Title: RECEIVING SUPERVISOR

Appendix G:
Gamma Walkover Survey Raw Data
(Submitted in electronic format on compact disk)

Appendix H:
Final Status Survey Results
(Submitted in electronic format on compact disk)

Appendix H
North Fence Area
Final Status Survey Results
SU-1 and SU-2

Sample ID	Easting (X) (meters)	Northing (Y) (meters)	Depth (ft bgs)	Date Sample Collected	Th-232 Results (pCi/g)			
					Result		Uncertainty	MDC
F-N1-1001-S-01	337899.2	626200.0	1	9/28/04	8.18E-01	±	1.72E-01	2.62E-01
F-N1-1002-S-01	337908.1	626200.1	1	9/28/04	1.50E+00	±	1.99E-01	2.45E-01
F-N1-1003-S-01	337917.0	626200.1	1	10/5/04	2.20E-01	±	ND	3.23E-01
F-N1-1004-S-01	337925.9	626200.2	1	10/5/04	3.80E-01	±	ND	3.96E-01
F-N1-1005-S-01	337850.3	626192.0	1	9/29/04	9.50E-01	±	1.55E-01	1.86E-01
F-N1-1006-S-01	337859.2	626192.1	1	9/29/04	9.49E-01	±	1.86E-01	2.74E-01
F-N1-1007-S-01	337868.1	626192.1	1	9/29/04	1.08E+00	±	2.05E-01	2.05E-01
F-N1-1008-S-01	337877.0	626192.2	1	9/29/04	1.20E+00	±	2.06E-01	2.13E-01
F-N1-1009-S-01	337885.9	626192.2	1	9/29/04	9.13E-01	±	1.83E-01	2.25E-01
F-N1-1010-S-01	337894.8	626192.3	1	9/28/04	8.07E-01	±	1.69E-01	2.77E-01
F-N1-1011-S-01	337903.7	626192.3	1	9/28/04	1.01E+00	±	1.78E-01	2.74E-01
F-N1-1012-S-01	337912.6	626192.4	1	9/30/04	8.17E-01	±	1.76E-01	2.06E-01
F-N1-1013-S-01	337921.5	626192.5	1	9/30/04	8.08E-01	±	1.49E-01	2.24E-01
F-N1-1014-S-01	337930.4	626192.5	1	9/30/04	6.99E-01	±	1.59E-01	2.48E-01
F-N1-1037-B-01	337898.4	626192.1	1	10/19/04	6.22E-01	±	1.58E-01	2.57E-01
F-N2-1015-S-01	337894.5	626210.3	1	10/6/04	1.10E-01	±	ND	3.43E-01
F-N2-1016-S-01	337911.5	626210.3	1	10/6/04	3.10E-01	±	ND	4.01E-01
F-N2-1017-S-01	337864.7	626203.0	1	10/6/04	1.34E+00	±	1.82E-01	1.79E-01
F-N2-1018-S-01	337873.2	626203.0	1	10/6/04	1.80E-01	±	ND	3.67E-01
F-N2-1019-S-01	337881.7	626203.0	1	10/6/04	4.30E-01	±	ND	4.12E-01
F-N2-1020-S-01	337890.2	626203.0	1	10/6/04	1.10E-01	±	ND	4.01E-01
F-N2-1021-S-01	337915.7	626203.0	1	10/6/04	0.00E+00	±	ND	2.70E-01
F-N2-1022-S-01	337924.2	626203.0	1	10/6/04	8.00E-02	±	ND	2.34E-01
F-N2-1023-S-01	337932.7	626203.0	1	10/6/04	2.10E-01	±	ND	2.87E-01
F-N2-1024-S-01	337843.5	626195.6	1	10/6/04	7.51E-01	±	1.57E-01	2.14E-01
F-N2-1025-S-01	337937.0	626195.6	1	10/6/04	7.47E-01	±	1.64E-01	2.42E-01
F-N2-1026-S-01	337847.7	626188.3	1	10/5/04	8.62E-01	±	1.87E-01	2.07E-01
F-N2-1027-S-01	337856.2	626188.3	1	10/5/04	7.85E-01	±	1.75E-01	1.94E-01
F-N2-1028-S-01	337864.7	626188.3	1	10/5/04	6.51E-01	±	1.46E-01	1.94E-01
F-N2-1029-S-01	337873.2	626188.3	1	10/5/04	7.94E-01	±	1.76E-01	1.95E-01
F-N2-1030-S-01	337881.7	626188.3	1	10/5/04	7.57E-01	±	1.61E-01	2.09E-01
F-N2-1031-S-01	337890.2	626188.3	1	10/5/04	5.97E-01	±	1.48E-01	2.36E-01
F-N2-1032-S-01	337898.7	626188.3	1	10/5/04	6.54E-01	±	1.70E-01	2.87E-01
F-N2-1033-S-01	337907.2	626188.3	1	10/5/04	7.59E-01	±	1.96E-01	2.30E-01
F-N2-1034-S-01	337915.7	626188.3	1	10/5/04	7.70E-01	±	1.57E-01	2.29E-01
F-N2-1035-S-01	337924.2	626188.3	1	10/5/04	6.85E-01	±	1.53E-01	2.28E-01
F-N2-1036-S-01	337932.7	626188.3	1	10/5/04	8.26E-01	±	1.79E-01	3.32E-01
F-N2-1038-B-01	337929.3	626190.8	1	10/19/04	8.68E-01	±	1.79E-01	2.51E-01

Notes:

Uncertainties are reported based on a 95% (i.e., 2 σ) confidence level

MDCs are reported based on a 95% (i.e., 2 σ) confidence level

Appendix H
Recreation Area
Final Status Survey Results
SU-1

Sample ID	Easting (X) (meters)	Northing (Y) (meters)	Depth (ft bgs)	Date Sample Collected	Th-232 Results (pCi/g)			
					Result		Uncertainty	MDC
F-RA-1000-S-01	337863.1	626070.2	1	7/11/2005	1.02E+00	±	2.02E-01	3.25E-01
F-RA-1001-S-01	337872.6	626070.2	1	7/11/2005	9.03E-01	±	1.94E-01	2.93E-01
F-RA-1002-S-01	337882.1	626070.2	1	7/7/2005	9.71E-01	±	2.13E-01	3.33E-01
F-RA-1003-S-01	337858.3	626078.4	1	7/11/2005	1.34E+00	±	2.18E-01	3.12E-01
F-RA-1004-S-01	337867.8	626078.4	1	7/11/2005	1.01E+00	±	1.99E-01	2.86E-01
F-RA-1005-S-01	337877.4	626078.4	1	7/11/2005	8.45E-01	±	1.91E-01	3.35E-01
F-RA-1006-S-02	337886.9	626078.4	1	7/11/2005	1.08E+00	±	1.98E-01	3.16E-01
F-RA-1007-S-02	337853.5	626086.7	1	7/11/2005	1.03E+00	±	1.93E-01	3.03E-01
F-RA-1008-S-02	337863.1	626086.7	1	7/25/2005	1.26E+00	±	1.98E-01	2.68E-01
F-RA-1009-S-02	337872.6	626086.7	1	7/11/2005	8.72E-01	±	1.84E-01	2.87E-01
F-RA-1010-S-02	337858.3	626094.9	1	7/25/2005	2.14E-01	±	0.00E+00	5.55E-01
F-RA-1011-S-03	337867.8	626094.9	1	7/25/2005	9.15E-01	±	0.00E+00	6.78E-01
F-RA-1012-S-01	337853.5	626103.2	1	7/11/2005	9.11E-01	±	2.05E-01	2.27E-01
F-RA-1013-S-01	337863.1	626103.2	1	7/11/2005	1.06E+00	±	2.03E-01	2.64E-01
F-RA-1014-S-01	337872.6	626103.2	1	7/11/2005	1.24E+00	±	2.39E-01	2.99E-01
F-RA-081-B-01	337877.4	626088.4	1	7/27/2005	8.56E-01	±	1.85E-01	3.02E-01
F-RA-082-B-01	337850.1	626081.3	1	7/26/2005	1.25E+00	±	2.24E-01	3.05E-01
F-RA-083-B-01	337866.6	626096.3	1	7/27/2005	1.02E+00	±	2.04E-01	3.52E-01

Notes:

Uncertainties are reported based on a 95% (i.e., 2 σ) confidence level

MDCs are reported based on a 95% (i.e., 2 σ) confidence level

Appendix H
Center Tank Area
Final Status Survey Results
SU-1

Sample ID	Easting (X) (meters)	Northing (Y) (meters)	Depth (ft bgs)	Date Sample Collected	Th-232 Results (pCi/g)			
					Result		Uncertainty	MDC
F-CT-1015-01	337852.4	626106.4	1	7/13/2005	8.14E-01	±	0.00E+00	6.43E-01
F-CT-1016-01	337861.7	626106.4	1	7/13/2005	1.03E+00	±	1.88E-01	2.70E-01
F-CT-1017-04	337871.0	626106.4	1	7/27/2005	1.43E+00	±	2.22E-01	3.02E-01
F-CT-1018-01	337847.8	626114.4	1	7/13/2005	7.90E-01	±	1.48E-01	2.40E-01
F-CT-1019-01	337857.1	626114.4	1	7/13/2005	1.21E+00	±	2.06E-01	2.78E-01
F-CT-1020-02	337866.4	626114.4	1	7/20/2005	3.48E-01	±	0.00E+00	5.59E-01
F-CT-1021-02	337875.7	626114.4	1	7/20/2005	1.07E+00	±	1.95E-01	2.72E-01
F-CT-1022-01	337885.0	626114.4	1	7/14/2005	1.12E+00	±	1.90E-01	3.38E-01
F-CT-1023-01	337582.4	626122.5	1	7/14/2005	4.87E-01	±	1.44E-01	1.66E-01
F-CT-1024-01	337861.7	626122.5	1	7/14/2005	9.25E-01	±	0.00E+00	7.20E-01
F-CT-1025-01	337871.0	626122.5	1	7/14/2005	1.28E+00	±	2.23E-01	3.29E-01
F-CT-1026-01	337857.1	626130.6	1	7/14/2005	8.01E-01	±	1.73E-01	2.44E-01
F-CT-1027-01	337866.4	626130.6	1	7/14/2005	8.43E-01	±	1.97E-01	2.55E-01
F-CT-1028-01	337875.7	626130.6	1	7/14/2005	8.32E-01	±	2.09E-01	3.35E-01
F-CT-1029-01	337861.7	626138.6	1	7/14/2005	9.37E-01	±	2.18E-01	3.10E-01
F-CT-1030-02	337871.0	626138.6	1	7/20/2005	9.16E-01	±	1.84E-01	2.76E-01
F-CT-061-B-01	337886.8	626114.4	1	7/28/2005	6.89E-01	±	1.87E-01	2.14E-01
F-CT-065-B-01	337882.2	626117.1	1	7/29/2005	1.17E+00	±	2.55E-01	4.19E-01
F-CT-066-B-01	337880.8	626115.4	1	7/29/2005	9.97E-01	±	2.06E-01	3.40E-01
F-CT-067-B-01	337881.5	626115.0	1	8/1/2005	9.75E-01	±	2.32E-01	2.77E-01

Notes:

Uncertainties are reported based on a 95% (i.e., 2 σ) confidence level

MDCs are reported based on a 95% (i.e., 2 σ) confidence level

Appendix I:
Instrumentation Quality Control Records
(Submitted in electronic format on compact disk)

Appendix I Instrumentation Quality Control Records

Instrument Efficiency Calculator (Rev 2)

PROJECT NAME
Great Lakes 2005

ISOTOPE	SOURCE ID #:	SOURCE CREATION DATE:	Initial Source				DPM on Date
			DPM	half life, yrs	Decay-to-Date	lamda, yr-1	Efficiency Performed
Th230	bar code 1136	5/1/1999	5380	7.54E+04	5/25/2005	9.193E-06	6.07
							5380

Source μ Ci	half life, yrs	Decay-to-Date	lamda, yr-1	decay, yrs	μ Ci on Date Efficiency Performed

Average background counts, cpm	Average Source plus background counts, cpm	DPM Based Calculated Efficiency, cpm/dpm	μ Ci Based Calculated Efficiency, cpm/dpm
0.7	1642.7	0.305	

For:
Instrument/Probe Ludlum 2929 w 43-10-1
Serial numbers 129566 / PR132720

By:

Name	Date Performed
Hank Siegrist	6/2/2005

Background Counts, cpm	Source plus Background Counts, cpm
0	1614
1	1651
1	1612
1	1679
0	1658
2	1631
0	1674
0	1659
2	1591
0	1658
Average	0.7
	1642.7

Appendix I Instrumentation Quality Control Records

Instrument Efficiency Calculator (Rev 2)

PROJECT NAME
Great Lakes 2005

ISOTOPE	SOURCE ID #:	SOURCE CREATION DATE:	Initial Source				DPM on Date
			DPM	half life, yrs	Decay-to-Date	lamda, yr-1	Efficiency Performed
Tc-99	bar code 1161	4/25/2002	17700	2.11E+05	6/2/2005	3.285E-06	3.11
							17700
			Source µCi	half life, yrs	Decay-to-Date	lamda, yr-1	decay, yrs
							µCi on Date Efficiency Performed

Average background counts, cpm	Average Source plus background counts, cpm	DPM Based Calculated Efficiency, cpm/dpm	µCi Based Calculated Efficiency, cpm/dpm	Source plus Background	
				Background Counts, cpm	Background Counts, cpm
43.5	4144.4	0.232		53	4092
				39	4163
				43	4058
				41	4150
				38	4005
				36	4164
				38	4223
				55	4180
				47	4257
				45	4152
Average				43.5	4144.4

For:
Instrument/Probe Ludlum 2929 w 43-10-1
Serial numbers 129566 / PR132720

By:

Name	Date Performed
Chuck Mikaitis	6/2/2005

Appendix I Instrumentation Quality Control Records

Instrument Efficiency Calculator (Rev 2)

PROJECT NAME
Great Lakes 2005

			Initial Source				DPM on Date	
		SOURCE	DPM	half life, yrs	Decay-to-Date	lamda, yr-1	decay, yrs	Efficiency Performed
ISOTOPE	SOURCE ID #:	CREATION DATE:	4500	2.88E+01	5/25/2005	2.407E-02	1.04	4389
Sr90	bar code 8343	5/12/2004						
			Source μ Ci	half life, yrs	Decay-to-Date	lamda, yr-1	decay, yrs	μ Ci on Date
								Efficiency Performed

Average background counts, cpm	Average Source plus background counts, cpm	DPM Based Calculated Efficiency, cpm/dpm	μ Ci Based Calculated Efficiency, cpm/dpm
48.0	2033.6	0.452	

For:
Instrument/Probe Serial numbers
Ludlum 2929 w 43-10-1
129566 / PR132720

By:
Name Date Performed
Hank Siegrist 6/2/2005

Source plus Background	
Background Counts, cpm	Background Counts, cpm
48	2064
48	2057
48	1976
48	2100
48	2019
48	2078
48	2007
48	1973
48	2033
48	2029
Average	48.0 2033.6

Appendix I Instrumentation Quality Control Records

Instrument Efficiency Calculator (Rev 2)

PROJECT NAME
Great Lakes 2005 Ludlum efficiency

ISOTOPE	SOURCE ID #:	SOURCE CREATION DATE:	Initial Source				DPM on Date	
			DPM	half life, yrs	Decay-to-Date	lamda, yr-1	decay, yrs	Efficiency Performed
Ni63	99Ni2204017	12/16/1999	305000	1.00E+02	5/23/2005	6.931E-03	5.44	293717
			Source μ Ci	half life, yrs	Decay-to-Date	lamda, yr-1	decay, yrs	μ Ci on Date Efficiency Performed

Average background counts, cpm	Average Source plus background counts, cpm	DPM Based Calculated Efficiency, cpm/dpm	μ Ci Based Calculated Efficiency, cpm/dpm
48.0	10622.0	0.036	

For:
Instrument/Probe Serial numbers
Ludlum 2929 w 43-10-1
129566 / PR132720

By:
Name Date Performed
Hank Siegrist 6/2/2005

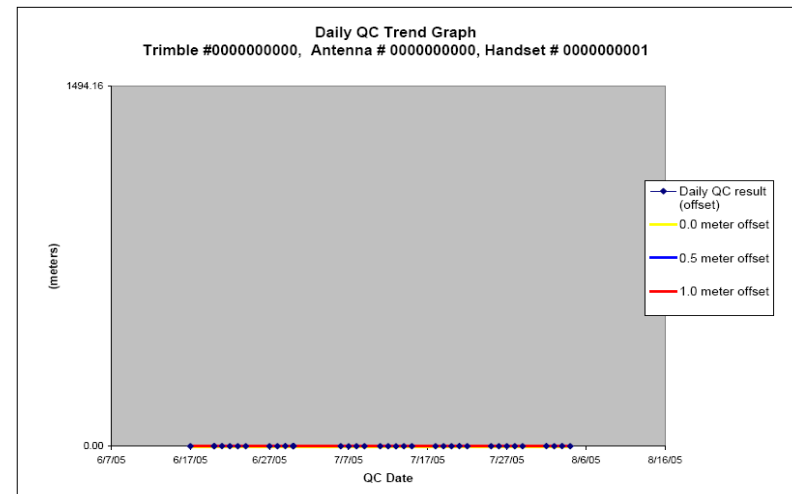
Source plus Background Counts, cpm	
48	10622
Average	48.0 10622.0

Appendix I **Instrumentation Quality Control Records** **GPS Meter**

Trimble #0224025692, Antenna # 0220289260, Handset # 0220246522					
QC Daily GPS (meters)					
Date	AM/PM	Northing (meters)	Easting (meters)	Offset (m)	P/F
6/17/2005	AM	626135.1	337928.1	0.50	PASS
6/20/2005	AM	626135.6	337928.2	1.01	FAIL
6/20/2005	AM	626134.6	337928.7	0.64	PASS
6/21/2005	AM	626134.1	337928.7	0.81	PASS
6/22/2005	AM	626134.800	337928.700	0.67	PASS
6/23/2005	AM	626135.200	337927.700	0.70	PASS
6/24/2005	AM	626134.400	337928.600	0.58	PASS
6/27/2005	AM	626134.800	337928.600	0.58	PASS
6/28/2005	AM	626134.400	337928.400	0.39	PASS
6/29/2005	AM	626134.000	337928.700	0.88	PASS
6/30/2005	AM	626134.600	337929.100	1.04	FAIL
6/30/2005	AM	626133.400	337929.100	1.59	FAIL
6/30/2005	AM	626134.400	337928.300	0.31	PASS
7/6/2005	AM	626134.400	337928.400	0.39	PASS
7/7/2005	AM	626134.700	337928.000	0.12	PASS
7/8/2005	AM	626134.921	337928.179	0.34	PASS
7/9/2005	AM	626134.554	337928.727	0.67	PASS
7/11/2005	AM	626135.042	337928.104	0.44	PASS
7/12/2005	AM	626134.971	337928.515	0.59	PASS
7/13/2005	AM	626134.646	337928.299	0.24	PASS
7/14/2005	AM	626134.646	337928.515	0.46	PASS
7/15/2005	AM	626134.937	337928.271	0.40	PASS
7/18/2005	AM	626134.903	337927.988	0.31	PASS
7/19/2005	AM	626134.224	337928.523	0.60	PASS
7/20/2005	AM	626134.934	337927.911	0.37	PASS
7/21/2005	AM	626133.738	337928.298	0.89	PASS
7/22/2005	AM	626134.403	337928.305	0.31	PASS
7/25/2005	AM	626134.976	337928.005	0.38	PASS
7/26/2005	AM	626134.624	337928.397	0.34	PASS
7/27/2005	AM	626134.505	337928.553	0.50	PASS
7/28/2005	AM	626134.253	337928.698	0.73	PASS
7/29/2005	AM	626134.281	337928.494	0.54	PASS
8/1/2005	AM	626134.252	337928.943	0.95	PASS
8/2/2005	AM	626134.291	337928.289	0.38	PASS
8/3/2005	AM	626135.349	337928.495	0.87	PASS
8/4/2005	AM	626134.650	337928.682	0.62	PASS

Trimble #0224025692, Antenna # 0220289260,		
Initial GPS Readings (meters)		
Date	Northing	Easting
6/17/2005	626133.8	337928.3
6/17/2005	626134.1	337928.2
6/17/2005	626134.4	337928.1
6/17/2005	626134.7	337928.0
6/17/2005	626134.7	337928.0
6/17/2005	626134.7	337928.0
6/17/2005	626134.7	337928.0
6/17/2005	626134.9	337928.0
6/17/2005	626135.0	337928.0
6/17/2005	626135.0	337928.0
Average		
	626134.600	337928.060

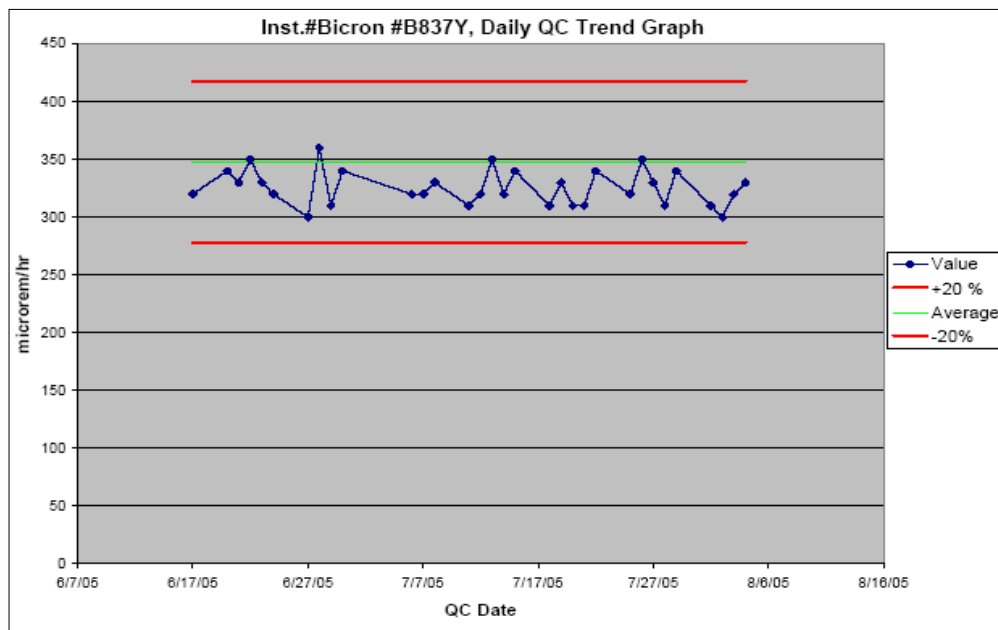
max	626135.0	337928.3
Min	626133.8	337928.0
Delta	1.20000	0.30000
Stdev	0.391422796	0.107372542
Max offset (m)	1.24	PASS



Appendix I **Instrumentation Quality Control Records** **General Doserate Meter**

Inst.#Bicron #B837Y		
QC Daily Source		
Date	Result (µrem/hr)	P/F
6/17/2005	320	Pass
6/20/2005	340	Pass
6/21/2005	330	Pass
6/22/2005	350	Pass
6/23/2005	330	Pass
6/24/2005	320	Pass
6/27/2005	300	Pass
6/28/2005	360	Pass
6/29/2005	310	Pass
6/30/2005	340	Pass
7/6/2005	320	Pass
7/7/2005	320	Pass
7/8/2005	330	Pass
7/11/2005	310	Pass
7/12/2005	320	Pass
7/13/2005	350	Pass
7/14/2005	320	Pass
7/15/2005	340	Pass
7/18/2005	310	Pass
7/19/2005	330	Pass
7/20/2005	310	Pass
7/21/2005	310	Pass
7/22/2005	340	Pass
7/25/2005	320	Pass
7/26/2005	350	Pass
7/27/2005	330	Pass
7/28/2005	310	Pass
7/29/2005	340	Pass
8/1/2005	310	Pass
8/2/2005	300	Pass
8/3/2005	320	Pass
8/4/2005	330	Pass

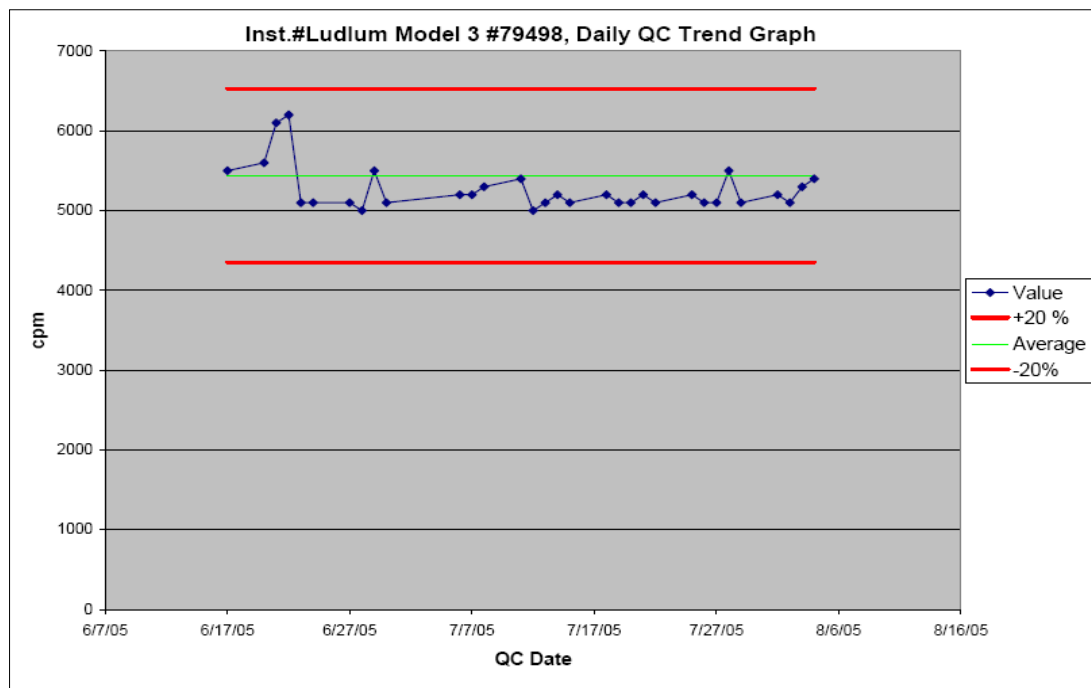
Inst.#Bicron #B837Y		Source Ser. #	53
Initial Source Readings		Nuclide	Co-57
Date	Result (µrem/hr)		
6/16/2005	350		
6/16/2005	360		
6/16/2005	330		
6/16/2005	340		
6/16/2005	360		
6/16/2005	350		
6/16/2005	360		
6/16/2005	340		
6/16/2005	340		
6/16/2005	350		
		Average	
		348	



Appendix I **Instrumentation Quality Control Records** **General Countrate Meter**

Inst.#Ludlum Model 3 #79498		
QC Daily Source		
Date	Result (cpm)	P/F
6/17/2005	5500	Pass
6/20/2005	5600	Pass
6/21/2005	6100	Pass
6/22/2005	6200	Pass
6/23/2005	5100	Pass
6/24/2005	5100	Pass
6/27/2005	5100	Pass
6/28/2005	5000	Pass
6/29/2005	5500	Pass
6/30/2005	5100	Pass
7/6/2005	5200	Pass
7/7/2005	5200	Pass
7/8/2005	5300	Pass
7/11/2005	5400	Pass
7/12/2005	5000	Pass
7/13/2005	5100	Pass
7/14/2005	5200	Pass
7/15/2005	5100	Pass
7/18/2005	5200	Pass
7/19/2005	5100	Pass
7/20/2005	5100	Pass
7/21/2005	5200	Pass
7/22/2005	5100	Pass
7/25/2005	5200	Pass
7/26/2005	5100	Pass
7/27/2005	5100	Pass
7/28/2005	5500	Pass
7/29/2005	5100	Pass
8/1/2005	5200	Pass
8/2/2005	5100	Pass
8/3/2005	5300	Pass
8/4/2005	5400	Pass

Inst.#Ludlum Model 3		Source Ser. #	1903-04
Initial Source Readings		Nuclide	Tc-99
Date	Result (cpm)		
6/16/2005	6000		
6/16/2005	5200		
6/16/2005	5000		
6/16/2005	5500		
6/16/2005	5700		
6/16/2005	5200		
6/16/2005	5400		
6/16/2005	5800		
6/16/2005	5100		
6/16/2005	5500		
Average			
		5440	





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LUDLUM MEASUREMENTS, INC.
POST OFFICE BOX 810 PH. 325-235-5494
501 OAK STREET FAX NO. 325-235-4672
SWEETWATER, TEXAS 79556, U.S.A.

CUSTOMER CABRERA SERVICES

ORDER NO. 236029 / 291886

Mfg. Ludlum Measurements, Inc. Model 2221

Serial No. 163673

Mfg. Ludlum Measurements, Inc. Model 44-10

Serial No. PR166295

Cal. Date 19-May-05 Cal Due Date 19-May-06 Cal. Interval 1 Year Meterface 202-159

Check mark ☒ applies to applicable instr. and/or detector IAW mfg. spec. T. 74 °F RH 46 % Alt 697.8 mm Hg

☐ New Instrument ☐ Instrument Received ☒ Within Toler. $\pm 10\%$ ☐ 10-20% ☐ Out of Tol. ☐ Requiring Repair ☐ Other-See comments

☒ Mechanical ck. ☒ Meter Zeroed ☐ Background Subtract ☒ Input Sens. Linearity

☒ F/S Resp. ck. ☒ Reset ck. ☒ Window Operation ☒ Geotropism

☒ Audio ck. ☐ Alarm Setting ck. ☒ Batt. ck. (Min. Volt) 5.0 VDC

☒ Calibrated in accordance with LMI SOP 14.8 rev 12/05/89. ☐ Calibrated in accordance with LMI SOP 14.9 rev 02/07/97.

Instrument Volt Set 1000 V Input Sens. 10 mV Det. Oper. 1000 V at 10 mV Threshold Dial Ratio 100 = 10 mV

☒ HV Readout (2 points) Ref./Inst. 500 / 498 V Ref./Inst. 2000 / 1998 V

COMMENTS:

Peak settings	Gross Counts	Model 2221 currently set
High Voltage: <u>735</u> V	<u>1000</u> V	for gross counts
Threshold dial: <u>642</u>	<u>100 (10mv)</u>	High voltage set with detector
Window dial: <u>40</u>	<u>n/a</u>	connected.
Window Position: <u>"IN"</u>	<u>"OUT"</u>	Instrument cal'd with 5 ft. cable.
Resolution for Cs137: <u>~ 11 %</u>	<u>n/a</u>	Firmware: <u>26 10 27</u>

Gamma Calibration: GM detectors positioned perpendicular to source except for M 44-9 in which the front of probe faces source.

RANGE/MULTIPLIER	REFERENCE CAL. POINT	INSTRUMENT REC'D "AS FOUND READING"	INSTRUMENT METER READING*
X 1000	400 Kcpm	<u>400</u>	<u>400</u>
X 1000	100 Kcpm	<u>100</u>	<u>100</u>
X 100	40 Kcpm	<u>400</u>	<u>400</u>
X 100	10 Kcpm	<u>100</u>	<u>100</u>
X 10	4 Kcpm	<u>400</u>	<u>400</u>
X 10	1 Kcpm	<u>100</u>	<u>100</u>
X 1	400 cpm	<u>400</u>	<u>400</u>
X 1	100 cpm	<u>100</u>	<u>100</u>

*Uncertainty within $\pm 10\%$ C.F. within $\pm 20\%$

ALL Range(s) Calibrated Electronically

REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*
Digital Readout			Log Scale		
400 K cpm	<u>40161(0)</u>	<u>40161(0)</u>	500 K cpm	<u>500 K</u>	<u>500 K</u>
40 K cpm	<u>4009</u>	<u>4009</u>	50 K cpm	<u>50 K</u>	<u>50 K</u>
4 K cpm	<u>400</u>	<u>400</u>	5 K cpm	<u>5 K</u>	<u>5 K</u>
400 cpm	<u>40</u>	<u>40</u>	500 cpm	<u>500</u>	<u>500</u>
40 cpm	<u>4</u>	<u>4</u>	50 cpm	<u>50</u>	<u>50</u>

Ludlum Measurements, Inc. certifies that the above instrument has been calibrated by standards traceable to the National Institute of Standards and Technology, or to the calibration facilities of other International Standards Organization members, or have been derived from accepted values of natural physical constants or have been derived by the ratio type of calibration techniques. The calibration system conforms to the requirements of ANSI/NCSL Z540-1-1994 and ANSI N323-1978 State of Texas Calibration License No. LO-1963

Reference Instruments and/or Sources:

Cs-137 Gamma S/N ☐ 1162 ☐ G112 ☐ M565 ☐ 5105 ☐ T1008 ☐ T879 ☐ E552 ☐ E551 ☐ 720 ☐ 734 ☐ 1616 ☐ Neutron Am-241 Be S/N T-304

☐ Alpha S/N ☐ Beta S/N ☒ Other Cs-137 1 μ Ci

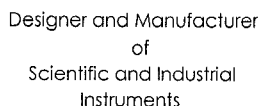
☒ m 500 S/N 189491 ☐ Oscilloscope S/N ☒ Multimeter S/N 82250292

Calibrated By: Donnie Miekos

Date 19-May-05

Reviewed By: WJL

Date 19 May 05



LUDLUM MEASUREMENTS, INC.
POST OFFICE BOX 810 PH. 325-235-5494
501 OAK STREET FAX NO. 325-235-4672
SWEETWATER, TEXAS 79556, U.S.A.

Defector 44-10 Serial No. PR166295
 Customer CABRERA SERVICES Order #. 236029 / 291886
 Counter 2221 Serial No. 163673 Counter Input Sensitivity 10 mV
 Count Time 6 seconds Distance Source to Detector surface
 Other _____

[illegible]

Date 19. May. 05



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SWEETWATER, TEXAS 79556, U.S.A.

CUSTOMER CABRERA SERVICES

ORDER NO. 219925/283572

Mfg. Ludlum Measurements, Inc. Model 2224-1

Serial No. 162426

Mfg. Ludlum Measurements, Inc. Model 43-93

Serial No. PR193921

Cal. Date 3-Aug-04 Cal Due Date 3-Aug-05 Cal. Interval 1 Year Meterface 202-848

Check mark ☒ applies to applicable instr. and/or detector IAW mfg. spec. T. 74 °F RH 48 % Alt 699.8 mm Hg

☐ New Instrument Instrument Received ☒ Within Toler. $\pm 10\%$ ☐ 10-20% ☐ Out of Tol. ☐ Requiring Repair ☐ Other-See comments

☒ Mechanical ck.

☒ Meter Zeroed

☐ Background Subtract

☐ Input Sens. Linearity

☐ F/S Resp. ck

☒ Reset ck.

☒ Window Operation

☒ Geotropism

☒ Audio ck.

☐ Alarm Setting ck.

☒ Batt. ck. (Min. Volt) 2.2 VDC

☒ Calibrated in accordance with LMI SOP 14.8 rev 12/05/89.

☐ Calibrated in accordance with LMI SOP 14.9 rev 02/07/97.

Instrument Volt Set 825 V Input Sens. Comment mV Det. Oper. 825 V at Comment mV Threshold Dial Ratio = mV

☒ HV Readout (2 points) Ref./Inst. 500 / 504 V Ref./Inst. 1000 / 1001 V

COMMENTS:

alpha sensitivity = 120mv

beta sensitivit = 3.5 mv

beta window = 30 mv

firmware = 390096

cal'd with 5ft cable

high voltage set with detector not connected

4 pi efficiencies (see plateau for details)

Tc99: 20.50 % sn ni-ev

Sry90: 30.09 % sn 5218

Ni63: 0.16 % sn 99ni22

Th230: 19.28 % sn 5020

Gamma Calibration: GM detectors positioned perpendicular to source except for M 44-9 in which the front of probe faces source.

RANGE/MULTIPLIER	REFERENCE CAL. POINT	INSTRUMENT REC'D "AS FOUND READING"	INSTRUMENT METER READING*
<u>x1000</u>	<u>800Kcpm</u>	<u>800</u>	<u>800</u>
<u>x1000</u>	<u>200Kcpm</u>	<u>200</u>	<u>200</u>
<u>x100</u>	<u>80Kcpm</u>	<u>800</u>	<u>800</u>
<u>x100</u>	<u>20Kcpm</u>	<u>200</u>	<u>200</u>
<u>x10</u>	<u>8Kcpm</u>	<u>800</u>	<u>800</u>
<u>x10</u>	<u>2Kcpm</u>	<u>200</u>	<u>200</u>
<u>x1</u>	<u>800cpm</u>	<u>800</u>	<u>800</u>
<u>x1</u>	<u>200cpm</u>	<u>200</u>	<u>200</u>

*Uncertainty within $\pm 10\%$ C.F. within $\pm 20\%$

ALL Range(s) Calibrated Electronically

REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*
Digital Readout			Log Scale		
<u>800Kcpm</u>	<u>8000 18</u>	<u>799886</u>			
<u>80Kcpm</u>	<u>80000</u>	<u>79994</u>			
<u>8Kcpm</u>	<u>8000</u>	<u>8000</u>			
<u>800cpm</u>	<u>800</u>	<u>800</u>			
<u>80cpm</u>	<u>80</u>	<u>80</u>			

Ludlum Measurements, Inc. certifies that the above instrument has been calibrated by standards traceable to the National Institute of Standards and Technology, or to the calibration facilities of other International Standards Organization members, or have been derived from accepted values of natural physical constants or have been derived by the ratio type of calibration techniques. The calibration system conforms to the requirements of ANSI/NCISL Z540-1-1994 and ANSI N323-1978 State of Texas Calibration License No. LO-1963

Reference Instruments and/or Sources:

Cs-137 Gamma S/N ☐ 1162 ☐ G112 ☐ M565 ☐ 5105 ☐ T1008 ☐ T879 ☐ E552 ☐ E551 ☐ 720 ☐ 734 ☐ 1616 ☐ Neutron Am-241 Be S/N T-304

☐ Alpha S/N ☐ Beta S/N ☐ Other

☒ m 500 S/N 141240 ☐ Oscilloscope S/N ☒ Multimeter S/N 71300492

Calibrated By: Zsolt Puskas

Date 3 Aug 04

Reviewed By: LO

Date 4 Aug 04

This certificate shall not be reproduced except in full, without the written approval of Ludlum Measurements, Inc.
FORM C22A 11/26/2003

AC Inst. ☐ Passed Dielectric (Hi-Pot) and Continuity Test
Only ☐ Failed:



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POST OFFICE BOX 810 PH. 325-235-5494
501 OAK STREET FAX NO. 325-235-4672
SWEETWATER, TEXAS 79556, U.S.A.

Bench Test Data For Detector

Detector 43-93 Serial No. PR193921 Order # 219925/283572
Customer CABRERA SERVICES
Counter 2224-1 Serial No. 162426 Alpha Input Sensitivity 120 mV
Count Time 1 Minute Beta Input Sensitivity 3.5 mV
Other _____ Beta Window 30 mV
Distance Source to Detector surface

High Voltage	Background		Isotope <u>Pu239</u> Size <u>25.2Kdpm</u> <u>21.91%</u>		Isotope <u>Tc99</u> Size <u>22,599 Dpm</u> <u>20.50%</u>		Isotope <u>Sr90</u> Size <u>119535 Dpm</u> <u>30.09%</u>	
	Alpha	Beta	Alpha	Beta	Alpha	Beta	Alpha	Beta
800	0	264	5455	410	2	3846	0	38782
825	0	284	5521	543	1	4673	1	43143
850	2	386	5625	715	1	5750	2	46192

- ☐ Gas Proportional detector count rate decreased $\leq$ 10% after 15 hour static test using 39" cable.
☐ Gas proportional detector count rate decreased $\leq$ 10% after 5 hour static test using 39" cable and alpha/beta counter.

Signature Leslie P. Pector

Date 3 Aug 04



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Bench Test Data For Detector

Detector 43-93 Serial No. PR193921 Order #. 219925/283572
Customer CABRERA SERVICES
Counter 2224-1 Serial No. 162426 Alpha Input Sensitivity 120 mV
Count Time 1 Minute Beta Input Sensitivity 3.5 mV
Other _____ Beta Window 30 mV
Distance Source to Detector surface

High Voltage	Background		Isotope <u>Th230</u> Size <u>5730 Dpm</u> <u>19.28%</u>		Isotope _____ Size _____		Isotope _____ Size _____	
	Alpha	Beta	Alpha	Beta	Alpha	Beta	Alpha	Beta
<u>800</u>	<u>0</u>	<u>264</u>	<u>1034</u>	<u>308</u>				
<u>825</u>	<u>0</u>	<u>284</u>	<u>1105</u>	<u>330</u>				
<u>850</u>	<u>2</u>	<u>386</u>	<u>1132</u>	<u>468</u>				

- ☐ Gas Proportional detector count rate decreased $\leq$ 10% after 15 hour static test using 39" cable.
- ☐ Gas proportional detector count rate decreased $\leq$ 10% after 5 hour static test using 39" cable and alpha/beta counter.

Signature Leslie Penbeton

Date 3 Aug 04



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POST OFFICE BOX 810 PH. 325-235-5494
501 OAK STREET FAX NO. 325-235-4672
SWEETWATER, TEXAS 79556, U.S.A.

CUSTOMER CANBRERA SERVICES ORDER NO. 236341/292050
Mfg. Ludlum Measurements, Inc. Model 2929 Serial No. 129566
Mfg. Ludlum Measurements, Inc. Model 43-10-1 Serial No. PR-132720
Cal. Date 23-May-05 Cal Due Date 23-May-06 Cal. Interval 1 Year Meterface 202-825
Check mark ☒ applies to applicable instr. and/or detector IAW mfg. spec. T. 75 °F RH 43 % Alt 697.8 mm Hg
☐ New Instrument Instrument Received ☒ Within Toler. $\pm 10\%$ ☐ 10-20% ☐ Out of Tol. ☐ Requiring Repair ☐ Other-See comments
☒ Mechanical ck. ☐ Window Operation
☒ Audio ck.
☒ Meter Zeroed Alpha Sensitivity 175 mV Beta Sensitivity 4 mV Beta Window 50 mV
☒ Calibrated in accordance with LMI SOP 14.8 rev 12/05/89. ☐ Calibrated in accordance with LMI SOP 14.9 rev 02/07/97.
Instrument Volt Set 725 V = 2.93 on High Voltage dial. High Voltage set with detector connected.
☒ HV Readout (2 points) Ref./Inst. 500 / 500 V Ref./Inst. 2000 / 2011 V

COMMENTS:

High voltage set with detector connected.
4 pi efficiencies (refer to plateau sheets at selected voltage).
Th-230=35%4pi, Tc-99=35%4pi, Ni-63=3.6%4pi, Sr90Y90=40%4pi

Gamma Calibration: GM detectors positioned perpendicular to source except for M 44-9 in which the front of probe faces source.

	REFERENCE CAL POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*
Alpha Channel Digital Readout	<u>400K cpm</u>	<u>39968 (0)</u>	<u>39968(0)</u>
	<u>40K cpm</u>	<u>3996</u>	<u>3996</u>
	<u>4K cpm</u>	<u>398</u>	<u>398</u>
	<u>400 cpm</u>	<u>40</u>	<u>40</u>
	<u>40 cpm</u>	<u>4</u>	<u>4</u>
Beta/Gamma Channel Digital Readout	<u>400K cpm</u>	<u>39942 (0)</u>	<u>39942(0)</u>
	<u>40K cpm</u>	<u>3997</u>	<u>3997</u>
	<u>4K cpm</u>	<u>399</u>	<u>399</u>
	<u>400 cpm</u>	<u>40</u>	<u>40</u>
	<u>40 cpm</u>	<u>4</u>	<u>4</u>

*Uncertainty within $\pm 10\%$ C.F. within $\pm 20\%$

Ludlum Measurements, Inc. certifies that the above instrument has been calibrated by standards traceable to the National Institute of Standards and Technology, or to the calibration facilities of other International Standards Organization members, or have been derived from accepted values of natural physical constants or have been derived by the ratio type of calibration techniques. The calibration system conforms to the requirements of ANSI/NCSL Z540-1-1994 and ANSI N323-1978. State of Texas Calibration License No. LO-1963

Reference Instruments and/or Sources:

Cs-137 Gamma S/N ☐ 1162 ☐ G112 ☐ M565 ☐ 5105 ☐ T1008 ☐ T879 ☐ E552 ☐ E551 ☐ 720 ☐ 734 ☐ 1616 ☐ Neutron Am-241 Be S/N T-304
☒ Alpha S/N Th 230 SN: 5020-03 ☒ Beta S/N Tc 99 SN: NI-EV/Ni-63 SN: 4017 ☐ Other _____
☒ m 500 S/N 50800 ☐ Oscilloscope S/N _____ ☒ Multimeter S/N 83990502

Calibrated By: Charles Date 23 May 05
Reviewed By: W. R. H. Date 23 May 05



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POST OFFICE BOX 810 PH. 325-235-5494
501 OAK STREET FAX NO. 325-235-4672
SWEETWATER, TEXAS 79556, U.S.A.

Bench Test Data For Detector

Detector 43-10-1 Serial No. PR-132720

Order #. 236341/292050

Customer CANBRERA SERVICES

Alpha Input Sensitivity 175 mV

Counter 2929 Serial No. 129566

Beta Input Sensitivity 4 mV

Count Time 1 Minute

Beta Window 30 mV

Other _____ Distance Source to Detector _____

Isotope Tc99
Size 22600cpm

Isotope _____
Size _____

Isotope _____
Size _____

High Voltage	Background		Isotope		Isotope		Isotope	
	Alpha	Beta	Alpha	Beta	Alpha	Beta	Alpha	Beta
<u>675</u>	<u>2</u>	<u>49</u>	<u>3</u>	<u>6583</u>				
<u>700</u>	<u>1</u>	<u>56</u>	<u>1</u>	<u>7250</u>				
<u>725</u>	<u>0</u>	<u>48</u>	<u>2</u>	<u>8033</u>				
<u>750</u>	<u>0</u>	<u>56</u>	<u>5</u>	<u>8140</u>				
<u>775</u>	<u>2</u>	<u>64</u>	<u>3</u>	<u>8354</u>				

☐ Gas Proportional detector count rate decreased $\leq 10\%$ after 15 hour static test using 39" cable.

☐ Gas proportional detector count rate decreased $\leq 10\%$ after 5 hour static test using 39" cable and alpha/beta counter.

Signature Charles disk

Date 23 May 05



Designer and Manufacturer
of
Scientific and Industrial
Instruments

LUDLUM MEASUREMENTS, INC.
POST OFFICE BOX 810 PH. 325-235-5494
501 OAK STREET FAX NO. 325-235-4672
SWEETWATER, TEXAS 79556, U.S.A.

Bench Test Data For Detector

Detector 43-10-1 Serial No. PR-132720 Order #. 236341/292050
Customer CANBRERA SERVICES
Counter 2929 Serial No. 129566 Alpha Input Sensitivity 175 mV
Count Time 1 Minute Beta Input Sensitivity 4 mV
Other _____ Beta Window 50 mV
Distance Source to Detector Tray

High Voltage	Background		Isotope <u>Sc-90Y90</u> Size <u>108430 dpm</u>		Isotope <u>Ni-63</u> Size <u>292899 dpm</u>		Isotope <u>Th-230</u> Size <u>5730 dpm</u>	
	Alpha	Beta	Alpha	Beta	Alpha	Beta	Alpha	Beta
<u>675</u>	<u>2</u>	<u>49</u>	<u>2</u>	<u>46780</u>	<u>6</u>	<u>2204</u>	<u>1980</u>	<u>228</u>
<u>700</u>	<u>1</u>	<u>56</u>	<u>18</u>	<u>45902</u>	<u>2</u>	<u>6197</u>	<u>1958</u>	<u>303</u>
<u>725</u>	<u>0</u>	<u>48</u>	<u>121</u>	<u>43481</u>	<u>5</u>	<u>10622</u>	<u>2000</u>	<u>357</u>
<u>750</u>	<u>0</u>	<u>56</u>	<u>297</u>	<u>39885</u>	<u>3</u>	<u>15918</u>	<u>2030</u>	<u>387</u>
<u>775</u>	<u>2</u>	<u>64</u>	<u>780</u>	<u>36305</u>	<u>3</u>	<u>22281</u>	<u>2068</u>	<u>538</u>

- ☐ Gas Proportional detector count rate decreased $\leq$ 10% after 15 hour static test using 39" cable.
- ☐ Gas proportional detector count rate decreased $\leq$ 10% after 5 hour static test using 39" cable and alpha/beta counter.

Signature

Charles Lisk

Date

23 May 05



CALIBRATION CERTIFICATE

Duratek Instrument Services
628 Gallaher Road
Kingston, TN 37763
Phone: (865) 376-8337
Fax: (865) 376-8331

This Certificate will be accompanied by Calibration Charts or Readings where applicable

Customer Information			Instrument Information		
Customer Name: Duratek Instrument Services			Manufacturer: Ludlum		
Address: 628 Gallaher Road, Kingston, TN 37763			Model: 2929	Serial Number: 95572	
Contact Name: Thomas F. Scott			Probe: 43-10-1	Serial Number: 118756	
Customer Purchase Order Number: N/A		Work Order Number: 2004-02246	Calibration Method: Electronic And Source		
Instrument Calibration Information					
M&TE	ID Number	Calibration Due Date	Environmental Conditions		
Thermometer	2816	04/15/05	Temperature	24.6°C	
Barometer	2816	04/15/05	Pressure	739mmHg	
Hygrometer	7480	02/10/05	Humidity	66%	
Pulse Generator	101500	09/24/05	Calibrated in accordance with CP-IN-WI-235 Rev. 1		
DVM	TW12663	03/22/05			
Isotope	Source ID Number	Original Activity (dpm)	Source Cert. Date	Decayed Activity (dpm)	
Th ²³⁰	119737	18,720	10/20/97	18,720	
Pu ²³⁹	019442	13,613	06/01/92	13,613	
Tc ⁹⁹	019418	23,465	10/01/92	23,465	
SrY ⁹⁰	129676	15,367	05/12/03	15,367	
Frequency Calibration					
Desired (cpm)	Tolerances (cpm)	Alpha As Found (cpm)	Alpha As Left (cpm)	Beta As Found (cpm)	Beta As Left (cpm)
40	40	40	40	40	40
400	(392-408)	399	399	399	399
4,000	(3,920-4,080)	3,986	3,986	3,984	3,984
40,000	(39.2K-40.8K)	39,830	39,830	39,839	39,839
400,000	(392K-408K)	398,328	398,328	398,317	398,317
Background Determination		Alpha As Found	Alpha As Left	Beta As Found	Beta As Left
Counts, C _b		11	11	1,294	1,294
Time, T _b (min)		20	20	20	20
Rate, R _b (cpm)		0.55	0.55	64.7	64.7
Statement of Certification					
We Certify that the instrument listed above was calibrated and inspected prior to shipment and that it met all the Manufacturers published operating specifications. We further certify that our Calibration Measurements are traceable to the National Institute of Standards and Technology. (We are not responsible for damage incurred during shipment or use of this instrument).					
Instrument					
Calibrated By: Mike Paul		Reviewed By: Thomas F. Scott		Date: 10-20-04	
Calibration Date: 10/20/04			Calibration Due: 10/20/05		

CROSS TALK SHEET & EFFICIENCY SHEET

Instrument ID: 95572

As Found Alpha Threshold (mv)		As Left Alpha Threshold (mv)			
178		178			
Alpha Source: Performed using Pu ²³⁹ #019442					
Paramter and Tolerance	Alpha As Found	Alpha As Left	Beta As Found	Beta As Left	
Source Count, C _s	25,460	25,460	810	810	
Time, T _s (min)	5	5	5	5	
Rate, R _s (cpm)	R _{s[α]} = 5,092	R _{s[α]} = 5,092	R _{s[β]} = 162	R _{s[β]} = 162	
EFF (% c/d) (>25%)	37.4%	37.4%	N/A	N/A	
%Crosstalk [α to β] (< 10%)	$\frac{R_{s[\beta]} - R_{b[\beta]}}{R_{s[\alpha]} - R_{b[\alpha]}} = \frac{162 - 64.7}{5092 - 0.55} = 1.91\%$				
As Found Beta Low Threshold	As Left Beta Low Threshold	As Found Beta High Threshold	As Left Beta High Threshold		
4.4mv	4.4mv	50mv	50mv		
Beta Source: Performed using Tc ⁹⁹ #019418					
Paramter and Tolerance	Alpha As Found	Alpha As Left	Beta As Found	Beta As Left	
Source Count, C _s	2	2	15,261	15,261	
Time, T _s (min)	5	5	5	5	
Rate, R _s (cpm)	R _{s[α]} = 0.4	R _{s[α]} = 0.4	R _{s[β]} = 3052.2	R _{s[β]} = 3052.2	
EFF (% c/d) (>10%)	N/A	N/A	12.7%	12.7%	
%Crosstalk [β to α] (< 1%)	$\frac{R_{s[\alpha]} - R_{b[\alpha]}}{R_{s[\beta]} - R_{b[\beta]}} = \frac{0.4 - 0.55}{3052.2 - 64.7} = -0.005\%$				
High Voltage Power					
Desired Voltage	Tolerance	DVM As Found	DVM As Left	2929 Meter As Found	2929 Meter As Left
600	540 – 660	628	628	600	600
800	720 – 880	838	838	800	800
1,000	900 – 1,100	1,051	1,051	1,000	1,000
1,200	1,080 – 1,320	1,254	1,254	1,200	1,200
1,300	1,170 – 1,430	1,365	1,365	1,300	1,300
High Voltage		As Found	Vern Dial Reading	As Left	Vern Dial Reading
		950V	3.86	950V	3.86
Statement of Certification					
We Certify that the instrument listed above was calibrated and inspected prior to shipment and that it met all the Manufacturers published operating specifications. We further certify that our Calibration Measurements are traceable to the National Institute of Standards and Technology. (We are not responsible for damage incurred during shipment or use of this instrument).					
Instrument					
Calibrated By: <u>Mike Paul</u>		Reviewed By: <u>Thomas F. Acelt</u>		Date: <u>10-20-04</u>	
Calibration Date: 10/20/04			Calibration Due: 10/20/05		

EFFICIENCY SHEET

Instrument ID: 95572

As Found Alpha Threshold (mv)		As Left Alpha Threshold (mv)		
178		178		
Alpha Source: Th^{230} #119737				
Paramter and Tolerance	Alpha As Found	Alpha As Left	Beta As Found	Beta As Left
Source Count, C_s	28,677	28,677	N/A	N/A
Time, T_s (min)	5	5	N/A	N/A
Rate, R_s (cpm)	$R_{s[\alpha]} = 5,735.4$	$R_{s[\alpha]} = 5,735.4$	$R_{s[\beta]} = \text{N/A}$	$R_{s[\beta]} = \text{N/A}$
EFF (% c/d) (>25%)	30.6%	30.6%	N/A	N/A
%Crosstalk [α to β] (<10%)	$\frac{R_{s[\beta]} - R_{b[\beta]}}{R_{s[\alpha]} - R_{b[\alpha]}} = \frac{\text{N/A}}{\text{N/A}} = \text{N/A}$			
As Found Beta Low Threshold	As Left Beta Low Threshold	As Found Beta High Threshold	As Left Beta High Threshold	
4.4mv	4.4mv	50mv	50mv	
Beta Source: SrY^{90} #129676				
Paramter and Tolerance	Alpha As Found	Alpha As Left	Beta As Found	Beta As Left
Source Count, C_s	N/A	N/A	22,746	22,746
Time, T_s (min)	N/A	N/A	5	5
Rate, R_s (cpm)	$R_{s[\alpha]} = \text{N/A}$	$R_{s[\alpha]} = \text{N/A}$	$R_{s[\beta]} = 4,549.2$	$R_{s[\beta]} = 4,549.2$
EFF (% c/d) (>10%)	N/A	N/A	29.2%	29.2%
%Crosstalk [β to α] (<1%)	$\frac{R_{s[\alpha]} - R_{b[\alpha]}}{R_{s[\beta]} - R_{b[\beta]}} = \frac{\text{N/A}}{\text{N/A}} = \text{N/A}$			
Statement of Certification				
We Certify that the instrument listed above was calibrated and inspected prior to shipment and that it met all the Manufacturers published operating specifications. We further certify that our Calibration Measurements are traceable to the National Institute of Standards and Technology. (We are not responsible for damage incurred during shipment or use of this instrument).				
Instrument				
Calibrated By: <u>Mike Paul</u>		Reviewed By: <u>James G. Scult</u>		Date: <u>10-20-04</u>
Calibration Date: 10/20/04			Calibration Due: 10/20/05	

Instrument ID: 95572

4



Designer and Manufacturer
of
Scientific and Industrial
Instruments

CERTIFICATE OF CALIBRATION

LUDLUM MEASUREMENTS, INC.

POST OFFICE BOX 810 PH. 325-235-5494
501 OAK STREET FAX NO. 325-235-46
SWEETWATER, TEXAS 79556, U.S.A.

CUSTOMER CABRERA SERVICES

ORDER NO. 234804/291250

Mfg. Ludlum Measurements, Inc.

Model 3

Serial No. 79498

Mfg. Ludlum Measurements, Inc.

Model 44-9

Serial No. PR 073106

Cal. Date 27-Apr-05

Cal Due Date 27-Apr-06

Cal. Interval 1 Year Meterface 202-002

Check mark ☒ applies to applicable instr. and/or detector IAW mfg. spec. T. 73 °F RH 25 % Alt 698.8 mm H

☐ New Instrument ☐ Instrument Received ☒ Within Toler. $\pm 10\%$ ☐ 10-20% ☐ Out of Tol. ☐ Requiring Repair ☐ Other-See comments

☒ Mechanical ck.

☒ Meter Zeroed

☐ Background Subtract

☐ Input Sens. Linearity

☒ F/S Resp. ck

☒ Reset ck.

☐ Window Operation

☒ Geotropism

☒ Audio ck.

☐ Alarm Setting ck.

☒ Batt. ck. (Min. Volt) 2.2 VDC

☒ Calibrated in accordance with LMI SOP 14.8 rev 12/05/89.

☐ Calibrated in accordance with LMI SOP 14.9 rev 02/07/97.

Instrument Volt Set 900 V Input Sens. 28 mV Det. Oper. 900 V at 28 mV Threshold Dial Ratio =

☐ HV Readout (2 points) Ref./Inst. / V Ref./Inst. / V

COMMENTS:

efficiency readings: (4pi)

Th230 sn5020, act=5730dpm, background=40cpm, source count=1060cpm, eff=18.5%

Ni63, sn4017, act=293,044dpm, background=40cpm, source count=2460cpm, eff=.84%

Tc99, sn5280, act=93200dpm, background=40cpm, source count=19960cpm, eff=21.4%

Sr90y90, sn5281, act=117421dpm background=40cpm, source count=38960cpm, eff=33.2%

calibrated with 5' cable.

Gamma Calibration: GM detectors positioned perpendicular to source except for M 44-9 in which the front of probe faces source.

RANGE/MULTIPLIER	REFERENCE CAL. POINT	INSTRUMENT REC'D "AS FOUND READING"	INSTRUMENT METER READING*
X 100	400kcpm	4.1	4
X 100	100kcpm	1	1
X 10	40kcpm	4.05	4
X 10	10kcpm	.99	1
X 1	4kcpm	3.99	4
X 1	1kcpm	.99	1
X 0.1	400cpm	4.1	4
X 0.1	100cpm	.95	1

*Uncertainty within $\pm 10\%$ C.F. within $\pm 20\%$

ALL Range(s) Calibrated Electronically

REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING
Digital Readout			Log Scale		

Ludlum Measurements, Inc. certifies that the above instrument has been calibrated by standards traceable to the National Institute of Standards and Technology, or to the calibration facilities of other International Standards Organization members, or have been derived from accepted values of natural physical constants or have been derived by the ratio type of calibration technique. The calibration system conforms to the requirements of ANSI/NCSL Z540-1-1994 and ANSI N323-1978. State of Texas Calibration License No. LO-19

Reference Instruments and/or Sources:

Cs-137 Gamma S/N ☐ 1162 ☒ G112 ☐ M565 ☐ 5105 ☐ T1008 ☐ T879 ☐ E552 ☒ E551 ☐ 720 ☐ 734 ☐ 1616 ☐ Neutron Am-241 Be S/N T-3

☐ Alpha S/N ☐ Beta S/N ☐ Other

☒ m 500 S/N 94940 ☐ Oscilloscope S/N ☒ Multimeter S/N 78401031

Calibrated By: Scars S. Thomas Date 27-Apr-05

Reviewed By: WDH Date 28 April

This certificate shall not be reproduced except in full, without the written approval of Ludlum Measurements, Inc.

AC Inst. ☐ Passed Dielectric (Hi-Pot) and Continuity Test

CONVERSION CHART

Customer CABRERA SERVICES Date 27-Apr-05 Order #. 234804/291250

Model 3 Serial No. 79498 Detector Model 44-9 Serial No. PR073106

Source	Cs-137 194.6 mCi	Cs-137 20 mCi	High Voltage	900 v
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Input Sensitivity 28 mV

[illegible]

Signature:

Date _____



Designer and Manufacturer
of
Scientific and Industrial
Instruments

CERTIFICATE OF CALIBRATION

LUDLUM MEASUREMENTS, INC.

POST OFFICE BOX 810 PH. 325-235-5494
501 OAK STREET FAX NO. 325-235-4672
SWEETWATER, TEXAS 79556, U.S.A.

CUSTOMER CABRERA SERVICES

ORDER NO. 231463/289482

Mfg. Ludlum Measurements, Inc. Model 3

Serial No. 79511

Mfg. Ludlum Measurements, Inc. Model 44-9

Serial No. PR137499

Cal. Date 9-Mar-05 Cal Due Date 9-Mar-06 Cal. Interval 1 Year Meterface 202-002

Check mark ☒ applies to applicable instr. and/or detector IAW mfg. spec. T. 72 °F RH 35 % Alt 703.8 mm Hg

☐ New Instrument ☐ Instrument Received ☐ Within Toler. +-10% ☐ 10-20% ☐ Out of Tol. ☒ Requiring Repair ☐ Other-See comments

☒ Mechanical ck.

☒ Meter Zeroed

☐ Background Subtract

☐ Input Sens. Linearity

☒ F/S Resp. ck

☒ Reset ck.

☐ Window Operation

☒ Geotropism

☒ Audio ck.

☐ Alarm Setting ck.

☒ Batt. ck. (Min. Volt) 2.2 VDC

☒ Calibrated in accordance with LMI SOP 14.8 rev 12/05/89.

☐ Calibrated in accordance with LMI SOP 14.9 rev 02/07/97.

Instrument Volt Set 900 V Input Sens. 26 mV Det. Oper. 900 V at 26 mV Threshold Dial Ratio = mV

☐ HV Readout (2 points) Ref./Inst. / V Ref./Inst. / V

COMMENTS: See Attachment: 79511 foreff

Gamma Calibration: GM detectors positioned perpendicular to source except for M 44-9 in which the front of probe faces source.

RANGE/MULTIPLIER	REFERENCE CAL. POINT	INSTRUMENT REC'D "AS FOUND READING"	INSTRUMENT METER READING*
X 100	400 K cpm	4 K	4 K
X 100	100 K cpm	4	4
X 10	40 K cpm	4	4
X 10	10 K cpm	4	4
X 1	4 K cpm	4	4
X 1	1 K cpm	4	4
X 0.1	400 cpm	4	4
X 0.1	100 cpm	4	4

*Uncertainty within $\pm 10\%$ C.F. within $\pm 20\%$

ALL Range(s) Calibrated Electronically

REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*
Digital Readout			Log Scale		

Ludlum Measurements, Inc. certifies that the above instrument has been calibrated by standards traceable to the National Institute of Standards and Technology, or to the calibration facilities of other International Standards Organization members, or have been derived from accepted values of natural physical constants or have been derived by the ratio type of calibration techniques. The calibration system conforms to the requirements of ANSI/NCSL Z540-1-1994 and ANSI N323-1978. State of Texas Calibration License No. LO-1963

Reference Instruments and/or Sources:

Cs-137 Gamma S/N ☐ 1162 ☒ G112 ☐ M565 ☐ 5105 ☐ T1008 ☐ T879 ☐ E552 ☒ E551 ☐ 720 ☐ 734 ☐ 1616 ☐ Neutron Am-241 Be S/N T-304

☒ Alpha S/N 5020-03 ☐ Beta S/N Ni 63 4017/50490 4016 ☐ Other TC-99 NI-EV

☒ m 500 S/N 57887 ☐ Oscilloscope S/N ☒ Multimeter S/N 80040300

Calibrated By: Michael J. Thomas Date 9-Mar-05

Reviewed By: WJH Date 14-Mar-05

CONVERSION CHART

Customer CABRERA SERVICES Date 9-Mar-05 Order #. 231463/289482

Model 3 Serial No. 79511 Detector Model 44-9 Serial No. PR 137499

Source Cs-137 194.6 mCi Cs-137 20 mCi High Voltage 900 V

Input Sensitivity 26 mV

[illegible]

Signature:

Michael J. Thonoz

Date _____

9-Mar-05

LUDLUM MEASUREMENTS, INC.

501 OAK ST. / P.O. BOX 810

SWEETWATER, TEXAS 79556

Phone: 915-235-5494 800-622-0828 (USA)

Fax: 915-235-4672 E-Mail: ludlum@ludlums.comWebsite: <http://www.ludlums.com>**DESIGNER AND MANUFACTURER****OF***Scientific and Industrial
Instruments*Attachment: 79511

9-Mar-05

eff for Ni-63: 0.32% (4 π) source count: 1000 cpm - 50 cpm
Background $\div$ 293,311 dpm S/N: 4017

eff for Tc-99: 21.90% (4 π) source count: 5,000 cpm - 50 cpm
Background $\div$ 22,600 dpm source size S/N: NI-EV

eff for Th-230: 13% (4 π) source count: 800 cpm - 50 cpm
Background $\div$ 5,730 dpm source size S/N: 5020-03

eff for SrY-90: 34% (4 π) source count: 21,000 cpm - 50 cpm
Background $\div$ 60,971 source size S/N: 4016

2810 Siler Lane
 Santa Fe, NM 87501
 (505) 473-9538
 FAX: (505) 473-5805

Certificate of Calibration (Alpha Source)

The Thorium 230 alpha source was measured in a gas proportional counter using P-10 as counting gas. The alpha emissions from the surface of the source were measured at its plateau voltage to determine its 2π particle emission rate (i.e. particles per minute). Corrections were applied for background, coincidence loss and backscatter factors when applicable.

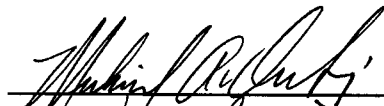
Alpha standard 97AM2200124 is our NIST calibrated source used in establishing NIST traceability following ANSI N42.22 participating in the NIST radioactivity measurement assurance program annually.

REF.PO# 189

Model S-Th-47

Active Diameter (or area) 44mm Mounting Material Ni
 Total Diameter (or area) 47mm Thickness 0.79mm

<u>2,730</u>	ppm $\pm$	<u>136</u>	ppm 2π
<u>5,380</u>	dpm $\pm$	<u>269</u>	dpm 4π
<u>0.00242</u>	uCi		Bq
<u>05-01-99</u>	date of measurement		
<u>99TH4700992</u>	source serial number		
<u>5.0</u>	overall uncertainty (percent)		
<u>1.5</u>	backscatter(percent)		




Michael A. Ortiz Calibration Manager

Vera Padilla . . Quality Control

<20 dpm leak test results (dpm/100cm²)

The overall uncertainty of the measurement is three times the value found from combining quadratically the sum of the overall uncertainty reported by NIST in the radioactive measurements assurance program; the standard deviation of the mean for the NIST standard as measured in the system used for calibration; and the standard deviation of the mean for the source measurements.

AC006-97



CALIBRATION CERTIFICATE

Duratek Instrument Services
628 Gallaher Road
Kingston, TN 37763
Phone: (865) 376-8337
Fax: (865) 376-8331

This Certificate will be accompanied by Calibration Charts or Readings where applicable

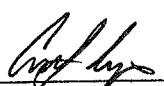
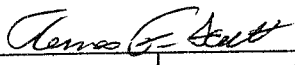
CUSTOMER INFORMATION		INSTRUMENT INFORMATION	
Customer Name: Duratek Instrument Services		Manufacturer: F&J Specialty Inc.	
Contact Name: Thomas F. Scott		Model: LV-1	
Address: 628 Gallaher Road, Kingston, TN 37763		Serial Number: 2125	
Contract/Task Number: N/A	Work Order Number: 2005-02610	Calibration Method: Air Flow	

INSTRUMENT CALIBRATION INFORMATION

Instrument Range (LPM)	Standard Value (LPM)	Tolerance (±10%)	As Found	As Left	Comments	
10 - 100	60	54-66	57.4	59.9	Barometer: 8029	Cal Due: 12/13/05
					Thermometer: 8029	Cal Due: 12/13/05
					DTH-1A: 100799	Cal Due: 12/13/05
					Fixed Flow Calibration: 60 LPM	
					Temperature: 23.1°C	
					Pressure: 742mmHg	
					Humidity: 22%	
					Previous Media: FP47M	
					Current Media: FP47M	
					Replaced bad rotometer	
					Limited Use: Flow Set to 60 LPM Rotometer Marked at 60 LPM	
					Calibrated in accordance with CP-IN-WI-301 Rev 0	

STATEMENT OF CERTIFICATION

We Certify that the instrument listed above was calibrated and inspected prior to shipment and that it met all the Manufacturers published operating specifications. We further certify that our Calibration Measurements are traceable to the National Institute of Standards and Technology. (We are not responsible for damage incurred during shipment or use of this instrument).

Instrument			
Calibrated By: 	Reviewed By: 	Date: 3-4-05	
Calibration Date: 03/04/2005		Calibration Due: 03/04/2006	



CALIBRATION CERTIFICATE

Duratek Instrument Services
628 Gallaher Road
Kingston, TN 37763
Phone: (865) 376-8337
Fax: (865) 376-8331

This Certificate will be accompanied by Calibration Charts or Readings where applicable

CUSTOMER INFORMATION		INSTRUMENT INFORMATION	
Customer Name: Duratek Instrument Services		Manufacturer: F&J Specialty Inc.	
Contact Name: Thomas F. Scott		Model: LV-1	
Address: 628 Gallaher Road, Kingston, TN 37763		Serial Number: 2295	
Contract/Task Number: N/A	Work Order Number: 2005-02610	Calibration Method: Air Flow	

INSTRUMENT CALIBRATION INFORMATION

Instrument Range (LPM)	Standard Value (LPM)	Tolerance ($\pm 10\%$)	As Found	As Left	Comments	
10 - 100	60	54-66	54.6	60.7	Barometer: 8029	Cal Due: 12/13/05
					Thermometer: 8029	Cal Due: 12/13/05
					DTH-1A: 100799	Cal Due: 12/13/05
					Fixed Flow Calibration: 60 LPM	
					Temperature: 23.1°C	
					Pressure: 742mmHg	
					Humidity: 22%	
					Previous Media: FP47M	
					Current Media: FP47M	
					Replaced bad rotometer	
					Limited Use: Flow Set to 60 LPM Rotometer Marked at 60 LPM	
					Calibrated in accordance with CP-IN-WI-301 Rev 0	

STATEMENT OF CERTIFICATION

We Certify that the instrument listed above was calibrated and inspected prior to shipment and that it met all the Manufacturers published operating specifications. We further certify that our Calibration Measurements are traceable to the National Institute of Standards and Technology. (We are not responsible for damage incurred during shipment or use of this instrument).

Instrument

Calibrated By:

Reviewed By:

Date:

5-4-05

Calibration Date: 03/04/2005

Calibration Due: 03/04/2006



Designer and Manufacturer
of
Scientific and Industrial
Instruments

CERTIFICATE OF CALIBRATION

LUDLUM MEASUREMENTS, INC.
POST OFFICE BOX 810 PH. 325-235-5494
501 OAK STREET FAX NO. 325-235-46
SWEETWATER, TEXAS 79556, U.S.A.

CUSTOMER CABRERA SERVICES

ORDER NO. 233109/290373

Mfg. Bicron Model MICRO REM

Serial No. B837Y

Mfg. _____ Model _____

Serial No. _____

Cal. Date 28-Mar-05 Cal Due Date 28-Mar-06 Cal. Interval 1 Year Meterface 0-200µrem

Check mark ☒ applies to applicable instr. and/or detector IAW mfg. spec. T. 73 °F RH 20 % Alt 699.8 mm H

☐ New Instrument Instrument Received ☒ Within Toler. +10% ☐ 10-20% ☐ Out of Tol. ☐ Requiring Repair ☐ Other-See comments

☒ Mechanical ck.

☒ Meter Zeroed

☐ Background Subtract

☐ Input Sens. Linearity

☒ F/S Resp. ck

☐ Reset ck.

☐ Window Operation

☐ Geotropism

☒ Audio ck.

☐ Alarm Setting ck.

☒ Batt. ck. (Min. Volt) 7.2 VDC

☐ Calibrated in accordance with LMI SOP 14.8 rev 12/05/89.

☒ Calibrated in accordance with LMI SOP 14.9 rev 02/07/97.

Instrument Volt Set _____ V Input Sens. _____ mV Det. Oper. _____ V at _____ mV Threshold _____ = _____

☐ HV Readout (2 points) Ref./Inst. _____ / _____ V Ref./Inst. _____ / _____ V

COMMENTS:

Gamma Calibration: GM detectors positioned perpendicular to source except for M 44-9 in which the front of probe faces source.

RANGE/MULTIPLIER	REFERENCE CAL. POINT	INSTRUMENT REC'D "AS FOUND READING"	INSTRUMENT METER READING*
x1000	150 mR/hr	150	150
x1000	50 mR/hr	50	50
x100	15 mR/hr	145	145
x100	5 mR/hr	50	50
x10	1500 µR/hr	150	150
x10	500 µR/hr	50	50
x1	150 µR/hr	150	150
x1	100 µR/hr	100	100
x0.1	15 µR/hr	150	150
x0.1			

*Uncertainty within ± 10% C.F. within ± 20%

Range(s) Calibrated Electronically

REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING
Digital Readout			Log Scale		

Ludlum Measurements, Inc. certifies that the above instrument has been calibrated by standards traceable to the National Institute of Standards and Technology, or to the calibration facilities of other International Standards Organization members, or have been derived from accepted values of natural physical constants or have been derived by the ratio type of calibration technique. The calibration system conforms to the requirements of ANSI/NCSL Z540-1-1994 and ANSI N323-1978. State of Texas Calibration License No. LO-19

Reference Instruments and/or Sources:

Cs-137 Gamma S/N ☐ 1162 ☒ G112 ☒ M565 ☐ S105 ☐ T1008 ☐ T879 ☐ E552 ☒ E551 ☐ 720 ☐ 734 ☐ 1616 ☐ Neutron Am-241 Be S/N T-3

☐ Alpha S/N _____ ☐ Beta S/N _____ ☐ Other _____

☐ m 500 S/N _____ ☐ Oscilloscope S/N _____ ☐ Multimeter S/N _____

Calibrated By: _____

Date 28 May 05

Reviewed By: _____

Date 29 MAR 05

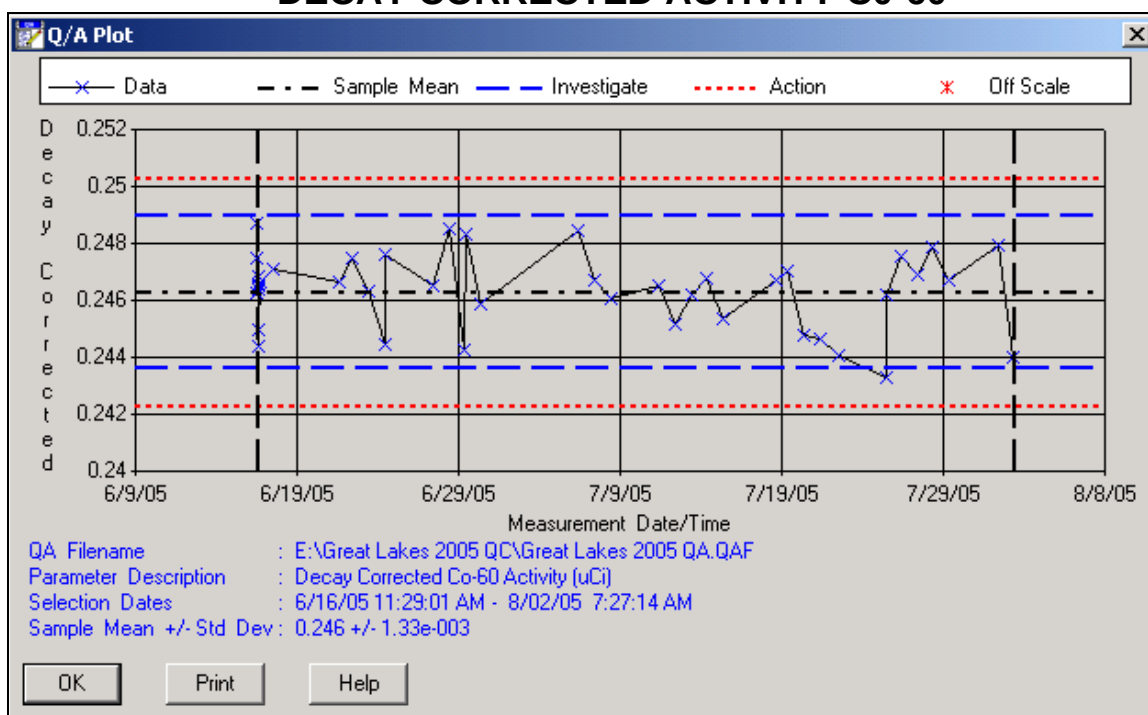
This certificate shall not be reproduced except in full, without the written approval of Ludlum Measurements, Inc.

AC Inst. ☐ Passed Dielectric (Hi-Pot) and Continuity Test

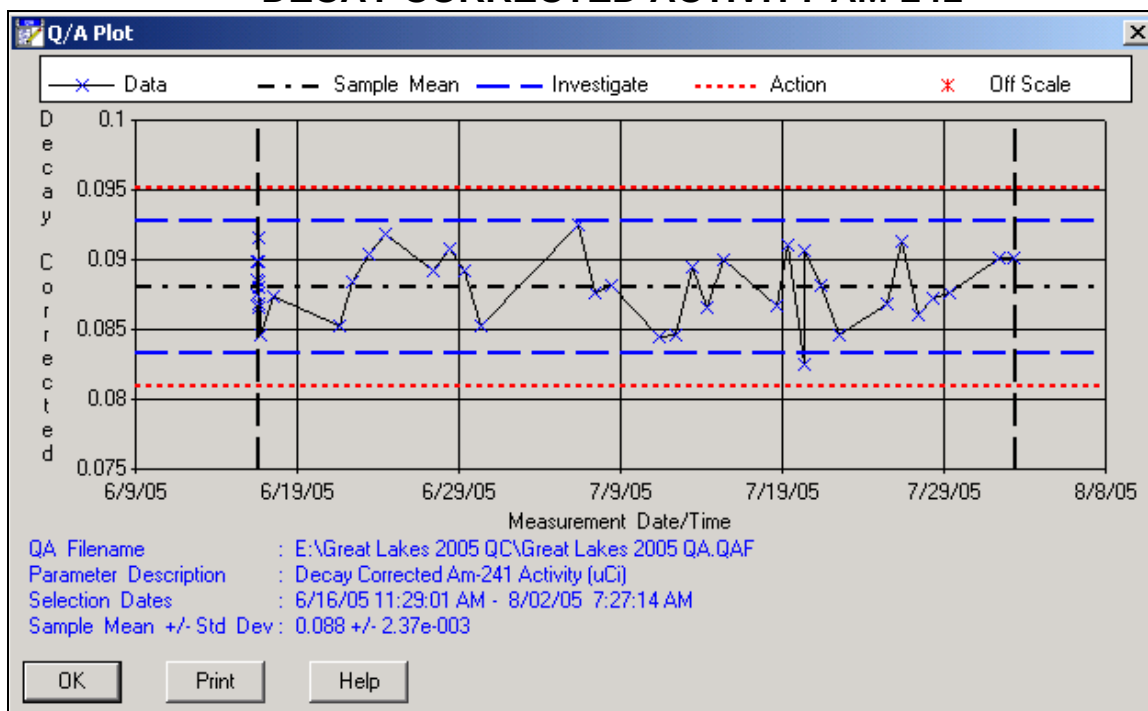
Appendix J:
CABRERA Laboratory Quality Control Results
(Submitted in electronic format on compact disk)

Appendix J
Cabrera Laboratory Quality Control Results
Decay Corrected Activity

DECAY CORRECTED ACTIVITY C0-60

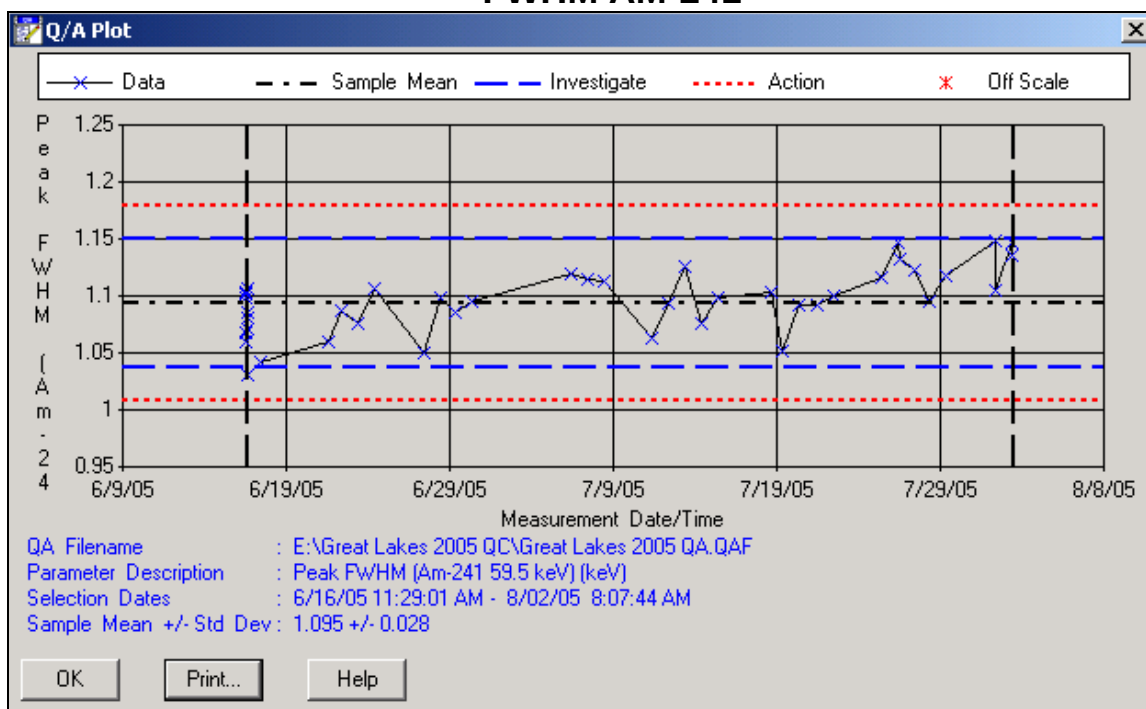


DECAY CORRECTED ACTIVITY AM-241

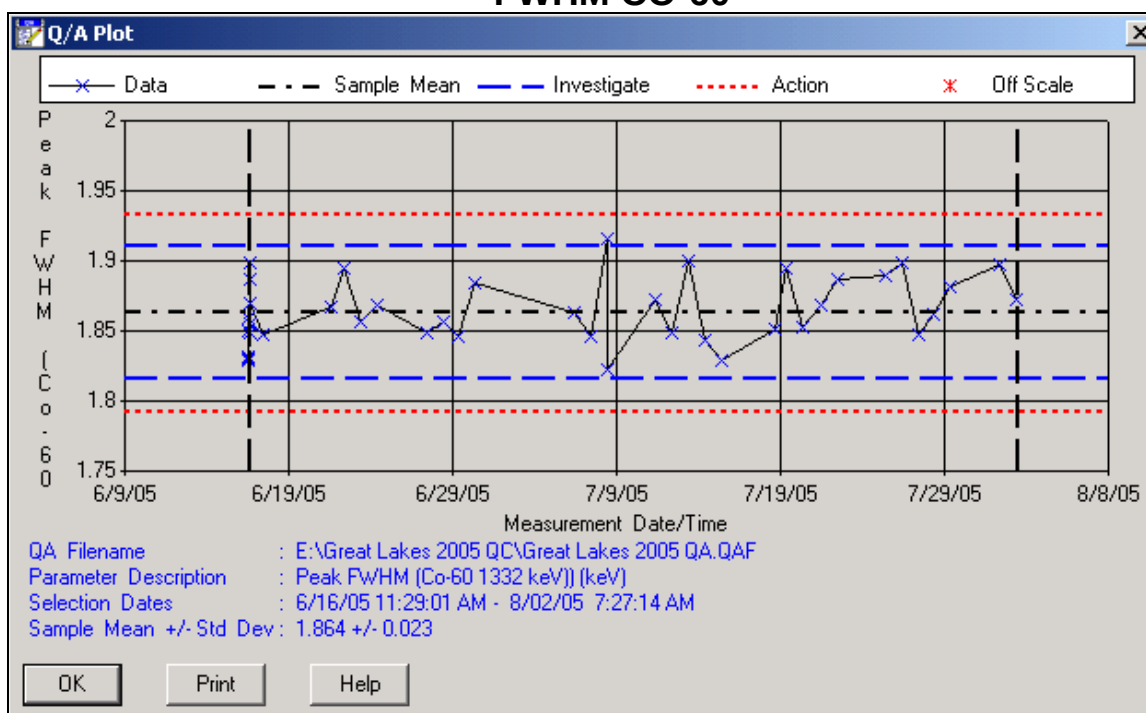


Appendix J **Cabrera Laboratory Quality Control Results** **Full Width Half Maximum**

FWHM AM-241

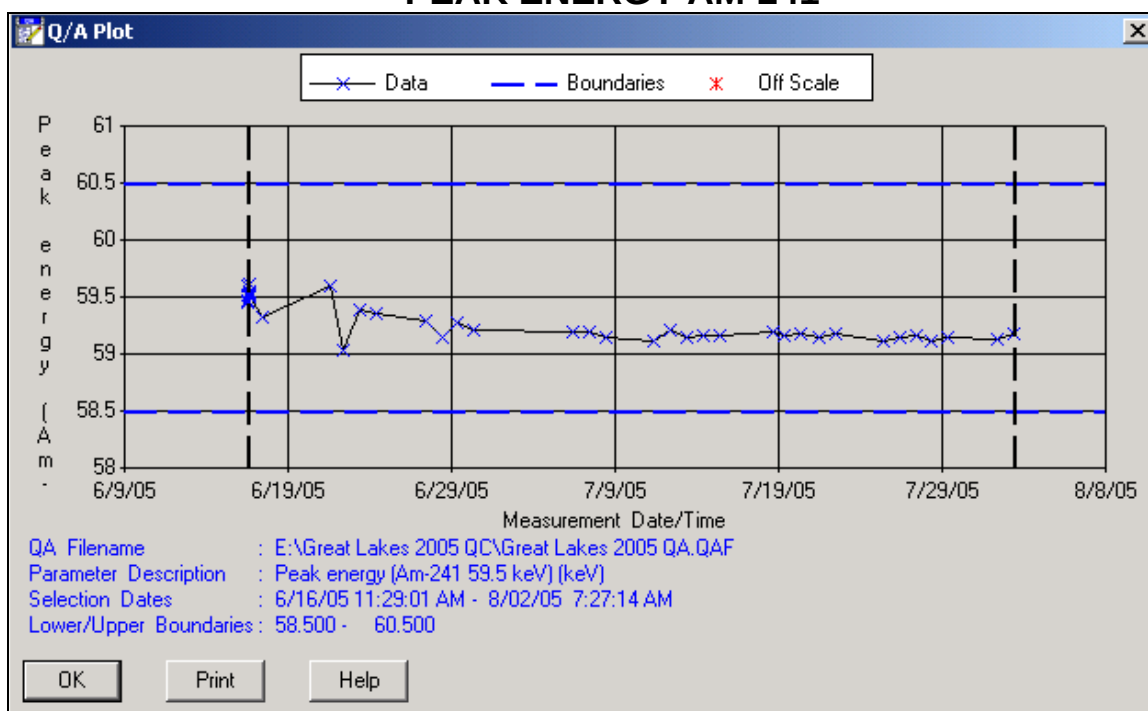


FWHM CO-60

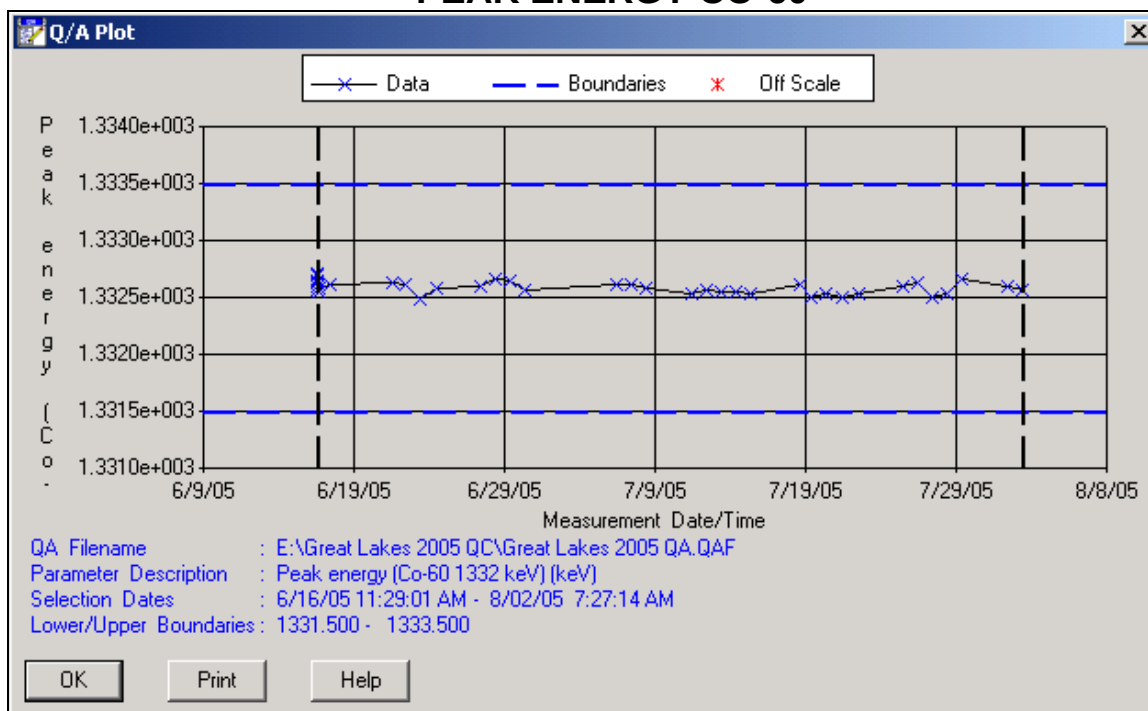


Appendix J
Cabrera Laboratory Quality Control Results
Peak Energy

PEAK ENERGY AM-241



PEAK ENERGY CO-60



Appendix K:
CABRERA Laboratory Raw Results
(Submitted in electronic format on compact disk)

Appendix K
Cabrera Laboratory Raw Results
NFA FSS

Location I/D	Sample Size	Date Started	Time Started	Efficiency ID	Units	AC-228		Uncertainty	Nuclide MDA
F-N1-1000-S-01	1500 gram	6/27/2005	10:41:16 AM	Gr Lks 6185 Eff	pCi/gram	0.2733	+	0	0.367
F-N1-1038-B-01	1460 gram	6/23/2005	9:35:50 AM	Gr Lks 6185 Eff	pCi/gram	1.198194	+	0.21365	0.335
F-N1-1039-B-01	1500 gram	6/23/2005	3:34:52 PM	Gr Lks 6185 Eff	pCi/gram	1.160609	+	0.2458288	0.297

Appendix K
Cabrera Laboratory Raw Results
NFA FSS

Location I/D	Units	AM-241		Uncertainty	Nuclide MDA	AM-243		Uncertainty	Nuclide MDA	PA-234M		Uncertainty	Nuclide MDA
F-N1-1000-S-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	2.727	+	0	8.1
F-N1-1038-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-4.198	+	0	17.4
F-N1-1039-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	1.113	+	0	15.4

Appendix K
Cabrera Laboratory Raw Results
NFA FSS

Location I/D	Units	TH-231		Uncertainty	Nuclide MDA	TH-234		Uncertainty	Nuclide MDA	U-235		Uncertainty	Nuclide MDA
F-N1-1000-S-01	pCi/gram	ND	+	ND	NR	0.1415	+	0	0.969	-0.1369	+	0	0.374
F-N1-1038-B-01	pCi/gram	ND	+	ND	NR	1.834	+	0	2.3	-0.09527	+	0	0.726
F-N1-1039-B-01	pCi/gram	ND	+	ND	NR	1.429	+	0	2.29	-0.1929	+	0	0.758

Appendix K
Cabrera Laboratory Raw Results
RA FSS

Location I/D	Sample Size	Date Started	Time Started	Efficiency ID	Units	AC-228		Uncertainty	Nuclide MDA
F-RA-0001-B-01	1348 gram	7/19/2005	2:12:08 PM	Gr Lks 6185 Eff	pCi/gram	1.736763	+	0.245649	0.415
F-RA-0002-B-01	1500 gram	7/19/2005	2:21:43 PM	Gr Lks 6185 Eff	pCi/gram	0.9538173	+	0.1801175	0.189
F-RA-080-B-01	1500 gram	7/27/2005	9:51:23 AM	Gr Lks 6185 Eff	pCi/gram	2.935987	+	0.2868764	0.312
F-RA-081-B-01	1500 gram	7/27/2005	10:01:45 AM	Gr Lks 6185 Eff	pCi/gram	0.8561749	+	0.1851555	0.302
F-RA-082-B-01	1435 gram	7/26/2005	3:10:59 PM	Gr Lks 6185 Eff	pCi/gram	1.249805	+	0.2239504	0.305
F-RA-082-B-01DUP	1435 gram	7/29/2005	9:35:39 AM	Gr Lks 6185 Eff	pCi/gram	1.105576	+	0.2124757	0.271
F-RA-083-B-01	1500 gram	7/27/2005	4:11:47 PM	Gr Lks 6185 Eff	pCi/gram	1.021683	+	0.2036639	0.352
F-RA-1000-01	1460 gram	6/22/2005	9:34:01 AM	Gr Lks 6185 Eff	pCi/gram	0.716808	+	0.2280573	0.28
F-RA-1000-S-01	1500 gram	7/11/2005	12:38:29 PM	Gr Lks 6185 Eff	pCi/gram	1.022711	+	0.2016533	0.325
F-RA-1001-01	1479 gram	6/22/2005	9:45:10 AM	Gr Lks 6185 Eff	pCi/gram	1.407413	+	0.2501932	0.374
F-RA-1001-S-01	1500 gram	7/11/2005	12:48:54 PM	Gr Lks 6185 Eff	pCi/gram	0.9031627	+	0.1941083	0.293
F-RA-1002-01	1213 gram	6/22/2005	10:07:40 AM	Gr Lks 6185 Eff	pCi/gram	0.9912663	+	0.183513	0.262
F-RA-1002-S-01	1260 gram	7/7/2005	1:42:34 PM	Gr Lks 6185 Eff	pCi/gram	0.9707392	+	0.2131656	0.333
F-RA-1003-01	1500 gram	6/22/2005	10:22:47 AM	Gr Lks 6185 Eff	pCi/gram	1.605761	+	0.1738748	0.225
F-RA-1003-S-01	1500 gram	7/11/2005	1:00:32 PM	Gr Lks 6185 Eff	pCi/gram	1.337061	+	0.2176295	0.312
F-RA-1003-S-01DUP	1500 gram	7/12/2005	9:54:40 AM	Gr Lks 6185 Eff	pCi/gram	1.359062	+	0.2239872	0.341
F-RA-1004-01	1389 gram	6/22/2005	10:34:17 AM	Gr Lks 6185 Eff	pCi/gram	1.606636	+	0.2134151	0.274
F-RA-1004-S-01	1500 gram	7/11/2005	1:14:28 PM	Gr Lks 6185 Eff	pCi/gram	1.008675	+	0.1994712	0.286
F-RA-1005-01	1333 gram	6/21/2005	3:42:36 PM	Gr Lks 6185 Eff	pCi/gram	1.091092	+	0.1791774	0.295
F-RA-1005-S-01	1500 gram	7/11/2005	1:39:06 PM	Gr Lks 6185 Eff	pCi/gram	0.8445243	+	0.1913754	0.335
F-RA-1006-01	1410 gram	6/21/2005	3:56:23 PM	Gr Lks 6185 Eff	pCi/gram	1.975119	+	0.2088549	0.218
F-RA-1006-S-01	1422 gram	6/27/2005	2:37:59 PM	Gr Lks 6185 Eff	pCi/gram	0.843905	+	0.2522043	0.477
F-RA-1006-S-02	1500 gram	7/11/2005	1:57:52 PM	Gr Lks 6185 Eff	pCi/gram	1.079058	+	0.1983859	0.316
F-RA-1007-01	1500 gram	6/21/2005	4:19:14 PM	Gr Lks 6185 Eff	pCi/gram	1.976337	+	0.2068927	0.282
F-RA-1007-01DUP	1500 gram	6/22/2005	11:12:19 AM	Gr Lks 6185 Eff	pCi/gram	2.230003	+	0.2855501	0.38
F-RA-1007-S-01	1500 gram	6/27/2005	2:54:37 PM	Gr Lks 6185 Eff	pCi/gram	1.193253	+	0.221188	0.305
F-RA-1007-S-01DUP	1500 gram	6/29/2005	1:05:03 PM	Gr Lks 6185 Eff	pCi/gram	1.157366	+	0.2128959	0.274
F-RA-1007-S-02	1500 gram	7/11/2005	2:07:01 PM	Gr Lks 6185 Eff	pCi/gram	1.031984	+	0.1932303	0.303
F-RA-1008-01	1447 gram	6/21/2005	4:25:11 PM	Gr Lks 6185 Eff	pCi/gram	1.331049	+	0.247604	0.363
F-RA-1008-S-01	1500 gram	7/11/2005	2:27:55 PM	Gr Lks 6185 Eff	pCi/gram	1.17014	+	0.2144869	0.375
F-RA-1008-S-02	1500 gram	7/25/2005	11:21:32 AM	Gr Lks 6185 Eff	pCi/gram	1.26432	+	0.1979248	0.268
F-RA-1009-S-01	1500 gram	6/22/2005	9:17:38 AM	Gr Lks 6185 Eff	pCi/gram	0.8858756	+	0.2093251	0.306
F-RA-1009-S-02	1500 gram	7/11/2005	2:38:06 PM	Gr Lks 6185 Eff	pCi/gram	0.8722005	+	0.1838771	0.287
F-RA-1010-01	1185 gram	6/22/2005	10:47:33 AM	Gr Lks 6185 Eff	pCi/gram	1.142295	+	0.2004614	0.298
F-RA-1010-S-01	1500 gram	7/11/2005	2:47:29 PM	Gr Lks 6185 Eff	pCi/gram	0.8398506	+	0.1860855	0.28
F-RA-1010-S-02	1500 gram	7/25/2005	11:31:52 AM	Gr Lks 6185 Eff	pCi/gram	0.2137	+	0	0.555
F-RA-1011-01	1500 gram	6/21/2005	2:39:10 PM	Gr Lks 6185 Eff	pCi/gram	1.924076	+	0.2733895	0.389
F-RA-1011-S-01	1500 gram	6/27/2005	3:59:57 PM	Gr Lks 6185 Eff	pCi/gram	0.9005328	+	0.1849222	0.275
F-RA-1011-S-02	1500 gram	7/11/2005	3:00:30 PM	Gr Lks 6185 Eff	pCi/gram	0.9567119	+	0.2002814	0.302

Appendix K
Cabrera Laboratory Raw Results
RA FSS

Location I/D	Sample Size	Date Started	Time Started	Efficiency ID	Units	AC-228		Uncertainty	Nuclide MDA
F-RA-1011-S-03	1500 gram	7/25/2005	11:42:45 AM	Gr Lks 6185 Eff	pCi/gram	0.9148	+	0	0.678
F-RA-1012-01	1499 gram	6/21/2005	2:58:39 PM	Gr Lks 6185 Eff	pCi/gram	1.650415	+	0.2662354	0.367
F-RA-1012-S-01	1500 gram	7/11/2005	3:25:06 PM	Gr Lks 6185 Eff	pCi/gram	0.9106648	+	0.204552	0.227
F-RA-1013-01	1500 gram	6/21/2005	3:15:36 PM	Gr Lks 6185 Eff	pCi/gram	0.3804	+	0	0.613
F-RA-1013-S-01	1500 gram	7/11/2005	3:37:53 PM	Gr Lks 6185 Eff	pCi/gram	1.061161	+	0.2029373	0.264
F-RA-1013-S-02	1500 gram	7/25/2005	12:02:44 PM	Gr Lks 6185 Eff	pCi/gram	0.5044	+	0	0.508
F-RA-1014-01	1267 gram	6/21/2005	3:31:23 PM	Gr Lks 6185 Eff	pCi/gram	0.8213041	+	0.1698939	0.233
F-RA-1014-S-01	1500 gram	7/11/2005	3:51:12 PM	Gr Lks 6185 Eff	pCi/gram	1.240908	+	0.239088	0.299
F-RA-1014-S-01DUP	1500 gram	7/12/2005	10:11:58 AM	Gr Lks 6185 Eff	pCi/gram	1.163173	+	0.2133075	0.302
F-RA-1015-B-01	1498 gram	6/29/2005	2:23:44 PM	Gr Lks 6185 Eff	pCi/gram	5.304546	+	0.3560602	0.45
F-RA-1016-B-01	1215 gram	6/29/2005	2:35:10 PM	Gr Lks 6185 Eff	pCi/gram	2.118254	+	0.2914028	0.386

Appendix K
Cabrera Laboratory Raw Results
RA FSS

Location I/D	Units	AM-241		Uncertainty	Nuclide MDA	AM-243		Uncertainty	Nuclide MDA	PA-234M		Uncertainty	Nuclide MDA
F-RA-0001-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	1.624	+	0	16.5
F-RA-0002-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-5.578	+	0	14.2
F-RA-080-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-1.352	+	0	16.6
F-RA-081-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	2.823	+	0	16.2
F-RA-082-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	4.715	+	0	16.1
F-RA-082-B-01DUP	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	8.483	+	0	17
F-RA-083-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-3.447	+	0	17.8
F-RA-1000-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	3.988	+	0	20.7
F-RA-1000-S-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-6.277	+	0	15.4
F-RA-1001-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	8.719	+	0	20.4
F-RA-1001-S-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	7.349	+	0	15
F-RA-1002-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	19.28	+	0	15.9
F-RA-1002-S-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-11.15	+	0	16.9
F-RA-1003-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	6.229	+	0	11.9
F-RA-1003-S-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	6.476	+	0	16.8
F-RA-1003-S-01DUP	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-8.985	+	0	16.2
F-RA-1004-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-7.726	+	0	12.7
F-RA-1004-S-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	6.212	+	0	15.8
F-RA-1005-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-3.851	+	0	15.1
F-RA-1005-S-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	3.227	+	0	15.4
F-RA-1006-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	6.741	+	0	12.6
F-RA-1006-S-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	2.472	+	0	17.5
F-RA-1006-S-02	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-1.687	+	0	14.8
F-RA-1007-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	16.32	+	0	15.1
F-RA-1007-01DUP	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	3.024	+	0	14.8
F-RA-1007-S-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	1.664	+	0	16.6
F-RA-1007-S-01DUP	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-0.5922	+	0	17
F-RA-1007-S-02	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	1.333	+	0	17.3
F-RA-1008-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-3.111	+	0	17.8
F-RA-1008-S-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	1.332	+	0	14.8
F-RA-1008-S-02	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	1.214	+	0	16.6
F-RA-1009-S-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	3.291	+	0	17.9
F-RA-1009-S-02	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-1.751	+	0	15
F-RA-1010-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	3.453	+	0	14
F-RA-1010-S-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	6.522	+	0	14.6
F-RA-1010-S-02	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	2.162	+	0	15
F-RA-1011-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	11.66	+	0	19.5
F-RA-1011-S-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	5.076	+	0	16.8
F-RA-1011-S-02	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	1.223	+	0	13.9

Appendix K
Cabrera Laboratory Raw Results
RA FSS

Location I/D	Units	AM-241		Uncertainty	Nuclide MDA	AM-243		Uncertainty	Nuclide MDA	PA-234M		Uncertainty	Nuclide MDA
F-RA-1011-S-03	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	4.013	+	0	15.8
F-RA-1012-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-0.3918	+	0	16.1
F-RA-1012-S-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	0.4236	+	0	14.6
F-RA-1013-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	1.595	+	0	13.9
F-RA-1013-S-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-3.961	+	0	15.4
F-RA-1013-S-02	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	4.188	+	0	14.8
F-RA-1014-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-2.281	+	0	13.8
F-RA-1014-S-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	10.7	+	0	15.6
F-RA-1014-S-01DUP	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	3.737	+	0	16.6
F-RA-1015-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	2.794	+	0	18
F-RA-1016-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	18.89	+	0	22.2

Appendix K
Cabrera Laboratory Raw Results
RA FSS

Location I/D	Units	TH-231		Uncertainty	Nuclide MDA	TH-234		Uncertainty	Nuclide MDA	U-235		Uncertainty	Nuclide MDA
F-RA-0001-B-01	pCi/gram	ND	+	ND	NR	0.8882	+	0	2.58	0.6058	+	0	0.882
F-RA-0002-B-01	pCi/gram	ND	+	ND	NR	1.295	+	0	1.98	0.2301	+	0	0.672
F-RA-080-B-01	pCi/gram	ND	+	ND	NR	0.7991	+	0	2.79	0.08132	+	0	0.917
F-RA-081-B-01	pCi/gram	ND	+	ND	NR	-1.052	+	0	2.15	-0.0608	+	0	0.719
F-RA-082-B-01	pCi/gram	ND	+	ND	NR	0.429	+	0	2.25	0.1802	+	0	0.754
F-RA-082-B-01DUP	pCi/gram	ND	+	ND	NR	2.099	+	0	2.28	0.6185	+	0	0.814
F-RA-083-B-01	pCi/gram	ND	+	ND	NR	-0.4585	+	0	2.24	0.01571	+	0	0.756
F-RA-1000-01	pCi/gram	ND	+	ND	NR	-1.071	+	0	2.37	0.4667	+	0	0.874
F-RA-1000-S-01	pCi/gram	ND	+	ND	NR	-0.07767	+	0	2.16	-0.2242	+	0	0.708
F-RA-1001-01	pCi/gram	ND	+	ND	NR	-0.3277	+	0	2.8	0.6964	+	0	0.97
F-RA-1001-S-01	pCi/gram	ND	+	ND	NR	1.054937	+	0.9535903	1.43	-0.1422	+	0	0.723
F-RA-1002-01	pCi/gram	ND	+	ND	NR	0.1033	+	0	1.88	0.3049	+	0	0.664
F-RA-1002-S-01	pCi/gram	ND	+	ND	NR	1.109	+	0	2.29	0.1605	+	0	0.734
F-RA-1003-01	pCi/gram	ND	+	ND	NR	1.593	+	0	1.92	-0.2108	+	0	0.63
F-RA-1003-S-01	pCi/gram	ND	+	ND	NR	1.119524	+	1.009067	1.51	-0.02278	+	0	0.788
F-RA-1003-S-01DUP	pCi/gram	ND	+	ND	NR	1.395688	+	1.307766	1.99	-0.4828	+	0	0.771
F-RA-1004-01	pCi/gram	ND	+	ND	NR	1.273	+	0	2.01	0.5424	+	0	0.712
F-RA-1004-S-01	pCi/gram	ND	+	ND	NR	2.055	+	0	2.16	0.2589	+	0	0.723
F-RA-1005-01	pCi/gram	ND	+	ND	NR	1.343	+	0	1.94	-0.05851	+	0	0.641
F-RA-1005-S-01	pCi/gram	ND	+	ND	NR	1.843	+	0	2.14	0.3398	+	0	0.707
F-RA-1006-01	pCi/gram	ND	+	ND	NR	0.752	+	0	2.08	-0.1199	+	0	0.669
F-RA-1006-S-01	pCi/gram	ND	+	ND	NR	0.6172	+	0	2.26	-0.2692	+	0	0.756
F-RA-1006-S-02	pCi/gram	ND	+	ND	NR	1.841	+	0	2.15	0.6427	+	0	0.762
F-RA-1007-01	pCi/gram	ND	+	ND	NR	1.325	+	0	2.22	0.06881	+	0	0.752
F-RA-1007-01DUP	pCi/gram	ND	+	ND	NR	3.025	+	0	2.9	0.7926	+	0	1
F-RA-1007-S-01	pCi/gram	ND	+	ND	NR	1.08	+	0	2.29	0.8299	+	0	0.813
F-RA-1007-S-01DUP	pCi/gram	ND	+	ND	NR	1.127	+	0	2.41	-0.2425	+	0	0.77
F-RA-1007-S-02	pCi/gram	ND	+	ND	NR	1.642	+	0	2.09	0.2334	+	0	0.694
F-RA-1008-01	pCi/gram	ND	+	ND	NR	1.761	+	0	2.53	0.2765	+	0	0.872
F-RA-1008-S-01	pCi/gram	ND	+	ND	NR	0.9623	+	0	2.31	0.5027	+	0	0.762
F-RA-1008-S-02	pCi/gram	ND	+	ND	NR	-0.6128	+	0	2.31	-0.07419	+	0	0.776
F-RA-1009-S-01	pCi/gram	ND	+	ND	NR	0.3672	+	0	2.51	0.04789	+	0	0.911
F-RA-1009-S-02	pCi/gram	ND	+	ND	NR	0.9512	+	0	2.05	0.39	+	0	0.711
F-RA-1010-01	pCi/gram	ND	+	ND	NR	1.753	+	0	2.06	-0.0004586	+	0	0.651
F-RA-1010-S-01	pCi/gram	ND	+	ND	NR	0.7995	+	0	1.94	-0.362	+	0	0.633
F-RA-1010-S-02	pCi/gram	ND	+	ND	NR	-0.2263	+	0	1.7	0.0533	+	0	0.559
F-RA-1011-01	pCi/gram	ND	+	ND	NR	-2.009	+	0	2.68	0.163	+	0	0.969
F-RA-1011-S-01	pCi/gram	ND	+	ND	NR	0.2792	+	0	1.96	-0.1802	+	0	0.743
F-RA-1011-S-02	pCi/gram	ND	+	ND	NR	1.013	+	0	2.12	-0.07026	+	0	0.678

Appendix K
Cabrera Laboratory Raw Results
RA FSS

Location I/D	Units	TH-231		Uncertainty	Nuclide MDA	TH-234		Uncertainty	Nuclide MDA	U-235		Uncertainty	Nuclide MDA
F-RA-1011-S-03	pCi/gram	ND	+	ND	NR	-0.2204	+	0	1.65	0.1367	+	0	0.592
F-RA-1012-01	pCi/gram	ND	+	ND	NR	0.983	+	0	2.66	-0.07229	+	0	0.827
F-RA-1012-S-01	pCi/gram	ND	+	ND	NR	0.5242	+	0	1.9	0.4081	+	0	0.714
F-RA-1013-01	pCi/gram	ND	+	ND	NR	1.739	+	0	2	-0.07143	+	0	0.598
F-RA-1013-S-01	pCi/gram	ND	+	ND	NR	1.168	+	0	2.11	0.1134	+	0	0.724
F-RA-1013-S-02	pCi/gram	ND	+	ND	NR	0.398	+	0	1.57	0.07115	+	0	0.561
F-RA-1014-01	pCi/gram	ND	+	ND	NR	0.7858	+	0	1.88	-0.3182	+	0	0.553
F-RA-1014-S-01	pCi/gram	ND	+	ND	NR	1.466	+	0	2.17	0.2301	+	0	0.762
F-RA-1014-S-01DUP	pCi/gram	ND	+	ND	NR	0.8689	+	0	2.22	0.3441	+	0	0.734
F-RA-1015-B-01	pCi/gram	ND	+	ND	NR	1.818	+	0	3.39	0.5692	+	0	1.17
F-RA-1016-B-01	pCi/gram	ND	+	ND	NR	0.9215	+	0	2.72	0.06531	+	0	0.887

Appendix K
Cabrera Laboratory Raw Results
CTA FSS

Location I/D	Sample Size	Date Started	Time Started	Efficiency ID	Units	AC-228		Uncertainty	Nuclide MDA
F-CT-054-B-01	1500 gram	7/27/2005	10:11:47 AM	Gr Lks 6185 Eff	pCi/gram	1.903632	+	0.2377991	0.271
F-CT-055-B-01	1500 gram	7/27/2005	10:21:07 AM	Gr Lks 6185 Eff	pCi/gram	4.276516	+	0.3549274	0.482
F-CT-056-B-01	1500 gram	7/27/2005	1:34:53 PM	Gr Lks 6185 Eff	pCi/gram	13.70488	+	0.5948944	0.685
F-CT-057-B-01	1500 gram	7/27/2005	1:44:32 PM	Gr Lks 6185 Eff	pCi/gram	6.379293	+	0.3958113	0.424
F-CT-058-B-01	1500 gram	7/27/2005	1:53:41 PM	Gr Lks 6185 Eff	pCi/gram	0.6846694	+	0.1620079	0.266
F-CT-059-B-01	1500 gram	7/27/2005	2:02:29 PM	Gr Lks 6185 Eff	pCi/gram	0.9265131	+	0.1802843	0.224
F-CT-060-B-01	1278 gram	7/29/2005	8:36:02 AM	Gr Lks 6185 Eff	pCi/gram	3.805506	+	0.3654639	0.42
F-CT-061-B-01	1500 gram	7/29/2005	8:47:05 AM	Gr Lks 6185 Eff	pCi/gram	0.6889889	+	0.1874766	0.214
F-CT-062-B-01	1498 gram	7/29/2005	8:55:30 AM	Gr Lks 6185 Eff	pCi/gram	1.624195	+	0.2433815	0.363
F-CT-064-B-01	1297 gram	7/29/2005	11:59:52 AM	Gr Lks 6185 Eff	pCi/gram	5.135367	+	0.3689442	0.37
F-CT-065-B-01	1189 gram	7/29/2005	1:21:00 PM	Gr Lks 6185 Eff	pCi/gram	1.165503	+	0.255386	0.419
F-CT-066-B-01	1367 gram	7/29/2005	1:57:17 PM	Gr Lks 6185 Eff	pCi/gram	0.9970928	+	0.2060515	0.34
F-CT-067-B-01	1252 gram	8/2/2005	11:55:14 AM	Gr Lks 6185 Eff	pCi/gram	0.9752824	+	0.2317831	0.277
F-CT-1015-01	1234 gram	7/13/2005	2:34:06 PM	Gr Lks 6185 Eff	pCi/gram	0.814	+	0	0.643
F-CT-1016-01	1500 gram	7/13/2005	2:45:36 PM	Gr Lks 6185 Eff	pCi/gram	1.027429	+	0.1877474	0.27
F-CT-1017-01	1500 gram	7/13/2005	2:54:16 PM	Gr Lks 6185 Eff	pCi/gram	2.009225	+	0.2600414	0.326
F-CT-1017-01DUP	1500 gram	7/15/2005	10:42:26 AM	Gr Lks 6185 Eff	pCi/gram	2.314033	+	0.2652711	0.313
F-CT-1017-02	1500 gram	7/20/2005	10:45:52 AM	Gr Lks 6185 Eff	pCi/gram	2.297752	+	0.2481132	0.33
F-CT-1017-03	1377 gram	7/25/2005	1:37:38 PM	Gr Lks 6185 Eff	pCi/gram	2.584692	+	0.2996318	0.38
F-CT-1017-04	1500 gram	7/27/2005	1:22:11 PM	Gr Lks 6185 Eff	pCi/gram	1.430474	+	0.2220542	0.302
F-CT-1017-05	1477 gram	7/28/2005	2:48:25 PM	Gr Lks 6185 Eff	pCi/gram	1.382921	+	0.237178	0.394
F-CT-1018-01	1331 gram	7/13/2005	3:30:40 PM	Gr Lks 6185 Eff	pCi/gram	0.7895345	+	0.1478482	0.24
F-CT-1019-01	1340 gram	7/13/2005	3:46:19 PM	Gr Lks 6185 Eff	pCi/gram	1.207354	+	0.2057144	0.278
F-CT-1020-01	1347 gram	7/13/2005	3:55:31 PM	Gr Lks 6185 Eff	pCi/gram	2.161027	+	0.2507491	0.341
F-CT-1020-01DUP	1347 gram	7/15/2005	10:58:35 AM	Gr Lks 6185 Eff	pCi/gram	2.281589	+	0.2504796	0.391
F-CT-1020-02	1500 gram	7/20/2005	10:57:10 AM	Gr Lks 6185 Eff	pCi/gram	0.3477	+	0	0.559
F-CT-1021-01	1157 gram	7/14/2005	8:11:55 AM	Gr Lks 6185 Eff	pCi/gram	1.928743	+	0.2960097	0.493
F-CT-1021-02	1500 gram	7/20/2005	11:09:33 AM	Gr Lks 6185 Eff	pCi/gram	1.066189	+	0.1949374	0.272
F-CT-1021-03	1278 gram	7/28/2005	3:02:58 PM	Gr Lks 6185 Eff	pCi/gram	0.8928115	+	0.2079872	0.354
F-CT-1022-01	1500 gram	7/14/2005	8:21:36 AM	Gr Lks 6185 Eff	pCi/gram	1.115925	+	0.1901282	0.338
F-CT-1022-02	1200 gram	7/28/2005	4:09:21 PM	Gr Lks 6185 Eff	pCi/gram	1.123051	+	0.2604945	0.414
F-CT-1023-01	1500 gram	7/14/2005	8:33:43 AM	Gr Lks 6185 Eff	pCi/gram	0.4873862	+	0.1443984	0.166
F-CT-1024-01	1500 gram	7/14/2005	8:44:40 AM	Gr Lks 6185 Eff	pCi/gram	0.9251	+	0	0.72
F-CT-1025-01	1500 gram	7/14/2005	9:57:08 AM	Gr Lks 6185 Eff	pCi/gram	1.276629	+	0.2229134	0.329
F-CT-1026-01	1500 gram	7/14/2005	10:09:36 AM	Gr Lks 6185 Eff	pCi/gram	0.8005227	+	0.1732804	0.244
F-CT-1027-01	1155 gram	7/14/2005	10:20:42 AM	Gr Lks 6185 Eff	pCi/gram	0.8433798	+	0.1968603	0.255
F-CT-1028-01	1500 gram	7/14/2005	10:30:58 AM	Gr Lks 6185 Eff	pCi/gram	0.8320572	+	0.2089406	0.335
F-CT-1029-01	1500 gram	7/14/2005	10:46:24 AM	Gr Lks 6185 Eff	pCi/gram	0.9370679	+	0.2183518	0.31
F-CT-1030-01	1434 gram	7/14/2005	11:00:10 AM	Gr Lks 6185 Eff	pCi/gram	2.836859	+	0.2779174	0.412
F-CT-1030-01DUP	1434 gram	7/19/2005	8:25:04 AM	Gr Lks 6185 Eff	pCi/gram	3.035366	+	0.2923825	0.395
F-CT-1030-02	1500 gram	7/20/2005	11:21:33 AM	Gr Lks 6185 Eff	pCi/gram	0.9160348	+	0.1838573	0.276

Appendix K
Cabrera Laboratory Raw Results
CTA FSS

Location I/D	Units	AM-241		Uncertainty	Nuclide MDA	AM-243		Uncertainty	Nuclide MDA	PA-234M		Uncertainty	Nuclide MDA
F-CT-054-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	6.288	+	0	15.2
F-CT-055-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	12.47	+	0	19.3
F-CT-056-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	25.69	+	0	25.7
F-CT-057-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-3.571	+	0	16.4
F-CT-058-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	12.02	+	0	15.6
F-CT-059-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-5.857	+	0	14.2
F-CT-060-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	6.298	+	0	19
F-CT-061-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	2.897	+	0	15.2
F-CT-062-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	4.614	+	0	17.3
F-CT-064-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	12.61	+	0	21
F-CT-065-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	0.3859	+	0	17
F-CT-066-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-0.2082	+	0	16.9
F-CT-067-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-9.847	+	0	17.5
F-CT-1015-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-6.047	+	0	13.2
F-CT-1016-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-0.9777	+	0	12
F-CT-1017-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-0.5395	+	0	16
F-CT-1017-01DUP	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	4.228	+	0	16.6
F-CT-1017-02	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-9.891	+	0	15.4
F-CT-1017-03	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	1.192	+	0	14.2
F-CT-1017-04	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	6.046	+	0	14.4
F-CT-1017-05	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	6.15	+	0	16.9
F-CT-1018-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	2.202	+	0	10.3
F-CT-1019-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	20.16	+	0	19.6
F-CT-1020-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	10.58	+	0	16
F-CT-1020-01DUP	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-5.224	+	0	14.5
F-CT-1020-02	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-0.3778	+	0	14
F-CT-1021-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-10.41	+	0	18.1
F-CT-1021-02	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	0.3047	+	0	15.2
F-CT-1021-03	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	3.448	+	0	18.8
F-CT-1022-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	2.991	+	0	15.4
F-CT-1022-02	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-7.678	+	0	15.3
F-CT-1023-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	1.386	+	0	8.9
F-CT-1024-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-1.162	+	0	14
F-CT-1025-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	10.35	+	0	17.3
F-CT-1026-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-6.555	+	0	11.7
F-CT-1027-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	5.842	+	0	16.6
F-CT-1028-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	1.759	+	0	16.2
F-CT-1029-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	4.902	+	0	15.8
F-CT-1030-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-3.87	+	0	17.6
F-CT-1030-01DUP	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-3.998	+	0	16.4
F-CT-1030-02	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	1.376	+	0	17

Appendix K
Cabrera Laboratory Raw Results
CTA FSS

Location I/D	Units	TH-231		Uncertainty	Nuclide MDA	TH-234		Uncertainty	Nuclide MDA	U-235		Uncertainty	Nuclide MDA
F-CT-054-B-01	pCi/gram	ND	+	ND	NR	1.962	+	0	2.39	0.4439	+	0	0.832
F-CT-055-B-01	pCi/gram	ND	+	ND	NR	3.614	+	0	3.27	-0.2158	+	0	1.1
F-CT-056-B-01	pCi/gram	ND	+	ND	NR	1.941	+	0	5.19	0.3953	+	0	1.78
F-CT-057-B-01	pCi/gram	ND	+	ND	NR	1.994	+	0	3.58	-0.2142	+	0	1.23
F-CT-058-B-01	pCi/gram	ND	+	ND	NR	0.979	+	0	1.86	-0.4047	+	0	0.626
F-CT-059-B-01	pCi/gram	ND	+	ND	NR	0.7275	+	0	1.94	-0.05497	+	0	0.66
F-CT-060-B-01	pCi/gram	ND	+	ND	NR	2.89	+	0	3.27	-0.7964	+	0	1.1
F-CT-061-B-01	pCi/gram	ND	+	ND	NR	-0.1674	+	0	1.73	-0.2207	+	0	0.58
F-CT-062-B-01	pCi/gram	ND	+	ND	NR	1.552	+	0	2.39	0.3619	+	0	0.809
F-CT-064-B-01	pCi/gram	ND	+	ND	NR	1.114	+	0	3.65	-0.5803	+	0	1.19
F-CT-065-B-01	pCi/gram	ND	+	ND	NR	0.2441	+	0	2.56	0.617	+	0	0.841
F-CT-066-B-01	pCi/gram	ND	+	ND	NR	1.476	+	0	2.3	0.5822	+	0	0.694
F-CT-067-B-01	pCi/gram	ND	+	ND	NR	0.4932	+	0	2.39	0.2033	+	0	0.779
F-CT-1015-01	pCi/gram	ND	+	ND	NR	0.5989713	+	0.7376648	1.18	0.374	+	0	0.582
F-CT-1016-01	pCi/gram	ND	+	ND	NR	1.871	+	0	1.94	0.0889	+	0	0.646
F-CT-1017-01	pCi/gram	ND	+	ND	NR	-0.4479	+	0	2.32	-0.2385	+	0	0.779
F-CT-1017-01DUP	pCi/gram	ND	+	ND	NR	0.0336	+	0	2.5	-0.6041	+	0	0.81
F-CT-1017-02	pCi/gram	ND	+	ND	NR	1.482	+	0	2.51	-0.001196	+	0	0.833
F-CT-1017-03	pCi/gram	ND	+	ND	NR	-0.2099	+	0	2.61	-0.09245	+	0	0.927
F-CT-1017-04	pCi/gram	ND	+	ND	NR	2.22	+	0	2.23	0.4597	+	0	0.76
F-CT-1017-05	pCi/gram	ND	+	ND	NR	2.386	+	0	2.44	-0.338	+	0	0.764
F-CT-1018-01	pCi/gram	ND	+	ND	NR	-0.8216	+	0	1.39	0.2821	+	0	0.504
F-CT-1019-01	pCi/gram	ND	+	ND	NR	1.425	+	0	2.31	-0.4168	+	0	0.712
F-CT-1020-01	pCi/gram	ND	+	ND	NR	-0.5155	+	0	2.61	-0.04843	+	0	0.838
F-CT-1020-01DUP	pCi/gram	ND	+	ND	NR	3.3	+	0	2.51	-0.05339	+	0	0.851
F-CT-1020-02	pCi/gram	ND	+	ND	NR	0.1256	+	0	1.5	0.2802	+	0	0.554
F-CT-1021-01	pCi/gram	ND	+	ND	NR	3	+	0	2.97	0.3039	+	0	0.975
F-CT-1021-02	pCi/gram	ND	+	ND	NR	0.9616	+	0	2.12	-0.1078	+	0	0.73
F-CT-1021-03	pCi/gram	ND	+	ND	NR	0.1066	+	0	2.39	0.1176	+	0	0.804
F-CT-1022-01	pCi/gram	ND	+	ND	NR	0.0718	+	0	2.1	0.3412	+	0	0.717
F-CT-1022-02	pCi/gram	ND	+	ND	NR	-0.00804	+	0	2.35	0.2744	+	0	0.821
F-CT-1023-01	pCi/gram	ND	+	ND	NR	0.8035	+	0	1.47	-0.003426	+	0	0.509
F-CT-1024-01	pCi/gram	ND	+	ND	NR	-0.8025	+	0	1.93	-0.00451	+	0	0.691
F-CT-1025-01	pCi/gram	ND	+	ND	NR	0.7721	+	0	2.17	0.3947	+	0	0.784
F-CT-1026-01	pCi/gram	ND	+	ND	NR	1.331	+	0	1.58	0.05964	+	0	0.558
F-CT-1027-01	pCi/gram	ND	+	ND	NR	0.3668	+	0	1.98	0.1191	+	0	0.724
F-CT-1028-01	pCi/gram	ND	+	ND	NR	2.006	+	0	2.15	0.09561	+	0	0.721
F-CT-1029-01	pCi/gram	ND	+	ND	NR	0.9604	+	0	2.08	0.1229	+	0	0.679
F-CT-1030-01	pCi/gram	ND	+	ND	NR	-0.648	+	0	2.85	-0.1698	+	0	0.973
F-CT-1030-01DUP	pCi/gram	ND	+	ND	NR	1.326	+	0	2.96	0.2487	+	0	1.02
F-CT-1030-02	pCi/gram	ND	+	ND	NR	-0.2795	+	0	2.02	0.2506	+	0	0.706

Appendix K
Cabrera Laboratory Raw Results
NFS Remediation Support Samples

Location I/D	Sample Size	Date Started	Time Started	Efficiency ID	Units	AC-228		Uncertainty	Nuclide MDA	AM-241		Uncertainty	Nuclide MDA
R-N1-87-B-01	1068 gram	6/22/2005	1:22:27 PM	Gr Lks 6185 Eff	pCi/gram	0.6332	+	0	0.832	ND	+	ND	NR
R-N1-88-B-01	1188 gram	6/22/2005	1:38:52 PM	Gr Lks 6185 Eff	pCi/gram	0.6755444	+	0.2155448	0.318	ND	+	ND	NR
R-N1-89-B-01	1377 gram	6/22/2005	1:49:37 PM	Gr Lks 6185 Eff	pCi/gram	2.554458	+	0.3056225	0.358	ND	+	ND	NR
R-N1-90-B-01	1293 gram	6/22/2005	1:58:23 PM	Gr Lks 6185 Eff	pCi/gram	0.7795418	+	0.1827424	0.268	ND	+	ND	NR
R-N1-91-B-01	1141 gram	6/22/2005	2:09:51 PM	Gr Lks 6185 Eff	pCi/gram	0.9067109	+	0.2091554	0.252	ND	+	ND	NR
NRC-1	1113 gram	8/1/2005	10:35:09 AM	Gr Lks 6185 Eff	pCi/gram	1.151555	+	0.2756077	0.4	ND	+	ND	NR
NRC-2	1500 gram	8/1/2005	11:03:15 AM	Gr Lks 6185 Eff	pCi/gram	0.9267464	+	0.215625	0.282	ND	+	ND	NR

Appendix K
Cabrera Laboratory Raw Results
NFS Remediation Support Samples

Location I/D	Units	AM-243		Uncertainty	Nuclide MDA	PA-234M		Uncertainty	Nuclide MDA	TH-231		Uncertainty	Nuclide MDA
R-N1-87-B-01	pCi/gram	ND	±	ND	NR	3.051	±	0	17.6	ND	±	ND	NR
R-N1-88-B-01	pCi/gram	ND	±	ND	NR	-2.672	±	0	16.7	ND	±	ND	NR
R-N1-89-B-01	pCi/gram	ND	±	ND	NR	-2.844	±	0	13.9	ND	±	ND	NR
R-N1-90-B-01	pCi/gram	ND	±	ND	NR	-12.18	±	0	13.9	ND	±	ND	NR
R-N1-91-B-01	pCi/gram	ND	±	ND	NR	-6.675	±	0	16.5	ND	±	ND	NR
NRC-1	pCi/gram	ND	±	ND	NR	-7.711	±	0	21.1	ND	±	ND	NR
NRC-2	pCi/gram	ND	±	ND	NR	-5.411	±	0	14.8	ND	±	ND	NR

Appendix K
Cabrera Laboratory Raw Results
NFS Remediation Support Samples

Location I/D	Units	TH-234		Uncertainty	Nuclide MDA	U-235		Uncertainty	Nuclide MDA
R-N1-87-B-01	pCi/gram	2.056	+	0	2.46	0.4703	+	0	0.791
R-N1-88-B-01	pCi/gram	0.09856	+	0	2.03	0.5301	+	0	0.713
R-N1-89-B-01	pCi/gram	2.001	+	0	2.71	-0.001468	+	0	0.888
R-N1-90-B-01	pCi/gram	1.171	+	0	2.12	0.05587	+	0	0.738
R-N1-91-B-01	pCi/gram	-0.8312	+	0	2.21	0.07689	+	0	0.74
NRC-1	pCi/gram	1.114519	+	0.9711884	1.43	0.02726	+	0	0.837
NRC-2	pCi/gram	0.6933	+	0	2.06	-0.1008	+	0	0.691

Appendix K
Cabrera Laboratory Raw Results
RA Remediation Support Samples

Location I/D	Sample Size	Date Started	Time Started	Efficiency ID	Units	AC-228		Uncertainty	Nuclide MDA
R-RA-069-B-01	1500 gram	6/23/2005	12:52:47 PM	Gr Lks 6185 Eff	pCi/gram	3.756993	+	0.3028738	0.336
R-RA-070-B-01	1500 gram	6/23/2005	1:03:32 PM	Gr Lks 6185 Eff	pCi/gram	3.284472	+	0.3067678	0.361
R-RA-071-B-01	1500 gram	6/23/2005	1:12:19 PM	Gr Lks 6185 Eff	pCi/gram	1.511016	±	0.2383085	0.279
R-RA-072-B-01	1500 gram	6/23/2005	1:24:12 PM	Gr Lks 6185 Eff	pCi/gram	1.304658	+	0.2114523	0.305
R-RA-073-B-01	1426 gram	6/23/2005	1:33:55 PM	Gr Lks 6185 Eff	pCi/gram	0.7834465	+	0.1972833	0.311
R-RA-074-B-01	1500 gram	7/25/2005	9:59:51 AM	Gr Lks 6185 Eff	pCi/gram	0.6318	+	0	0.55
R-RA-075-B-01	1500 gram	7/25/2005	10:24:47 AM	Gr Lks 6185 Eff	pCi/gram	1.114733	+	0.2111982	0.292
R-RA-076-B-01	1500 gram	7/25/2005	10:33:30 AM	Gr Lks 6185 Eff	pCi/gram	0.8531424	±	0.183145	0.265
R-RA-077-B-01	1500 gram	7/25/2005	10:48:56 AM	Gr Lks 6185 Eff	pCi/gram	0.531609	+	0.168992	0.246
R-RA-078-B-01	1500 gram	7/25/2005	11:02:51 AM	Gr Lks 6185 Eff	pCi/gram	0.6894	+	0	0.602
R-RA-079-B-01	1500 gram	7/25/2005	11:11:57 AM	Gr Lks 6185 Eff	pCi/gram	8.744064	+	0.4702074	0.598
R-RA-079-B-01DUP	1500 gram	7/27/2005	10:36:35 AM	Gr Lks 6185 Eff	pCi/gram	8.800162	±	0.4631369	0.543
R-RA-1009-01	1377 gram	6/21/2005	1:43:58 PM	Gr Lks 6185 Eff	pCi/gram	2.030981	+	0.3170878	0.462
R-RA-1009-01DUP	1377 gram	6/23/2005	11:44:34 AM	Gr Lks 6185 Eff	pCi/gram	2.494934	+	0.3125635	0.429

Appendix K
Cabrera Laboratory Raw Results
RA Remediation Support Samples

Location I/D	Units	AM-241		Uncertainty	Nuclide MDA	AM-243		Uncertainty	Nuclide MDA	PA-234M		Uncertainty	Nuclide MDA
R-RA-069-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	1.308	+	0	14
R-RA-070-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-9.923	+	0	16.8
R-RA-071-B-01	pCi/gram	ND	±	ND	NR	ND	±	ND	NR	5.564	±	0	17
R-RA-072-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-5.972	+	0	15.2
R-RA-073-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	8.903	+	0	18.4
R-RA-074-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	4.815	+	0	13
R-RA-075-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-8.772	+	0	14.4
R-RA-076-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	3.219	+	0	14.8
R-RA-077-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	1.634	+	0	14.4
R-RA-078-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	3.283	+	0	12.3
R-RA-079-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-1.762	+	0	20.7
R-RA-079-B-01DUP	pCi/gram	ND	±	ND	NR	ND	±	ND	NR	6.164	±	0	20.2
R-RA-1009-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	4.382	+	0	20.6
R-RA-1009-01DUP	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-2.769	+	0	17.7

Appendix K
Cabrera Laboratory Raw Results
RA Remediation Support Samples

Location I/D	Units	TH-231		Uncertainty	Nuclide MDA	TH-234		Uncertainty	Nuclide MDA	U-235		Uncertainty	Nuclide MDA
R-RA-069-B-01	pCi/gram	ND	+	ND	NR	1.727	+	0	2.98	-0.04409	+	0	0.99
R-RA-070-B-01	pCi/gram	ND	+	ND	NR	0.7976	+	0	2.89	0.6253	+	0	0.976
R-RA-071-B-01	pCi/gram	ND	±	ND	NR	0.4429	±	0	2.43	0.211	±	0	0.8
R-RA-072-B-01	pCi/gram	ND	+	ND	NR	0.7855862	+	0.9443603	1.5	0.04144	+	0	0.773
R-RA-073-B-01	pCi/gram	ND	+	ND	NR	-0.8518	+	0	2.19	-0.09553	+	0	0.747
R-RA-074-B-01	pCi/gram	ND	+	ND	NR	1.476	+	0	1.54	0.1799	+	0	0.537
R-RA-075-B-01	pCi/gram	ND	+	ND	NR	0.7252	±	0	2.13	0.2908	±	0	0.791
R-RA-076-B-01	pCi/gram	ND	+	ND	NR	0.3549	+	0	2.04	0.294	+	0	0.703
R-RA-077-B-01	pCi/gram	ND	+	ND	NR	-0.06187	+	0	1.79	0.4365	+	0	0.623
R-RA-078-B-01	pCi/gram	ND	+	ND	NR	0.7901936	+	0.6459437	0.921	0.1623	+	0	0.59
R-RA-079-B-01	pCi/gram	ND	+	ND	NR	3.636177	+	2.883591	4.23	1.136	+	0	1.52
R-RA-079-B-01DUP	pCi/gram	ND	±	ND	NR	3.632	±	0	4.56	1.458	±	0	1.58
R-RA-1009-01	pCi/gram	ND	+	ND	NR	1.57	+	0	3.3	0.1832	+	0	1.08
R-RA-1009-01DUP	pCi/gram	ND	+	ND	NR	0.5102	+	0	3.03	0.09633	+	0	1.03

Appendix K
Cabrera Laboratory Raw Results
CTA Remediation Support Samples

Location I/D	Sample Size	Date Started	Time Started	Efficiency ID	Units	AC-228		Uncertainty	Nuclide MDA
R-CT-001-B-01	1500 gram	6/24/2005	1:47:40 PM	Gr Lks 6185 Eff	pCi/gram	1.555782	+	0.2199846	0.263
R-CT-002-B-01	1500 gram	6/24/2005	2:09:41 PM	Gr Lks 6185 Eff	pCi/gram	1.727575	+	0.2348423	0.283
R-CT-003-B-01	1500 gram	6/24/2005	2:22:12 PM	Gr Lks 6185 Eff	pCi/gram	2.127018	+	0.242085	0.279
R-CT-003-B-01DUP	1500 gram	6/27/2005	2:11:17 PM	Gr Lks 6185 Eff	pCi/gram	2.11934	+	0.2273345	0.309
R-CT-004-B-01	1500 gram	6/24/2005	2:34:07 PM	Gr Lks 6185 Eff	pCi/gram	1.413248	+	0.2029401	0.327
R-CT-005-B-01	1500 gram	6/24/2005	3:07:13 PM	Gr Lks 6185 Eff	pCi/gram	1.418304	+	0.2092467	0.334
R-CT-006-B-01	1500 gram	6/24/2005	3:27:01 PM	Gr Lks 6185 Eff	pCi/gram	1.400083	+	0.2505981	0.308
R-CT-007-B-01	1488 gram	6/27/2005	9:38:41 AM	Gr Lks 6185 Eff	pCi/gram	1.576509	+	0.2304694	0.327
R-CT-008-B-01	1500 gram	6/27/2005	9:50:47 AM	Gr Lks 6185 Eff	pCi/gram	1.690341	+	0.210211	0.301
R-CT-009-B-01	1500 gram	6/27/2005	10:19:28 AM	Gr Lks 6185 Eff	pCi/gram	1.370151	+	0.209628	0.312
R-CT-010-B-01	1355 gram	6/28/2005	9:46:19 AM	Gr Lks 6185 Eff	pCi/gram	1.668139	+	0.2463592	0.365
R-CT-011-B-01	1500 gram	6/28/2005	10:11:29 AM	Gr Lks 6185 Eff	pCi/gram	1.220102	+	0.2609864	0.352
R-CT-012-B-01	1500 gram	6/28/2005	10:23:03 AM	Gr Lks 6185 Eff	pCi/gram	0.5371	+	0	0.555
R-CT-013-B-01	1500 gram	6/28/2005	10:31:55 AM	Gr Lks 6185 Eff	pCi/gram	2.704855	+	0.2896091	0.424
R-CT-014-B-01	1391 gram	6/28/2005	10:42:40 AM	Gr Lks 6185 Eff	pCi/gram	2.876435	+	0.3082847	0.386
R-CT-015-B-01	1500 gram	6/28/2005	10:58:16 AM	Gr Lks 6185 Eff	pCi/gram	1.125788	+	0.2084644	0.329
R-CT-016-B-01	1332 gram	6/28/2005	11:23:47 AM	Gr Lks 6185 Eff	pCi/gram	6.215489	+	0.4178827	0.557
R-CT-017-B-01	1309 gram	6/28/2005	12:31:46 PM	Gr Lks 6185 Eff	pCi/gram	1.785423	+	0.2701476	0.423
R-CT-018-B-01	1260 gram	6/28/2005	12:47:49 PM	Gr Lks 6185 Eff	pCi/gram	1.422269	+	0.2496992	0.429
R-CT-019-B-01	1334 gram	6/28/2005	1:00:00 PM	Gr Lks 6185 Eff	pCi/gram	1.706771	+	0.2678463	0.373
R-CT-020-B-01	1366 gram	6/28/2005	1:16:11 PM	Gr Lks 6185 Eff	pCi/gram	3.486635	+	0.3128601	0.415
R-CT-021-B-01	1500 gram	6/28/2005	1:43:49 PM	Gr Lks 6185 Eff	pCi/gram	7.61331	+	0.4255226	0.484
R-CT-021-B-01DUP	1500 gram	6/29/2005	1:42:04 PM	Gr Lks 6185 Eff	pCi/gram	7.67879	+	0.4354842	0.495
R-CT-022-B-01	1500 gram	6/28/2005	1:56:06 PM	Gr Lks 6185 Eff	pCi/gram	11.15721	+	0.5157509	0.569
R-CT-022-B-01DUP	1500 gram	6/29/2005	1:54:32 PM	Gr Lks 6185 Eff	pCi/gram	11.45458	+	0.5277684	0.484
R-CT-023-B-01	1290 gram	6/28/2005	2:08:26 PM	Gr Lks 6185 Eff	pCi/gram	1.711429	+	0.2825694	0.317
R-CT-024-B-01	1500 gram	6/28/2005	2:19:54 PM	Gr Lks 6185 Eff	pCi/gram	1.381131	+	0.2313476	0.326
R-CT-025-B-01	1500 gram	6/29/2005	9:15:51 AM	Gr Lks 6185 Eff	pCi/gram	1.691461	+	0.241728	0.281
R-CT-026-B-01	1500 gram	6/29/2005	9:29:04 AM	Gr Lks 6185 Eff	pCi/gram	5.036338	+	0.3350016	0.407
R-CT-027-B-01	1500 gram	6/29/2005	9:37:35 AM	Gr Lks 6185 Eff	pCi/gram	2.756079	+	0.268763	0.35
R-CT-028-B-01	1241 gram	6/29/2005	9:49:35 AM	Gr Lks 6185 Eff	pCi/gram	1.543301	+	0.2568077	0.351
R-CT-029-B-01	1500 gram	6/29/2005	9:59:52 AM	Gr Lks 6185 Eff	pCi/gram	7.840295	+	0.440852	0.478
R-CT-030-B-01	1500 gram	6/29/2005	10:10:25 AM	Gr Lks 6185 Eff	pCi/gram	0.6444793	+	0.1777816	0.236
R-CT-031-B-01	1394 gram	6/29/2005	10:22:05 AM	Gr Lks 6185 Eff	pCi/gram	0.9462465	+	0.1966152	0.291
R-CT-032-B-01	1390 gram	6/29/2005	10:32:25 AM	Gr Lks 6185 Eff	pCi/gram	0.9772139	+	0.2040072	0.344
R-CT-033-B-01	1300 gram	6/29/2005	10:45:38 AM	Gr Lks 6185 Eff	pCi/gram	1.235	+	0	0.827
R-CT-034-B-01	1364 gram	6/29/2005	10:54:30 AM	Gr Lks 6185 Eff	pCi/gram	1.615771	+	0.2279812	0.29
R-CT-035-B-01	1500 gram	6/29/2005	11:11:44 AM	Gr Lks 6185 Eff	pCi/gram	0.7087428	+	0.161949	0.234
R-CT-036-B-01	1500 gram	6/29/2005	11:21:29 AM	Gr Lks 6185 Eff	pCi/gram	0.9920792	+	0.1822271	0.265

Appendix K
Cabrera Laboratory Raw Results
CTA Remediation Support Samples

Location I/D	Sample Size	Date Started	Time Started	Efficiency ID	Units	AC-228		Uncertainty	Nuclide MDA
R-CT-037-B-01	1415 gram	6/29/2005	11:33:07 AM	Gr Lks 6185 Eff	pCi/gram	4.213779	+	0.3378212	0.486
R-CT-038-B-01	1500 gram	6/29/2005	11:42:11 AM	Gr Lks 6185 Eff	pCi/gram	1.346231	+	0.2147279	0.242
R-CT-039-B-01	1437 gram	6/29/2005	11:51:56 AM	Gr Lks 6185 Eff	pCi/gram	1.704801	+	0.2448361	0.367
R-CT-040-B-01	1500 gram	6/30/2005	8:41:18 AM	Gr Lks 6185 Eff	pCi/gram	0.2013	+	0	0.411
R-CT-041-B-01	1500 gram	6/30/2005	9:16:35 AM	Gr Lks 6185 Eff	pCi/gram	0.5397	+	0	0.503
R-CT-042-B-01	1500 gram	6/30/2005	9:26:23 AM	Gr Lks 6185 Eff	pCi/gram	7.148608	+	0.4107406	0.479
R-CT-042-B-01DUP	1500 gram	7/6/2005	1:01:31 PM	Gr Lks 6185 Eff	pCi/gram	6.859193	+	0.4041768	0.372
R-CT-043-B-01	1500 gram	6/30/2005	9:35:44 AM	Gr Lks 6185 Eff	pCi/gram	2.266097	+	0.2559054	0.333
R-CT-044-B-01	1500 gram	6/30/2005	9:48:54 AM	Gr Lks 6185 Eff	pCi/gram	2.194368	+	0.2474697	0.262
R-CT-045-B-01	1500 gram	6/30/2005	10:02:16 AM	Gr Lks 6185 Eff	pCi/gram	0.9334954	+	0.2021776	0.253
R-CT-046-B-01	1500 gram	6/30/2005	10:16:37 AM	Gr Lks 6185 Eff	pCi/gram	1.810414	+	0.2357568	0.243
R-CT-047-B-01	1500 gram	6/30/2005	10:27:20 AM	Gr Lks 6185 Eff	pCi/gram	2.646394	+	0.2827768	0.313
R-CT-047-B-01DUP	1500 gram	7/6/2005	1:22:27 PM	Gr Lks 6185 Eff	pCi/gram	2.681486	+	0.2856819	0.405
R-CT-048-B-01	1500 gram	6/30/2005	1:05:28 PM	Gr Lks 6185 Eff	pCi/gram	1.289925	+	0.2057406	0.299
R-CT-049-B-01	1500 gram	6/30/2005	1:16:09 PM	Gr Lks 6185 Eff	pCi/gram	0.7090896	+	0.176504	0.24
R-CT-050-B-01	1455 gram	6/30/2005	1:24:59 PM	Gr Lks 6185 Eff	pCi/gram	0.9643877	+	0.2032795	0.351
R-CT-051-B-01	1500 gram	6/30/2005	1:33:52 PM	Gr Lks 6185 Eff	pCi/gram	0.7395306	+	0.1947282	0.287
R-CT-052-B-01	1500 gram	6/30/2005	1:45:40 PM	Gr Lks 6185 Eff	pCi/gram	1.009393	+	0.2136277	0.218

Appendix K
Cabrera Laboratory Raw Results
CTA Remediation Support Samples

Location I/D	Units	AM-241		Uncertainty	Nuclide MDA	AM-243		Uncertainty	Nuclide MDA	PA-234M		Uncertainty	Nuclide MDA
R-CT-001-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	4.707	+	0	13.7
R-CT-002-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	5.856	+	0	14.4
R-CT-003-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	15.54	+	0	16.6
R-CT-003-B-01DUP	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	5.026	+	0	15.4
R-CT-004-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-3.137	+	0	12.8
R-CT-005-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	5.676	+	0	15
R-CT-006-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-10.58	+	0	12.8
R-CT-007-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	2.993	+	0	15.8
R-CT-008-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-2.526	+	0	10.9
R-CT-009-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	5.669	+	0	15
R-CT-010-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-3.069	+	0	16.2
R-CT-011-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	0.2513	+	0	15.6
R-CT-012-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	1.094	+	0	13
R-CT-013-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	4.789	+	0	16.2
R-CT-014-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	0	+	0	15
R-CT-015-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	2.991	+	0	15.4
R-CT-016-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-5.029	+	0	21.9
R-CT-017-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-6.751	+	0	17.9
R-CT-018-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	2.048	+	0	17.9
R-CT-019-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-1.756	+	0	18.5
R-CT-020-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	6.435	+	0	16.3
R-CT-021-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-7.746	+	0	18.2
R-CT-021-B-01DUP	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	2.253	+	0	17.8
R-CT-022-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	6.158	+	0	20.4
R-CT-022-B-01DUP	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	3.064	+	0	19.3
R-CT-023-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-13.57	+	0	15.7
R-CT-024-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	2.443	+	0	17.3
R-CT-025-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-4.691	+	0	13.7
R-CT-026-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-1.122	+	0	16.2
R-CT-027-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	1.685	+	0	15
R-CT-028-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-0.7678	+	0	18.4
R-CT-029-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	0.8598	+	0	20.5
R-CT-030-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-3.892	+	0	12
R-CT-031-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	11.16	+	0	18.6
R-CT-032-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-5.68	+	0	17.1
R-CT-033-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	3.873	+	0	18.3
R-CT-034-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	2.533	+	0	15.8
R-CT-035-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	1.905	+	0	11.5
R-CT-036-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	2.262	+	0	11.7

Appendix K
Cabrera Laboratory Raw Results
CTA Remediation Support Samples

Location I/D	Units	AM-241		Uncertainty	Nuclide MDA	AM-243		Uncertainty	Nuclide MDA	PA-234M		Uncertainty	Nuclide MDA
R-CT-037-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	1.922	+	0	17.4
R-CT-038-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	3.873	+	0	13.5
R-CT-039-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	8.305	+	0	12.3
R-CT-040-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-3.59	+	0	8.9
R-CT-041-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-1.681	+	0	12.8
R-CT-042-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	6.406	+	0	18.2
R-CT-042-B-01DUP	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-2.207	+	0	17.8
R-CT-043-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	5.428	+	0	15
R-CT-044-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-0.7473	+	0	15
R-CT-045-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	5.963	+	0	10.6
R-CT-046-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	3.677	+	0	13.3
R-CT-047-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	2.002	+	0	16.6
R-CT-047-B-01DUP	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	1.517	+	0	17
R-CT-048-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-2.944	+	0	12
R-CT-049-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	4.124	+	0	13.7
R-CT-050-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-1.512	+	0	14.6
R-CT-051-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	9.856	+	0	15
R-CT-052-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-5.18	+	0	12

Appendix K
Cabrera Laboratory Raw Results
CTA Remediation Support Samples

Location I/D	Units	TH-231		Uncertainty	Nuclide MDA	TH-234		Uncertainty	Nuclide MDA	U-235		Uncertainty	Nuclide MDA
R-CT-001-B-01	pCi/gram	ND	+	ND	NR	0.03943	+	0	2.16	0.2793	+	0	0.774
R-CT-002-B-01	pCi/gram	ND	+	ND	NR	1.005	+	0	2.25	0.4258	+	0	0.776
R-CT-003-B-01	pCi/gram	ND	+	ND	NR	1.531	+	0	2.4	-0.4657	+	0	0.841
R-CT-003-B-01DUP	pCi/gram	ND	+	ND	NR	1.923	+	0	2.55	0.1941	+	0	0.876
R-CT-004-B-01	pCi/gram	ND	+	ND	NR	-0.103	+	0	2.1	0.3593	+	0	0.736
R-CT-005-B-01	pCi/gram	ND	+	ND	NR	1.331	+	0	2.17	0.2462	+	0	0.748
R-CT-006-B-01	pCi/gram	ND	+	ND	NR	1.433	+	0	2.11	0.475	+	0	0.724
R-CT-007-B-01	pCi/gram	ND	+	ND	NR	0.9375	+	0	2.24	0.8603	+	0	0.852
R-CT-008-B-01	pCi/gram	ND	+	ND	NR	-1.265	+	0	1.93	-0.5618	+	0	0.703
R-CT-009-B-01	pCi/gram	ND	+	ND	NR	1.094	+	0	2.16	0.2843	+	0	0.695
R-CT-010-B-01	pCi/gram	ND	+	ND	NR	0.304	+	0	2.5	-0.1401	+	0	0.795
R-CT-011-B-01	pCi/gram	ND	+	ND	NR	1.591961	+	1.091849	1.47	0.2455	+	0	0.721
R-CT-012-B-01	pCi/gram	ND	+	ND	NR	-0.3861	+	0	1.76	0.234	+	0	0.603
R-CT-013-B-01	pCi/gram	ND	+	ND	NR	3.827	+	0	2.83	0.1827	+	0	0.952
R-CT-014-B-01	pCi/gram	ND	+	ND	NR	-0.6649	+	0	2.84	0.1993	+	0	0.95
R-CT-015-B-01	pCi/gram	ND	+	ND	NR	0.4577	+	0	2.16	0.2975	+	0	0.745
R-CT-016-B-01	pCi/gram	ND	+	ND	NR	3.032	+	0	3.86	-0.06452	+	0	1.33
R-CT-017-B-01	pCi/gram	ND	+	ND	NR	-2.038	+	0	2.56	0.7026	+	0	0.881
R-CT-018-B-01	pCi/gram	ND	+	ND	NR	-0.06104	+	0	2.51	-0.181	+	0	0.877
R-CT-019-B-01	pCi/gram	ND	+	ND	NR	2.81	+	0	2.69	0.218	+	0	0.87
R-CT-020-B-01	pCi/gram	ND	+	ND	NR	1.978	+	0	3.22	1.014	+	0	1.16
R-CT-021-B-01	pCi/gram	ND	+	ND	NR	1.736	+	0	3.92	0.0451	+	0	1.37
R-CT-021-B-01DUP	pCi/gram	ND	+	ND	NR	2.844	+	0	3.87	-0.02623	+	0	1.36
R-CT-022-B-01	pCi/gram	ND	+	ND	NR	2.719	+	0	4.63	0.3308	+	0	1.63
R-CT-022-B-01DUP	pCi/gram	ND	+	ND	NR	2.902	+	0	4.72	1.056	+	0	1.68
R-CT-023-B-01	pCi/gram	ND	+	ND	NR	0.4813	+	0	2.61	0.5352	+	0	0.868
R-CT-024-B-01	pCi/gram	ND	+	ND	NR	0.309	+	0	2.36	0.09397	+	0	0.792
R-CT-025-B-01	pCi/gram	ND	+	ND	NR	1.592	+	0	2.3	-0.07061	+	0	0.74
R-CT-026-B-01	pCi/gram	ND	+	ND	NR	0.8884	+	0	3.3	-1.092	+	0	1.14
R-CT-027-B-01	pCi/gram	ND	+	ND	NR	0.3274	+	0	2.68	-0.1262	+	0	0.97
R-CT-028-B-01	pCi/gram	ND	+	ND	NR	-1.179	+	0	2.31	0.3467	+	0	0.798
R-CT-029-B-01	pCi/gram	ND	+	ND	NR	0.563	+	0	4.05	-0.1547	+	0	1.42
R-CT-030-B-01	pCi/gram	ND	+	ND	NR	-0.3151	+	0	1.66	0.02126	+	0	0.643
R-CT-031-B-01	pCi/gram	ND	+	ND	NR	0.4203	+	0	2.25	0.02083	+	0	0.733
R-CT-032-B-01	pCi/gram	ND	+	ND	NR	1.153	+	0	2.19	0.3544	+	0	0.705
R-CT-033-B-01	pCi/gram	ND	+	ND	NR	3.26	+	0	2.19	0.4435	+	0	0.754
R-CT-034-B-01	pCi/gram	ND	+	ND	NR	1.406	+	0	2.28	-0.1618	+	0	0.797
R-CT-035-B-01	pCi/gram	ND	+	ND	NR	0.7995	+	0	1.67	0.1285	+	0	0.569
R-CT-036-B-01	pCi/gram	ND	+	ND	NR	0.2867	+	0	1.94	-0.08942	+	0	0.649

Appendix K
Cabrera Laboratory Raw Results
CTA Remediation Support Samples

Location I/D	Units	TH-231		Uncertainty	Nuclide MDA	TH-234		Uncertainty	Nuclide MDA	U-235		Uncertainty	Nuclide MDA
R-CT-037-B-01	pCi/gram	ND	+	ND	NR	2.36	+	0	3.19	0.6241	+	0	1.06
R-CT-038-B-01	pCi/gram	ND	+	ND	NR	0.05958	+	0	2.07	0.08461	+	0	0.704
R-CT-039-B-01	pCi/gram	ND	+	ND	NR	0.2316	+	0	2.26	0.1907	+	0	0.795
R-CT-040-B-01	pCi/gram	ND	+	ND	NR	-0.8101	+	0	1.14	-0.04219	+	0	0.474
R-CT-041-B-01	pCi/gram	ND	+	ND	NR	-0.2326	+	0	1.2	-0.4982	+	0	0.432
R-CT-042-B-01	pCi/gram	ND	+	ND	NR	1.774	+	0	3.71	0.3623	+	0	1.31
R-CT-042-B-01DUP	pCi/gram	ND	+	ND	NR	2.328	+	0	3.77	0.07025	+	0	1.31
R-CT-043-B-01	pCi/gram	ND	+	ND	NR	1.667	+	0	2.48	0.4302	+	0	0.884
R-CT-044-B-01	pCi/gram	ND	+	ND	NR	2.364	+	0	2.36	0.3952	+	0	0.822
R-CT-045-B-01	pCi/gram	ND	+	ND	NR	0.9642	+	0	1.83	-0.2355	+	0	0.631
R-CT-046-B-01	pCi/gram	ND	+	ND	NR	1.728	+	0	2.35	0.04435	+	0	0.8
R-CT-047-B-01	pCi/gram	ND	+	ND	NR	-0.09103	+	0	2.82	1.237	+	0	1.06
R-CT-047-B-01DUP	pCi/gram	ND	+	ND	NR	-0.665	+	0	2.83	0.4152	+	0	1.06
R-CT-048-B-01	pCi/gram	ND	+	ND	NR	1.648	+	0	2.08	0.225	+	0	0.706
R-CT-049-B-01	pCi/gram	ND	+	ND	NR	0.9969	+	0	1.84	0.2562	+	0	0.59
R-CT-050-B-01	pCi/gram	ND	+	ND	NR	1.317	+	0	2.09	-0.5553	+	0	0.661
R-CT-051-B-01	pCi/gram	ND	+	ND	NR	0.7466	+	0	1.78	0.1776	+	0	0.639
R-CT-052-B-01	pCi/gram	ND	+	ND	NR	-0.2919	+	0	1.85	0.1074	+	0	0.651

Appendix K
Cabrera Laboratory Raw Results
Woodshop Remediation Support Samples

Location I/D	Sample Size	Date Started	Time Started	Efficiency ID	Units	AC-228		Uncertainty	Nuclide MDA
R-WS-01-S-01	1421 gram	7/15/2005	9:04:33 AM	Gr Lks 6185 Eff	pCi/gram	1.336095	+	0.2073793	0.207
R-WS-02-S-01	1351 gram	7/15/2005	9:18:36 AM	Gr Lks 6185 Eff	pCi/gram	2.166135	+	0.2480135	0.361
R-WS-03-S-01	1342 gram	7/15/2005	9:28:34 AM	Gr Lks 6185 Eff	pCi/gram	3.086562	+	0.2940157	0.323
R-WS-03-S-01DUP	1342 gram	7/19/2005	8:40:08 AM	Gr Lks 6185 Eff	pCi/gram	3.00351	±	0.3202213	0.373
R-WS-04-S-01	1500 gram	7/15/2005	9:37:48 AM	Gr Lks 6185 Eff	pCi/gram	1.852374	+	0.2276734	0.222
R-WS-05-S-01	1458 gram	7/15/2005	9:53:58 AM	Gr Lks 6185 Eff	pCi/gram	3.179816	±	0.2785316	0.385
R-WS-06-S-01	1500 gram	7/15/2005	10:05:41 AM	Gr Lks 6185 Eff	pCi/gram	4.915513	+	0.3364884	0.38
R-WS-06-S-01DUP	1500 gram	7/19/2005	8:07:27 AM	Gr Lks 6185 Eff	pCi/gram	5.039554	+	0.3473684	0.403

Appendix K
Cabrera Laboratory Raw Results
Woodshop Remediation Support Samples

Location I/D	Units	AM-241		Uncertainty	Nuclide MDA	AM-243		Uncertainty	Nuclide MDA	PA-234M		Uncertainty	Nuclide MDA
R-WS-01-S-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	3.851	+	0	15
R-WS-02-S-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-1.88	+	0	14.5
R-WS-03-S-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-12.62	+	0	14
R-WS-03-S-01DUP	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	6.313	+	0	15.8
R-WS-04-S-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	14.15	+	0	15.4
R-WS-05-S-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-9.713	+	0	14.8
R-WS-06-S-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	0.3524	+	0	16.6
R-WS-06-S-01DUP	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	6.125	+	0	16.8

Appendix K
Cabrera Laboratory Raw Results
Woodshop Remediation Support Samples

Location I/D	Units	TH-231		Uncertainty	Nuclide MDA	TH-234		Uncertainty	Nuclide MDA	U-235		Uncertainty	Nuclide MDA
R-WS-01-S-01	pCi/gram	ND	+	ND	NR	0.2482	+	0	1.96	0.1845	+	0	0.726
R-WS-02-S-01	pCi/gram	ND	+	ND	NR	0.3676	+	0	2.38	0.6206	+	0	0.834
R-WS-03-S-01	pCi/gram	ND	+	ND	NR	1.592	+	0	2.85	-0.3195	+	0	0.965
R-WS-03-S-01DUP	pCi/gram	ND	±	ND	NR	0.7812	±	0	2.76	-0.07313	±	0	0.962
R-WS-04-S-01	pCi/gram	ND	+	ND	NR	-0.4438	+	0	2.22	-0.1547	+	0	0.775
R-WS-05-S-01	pCi/gram	ND	±	ND	NR	2.193	±	0	2.93	0.1526	±	0	0.974
R-WS-06-S-01	pCi/gram	ND	+	ND	NR	-2.009	+	0	3.29	-0.0878	+	0	1.13
R-WS-06-S-01DUP	pCi/gram	ND	+	ND	NR	1.425	+	0	3.4	0.4485	+	0	1.17

Appendix K
Cabrera Laboratory Raw Results
Additional Onsite Samples

Filename	Sample Size	Date Started	Time Started	Efficiency ID	Units	AC-228		Uncertainty	Nuclide MDA
BACKFILL-CT-AREA	1500 gram	8/2/2005	2:13:33 PM	Gr Lks 6185 Eff	pCi/gram	0.1239	+	0	0.375
BACKFILL-G	1500 gram	6/23/2005	2:09:40 PM	Gr Lks 6185 Eff	pCi/gram	0.3245	+	0	0.438
BACKFILL-S	1500 gram	6/23/2005	1:55:03 PM	Gr Lks 6185 Eff	pCi/gram	0.2229	+	0	0.418
C-OF-001-B-01	1212 gram	7/20/2005	11:31:07 AM	Gr Lks 6185 Eff	pCi/gram	21.12404	+	0.8167814	0.711

Appendix K
Cabrera Laboratory Raw Results
Additional Onsite Samples

Filename	Units	AM-241		Uncertainty	Nuclide MDA	AM-243		Uncertainty	Nuclide MDA	PA-234M		Uncertainty	Nuclide MDA
BACKFILL-CT-AREA	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-2.294	+	0	10.9
BACKFILL-G	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	-1.988	+	0	10.9
BACKFILL-S	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	4.537	+	0	12.5
C-OF-001-B-01	pCi/gram	ND	+	ND	NR	ND	+	ND	NR	8.899	+	0	30.8

Appendix K
Cabrera Laboratory Raw Results
Additional Onsite Samples

Filename	Units	TH-231		Uncertainty	Nuclide MDA	TH-234		Uncertainty	Nuclide MDA	U-235		Uncertainty	Nuclide MDA
BACKFILL-CT-AREA	pCi/gram	ND	+	ND	NR	-0.198	+	0	1.13	-0.1264	+	0	0.417
BACKFILL-G	pCi/gram	ND	+	ND	NR	0.09986	+	0	1.09	-0.04071	+	0	0.412
BACKFILL-S	pCi/gram	ND	+	ND	NR	0.2222	+	0	1.41	0.1745	+	0	0.483
C-OF-001-B-01	pCi/gram	ND	+	ND	NR	-1.874	+	0	6.78	1.218	+	0	2.33

Appendix L:
Radiological Survey and Counting Worksheets
(Submitted in electronic format on compact disk)

Smear Worksheet - Ludlum 2929 S/N 129566 w/ Ludlum 43-10-1 S/N PR 132720 - 1.0 Minute Counts (Rev 5)

Counting Instrument:				2929		Detector:		43-10-1		Calibration Date: 5/23/2005																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								</
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α eff	β eff
0.3050	0.2320

Sample Count Time (min)	Daily Background Count Time (min)
1.0	20.0

dpm/100 cm ²	
α Flag	β Flag
200	200

* Morning Daily Count

seq. #	Sample ID# and Description	Date	Background Total Counts*		Sample Total Counts		Background (cpm)		Sample Counts (cpm)		Sample (dpm/100 cm ²)		> α flag	> β flag	Tech. Initial
			α	β	α	β	α	β	α	β	α	β			
1	GLNTC05-002-1	6/21/2005	10	909	0	41	0.5	45.5	0.00	41	-1.6	-19			WNB
2	GLNTC05-002-2	6/21/2005	10	909	0	38	0.5	45.5	0.00	38	-1.6	-32			WNB
3	GLNTC05-002-3	6/21/2005	10	909	1	44	0.5	45.5	1.00	44	1.6	-6			WNB
4	GLNTC05-002-4	6/21/2005	10	909	0	43	0.5	45.5	0.00	43	-1.6	-11			WNB
5	GLNTC05-002-5	6/21/2005	10	909	0	34	0.5	45.5	0.00	34	-1.6	-49			WNB
6	GLNTC05-002-6	6/21/2005	10	909	1	43	0.5	45.5	1.00	43	1.6	-11			WNB
7	GLNTC05-002-7	6/21/2005	10	909	0	50	0.5	45.5	0.00	50	-1.6	20			WNB
8	GLNTC05-002-8	6/21/2005	10	909	0	51	0.5	45.5	0.00	51	-1.6	24			WNB
9	GLNTC05-002-9	6/21/2005	10	909	0	56	0.5	45.5	0.00	56	-1.6	45			WNB
10	GLNTC05-002-10	6/21/2005	10	909	0	33	0.5	45.5	0.00	33	-1.6	-54			WNB
11	GLNTC05-002-11	6/21/2005	10	909	0	45	0.5	45.5	0.00	45	-1.6	-2			WNB
12	GLNTC05-002-12	6/21/2005	10	909	0	33	0.5	45.5	0.00	33	-1.6	-54			WNB
13	GLNTC05-002-13	6/21/2005	10	909	0	42	0.5	45.5	0.00	42	-1.6	-15			WNB
14	GLNTC05-003-1	6/22/2005	6	873	2	39	0.3	43.7	2.00	39	5.6	-20			WNB
15	GLNTC05-003-2	6/22/2005	6	873	0	54	0.3	43.7	0.00	54	-1.0	45			WNB
16	GLNTC05-003-3	6/22/2005	6	873	2	33	0.3	43.7	2.00	33	5.6	-46			WNB
17	GLNTC05-003-4	6/22/2005	6	873	0	40	0.3	43.7	0.00	40	-1.0	-16			WNB
18	GLNTC05-003-5	6/22/2005	6	873	0	44	0.3	43.7	0.00	44	-1.0	2			WNB
19	GLNTC05-003-6	6/22/2005	6	873	0	48	0.3	43.7	0.00	48	-1.0	19			WNB
20	GLNTC05-003-7	6/22/2005	6	873	0	53	0.3	43.7	0.00	53	-1.0	40			WNB
21	GLNTC05-003-8	6/22/2005	6	873	0	56	0.3	43.7	0.00	56	-1.0	53			WNB
22	GLNTC05-003-9	6/22/2005	6	873	1	45	0.3	43.7	1.00	45	2.3	6			WNB
23	GLNTC05-003-10	6/22/2005	6	873	1	39	0.3	43.7	1.00	39	2.3	-20			WNB
24	GLNTC05-003-11	6/22/2005	6	873	0	27	0.3	43.7	0.00	27	-1.0	-72			WNB
25	GLNTC05-003-12	6/22/2005	6	873	0	46	0.3	43.7	0.00	46	-1.0	10			WNB
26	GLNTC05-003-13	6/22/2005	6	873	0	32	0.3	43.7	0.00	32	-1.0	-50			WNB
27	GLNTC05-004-1	6/23/2005	6	882	1	47	0.3	44.1	1.00	47	2.3	13			BNC
28	GLNTC05-004-2	6/23/2005	6	882	1	53	0.3	44.1	1.00	53	2.3	38			BNC
29	GLNTC05-004-3	6/23/2005	6	882	0	49	0.3	44.1	0.00	49	-1.0	21			BNC
30	GLNTC05-004-4	6/23/2005	6	882	0	29	0.3	44.1	0.00	29	-1.0	-65			BNC
31	GLNTC05-004-5	6/23/2005	6	882	0	29	0.3	44.1	0.00	29	-1.0	-65			BNC
32	GLNTC05-004-6	6/23/2005	6	882	0	46	0.3	44.1	0.00	46	-1.0	8			BNC
33	GLNTC05-004-7	6/23/2005	6	882	0	45	0.3	44.1	0.00	45	-1.0	4			BNC
34	GLNTC05-004-8	6/23/2005	6	882	0	47	0.3	44.1	0.00	47	-1.0	13			BNC
35	GLNTC05-004-9	6/23/2005	6	882	2	42	0.3	44.1	2.00	42	5.6	-9			BNC
36	GLNTC05-004-10	6/23/2005	6	882	0	39	0.3	44.1	0.00	39	-1.0	-22			BNC
37	GLNTC05-004-11	6/23/2005	6	882	0	43	0.3	44.1	0.00	43	-1.0	-5			BNC
38	GLNTC05-004-12	6/23/2005	6	882	0	46	0.3	44.1	0.00	46	-1.0	8			BNC
39	GLNTC05-005-1	6/23/2005	6	882	0	45	0.3	44.1	0.00	45	-1.0	4			BNC
40	GLNTC05-005-2	6/23/2005	6	882	2	30	0.3	44.1	2.00	30	5.6	-61			BNC
41	GLNTC05-005-3	6/23/2005	6	882	0	37	0.3	44.1	0.00	37	-1.0	-31			BNC
42	GLNTC05-005-4	6/23/2005	6	882	1	45	0.3	44.1	1.00	45	2.3	4			BNC
43	GLNTC05-005-5	6/23/2005	6	882	0	51	0.3	44.1	0.00	51	-1.0	30			BNC
44	GLNTC05-005-6	6/23/2005	6	882	1	39	0.3	44.1	1.00	39	2.3	-22			BNC
45	GLNTC05-005-7	6/23/2005	6	882	0	49	0.3	44.1	0.00	49	-1.0	21			BNC
46	GLNTC05-005-8	6/23/2005	6	882	1	45	0.3	44.1	1.00	45	2.3	4			BNC
47	GLNTC05-005-9	6/23/2005	6	882	0	42	0.3	44.1	0.00	42	-1.0	-9			BNC
48	GLNTC05-005-10	6/23/2005	6	882	1	30	0.3	44.1	1.00	30	2.3	-61			BNC
49	GLNTC05-005-11	6/23/2005	6	882	2	37	0.3	44.1	2.00	37	5.6	-31			BNC
50	GLNTC05-005-12	6/23/2005	6	882	1	48	0.3	44.1	1.00	48	2.3	17			BNC
51	GLNTC05-005-13	6/23/2005	6	882	2	43	0.3	44.1	2.00	43	5.6	-5			BNC
52	GLNTC05-006-1	6/24/2005	6	882	0	45	0.3	44.1	0.00	45	-1.0	4			BNC
53	GLNTC05-006-2	6/24/2005	6	882	1	45	0.3	44.1	1.00	45	2.3	4			BNC
54	GLNTC05-006-3	6/24/2005	6	882	0	43	0.3	44.1	0.00	43	-1.0	-5			BNC
55	GLNTC05-006-4	6/24/2005	6	882	0	52	0.3	44.1	0.00	52	-1.0	34			BNC
56	GLNTC05-006-5	6/24/2005	6	882	0	43	0.3	44.1	0.00	43	-1.0	-5			BNC
57	GLNTC05-006-6	6/24/2005	6	882	0	45	0.3	44.1	0.00	45	-1.0	4			BNC
58	GLNTC05-006-7	6/24/2005	6	882	0	42	0.3	44.1	0.00	42	-1.0	-9			BNC
59	GLNTC05-006-8	6/24/2005	6	882	0	47	0.3	44.1	0.00	47	-1.0	13			BNC
60	GLNTC05-006-9	6/24/2005	6	882	1	42	0.3	44.1	1.00	42	2.3	-9			BNC
61	GLNTC05-006-10	6/24/2005	6	882	0	54	0.3	44.1	0.00	54	-1.0	43			BNC
62	GLNTC05-006-11	6/24/2005	6	882	0	43	0.3	44.1	0.00	43	-1.0	-5			BNC
63	GLNTC05-006-12	6/24/2005	6	882	0	38	0.3	44.1	0.00	38	-1.0	-26			BNC
64	GLNTC05-006-13	6/24/2005	6	882	4	52	0.3	44.1	4.00	52	12.1	34			BNC
65	GLNTC05-007-01	6/24/2005	6	882	0	32	0.3	44.1	0.00	32	-1.0	-52			WNB
66	GLNTC05-007-02	6/24/2005	6	882	0	39	0.3	44.1	0.00	39	-1.0	-22			WNB
67	GLNTC05-007-03	6/24/2005	6	882	2	46	0.3	44.1	2.00	46	5.6	8			WNB
68	GLNTC05-007-04	6/24/2005	6	882	0	37	0.3	44.1	0.00	37	-1.0	-31			WNB
69	GLNTC05-007-05	6/24/2005	6	882	0	43	0.3	44.1	0.00	43	-1.0	-5			WNB
70	GLNTC05-007-06	6/24/2005	6	882	1	50	0.3	44.1	1.00	50	2.3	25			WNB
71	GLNTC05-007-07	6/24/2005	6	882	0	46	0.3	44.1	0.00	46	-1.0	8			WNB
72	GLNTC05-007-08	6/24/2005	6	882	0	48	0.3	44.1	0.00	48	-1.0	17			WNB
73	GLNTC05-007-09	6/24/2005	6	882	0	45	0.3	44.1	0.00	45	-1.0	4			WNB
74	GLNTC05-007-10	6/24/2005	6	882	0	50	0.3	44.1	0.00	50	-1.0	25			WNB
75	GLNTC05-007-11	6/24/2005	6	882	0	53	0.3	44.1	0.00	53	-1.0	38			WNB
76	GLNTC05-007-12	6/24/2005	6	882	0	38	0.3	44.1	0.00	38	-1.0	-26			WNB
77	GLNTC05-007-13	6/24/2005	6	882	0	42	0.3	44.1	0.00	42	-1.0	-9			WNB
78	GLNTC05-008-01	6/28/2005	11	916	0	45	0.6	45.8	0.00	45	-1.8	-3			WNB
79	GLNTC05-008-02	6/28/2005	11	916	1	32	0.6	45.8	1.00	32	1.5	-59			WNB
80	GLNTC05-008-03	6/28/2005	11	916											

α eff	β eff
0.3050	0.2320

Sample Count Time (min)	Daily Background Count Time (min)
1.0	20.0

dpm/100 cm ²	
α Flag	β Flag
200	200

* Morning Daily Count

seq. #	Sample ID# and Description	Date	Background Total Counts*		Sample Total Counts		Background (cpm)		Sample Counts (cpm)		Sample (dpm/100 cm ²)		> α flag	> β flag	Tech. Initial
			α	β	α	β	α	β	α	β	α	β			
89	GLNTC05-008-12	6/28/2005	11	916	0	46	0.6	45.8	0.00	46	-1.8	1			WNB
90	GLNTC05-008-13	6/28/2005	11	916	0	48	0.6	45.8	0.00	48	-1.8	9			WNB
91	GLNTC05-009-01	6/29/2005	7	924	0	42	0.4	46.2	0.00	42	-1.1	-18			WNB
92	GLNTC05-009-02	6/29/2005	7	924	0	51	0.4	46.2	0.00	51	-1.1	21			WNB
93	GLNTC05-009-03	6/29/2005	7	924	0	35	0.4	46.2	0.00	35	-1.1	-48			WNB
94	GLNTC05-009-04	6/29/2005	7	924	2	38	0.4	46.2	2.00	38	5.4	-35			WNB
95	GLNTC05-009-05	6/29/2005	7	924	1	38	0.4	46.2	1.00	38	2.1	-35			WNB
96	GLNTC05-009-06	6/29/2005	7	924	1	40	0.4	46.2	1.00	40	2.1	-27			WNB
97	GLNTC05-009-07	6/29/2005	7	924	0	48	0.4	46.2	0.00	48	-1.1	8			WNB
98	GLNTC05-009-08	6/29/2005	7	924	0	49	0.4	46.2	0.00	49	-1.1	12			WNB
99	GLNTC05-009-09	6/29/2005	7	924	0	46	0.4	46.2	0.00	46	-1.1	-1			WNB
100	GLNTC05-009-10	6/29/2005	7	924	1	35	0.4	46.2	1.00	35	2.1	-48			WNB
101	GLNTC05-009-11	6/29/2005	7	924	0	38	0.4	46.2	0.00	38	-1.1	-35			WNB
102	GLNTC05-009-12	6/29/2005	7	924	0	48	0.4	46.2	0.00	48	-1.1	8			WNB
103	GLNTC05-009-13	6/29/2005	7	924	0	37	0.4	46.2	0.00	37	-1.1	-40			WNB
104	GLNTC05-010-01	6/30/2005	6	864	0	32	0.3	43.2	0.00	32	-1.0	-48			BNC
105	GLNTC05-010-02	6/30/2005	6	864	0	65	0.3	43.2	0.00	65	-1.0	94			BNC
106	GLNTC05-010-03	6/30/2005	6	864	2	46	0.3	43.2	2.00	46	5.6	12			BNC
107	GLNTC05-010-04	6/30/2005	6	864	0	51	0.3	43.2	0.00	51	-1.0	34			BNC
108	GLNTC05-010-05	6/30/2005	6	864	1	48	0.3	43.2	1.00	48	2.3	21			BNC
109	GLNTC05-010-06	6/30/2005	6	864	1	46	0.3	43.2	1.00	46	2.3	12			BNC
110	GLNTC05-010-07	6/30/2005	6	864	0	43	0.3	43.2	0.00	43	-1.0	-1			BNC
111	GLNTC05-010-08	6/30/2005	6	864	1	35	0.3	43.2	1.00	35	2.3	-35			BNC
112	GLNTC05-010-09	6/30/2005	6	864	2	45	0.3	43.2	2.00	45	5.6	8			BNC
113	GLNTC05-010-10	6/30/2005	6	864	0	38	0.3	43.2	0.00	38	-1.0	-22			BNC
114	GLNTC05-010-11	6/30/2005	6	864	1	41	0.3	43.2	1.00	41	2.3	-9			BNC
115	GLNTC05-010-12	6/30/2005	6	864	2	50	0.3	43.2	2.00	50	5.6	29			BNC
116	GLNTC05-010-13	6/30/2005	6	864	1	59	0.3	43.2	1.00	59	2.3	68			BNC
117	GLNTC05-011-01	7/7/2005	7	920	1	49	0.4	46.0	1.00	49	2.1	13			WNB
118	GLNTC05-011-02	7/7/2005	7	920	0	33	0.4	46.0	0.00	33	-1.1	-56			WNB
119	GLNTC05-011-03	7/7/2005	7	920	0	42	0.4	46.0	0.00	42	-1.1	-17			WNB
120	GLNTC05-011-04	7/7/2005	7	920	1	33	0.4	46.0	1.00	33	2.1	-56			WNB
121	GLNTC05-011-05	7/7/2005	7	920	0	30	0.4	46.0	0.00	30	-1.1	-69			WNB
122	GLNTC05-011-06	7/7/2005	7	920	0	56	0.4	46.0	0.00	56	-1.1	43			WNB
123	GLNTC05-011-07	7/7/2005	7	920	1	47	0.4	46.0	1.00	47	2.1	4			WNB
124	GLNTC05-011-08	7/7/2005	7	920	0	42	0.4	46.0	0.00	42	-1.1	-17			WNB
125	GLNTC05-011-09	7/7/2005	7	920	1	43	0.4	46.0	1.00	43	2.1	-13			WNB
126	GLNTC05-011-10	7/7/2005	7	920	0	62	0.4	46.0	0.00	62	-1.1	69			WNB
127	GLNTC05-011-11	7/7/2005	7	920	0	49	0.4	46.0	0.00	49	-1.1	13			WNB
128	GLNTC05-011-12	7/7/2005	7	920	0	45	0.4	46.0	0.00	45	-1.1	-4			WNB
129	GLNTC05-011-13	7/7/2005	7	920	3	38	0.4	46.0	3.00	38	8.7	-34			WNB
130	GLNTC05-011-01	7/8/2005	4	831	1	57	0.2	41.6	1.00	57	2.6	67			WNB
131	GLNTC05-011-02	7/8/2005	4	831	0	44	0.2	41.6	0.00	44	-0.7	11			WNB
132	GLNTC05-011-03	7/8/2005	4	831	0	45	0.2	41.6	0.00	45	-0.7	15			WNB
133	GLNTC05-011-04	7/8/2005	4	831	2	52	0.2	41.6	2.00	52	5.9	45			WNB
134	GLNTC05-011-05	7/8/2005	4	831	0	26	0.2	41.6	0.00	26	-0.7	-67			WNB
135	GLNTC05-011-06	7/8/2005	4	831	0	38	0.2	41.6	0.00	38	-0.7	-15			WNB
136	GLNTC05-011-07	7/8/2005	4	831	0	39	0.2	41.6	0.00	39	-0.7	-11			WNB
137	GLNTC05-011-08	7/8/2005	4	831	0	47	0.2	41.6	0.00	47	-0.7	23			WNB
138	GLNTC05-011-09	7/8/2005	4	831	1	43	0.2	41.6	1.00	43	2.6	6			WNB
139	GLNTC05-011-10	7/8/2005	4	831	0	37	0.2	41.6	0.00	37	-0.7	-20			WNB
140	GLNTC05-011-11	7/8/2005	4	831	1	42	0.2	41.6	1.00	42	2.6	2			WNB
141	GLNTC05-012-01	7/11/2005	9	877	0	38	0.5	43.9	0.00	38	-1.5	-25			BNC
142	GLNTC05-012-02	7/11/2005	9	877	1	43	0.5	43.9	1.00	43	1.8	-4			BNC
143	GLNTC05-012-03	7/11/2005	9	877	0	45	0.5	43.9	0.00	45	-1.5	5			BNC
144	GLNTC05-012-04	7/11/2005	9	877	0	39	0.5	43.9	0.00	39	-1.5	-21			BNC
145	GLNTC05-012-05	7/11/2005	9	877	0	36	0.5	43.9	0.00	36	-1.5	-34			BNC
146	GLNTC05-012-06	7/11/2005	9	877	0	44	0.5	43.9	0.00	44	-1.5	1			BNC
147	GLNTC05-012-07	7/11/2005	9	877	0	34	0.5	43.9	0.00	34	-1.5	-42			BNC
148	GLNTC05-012-08	7/11/2005	9	877	0	44	0.5	43.9	0.00	44	-1.5	1			BNC
149	GLNTC05-012-09	7/11/2005	9	877	0	36	0.5	43.9	0.00	36	-1.5	-34			BNC
150	GLNTC05-012-10	7/11/2005	9	877	2	26	0.5	43.9	2.00	26	5.1	-77			BNC
151	GLNTC05-012-11	7/11/2005	9	877	0	52	0.5	43.9	0.00	52	-1.5	35			BNC
152	GLNTC05-012-12	7/11/2005	9	877	0	35	0.5	43.9	0.00	35	-1.5	-38			BNC
153	GLNTC05-012-13	7/11/2005	9	877	1	37	0.5	43.9	1.00	37	1.8	-30			BNC
154	GLNTC05-013-01	7/12/2005	9	902	0	38	0.5	45.1	0.00	38	-1.5	-31			WNB
155	GLNTC05-013-02	7/12/2005	9	902	0	46	0.5	45.1	0.00	46	-1.5	4			WNB
156	GLNTC05-013-03	7/12/2005	9	902	0	39	0.5	45.1	0.00	39	-1.5	-26			WNB
157	GLNTC05-013-04	7/12/2005	9	902	0	33	0.5	45.1	0.00	33	-1.5	-52			WNB
158	GLNTC05-013-05	7/12/2005	9	902	0	44	0.5	45.1	0.00	44	-1.5	-5			WNB
159	GLNTC05-013-06	7/12/2005	9	902	0	33	0.5	45.1	0.00	33	-1.5	-52			WNB
160	GLNTC05-013-07	7/12/2005	9	902	0	40	0.5	45.1	0.00	40	-1.5	-22			WNB
161	GLNTC05-013-08	7/12/2005	9	902	0	44	0.5	45.1	0.00	44	-1.5	-5			WNB
162	GLNTC05-013-09	7/12/2005	9	902	0	52	0.5	45.1	0.00	52	-1.5	30			WNB
163	GLNTC05-013-10	7/12/2005	9	902	0	43	0.5	45.1	0.00	43	-1.5	-9			WNB
164	GLNTC05-013-11	7/12/2005	9	902	0	42	0.5	45.1	0.00	42	-1.5	-13			WNB
165	GLNTC05-013-12	7/12/2005	9	902	1	35	0.5	45.1	1.00	35	1.8	-44			WNB
166	GLNTC05-013-13	7/12/2005	9	902	0	30	0.5	45.1	0.00	30	-1.5	-65			WNB
167	GLNTC05-014-01	7/13/2005	8	920	0	40	0.4	46.0	0.00	40	-1.3	-26			WNB
168	GLNTC05-014-02	7/13/2005	8	920	1	44	0.4	46.0	1.00	44	2.0	-9			WNB
169	GLNTC05-014-03	7/13/2005	8	920	0	49	0.4	46.0	0.00	49	-1.3	13			WNB
170	GLNTC05-014-04	7/13/2005	8	920	0	51	0.4	46.0	0.00	51	-1.3	22			WNB
171	GLNTC05-014-05	7/13/2005	8	920	0	39	0.4	46.0	0.00	39	-1.3	-30			WNB
172	GLNTC05-014-06	7/13/2005	8	920	0	34	0.4	46.0	0.00	34	-1.3	-52			WNB
173	GLNTC05-014-07	7/13/2005	8	920	0	46	0.4	46.0	0.00	46	-1.3	0			WNB
174	GLNTC05-014-08	7/13/2005	8	920	1	37	0.4	46.0	1.00	37	2.0	-39			WNB
175	GLNTC05-014-09	7/13/2005	8	920	2	45	0.4	46.0	2.00	45	5.2	-4			WNB

α eff	β eff
0.3050	0.2320

Sample Count Time (min)	Daily Background Count Time (min)
1.0	20.0

dpm/100 cm ²	
α Flag	β Flag
200	200

* Morning Daily Count

seq. #	Sample ID# and Description	Date	Background Total Counts*		Sample Total Counts		Background (cpm)		Sample Counts (cpm)		Sample (dpm/100 cm ²)		> α flag	> β flag	Tech. Initial
			α	β	α	β	α	β	α	β	α	β			
177	GLNTC05-014-11	7/13/2005	8	920	2	37	0.4	46.0	2.00	37	5.2	-39			WNB
178	GLNTC05-014-12	7/13/2005	8	920	0	42	0.4	46.0	0.00	42	-1.3	-17			WNB
179	GLNTC05-015-01	7/13/2005	8	920	1	42	0.4	46.0	1.00	42	2.0	-17			WNB
180	GLNTC05-015-02	7/13/2005	8	920	0	41	0.4	46.0	0.00	41	-1.3	-22			WNB
181	GLNTC05-015-03	7/13/2005	8	920	1	31	0.4	46.0	1.00	31	2.0	-65			WNB
182	GLNTC05-015-04	7/13/2005	8	920	0	39	0.4	46.0	0.00	39	-1.3	-30			WNB
183	GLNTC05-015-05	7/13/2005	8	920	1	50	0.4	46.0	1.00	50	2.0	17			WNB
184	GLNTC05-015-06	7/13/2005	8	920	0	43	0.4	46.0	0.00	43	-1.3	-13			WNB
185	GLNTC05-015-07	7/13/2005	8	920	0	39	0.4	46.0	0.00	39	-1.3	-30			WNB
186	GLNTC05-015-08	7/13/2005	8	920	0	38	0.4	46.0	0.00	38	-1.3	-34			WNB
187	GLNTC05-015-09	7/13/2005	8	920	0	33	0.4	46.0	0.00	33	-1.3	-56			WNB
188	GLNTC05-015-10	7/13/2005	8	920	0	51	0.4	46.0	0.00	51	-1.3	22			WNB
189	GLNTC05-015-11	7/13/2005	8	920	0	52	0.4	46.0	0.00	52	-1.3	26			WNB
190	GLNTC05-015-12	7/13/2005	8	920	1	32	0.4	46.0	1.00	32	2.0	-60			WNB
191	GLNTC05-015-13	7/13/2005	8	920	0	45	0.4	46.0	0.00	45	-1.3	-4			WNB
192	GLNTC05-16-01	7/14/2005	10	845	0	44	0.5	42.3	0.00	44	-1.6	8			WNB
193	GLNTC05-16-02	7/14/2005	10	845	0	42	0.5	42.3	0.00	42	-1.6	-1			WNB
194	GLNTC05-16-03	7/14/2005	10	845	0	56	0.5	42.3	0.00	56	-1.6	59			WNB
195	GLNTC05-16-04	7/14/2005	10	845	0	34	0.5	42.3	0.00	34	-1.6	-36			WNB
196	GLNTC05-16-05	7/14/2005	10	845	0	52	0.5	42.3	0.00	52	-1.6	42			WNB
197	GLNTC05-16-06	7/14/2005	10	845	0	42	0.5	42.3	0.00	42	-1.6	-1			WNB
198	GLNTC05-16-07	7/14/2005	10	845	0	37	0.5	42.3	0.00	37	-1.6	-23			WNB
199	GLNTC05-16-08	7/14/2005	10	845	0	46	0.5	42.3	0.00	46	-1.6	16			WNB
200	GLNTC05-16-09	7/14/2005	10	845	0	43	0.5	42.3	0.00	43	-1.6	3			WNB
201	GLNTC05-16-10	7/14/2005	10	845	0	48	0.5	42.3	0.00	48	-1.6	25			WNB
202	GLNTC05-16-11	7/14/2005	10	845	0	38	0.5	42.3	0.00	38	-1.6	-18			WNB
203	GLNTC05-16-12	7/14/2005	10	845	0	55	0.5	42.3	0.00	55	-1.6	55			WNB
204	GLNTC05-16-13	7/14/2005	10	845	0	48	0.5	42.3	0.00	48	-1.6	25			WNB
205	GLNTC05-17-01	7/19/2005	11	916	1	41	0.6	45.8	1.00	41	1.5	-21			WNB
206	GLNTC05-17-02	7/19/2005	11	916	0	49	0.6	45.8	0.00	49	-1.8	14			WNB
207	GLNTC05-17-03	7/19/2005	11	916	0	47	0.6	45.8	0.00	47	-1.8	5			WNB
208	GLNTC05-17-04	7/19/2005	11	916	0	45	0.6	45.8	0.00	45	-1.8	-3			WNB
209	GLNTC05-17-05	7/19/2005	11	916	0	37	0.6	45.8	0.00	37	-1.8	-38			WNB
210	GLNTC05-17-06	7/19/2005	11	916	0	42	0.6	45.8	0.00	42	-1.8	-16			WNB
211	GLNTC05-17-07	7/19/2005	11	916	0	40	0.6	45.8	0.00	40	-1.8	-25			WNB
212	GLNTC05-17-08	7/19/2005	11	916	0	39	0.6	45.8	0.00	39	-1.8	-29			WNB
213	GLNTC05-17-09	7/19/2005	11	916	0	48	0.6	45.8	0.00	48	-1.8	9			WNB
214	GLNTC05-17-10	7/19/2005	11	916	0	33	0.6	45.8	0.00	33	-1.8	-55			WNB
215	GLNTC05-17-11	7/19/2005	11	916	0	54	0.6	45.8	0.00	54	-1.8	35			WNB
216	GLNTC05-17-12	7/19/2005	11	916	1	47	0.6	45.8	1.00	47	1.5	5			WNB
217	GLNTC05-17-13	7/19/2005	11	916	0	35	0.6	45.8	0.00	35	-1.8	-47			WNB
218	GLNTC05-18-01	7/20/2005	8	919	1	37	0.4	46.0	1.00	37	2.0	-39			BNC
219	GLNTC05-18-02	7/20/2005	8	919	0	34	0.4	46.0	0.00	34	-1.3	-62			BNC
220	GLNTC05-18-03	7/20/2005	8	919	1	47	0.4	46.0	1.00	47	2.0	5			BNC
221	GLNTC05-18-04	7/20/2005	8	919	0	45	0.4	46.0	0.00	45	-1.3	-4			BNC
222	GLNTC05-18-05	7/20/2005	8	919	0	38	0.4	46.0	0.00	38	-1.3	-34			BNC
223	GLNTC05-18-06	7/20/2005	8	919	0	40	0.4	46.0	0.00	40	-1.3	-26			BNC
224	GLNTC05-18-07	7/20/2005	8	919	0	49	0.4	46.0	0.00	49	-1.3	13			BNC
225	GLNTC05-18-08	7/20/2005	8	919	0	58	0.4	46.0	0.00	58	-1.3	52			BNC
226	GLNTC05-18-09	7/20/2005	8	919	0	39	0.4	46.0	0.00	39	-1.3	-30			BNC
227	GLNTC05-18-10	7/20/2005	8	919	2	36	0.4	46.0	2.00	36	5.2	-43			BNC
228	GLNTC05-18-11	7/20/2005	8	919	1	40	0.4	46.0	1.00	40	2.0	-26			BNC
229	GLNTC05-18-12	7/20/2005	8	919	0	40	0.4	46.0	0.00	40	-1.3	-26			BNC
230	GLNTC05-18-13	7/20/2005	8	919	1	59	0.4	46.0	1.00	59	2.0	56			BNC

Smear Worksheet - Ludlum 2929 S/N 95572 w/ Ludlum 43-10-1 S/N PR 118756 - 1.0 Minute Counts (Rev 5)[illegible]

α eff	β eff
0.3050	0.2320

Sample Count Time (min)	Daily Background Count Time (min)
1.0	20.0

dpm/100 cm ²	
α Flag	β Flag
200	200

* Morning Daily Count

seq. #	Sample ID# and Description	Date	Background Total Counts*		Sample Total Counts		Background (cpm)		Sample Counts (cpm)		Sample (dpm/100 cm ²)		> α flag	> β flag	Tech. Initial
			α	β	α	β	α	β	α	β					
1	GLNTC-05-018-01	7/22/2005	10	905	N/A	N/A	0.5	45.3	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	BNC
2	GLNTC-05-018-02	7/22/2005	10	905	N/A	N/A	0.5	45.3	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	BNC
3	GLNTC-05-018-03	7/22/2005	10	905	N/A	N/A	0.5	45.3	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	BNC
4	GLNTC-05-018-04	7/22/2005	10	905	N/A	N/A	0.5	45.3	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	BNC
5	GLNTC-05-018-05	7/22/2005	10	905	N/A	N/A	0.5	45.3	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	BNC
6	GLNTC-05-018-06	7/22/2005	10	905	0	59	0.5	45.3	0.00	59	-1.6	59			BNC
7	GLNTC-05-018-07	7/22/2005	10	905	0	50	0.5	45.3	0.00	50	-1.6	20			BNC
8	GLNTC-05-018-08	7/22/2005	10	905	0	48	0.5	45.3	0.00	48	-1.6	12			BNC
9	GLNTC-05-018-09	7/22/2005	10	905	0	46	0.5	45.3	0.00	46	-1.6	3			BNC
10	GLNTC-05-018-10	7/22/2005	10	905	1	41	0.5	45.3	1.00	41	1.6	-18			BNC
11	GLNTC-05-018-11	7/22/2005	10	905	0	56	0.5	45.3	0.00	56	-1.6	46			BNC
12	GLNTC-05-018-12	7/22/2005	10	905	0	53	0.5	45.3	0.00	53	-1.6	33			BNC
13	GLNTC-05-018-13	7/22/2005	10	905	0	51	0.5	45.3	0.00	51	-1.6	25			BNC
14	GLNTC-05-019-01	7/22/2005	10	905	N/A	N/A	0.5	45.3	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	BNC
15	GLNTC-05-019-02	7/22/2005	10	905	N/A	N/A	0.5	45.3	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	BNC
16	GLNTC-05-019-03	7/22/2005	10	905	0	64	0.5	45.3	0.00	64	-1.6	81			BNC
17	GLNTC-05-019-04	7/22/2005	10	905	2	82	0.5	45.3	2.00	82	4.9	158			WNB
18	GLNTC-05-019-05	7/22/2005	10	905	4	79	0.5	45.3	4.00	79	11.5	145			WNB
19	GLNTC-05-019-06	7/22/2005	10	905	0	80	0.5	45.3	0.00	80	-1.6	150			WNB
20	GLNTC-05-019-07	7/22/2005	10	905	1	68	0.5	45.3	1.00	68	1.6	98			WNB
21	GLNTC-05-019-08	7/22/2005	10	905	1	70	0.5	45.3	1.00	70	1.6	107			WNB
22	GLNTC-05-019-09	7/22/2005	10	905	1	84	0.5	45.3	1.00	84	1.6	167			WNB
23	GLNTC-05-019-10	7/22/2005	10	905	N/A	N/A	0.5	45.3	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
24	GLNTC-05-019-11	7/22/2005	10	905	N/A	N/A	0.5	45.3	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
25	GLNTC-05-019-12	7/22/2005	10	905	N/A	N/A	0.5	45.3	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
26	GLNTC-05-019-13	7/22/2005	10	905	N/A	N/A	0.5	45.3	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
27	GLNTC-05-019-14	7/22/2005	10	905	N/A	N/A	0.5	45.3	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
28	GLNTC-05-019-15	7/22/2005	10	905	N/A	N/A	0.5	45.3	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
29	GLNTC-05-019-16	7/22/2005	10	905	N/A	N/A	0.5	45.3	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
30	GLNTC-05-019-17	7/22/2005	10	905	N/A	N/A	0.5	45.3	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
31	GLNTC-05-020-01	7/22/2005	10	905	N/A	N/A	0.5	45.3	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
32	GLNTC-05-020-02	7/22/2005	10	905	N/A	N/A	0.5	45.3	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
33	GLNTC-05-020-03	7/22/2005	10	905	1	76	0.5	45.3	1.00	76	1.6	133			WNB
34	GLNTC-05-020-04	7/22/2005	10	905	0	75	0.5	45.3	0.00	75	-1.6	128			WNB
35	GLNTC-05-020-05	7/22/2005	10	905	0	72	0.5	45.3	0.00	72	-1.6	115			WNB
36	GLNTC-05-020-06	7/22/2005	10	905	0	75	0.5	45.3	0.00	75	-1.6	128			WNB
37	GLNTC-05-020-07	7/22/2005	10	905	4	74	0.5	45.3	4.00	74	11.5	124			WNB
38	GLNTC-05-020-08	7/22/2005	10	905	0	77	0.5	45.3	0.00	77	-1.6	137			WNB
39	GLNTC-05-020-09	7/22/2005	10	905	1	63	0.5	45.3	1.00	63	1.6	77			WNB
40	GLNTC-05-020-10	7/22/2005	10	905	0	87	0.5	45.3	0.00	87	-1.6	180			WNB
41	GLNTC-05-020-11	7/22/2005	10	905	0	62	0.5	45.3	0.00	62	-1.6	72			WNB
42	GLNTC-05-020-12	7/22/2005	10	905	1	58	0.5	45.3	1.00	58	1.6	55			WNB
43	GLNTC-05-020-13	7/22/2005	10	905	2	49	0.5	45.3	2.00	49	4.9	16			WNB
44	GLNTC-05-020-14	7/22/2005	10	905	1	60	0.5	45.3	1.00	60	1.6	64			WNB
45	GLNTC-05-023-01	7/22/2005	10	905	0	48	0.5	45.3	0.00	48	-1.6	12			WNB
46	GLNTC-05-023-02	7/22/2005	10	905	0	49	0.5	45.3	0.00	49	-1.6	16			WNB
47	GLNTC-05-023-03	7/22/2005	10	905	0	39	0.5	45.3	0.00	39	-1.6	-27			WNB
48	GLNTC-05-023-04	7/22/2005	10	905	1	42	0.5	45.3	1.00	42	1.6	-14			WNB
49	GLNTC-05-023-05	7/22/2005	10	905	0	56	0.5	45.3	0.00	56	-1.6	46			WNB
50	GLNTC-05-023-06	7/22/2005	10	905	0	58	0.5	45.3	0.00	58	-1.6	55			WNB
51	GLNTC-05-023-07	7/22/2005	10	905	0	40	0.5	45.3	0.00	40	-1.6	-23			WNB
52	GLNTC-05-024-01	7/25/2005	10	964	0	54	0.5	48.2	0.00	54	-1.6	25			WNB
53	GLNTC-05-024-02	7/25/2005	10	964	0	39	0.5	48.2	0.00	39	-1.6	-40			WNB
54	GLNTC-05-024-03	7/25/2005	10	964	0	41	0.5	48.2	0.00	41	-1.6	-31			WNB
55	GLNTC-05-024-04	7/25/2005	10	964	0	40	0.5	48.2	0.00	40	-1.6	-35			WNB
56	GLNTC-05-024-05	7/25/2005	10	964	1	63	0.5	48.2	1.00	63	1.6	64			WNB
57	GLNTC-05-024-06	7/25/2005	10	964	0	47	0.5	48.2	0.00	47	-1.6	-5			WNB
58	GLNTC-05-024-07	7/25/2005	10	964	0	42	0.5	48.2	0.00	42	-1.6	-27			WNB
59	GLNTC-05-024-08	7/25/2005	10	964	0	59	0.5	48.2	0.00	59	-1.6	47			WNB
60	GLNTC-05-024-09	7/25/2005	10	964	1	51	0.5	48.2	1.00	51	1.6	12			WNB
61	GLNTC-05-024-10	7/25/2005	10	964	0	49	0.5	48.2	0.00	49	-1.6	3			WNB
62	GLNTC-05-024-11	7/25/2005	10	964	1	46	0.5	48.2	1.00	46	1.6	-9			WNB
63	GLNTC-05-024-12	7/25/2005	10	964	0	55	0.5	48.2	0.00	55	-1.6	29			WNB
64	GLNTC-05-024-13	7/25/2005	10	964	1	52	0.5	48.2	1.00	52	1.6	16			WNB
65	GLNTC-05-025-01	7/25/2005	10	964	1	34	0.5	48.2	1.00	34	1.6	-61			WNB
66	GLNTC-05-025-02	7/25/2005	10	964	0	39	0.5	48.2	0.00	39	-1.6	-40			WNB
67	GLNTC-05-025-03	7/25/2005	10	964	0	35	0.5	48.2	0.00	35	-1.6	-57			WNB
68	GLNTC-05-025-04	7/25/2005	10	964	1	38	0.5	48.2	1.00	38	1.6	-44			WNB
69	GLNTC-05-025-05	7/25/2005	10	964	1	48	0.5	48.2	1.00	48	1.6	-1			WNB
70	GLNTC-05-025-06	7/25/2005	10	964	0	52	0.5	48.2	0.00	52	-1.6	16			WNB
71	GLNTC-05-025-07	7/25/2005	10	964	1	39	0.5	48.2	1.00	39	1.6	-40			WNB
72	GLNTC-05-025-08	7/25/2005	10	964	0	56	0.5	48.2	0.00	56	-1.6	34			WNB
73	GLNTC-05-025-09	7/25/2005	10	964	1	34	0.5	48.2	1.00	34	1.6	-61			WNB
74	GLNTC-05-025-10	7/25/2005	10	964	0	59	0.5	48.2	0.00	59	-1.6	47			WNB
75	GLNTC-05-025-11	7/25/2005	10	964	1	50	0.5	48.2	1.00	50	1.6	8			WNB
76	GLNTC-05-025-12	7/25/2005	10	964	0	53	0.5	48.2	0.00	53	-1.6	21			WNB
77	GLNTC-05-026-01	7/25/2005	10	964	0	50	0.5	48.2	0.00	50	-1.6	8			WNB
78	GLNTC-05-026-02	7/25/2005	10	964	0	33	0.5	48.2	0.00	33	-1.6	-66			WNB
79	GLNTC-05-026-03														

α eff	β eff
0.3050	0.2320

Sample Count Time (min)	Daily Background Count Time (min)
1.0	20.0

dpm/100 cm ²	
α Flag	β Flag
200	200

* Morning Daily Count

seq. #	Sample ID# and Description	Date	Background Total Counts*		Sample Total Counts		Background (cpm)		Sample Counts (cpm)		Sample (dpm/100 cm ²)		> α flag	> β flag	Tech. Initial
			α	β	α	β	α	β	α	β					
89	GLNTC-05-026-13	7/25/2005	10	964	0	55	0.5	48.2	0.00	55	-1.6	29			WNB
90	GLNTC-05-027-01	7/26/2005	9	964	0	35	0.5	48.2	0.00	35	-1.5	-57			LP
91	GLNTC-05-027-02	7/26/2005	9	964	0	34	0.5	48.2	0.00	34	-1.5	-61			LP
92	GLNTC-05-027-03	7/26/2005	9	964	0	52	0.5	48.2	0.00	52	-1.5	16			LP
93	GLNTC-05-027-04	7/26/2005	9	964	0	44	0.5	48.2	0.00	44	-1.5	-18			LP
94	GLNTC-05-027-05	7/26/2005	9	964	0	67	0.5	48.2	0.00	67	-1.5	81			LP
95	GLNTC-05-027-06	7/26/2005	9	964	1	48	0.5	48.2	1.00	48	1.8	-1			LP
96	GLNTC-05-027-07	7/26/2005	9	964	0	46	0.5	48.2	0.00	46	-1.5	-9			LP
97	GLNTC-05-027-08	7/26/2005	9	964	0	52	0.5	48.2	0.00	52	-1.5	16			LP
98	GLNTC-05-027-09	7/26/2005	9	964	2	48	0.5	48.2	2.00	48	5.1	-1			LP
99	GLNTC-05-027-10	7/26/2005	9	964	0	54	0.5	48.2	0.00	54	-1.5	25			LP
100	GLNTC-05-027-11	7/26/2005	9	964	0	61	0.5	48.2	0.00	61	-1.5	55			LP
101	GLNTC-05-027-12	7/26/2005	9	964	0	47	0.5	48.2	0.00	47	-1.5	-5			LP
102	GLNTC-05-027-13	7/26/2005	9	964	0	45	0.5	48.2	0.00	45	-1.5	-14			LP
103	GLNTC-05-029-01	7/27/2005	12	918	0	40	0.6	45.9	0.00	40	-2.0	-25			BNC
104	GLNTC-05-029-02	7/27/2005	12	918	0	42	0.6	45.9	0.00	42	-2.0	-17			BNC
105	GLNTC-05-029-03	7/27/2005	12	918	0	43	0.6	45.9	0.00	43	-2.0	-13			BNC
106	GLNTC-05-029-04	7/27/2005	12	918	0	59	0.6	45.9	0.00	59	-2.0	56			BNC
107	GLNTC-05-029-05	7/27/2005	12	918	0	41	0.6	45.9	0.00	41	-2.0	-21			BNC
108	GLNTC-05-029-06	7/27/2005	12	918	0	39	0.6	45.9	0.00	39	-2.0	-30			BNC
109	GLNTC-05-029-07	7/27/2005	12	918	0	38	0.6	45.9	0.00	38	-2.0	-34			BNC
110	GLNTC-05-029-08	7/27/2005	12	918	1	30	0.6	45.9	1.00	30	1.3	-69			BNC
111	GLNTC-05-029-09	7/27/2005	12	918	0	43	0.6	45.9	0.00	43	-2.0	-13			BNC
112	GLNTC-05-029-10	7/27/2005	12	918	0	46	0.6	45.9	0.00	46	-2.0	0			BNC
113	GLNTC-05-029-11	7/27/2005	12	918	0	52	0.6	45.9	0.00	52	-2.0	26			BNC
114	GLNTC-05-029-12	7/27/2005	12	918	0	43	0.6	45.9	0.00	43	-2.0	-13			BNC
115	GLNTC-05-029-13	7/27/2005	12	918	0	37	0.6	45.9	0.00	37	-2.0	-38			BNC
116	GLNTC-05-030-01	7/28/2005	8	933	0	47	0.4	46.7	0.00	47	-1.3	2			BNC
117	GLNTC-05-030-02	7/28/2005	8	933	0	43	0.4	46.7	0.00	43	-1.3	-16			BNC
118	GLNTC-05-030-03	7/28/2005	8	933	0	44	0.4	46.7	0.00	44	-1.3	-11			BNC
119	GLNTC-05-030-04	7/28/2005	8	933	0	40	0.4	46.7	0.00	40	-1.3	-29			BNC
120	GLNTC-05-030-05	7/28/2005	8	933	0	41	0.4	46.7	0.00	41	-1.3	-24			BNC
121	GLNTC-05-030-06	7/28/2005	8	933	0	57	0.4	46.7	0.00	57	-1.3	45			BNC
122	GLNTC-05-030-07	7/28/2005	8	933	0	44	0.4	46.7	0.00	44	-1.3	-11			BNC
123	GLNTC-05-030-08	7/28/2005	8	933	1	51	0.4	46.7	1.00	51	2.0	19			BNC
124	GLNTC-05-030-09	7/28/2005	8	933	0	55	0.4	46.7	0.00	55	-1.3	36			BNC
125	GLNTC-05-030-10	7/28/2005	8	933	0	52	0.4	46.7	0.00	52	-1.3	23			BNC
126	GLNTC-05-030-11	7/28/2005	8	933	0	45	0.4	46.7	0.00	45	-1.3	-7			BNC
127	GLNTC-05-030-12	7/28/2005	8	933	0	39	0.4	46.7	0.00	39	-1.3	-33			BNC
128	GLNTC-05-030-13	7/28/2005	8	933	0	44	0.4	46.7	0.00	44	-1.3	-11			BNC
129	GLNTC-05-031-01	7/29/2005	8	974	0	57	0.4	48.7	0.00	57	-1.3	36			WNB
130	GLNTC-05-031-02	7/29/2005	8	974	1	49	0.4	48.7	1.00	49	2.0	1			WNB
131	GLNTC-05-031-03	7/29/2005	8	974	0	45	0.4	48.7	0.00	45	-1.3	-16			WNB
132	GLNTC-05-031-04	7/29/2005	8	974	2	37	0.4	48.7	2.00	37	5.2	-50			WNB
133	GLNTC-05-031-05	7/29/2005	8	974	0	46	0.4	48.7	0.00	46	-1.3	-12			WNB
134	GLNTC-05-031-06	7/29/2005	8	974	0	39	0.4	48.7	0.00	39	-1.3	-42			WNB
135	GLNTC-05-031-07	7/29/2005	8	974	0	55	0.4	48.7	0.00	55	-1.3	27			WNB
136	GLNTC-05-031-08	7/29/2005	8	974	1	42	0.4	48.7	1.00	42	2.0	-29			WNB
137	GLNTC-05-031-09	7/29/2005	8	974	0	43	0.4	48.7	0.00	43	-1.3	-25			WNB
138	GLNTC-05-031-10	7/29/2005	8	974	2	47	0.4	48.7	2.00	47	5.2	-7			WNB
139	GLNTC-05-031-11	7/29/2005	8	974	0	51	0.4	48.7	0.00	51	-1.3	10			WNB
140	GLNTC-05-031-12	7/29/2005	8	974	0	45	0.4	48.7	0.00	45	-1.3	-16			WNB
141	GLNTC-05-032-01	7/29/2005	8	974	0	39	0.4	48.7	0.00	39	-1.3	-42			WNB
142	GLNTC-05-032-02	7/29/2005	8	974	0	44	0.4	48.7	0.00	44	-1.3	-20			WNB
143	GLNTC-05-032-03	7/29/2005	8	974	0	53	0.4	48.7	0.00	53	-1.3	19			WNB
144	GLNTC-05-032-04	7/29/2005	8	974	0	42	0.4	48.7	0.00	42	-1.3	-29			WNB
145	GLNTC-05-032-05	7/29/2005	8	974	0	43	0.4	48.7	0.00	43	-1.3	-25			WNB
146	GLNTC-05-032-06	7/29/2005	8	974	0	27	0.4	48.7	0.00	27	-1.3	-94			WNB
147	GLNTC-05-032-07	7/29/2005	8	974	0	29	0.4	48.7	0.00	29	-1.3	-85			WNB
148	GLNTC-05-032-08	7/29/2005	8	974	0	43	0.4	48.7	0.00	43	-1.3	-25			WNB
149	GLNTC-05-032-09	7/29/2005	8	974	0	42	0.4	48.7	0.00	42	-1.3	-29			WNB
150	GLNTC-05-032-10	7/29/2005	8	974	1	31	0.4	48.7	1.00	31	2.0	-76			WNB
151	GLNTC-05-032-11	7/29/2005	8	974	0	41	0.4	48.7	0.00	41	-1.3	-33			WNB
152	GLNTC-05-032-12	7/29/2005	8	974	0	39	0.4	48.7	0.00	39	-1.3	-42			WNB
153	GLNTC-05-032-13	7/29/2005	8	974	0	44	0.4	48.7	0.00	44	-1.3	-20			WNB
154	GLNTC-05-033-01	8/1/2005	5	964	0	44	0.3	48.2	0.00	44	-0.8	-18			WNB
155	GLNTC-05-033-02	8/1/2005	5	964	1	45	0.3	48.2	1.00	45	2.5	-14			WNB
156	GLNTC-05-033-03	8/1/2005	5	964	0	54	0.3	48.2	0.00	54	-0.8	25			WNB
157	GLNTC-05-033-04	8/1/2005	5	964	0	65	0.3	48.2	0.00	65	-0.8	72			WNB
158	GLNTC-05-033-05	8/1/2005	5	964	0	54	0.3	48.2	0.00	54	-0.8	25			WNB
159	GLNTC-05-033-06	8/1/2005	5	964	1	42	0.3	48.2	1.00	42	2.5	-27			WNB
160	GLNTC-05-033-07	8/1/2005	5	964	0	48	0.3	48.2	0.00	48	-0.8	-1			WNB
161	GLNTC-05-033-08	8/1/2005	5	964	0	37	0.3	48.2	0.00	37	-0.8	-48			WNB
162	GLNTC-05-033-09	8/1/2005	5	964	1	54	0.3	48.2	1.00	54	2.5	25			WNB
163	GLNTC-05-033-10	8/1/2005	5	964	0	42	0.3	48.2	0.00	42	-0.8	-27			WNB
164	GLNTC-05-033-11	8/1/2005	5	964	0	45	0.3	48.2	0.00	45	-0.8	-14			WNB
165	GLNTC-05-033-12	8/1/2005	5	964	0	40	0.3	48.2	0.00	40	-0.8	-35			WNB
166	GLNTC-05-033-13	8/1/2005	5	964	1	50	0.3	48.2	1.00	50	2.5	8			WNB

α eff	β eff
0.3050	0.2320

Sample Count Time (min)	Daily Background Count Time (min)
1.0	20.0

dpm/100 cm ²	
α Flag	β Flag
200	200

* Morning Daily Count

seq. #	Sample ID# and Description	Date	Background Total Counts*		Sample Total Counts		Background (cpm)		Sample Counts (cpm)		Sample (dpm/100 cm ²)		> α flag	> β flag	Tech. Initial
			α	β	α	β	α	β	α	β					
177	GLNTC-05-035-11	8/3/2005	6	949	0	51	0.3	47.5	0.00	51	-1.0	15			WNB
178	GLNTC-05-035-12	8/3/2005	6	949	0	42	0.3	47.5	0.00	42	-1.0	-23			WNB
179	GLNTC-05-035-13	8/3/2005	6	949	0	39	0.3	47.5	0.00	39	-1.0	-36			WNB
180	GLNTC-05-037-01	8/2/2005	11	976	0	47	0.6	48.8	0.00	47	-1.8	-8			LP
181	GLNTC-05-037-02	8/2/2005	11	976	1	45	0.6	48.8	1.00	45	1.5	-16			LP
182	GLNTC-05-037-03	8/2/2005	11	976	0	48	0.6	48.8	0.00	48	-1.8	-3			LP
183	GLNTC-05-037-04	8/2/2005	11	976	0	57	0.6	48.8	0.00	57	-1.8	35			LP
184	GLNTC-05-038-01	8/4/2005	5	937	1	44	0.3	46.9	1.00	44	2.5	-12			LP
185	GLNTC-05-038-02	8/4/2005	5	937	0	54	0.3	46.9	0.00	54	-0.8	31			LP
186	GLNTC-05-038-03	8/4/2005	5	937	1	43	0.3	46.9	1.00	43	2.5	-17			LP
187	GLNTC-05-038-04	8/4/2005	5	937	0	42	0.3	46.9	0.00	42	-0.8	-21			LP
188	GLNTC-05-039-01	8/3/2005	6	949	0	47	0.3	47.5	0.00	47	-1.0	-2			LP
189	GLNTC-05-039-02	8/3/2005	6	949	0	43	0.3	47.5	0.00	43	-1.0	-19			LP
190	GLNTC-05-040-01	8/3/2005	6	949	0	46	0.3	47.5	0.00	46	-1.0	-6			LP
191	GLNTC-05-040-02	8/3/2005	6	949	0	53	0.3	47.5	0.00	53	-1.0	24			LP
192	GLNTC-05-040-03	8/3/2005	6	949	0	49	0.3	47.5	0.00	49	-1.0	7			LP
193	GLNTC-05-041-01	8/4/2005	5	937	0	50	0.3	46.9	0.00	50	-0.8	14			LP
194	GLNTC-05-041-02	8/4/2005	5	937	0	48	0.3	46.9	0.00	48	-0.8	5			LP
195	GLNTC-05-041-03	8/4/2005	5	937	1	39	0.3	46.9	1.00	39	2.5	-34			LP
196	GLNTC-05-041-04	8/4/2005	5	937	0	56	0.3	46.9	0.00	56	-0.8	39			LP
197	GLNTC-05-042-01	8/4/2005	5	937	1	42	0.3	46.9	1.00	42	2.5	-21			LP
198	GLNTC-05-042-02	8/4/2005	5	937	2	42	0.3	46.9	2.00	42	5.7	-21			LP
199	GLNTC-05-042-03	8/4/2005	5	937	0	46	0.3	46.9	0.00	46	-0.8	-4			LP
200	GLNTC-05-045-01	8/4/2005	5	937	0	53	0.3	46.9	0.00	53	-0.8	27			LP
201	GLNTC-05-045-02	8/4/2005	5	937	0	43	0.3	46.9	0.00	43	-0.8	-17			LP
202	GLNTC-05-045-03	8/4/2005	5	937	0	52	0.3	46.9	0.00	52	-0.8	22			LP
203	GLNTC-05-045-04	8/4/2005	5	937	1	40	0.3	46.9	1.00	40	2.5	-30			LP
204	GLNTC-05-046-01	8/4/2005	5	937	1	48	0.3	46.9	1.00	48	2.5	5			LP
205	GLNTC-05-046-02	8/4/2005	5	937	0	49	0.3	46.9	0.00	49	-0.8	9			LP
206	GLNTC-05-046-03	8/4/2005	5	937	0	44	0.3	46.9	0.00	44	-0.8	-12			LP
207	GLNTC-05-046-04	8/4/2005	5	937	0	42	0.3	46.9	0.00	42	-0.8	-21			LP
208	GLNTC-05-047-01	8/4/2005	5	937	0	50	0.3	46.9	0.00	50	-0.8	14			WNB
209	GLNTC-05-047-02	8/4/2005	5	937	0	51	0.3	46.9	0.00	51	-0.8	18			WNB
210	GLNTC-05-047-03	8/4/2005	5	937	0	52	0.3	46.9	0.00	52	-0.8	22			WNB
211	GLNTC-05-048-01	8/4/2005	5	937	4	56	0.3	46.9	4.00	56	12.3	39			LP
212	GLNTC-05-048-02	8/4/2005	5	937	0	52	0.3	46.9	0.00	52	-0.8	22			LP
213	GLNTC-05-048-03	8/4/2005	5	937	0	45	0.3	46.9	0.00	45	-0.8	-8			LP
214	GLNTC-05-048-04	8/4/2005	5	937	0	56	0.3	46.9	0.00	56	-0.8	39			LP
215	GLNTC-05-048-05	8/4/2005	5	937	1	49	0.3	46.9	1.00	49	2.5	9			LP
216	GLNTC-05-048-06	8/4/2005	5	937	0	50	0.3	46.9	0.00	50	-0.8	14			LP
217	GLNTC-05-049-01	8/4/2005	5	937	1	54	0.3	46.9	1.00	54	2.5	31			WNB
218	GLNTC-05-050-01	8/4/2005	5	937	1	53	0.3	46.9	1.00	53	2.5	27			LP
219	GLNTC-05-050-02	8/4/2005	5	937	2	43	0.3	46.9	2.00	43	5.7	-17			LP
220	GLNTC-05-050-03	8/4/2005	5	937	0	56	0.3	46.9	0.00	56	-0.8	39			LP
221	GLNTC-05-051-01	8/4/2005	5	937	2	51	0.3	46.9	2.00	51	5.7	18			LP
222	GLNTC-05-051-02	8/4/2005	5	937	1	53	0.3	46.9	1.00	53	2.5	27			LP
223	GLNTC-05-052-01	8/4/2005	5	937	0	44	0.3	46.9	0.00	44	-0.8	-12			WNB
224	GLNTC-05-052-02	8/4/2005	5	937	1	39	0.3	46.9	1.00	39	2.5	-34			WNB
225	GLNTC-05-053-01	8/4/2005	5	937	0	49	0.3	46.9	0.00	49	-0.8	9			WNB
226	GLNTC-05-053-02	8/4/2005	5	937	0	45	0.3	46.9	0.00	45	-0.8	-8			WNB
227	GLNTC-05-054-01	8/4/2005	5	937	0	39	0.3	46.9	0.00	39	-0.8	-34			WNB
228	GLNTC-05-054-02	8/4/2005	5	937	2	41	0.3	46.9	2.00	41	5.7	-25			WNB
229	GLNTC-05-054-03	8/4/2005	5	937	1	40	0.3	46.9	1.00	40	2.5	-30			WNB
230	GLNTC-05-055-01	8/4/2005	5	937	0	39	0.3	46.9	0.00	39	-0.8	-34			LP
231	GLNTC-05-055-02	8/4/2005	5	937	2	42	0.3	46.9	2.00	42	5.7	-21			LP
232	GLNTC-05-055-03	8/4/2005	5	937	1	40	0.3	46.9	1.00	40	2.5	-30			LP
233	GLNTC-05-055-04	8/4/2005	5	937	2	45	0.3	46.9	2.00	45	5.7	-8			LP
234	GLNTC-05-055-05	8/4/2005	5	937	0	37	0.3	46.9	0.00	37	-0.8	-42			LP
235	GLNTC-05-055-06	8/4/2005	5	937	0	36	0.3	46.9	0.00	36	-0.8	-47			LP
236	GLNTC-05-055-07	8/4/2005	5	937	1	42	0.3	46.9	1.00	42	2.5	-21			LP
237	GLNTC-05-055-08	8/4/2005	5	937	0	40	0.3	46.9	0.00	40	-0.8	-30			LP
238	GLNTC-05-055-09	8/4/2005	5	937	0	45	0.3	46.9	0.00	45	-0.8	-8			LP
239	GLNTC-05-055-10	8/4/2005	5	937	0	39	0.3	46.9	0.00	39	-0.8	-34			LP
240	GLNTC-05-055-11	8/4/2005	5	937	1	40	0.3	46.9	1.00	40	2.5	-30			LP
241	GLNTC-05-055-12	8/4/2005	5	937	1	41	0.3	46.9	1.00	41	2.5	-25			LP
242	GLNTC-05-056-01	8/4/2005	5	937	0	35	0.3	46.9	0.00	35	-0.8	-51			LP
243	GLNTC-05-056-02	8/4/2005	5	937	0	48	0.3	46.9	0.00	48	-0.8	5			LP
244	GLNTC-05-056-03	8/4/2005	5	937	1	42	0.3	46.9	1.00	42	2.5	-21			LP
245	GLNTC-05-056-04	8/4/2005	5	937	3	39	0.3	46.9	3.00	39	9.0	-34			LP
246	GLNTC-05-057-01	8/4/2005	5	937	0	59	0.3	46.9	0.00	59	-0.8	52			WNB
247	GLNTC-05-057-02	8/4/2005	5	937	0	43	0.3	46.9	0.00	43	-0.8	-17			WNB
248	GLNTC-05-058-01	8/4/2005	5	937	2	42	0.3	46.9	2.00	42	5.7	-21			WNB
249	GLNTC-05-059-01	8/5/2005	15	943	4	40	0.8	47.2	4.00	40	10.7	-31			WNB
250	GLNTC-05-059-02	8/5/2005	15	943	2	39	0.8	47.2	2.00	39	4.1	-35			WNB
251	GLNTC-05-059-03	8/5/2005	15	943	1	41	0.8	47.2	1.00	41	0.8	-27			WNB
252	GLNTC-05-060-01	8/5/2005	15	943	0	35	0.8	47.2	0.00	35	-2.5	-52			WNB
253	GLNTC-05-061-01	8/5/2005	15	943	2	39	0.8	47.2	2.00	39	4.1	-35			WNB
254	GLNTC-05-061-02	8/5/2005	15	943	1	40	0.8	47.2	1.00	40	0.8	-31			WNB
255	GLNTC-05-061-03	8/5/2005	15	943	1	42	0.8								

α eff	β eff
0.3050	0.2320

Sample Count Time (min)	Daily Background Count Time (min)
1.0	20.0

dpm/100 cm ²	
α Flag	β Flag
200	200

* Morning Daily Count

seq. #	Sample ID# and Description	Date	Background Total Counts*		Sample Total Counts		Background (cpm)		Sample Counts (cpm)		Sample (dpm/100 cm ²)		> α flag	> β flag	Tech. Initial
			α	β	α	β	α	β	α	β	α	β			
265	GLNTC-05-061-13	8/5/2005	15	943	1	46	0.8	47.2	1.00	46	0.8	-5			WNB
266	GLNTC-05-062-01	8/5/2005	15	943	1	44	0.8	47.2	1.00	44	0.8	-14			WNB
267	GLNTC-05-062-02	8/5/2005	15	943	2	43	0.8	47.2	2.00	43	4.1	-18			WNB
268	GLNTC-05-062-03	8/5/2005	15	943	1	50	0.8	47.2	1.00	50	0.8	12			WNB
269	GLNTC-05-062-04	8/5/2005	15	943	2	48	0.8	47.2	2.00	48	4.1	4			WNB
270	GLNTC-05-062-05	8/5/2005	15	943	3	41	0.8	47.2	3.00	41	7.4	-27			WNB
271	GLNTC-05-062-06	8/5/2005	15	943	4	40	0.8	47.2	4.00	40	10.7	-31			WNB
272	GLNTC-05-062-07	8/5/2005	15	943	0	40	0.8	47.2	0.00	40	-2.5	-31			WNB
273	GLNTC-05-062-08	8/5/2005	15	943	2	42	0.8	47.2	2.00	42	4.1	-22			WNB
274	GLNTC-05-062-09	8/5/2005	15	943	0	41	0.8	47.2	0.00	41	-2.5	-27			WNB
275	GLNTC-05-062-10	8/5/2005	15	943	0	39	0.8	47.2	0.00	39	-2.5	-35			WNB
276	GLNTC-05-062-11	8/5/2005	15	943	0	40	0.8	47.2	0.00	40	-2.5	-31			WNB
277	GLNTC-05-062-12	8/5/2005	15	943	2	43	0.8	47.2	2.00	43	4.1	-18			WNB
278	GLNTC-05-063-01	8/5/2005	15	943	2	39	0.8	47.2	2.00	39	4.1	-35			WNB
279	GLNTC-05-063-02	8/5/2005	15	943	1	40	0.8	47.2	1.00	40	0.8	-31			WNB
280	GLNTC-05-063-03	8/5/2005	15	943	0	42	0.8	47.2	0.00	42	-2.5	-22			WNB
281	GLNTC-05-063-04	8/5/2005	15	943	1	37	0.8	47.2	1.00	37	0.8	-44			WNB
282	GLNTC-05-063-05	8/5/2005	15	943	3	39	0.8	47.2	3.00	39	7.4	-35			WNB
283	GLNTC-05-063-06	8/5/2005	15	943	4	40	0.8	47.2	4.00	40	10.7	-31			WNB
284	GLNTC-05-063-07	8/5/2005	15	943	2	41	0.8	47.2	2.00	41	4.1	-27			WNB

N/A indicates that smear samples for that particular piece of equipment were not collected because they were not in use since the previous smear sample was collected.

Smear/Static Worksheet - Ludlum 2224-1 S/N 162426 w/ Ludlum 43-93 S/N PR 193921 - 0.5 Minute Counts (Rev 5)

Counting Instrument:			Ludlum 2224-1		Detector:		Ludlum 43-93		Calibration Date:		8/3/2005							
Serial #:			162426		Serial #:		PR 193921		12 month calibration:		OK							
Detector Active Area or Area Covered by Smear (cm ²):							100		NRC 6 Mo Cal. Due Date?		OK							
	Efficiency (fraction)	Source Nuclide	Source Number	Original Source Activity (DPM)	Source Creation Date	T _{1/2} (yr)	Source Decayed Activity	Required MDA (DPM/100cm ²)	Control Chart & Daily Bkg Count Time	Control Chart & Daily Source- Sample Count Time	Control Chart bkg Average α/β cpm	Control Chart bkg 1 sigma, cpm	Control Chart Source-bkg Average α/β cpm	Control Chart source 1 sigma, cpm				
Alpha	0.2190	Th-230	99Th4700992	5,380	5/1/1999	7.54E+04	5,380	200	0.5	0.5	#DIV/0!	#DIV/0!	#DIV/0!	#VALUE!				
Beta	0.2050	Tc-99	1903-04	27,800	3/30/2004	2.11E+05	27,800	200	0.5	0.5	#DIV/0!	#DIV/0!	#DIV/0!	#VALUE!				
Date	Daily Bkg Counts		Daily Check Source Counts		Daily Bkg Rate (cpm)		Net Daily Source Rate (cpm)		Bkg QC Pass/Fail		Source QC Pass/Fail		MDA α (dpm)	MDA β (dpm)	α MDA OK?	β MDA OK?	H.P. Technician	Technician Initials
	Alpha	Beta	Alpha	Beta	Alpha	Beta	Alpha	Beta	Alpha	Beta	Alpha	Beta						
7/7/2005	2	101	1068	5437	4.0	202.0	2132.0	10672.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	87.49	485	Yes	No	Beverle	BNC
7/8/2005	3	108	1046	5428	6.0	216.0	2086.0	10640.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	100.99	501	Yes	No	Beverle	BNC
7/11/2005	3	102	1103	5572	6.0	204.0	2200.0	10940.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	100.99	488	Yes	No	Neil	WNB
7/12/2005	3	105	1106	5319	6.0	210.0	2206.0	10428.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	100.99	494	Yes	No	Neil	WNB
7/13/2005	2	95	1096	5407	4.0	190.0	2188.0	10624.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	87.49	472	Yes	No	Neil	WNB
7/14/2005	3	101	1064	5370	6.0	202.0	2122.0	10538.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	100.99	485	Yes	No	Neil	WNB
7/15/2005	2	105	1109	5666	4.0	210.0	2214.0	11122.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	87.49	494	Yes	No	Neil	WNB
7/18/2005	3	101	1058	5494	6.0	202.0	2110.0	10786.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	100.99	485	Yes	No	Neil	WNB
7/19/2005	2	108	1082	5218	4.0	216.0	2160.0	10220.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	87.49	501	Yes	No	Beverle	BNC
7/21/2005	4	106	1128	5777	8.0	212.0	2248.0	11342.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	112.38	497	Yes	No	Beverle	BNC
7/22/2005	4	106	1142	5731	8.0	212.0	2276.0	11250.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	112.38	497	Yes	No	Beverle	BNC

α eff	β eff
0.2190	0.2050

Sample Count Time (min)	Daily Background Count Time (min)
0.5	0.5

dpm/100 cm ²	
α Flag	β Flag
200	200

* Morning Daily Count

seq. #	Sample ID# and Description	Date	Background Total Counts*		Sample Total Counts		Background (cpm)		Sample Counts (cpm)		Sample (dpm/100 cm ²)		> α flag	> β flag	Tech. Initial
			α	β	α	β	α	β	α	β					
1	Test Truck	7/7/2005	2	101	23	121	4.0	202.0	46.00	242	191.8	195			BNC
2	BFLU 000280 F	7/7/2005	2	101	1	106	4.0	202.0	2.00	212	-9.1	49			BNC
3	BFLU 000280 B	7/7/2005	2	101	1	105	4.0	202.0	2.00	210	-9.1	39			BNC
4	BFLU 000280 R	7/7/2005	2	101	1	82	4.0	202.0	2.00	164	-9.1	-185			BNC
5	BFLU 000280 L	7/7/2005	2	101	2	94	4.0	202.0	4.00	188	0.0	-68			BNC
6	BFLU 000233 F	7/7/2005	2	101	0	110	4.0	202.0	0.00	220	-18.3	88			BNC
7	BFLU 000233 B	7/7/2005	2	101	1	101	4.0	202.0	2.00	202	-9.1	0			BNC
8	BFLU 000233 R	7/7/2005	2	101	3	106	4.0	202.0	6.00	212	9.1	49			BNC
9	BFLU 000233 L	7/7/2005	2	101	3	109	4.0	202.0	6.00	218	9.1	78			BNC
10	BFLU 00156 F	7/7/2005	2	101	5	103	4.0	202.0	10.00	206	27.4	20			BNC
11	BFLU 00156 B	7/7/2005	2	101	2	100	4.0	202.0	4.00	200	0.0	-10			BNC
12	BFLU 00156 R	7/7/2005	2	101	1	95	4.0	202.0	2.00	190	-9.1	-59			BNC
13	BFLU 00156 L	7/7/2005	2	101	0	83	4.0	202.0	0.00	166	-18.3	-176			BNC
14	BFLU 000217 F	7/7/2005	2	101	7	116	4.0	202.0	14.00	232	45.7	146			BNC
15	BFLU 000217 R	7/7/2005	2	101	2	85	4.0	202.0	4.00	170	0.0	-156			BNC
16	BFLU 000217 B	7/7/2005	2	101	5	91	4.0	202.0	10.00	182	27.4	-98			BNC
17	BFLU 000217 L	7/7/2005	2	101	1	106	4.0	202.0	2.00	212	-9.1	49			BNC
18	BFLU 000200 F	7/7/2005	2	101	7	88	4.0	202.0	14.00	176	45.7	-127			BNC
19	BFLU 000200 R	7/7/2005	2	101	13	99	4.0	202.0	26.00	198	100.5	-20			BNC
20	BFLU 000200 B	7/7/2005	2	101	9	117	4.0	202.0	18.00	234	63.9	156			BNC
21	BFLU 000200 L	7/7/2005	2	101	5	112	4.0	202.0	10.00	224	27.4	107			BNC
22	BFLU 000365 F	7/7/2005	2	101	1	105	4.0	202.0	2.00	210	-9.1	39			BNC
23	BFLU 000365 R	7/7/2005	2	101	2	81	4.0	202.0	4.00	162	0.0	-195			BNC
24	BFLU 000365 B	7/7/2005	2	101	10	85	4.0	202.0	20.00	170	73.1	-156			BNC
25	BFLU 000365 L	7/7/2005	2	101	11	93	4.0	202.0	22.00	186	82.2	-78			BNC
26	BFLU 000153 F	7/7/2005	2	101	3	104	4.0	202.0	6.00	208	9.1	29			BNC
27	BFLU 000153 R	7/7/2005	2	101	4	99	4.0	202.0	8.00	198	18.3	-20			BNC
28	BFLU 000153 B	7/7/2005	2	101	0	93	4.0	202.0	0.00	186	-18.3	-78			BNC
29	BFLU 000153 L	7/7/2005	2	101	1	95	4.0	202.0	2.00	190	-9.1	-59			BNC
30	AWIU 000195 F	7/7/2005	2	101	10	87	4.0	202.0	20.00	174	73.1	-137			BNC
31	AWIU 000195 R	7/7/2005	2	101	6	114	4.0	202.0	12.00	228	36.5	127			BNC
32	AWIU 000195 B	7/7/2005	2	101	2	115	4.0	202.0	4.00	230	0.0	137			BNC
33	AWIU 000195 L	7/7/2005	2	101	8	109	4.0	202.0	16.00	218	54.8	78			BNC
34	BFLU 000381 F	7/7/2005	2	101	4	103	4.0	202.0	8.00	206	18.3	20			BNC
35	BFLU 000381 R	7/7/2005	2	101	4	95	4.0	202.0	8.00	190	18.3	-59			BNC
36	BFLU 000381 B	7/7/2005	2	101	2	96	4.0	202.0	4.00	192	0.0	-49			BNC
37	BFLU 000381 L	7/7/2005	2	101	4	92	4.0	202.0	8.00	184	18.3	-88			BNC
38	Test Truck	7/8/2005	3	108	24	128	6.0	216.0	48.00	256	191.8	195			WNB
39	Link-Belt 225 10	7/8/2005	3	108	1	87	0.0	0.5	2.00	174	-18.3	-205			WNB
40	Link-Belt 225 11	7/8/2005	3	108	2	84	0.0	0.5	4.00	168	-9.1	-234			WNB
41	Link-Belt 225 12	7/8/2005	3	108	0	89	0.0	0.5	0.00	178	-27.4	-185			WNB
42	Link-Belt 225 13	7/8/2005	3	108	4	95	0.0	0.5	8.00	190	9.1	-127			WNB
43	Link-Belt 225 14	7/8/2005	3	108	1	94	0.0	0.5	2.00	188	-18.3	-137			WNB
44	Link-Belt 225 15	7/8/2005	3	108	1	99	0.0	0.5	2.00	198	-18.3	-88			WNB
45	Link-Belt 225 16	7/8/2005	3	108	0	102	0.0	0.5	0.00	204	-27.4	-59			WNB
46	BFLU 000015 F	7/8/2005	3	108	5	106	6.0	216.0	10.00	212	18.3	-20			WNB
47	BFLU 000015 R	7/8/2005	3	108	2	91	6.0	216.0	4.00	182	-9.1	-166			WNB
48	BFLU 000015 B	7/8/2005	3	108	3	95	6.0	216.0	6.00	190	0.0	-127			WNB
49	BFLU 000015 L	7/8/2005	3	108	1	98	6.0	216.0	2.00	196	-18.3	-98			WNB
50	BFLU 000007 F	7/8/2005	3	108	2	92	6.0	216.0	4.00	184	-9.1	-156			WNB
51	BFLU 000007 R	7/8/2005	3	108	1	97	6.0	216.0	2.00	194	-18.3	-107			WNB
52	BFLU 000007 B	7/8/2005	3	108	4	72	6.0	216.0	8.00	144	9.1	-351			WNB
53	BFLU 000007 L	7/8/2005	3	108	7	112	6.0	216.0	14.00	224	36.5	39			WNB
54	BFLU 000010 F	7/8/2005	3	108	10	121	6.0	216.0	20.00	242	63.9	127			WNB
55	BFLU 000010 R	7/8/2005	3	108	3	91	6.0	216.0	6.00	182	0.0	-166			WNB
56	BFLU 000010 B	7/8/2005	3	108	6	105	6.0	216.0	12.00	210	27.4	-29			WNB
57	BFLU 000010 L	7/8/2005	3	108	2	110	6.0	216.0	4.00	220	-9.1	20			WNB
58	BFLU 000410 F	7/8/2005	3	108	3	115	6.0	216.0	6.00	230	0.0	68			WNB
59	BFLU 000410 R	7/8/2005	3	108	1	94	6.0	216.0	2.00	188	-18.3	-137			WNB
60	BFLU 000410 B	7/8/2005	3	108	3	94	6.0	216.0	6.00	188	0.0	-137			WNB
61	BFLU 000410 L	7/8/2005	3	108	1	100	6.0	216.0	2.00	200	-18.3	-78			WNB
62	BFLU 000017 F	7/8/2005	3	108	3	113	6.0	216.0	6.00	226	0.0	49			WNB
63	BFLU 000017 R	7/8/2005	3	108	1	94	6.0	216.0	2.00	188	-18.3	-137			WNB
64	BFLU 000017 B	7/8/2005	3	108	4	103	6.0	216.0	8.00	206	9.1	-49			WNB
65	BFLU 000017 L	7/8/2005	3	108	1	97	6.0	216.0	2.00	194	-18.3	-107			WNB
66	BFLU 000012 F	7/8/2005	3	108	3	113	6.0	216.0	6.00	226	0.0	49			WNB
67	BFLU 000012 R	7/8/2005	3	108	4	98	6.0	216.0	8.00	196	9.1	-98			WNB
68	BFLU 000012 B	7/8/2005	3	108	13	127	6.0	216.0	26.00	254	91.3	185			WNB
69	BFLU 000012 L	7/8/2005	3	108	3	106	6.0	216.0	6.00	212	0.0	-20			WNB
70	BFLU 000024 F	7/8/2005	3	108	7	102	6.0	216.0	14.00	204	36.5	-59			WNB
71	BFLU 000024 R	7/8/2005	3	108	0	118	6.0	216.0	0.00	236	-27.4	98			WNB
72	BFLU 000024 B	7/8/2005	3	108	5	102	6.0	216.0	10.00	204	18.3	-59			WNB
73	BFLU 000024 L	7/8/2005	3	108	1	84	6.0	216.0	2.00	168	-18.3	-234			WNB
74	BFLU 000086 F	7/8/2005	3	108	2	119	6.0	216.0	4.00	238	-9.1	107			WNB
75	BFLU 000086 R	7/8/2005	3	108	3	104	6.0	216.0	6.00	208	0.0	-39			WNB
76	BFLU 000086 B	7/8/2005	3	108	4	106	6.0	216.0	8.00	212	9.1	-20			WNB
77	BFLU 000086 L	7/8/2005	3	108	3	76	6.0	216.0	6.00	152	0.0	-312			WNB
78	BFLU 000159 F	7/8/2005	3	108	5	111	6.0	216.0	10.00	222	18.3	29			WNB
79	BFLU 000159 R	7/8/2005	3	108	5</										

α eff	β eff
0.2190	0.2050

Sample Count Time (min)	Daily Background Count Time (min)
0.5	0.5

dpm/100 cm ²	
α Flag	β Flag
200	200

* Morning Daily Count

seq. #	Sample ID# and Description	Date	Background Total Counts*		Sample Total Counts		Background (cpm)		Sample Counts (cpm)		Sample (dpm/100 cm ²)		> α flag	> β flag	Tech. Initial
			α	β	α	β	α	β	α	β					
91	BFLU 000034 F	7/11/2005	3	102	5	95	6.0	204.0	10.00	190	18.3	-68			WNB
92	BFLU 000034 R	7/11/2005	3	102	1	116	6.0	204.0	2.00	232	-18.3	137			WNB
93	BFLU 000034 B	7/11/2005	3	102	4	74	6.0	204.0	8.00	148	9.1	-273			WNB
94	BFLU 000034 L	7/11/2005	3	102	2	95	6.0	204.0	4.00	190	-9.1	-68			WNB
95	BFLU 000401 F	7/11/2005	3	102	2	111	6.0	204.0	4.00	222	-9.1	88			WNB
96	BFLU 000401 R	7/11/2005	3	102	2	93	6.0	204.0	4.00	186	-9.1	-88			WNB
97	BFLU 000401 B	7/11/2005	3	102	0	110	6.0	204.0	0.00	220	-27.4	78			WNB
98	BFLU 000401 L	7/11/2005	3	102	3	95	6.0	204.0	6.00	190	0.0	-68			WNB
99	BFLU 000387 F	7/11/2005	3	102	1	79	6.0	204.0	2.00	158	-18.3	-224			WNB
100	BFLU 000387 R	7/11/2005	3	102	3	101	6.0	204.0	6.00	202	0.0	-10			WNB
101	BFLU 000387 B	7/11/2005	3	102	0	103	6.0	204.0	0.00	206	-27.4	10			WNB
102	BFLU 000387 L	7/11/2005	3	102	0	91	6.0	204.0	0.00	182	-27.4	-107			WNB
103	BFLU 000314 F	7/11/2005	3	102	0	109	6.0	204.0	0.00	218	-27.4	68			WNB
104	BFLU 000314 R	7/11/2005	3	102	0	102	6.0	204.0	0.00	204	-27.4	0			WNB
105	BFLU 000314 B	7/11/2005	3	102	0	109	6.0	204.0	0.00	218	-27.4	68			WNB
106	BFLU 000314 L	7/11/2005	3	102	1	89	6.0	204.0	2.00	178	-18.3	-127			WNB
107	BFLU 000102 F	7/11/2005	3	102	2	74	6.0	204.0	4.00	148	-9.1	-273			WNB
108	BFLU 000102 R	7/11/2005	3	102	3	103	6.0	204.0	6.00	206	0.0	10			WNB
109	BFLU 000102 B	7/11/2005	3	102	4	96	6.0	204.0	8.00	192	9.1	-59			WNB
110	BFLU 000102 L	7/11/2005	3	102	5	101	6.0	204.0	10.00	202	18.3	-10			WNB
111	BFLU 000138 F	7/11/2005	3	102	16	101	6.0	204.0	32.00	202	118.7	-10			WNB
112	BFLU 000138 R	7/11/2005	3	102	8	127	6.0	204.0	16.00	254	45.7	244		FLAG	WNB
113	BFLU 000138 B	7/11/2005	3	102	6	136	6.0	204.0	12.00	272	27.4	332		FLAG	WNB
114	BFLU 000138 L	7/11/2005	3	102	3	129	6.0	204.0	6.00	258	0.0	263		FLAG	WNB
115	BFLU 000080 F	7/11/2005	3	102	2	79	6.0	204.0	4.00	158	-9.1	-224			WNB
116	BFLU 000080 R	7/11/2005	3	102	3	97	6.0	204.0	6.00	194	0.0	-49			WNB
117	BFLU 000080 B	7/11/2005	3	102	4	97	6.0	204.0	8.00	194	9.1	-49			WNB
118	BFLU 000080 L	7/11/2005	3	102	0	106	6.0	204.0	0.00	212	-27.4	39			WNB
119	BFLU 000093 F	7/11/2005	3	102	8	108	6.0	204.0	16.00	216	45.7	59			WNB
120	BFLU 000093 R	7/11/2005	3	102	3	115	6.0	204.0	6.00	230	0.0	127			WNB
121	BFLU 000093 B	7/11/2005	3	102	4	116	6.0	204.0	8.00	232	9.1	137			WNB
122	BFLU 000093 L	7/11/2005	3	102	8	100	6.0	204.0	16.00	200	45.7	-20			WNB
123	BFLU 000073 F	7/11/2005	3	102	1	117	6.0	204.0	2.00	234	-18.3	146			WNB
124	BFLU 000073 R	7/11/2005	3	102	5	120	6.0	204.0	10.00	240	18.3	176			WNB
125	BFLU 000073 B	7/11/2005	3	102	5	115	6.0	204.0	10.00	230	18.3	127			WNB
126	BFLU 000073 L	7/11/2005	3	102	8	115	6.0	204.0	16.00	230	45.7	127			WNB
127	BFLU 000335 F	7/11/2005	3	102	3	109	6.0	204.0	6.00	218	0.0	68			WNB
128	BFLU 000335 R	7/11/2005	3	102	4	109	6.0	204.0	8.00	218	9.1	68			WNB
129	BFLU 000335 B	7/11/2005	3	102	1	92	6.0	204.0	2.00	184	-18.3	-98			WNB
130	BFLU 000335 L	7/11/2005	3	102	0	81	6.0	204.0	0.00	162	-27.4	-205			WNB
131	Test Truck	7/12/2005	3	105	24	125	6.0	210.0	48.00	250	191.8	195			WNB
132	BFLU 000197 F	7/12/2005	3	105	12	121	6.0	210.0	24.00	242	82.2	156			WNB
133	BFLU 000197 R	7/12/2005	3	105	2	117	6.0	210.0	4.00	234	-9.1	117			WNB
134	BFLU 000197 B	7/12/2005	3	105	4	106	6.0	210.0	8.00	212	9.1	10			WNB
135	BFLU 000197 L	7/12/2005	3	105	2	98	6.0	210.0	4.00	196	-9.1	-68			WNB
136	BFLU 000393 F	7/12/2005	3	105	4	98	6.0	210.0	8.00	196	9.1	-68			WNB
137	BFLU 000393 R	7/12/2005	3	105	1	96	6.0	210.0	2.00	192	-18.3	-88			WNB
138	BFLU 000393 B	7/12/2005	3	105	2	111	6.0	210.0	4.00	222	-9.1	59			WNB
139	BFLU 000393 L	7/12/2005	3	105	2	89	6.0	210.0	4.00	178	-9.1	-156			WNB
140	BFLU 000088 F	7/12/2005	3	105	5	88	6.0	210.0	10.00	176	18.3	-166			WNB
141	BFLU 000088 R	7/12/2005	3	105	4	114	6.0	210.0	8.00	228	9.1	88			WNB
142	BFLU 000088 B	7/12/2005	3	105	1	106	6.0	210.0	2.00	212	-18.3	10			WNB
143	BFLU 000088 L	7/12/2005	3	105	6	89	6.0	210.0	12.00	178	27.4	-156			WNB
144	BFLU 000311 F	7/12/2005	3	105	1	96	6.0	210.0	2.00	192	-18.3	-88			WNB
145	BFLU 000311 R	7/12/2005	3	105	2	90	6.0	210.0	4.00	180	-9.1	-146			WNB
146	BFLU 000311 B	7/12/2005	3	105	1	91	6.0	210.0	2.00	182	-18.3	-137			WNB
147	BFLU 000311 L	7/12/2005	3	105	0	99	6.0	210.0	0.00	198	-27.4	-59			WNB
148	BFLU 000022 F	7/12/2005	3	105	2	106	6.0	210.0	4.00	212	-9.1	10			WNB
149	BFLU 000022 R	7/12/2005	3	105	3	97	6.0	210.0	6.00	194	0.0	-78			WNB
150	BFLU 000022 B	7/12/2005	3	105	3	97	6.0	210.0	6.00	194	0.0	-78			WNB
151	BFLU 000022 L	7/12/2005	3	105	5	88	6.0	210.0	10.00	176	18.3	-166			WNB
152	BFLU 000383 F	7/12/2005	3	105	2	109	6.0	210.0	4.00	218	-9.1	39			WNB
153	BFLU 000383 R	7/12/2005	3	105	1	79	6.0	210.0	2.00	158	-18.3	-254			WNB
154	BFLU 000383 B	7/12/2005	3	105	2	96	6.0	210.0	4.00	192	-9.1	-88			WNB
155	BFLU 000383 L	7/12/2005	3	105	3	90	6.0	210.0	6.00	180	0.0	-146			WNB
156	BFLU 000162 F	7/12/2005	3	105	3	103	6.0	210.0	6.00	206	0.0	-20			WNB
157	BFLU 000162 R	7/12/2005	3	105	0	93	6.0	210.0	0.00	186	-27.4	-117			WNB
158	BFLU 000162 B	7/12/2005	3	105	0	95	6.0	210.0	0.00	190	-27.4	-98			WNB
159	BFLU 000162 L	7/12/2005	3	105	0	96	6.0	210.0	0.00	192	-27.4	-88			WNB
160	BFLU 000109 F	7/12/2005	3	105	4	93	6.0	210.0	8.00	186	9.1	-117			WNB
161	BFLU 000109 R	7/12/2005	3	105	2	90	6.0	210.0	4.00	180	-9.1	-146			WNB
162	BFLU 000109 B	7/12/2005	3	105	2	107	6.0	210.0	4.00	214	-9.1	20			WNB
163	BFLU 000109 L	7/12/2005	3	105	0	104	6.0	210.0	0.00	208	-27.4	-10			WNB
164	BFLU 000161 F	7/12/2005	3	105	1	86	6.0	210.0	2.00	172	-18.3	-185			WNB
165	BFLU 000161 R	7/12/2005	3	105	3	95	6.0	210.0	6.00	190	0.0	-98			WNB
166	BFLU 000161 B	7/12/2005	3	105	1	91	6.0	210.0	2.00	182	-18.3	-137			WNB
167	BFLU 000161 L	7/12/2005	3	105	3	93	6.0	210.0	6.00	186	0.0	-117			

α eff	β eff
0.2190	0.2050

Sample Count Time (min)	Daily Background Count Time (min)
0.5	0.5

dpm/100 cm ²	
α Flag	β Flag
200	200

* Morning Daily Count

seq. #	Sample ID# and Description	Date	Background Total Counts*		Sample Total Counts		Background (cpm)		Sample Counts (cpm)		Sample (dpm/100 cm ²)		> α flag	> β flag	Tech. Initial
			α	β	α	β	α	β	α	β					
181	BFLU 000358 F	7/13/2005	2	95	1	101	4.0	190.0	2.00	202	-9.1	59			WNB
182	BFLU 000358 R	7/13/2005	2	95	0	97	4.0	190.0	0.00	194	-18.3	20			WNB
183	BFLU 000358 B	7/13/2005	2	95	0	94	4.0	190.0	0.00	188	-18.3	-10			WNB
184	BFLU 000358 L	7/13/2005	2	95	1	95	4.0	190.0	2.00	190	-9.1	0			WNB
185	BFLU 000246 F	7/13/2005	2	95	2	101	4.0	190.0	4.00	202	0.0	59			WNB
186	BFLU 000246 R	7/13/2005	2	95	0	110	4.0	190.0	0.00	220	-18.3	146			WNB
187	BFLU 000246 B	7/13/2005	2	95	3	66	4.0	190.0	6.00	132	9.1	-283			WNB
188	BFLU 000246 L	7/13/2005	2	95	1	93	4.0	190.0	2.00	186	-9.1	-20			WNB
189	AWIU 000188 F	7/13/2005	2	95	1	100	4.0	190.0	2.00	200	-9.1	49			WNB
190	AWIU 000188 R	7/13/2005	2	95	0	98	4.0	190.0	0.00	196	-18.3	29			WNB
191	AWIU 000188 B	7/13/2005	2	95	1	74	4.0	190.0	2.00	148	-9.1	-205			WNB
192	AWIU 000188 L	7/13/2005	2	95	0	101	4.0	190.0	0.00	202	-18.3	59			WNB
193	AWIU 000215 F	7/13/2005	2	95	1	97	4.0	190.0	2.00	194	-9.1	20			WNB
194	AWIU 000215 R	7/13/2005	2	95	1	99	4.0	190.0	2.00	198	-9.1	39			WNB
195	AWIU 000215 B	7/13/2005	2	95	0	88	4.0	190.0	0.00	176	-18.3	-68			WNB
196	AWIU 000215 L	7/13/2005	2	95	1	99	4.0	190.0	2.00	198	-9.1	39			WNB
197	AWIU 000159 F	7/13/2005	2	95	1	114	4.0	190.0	2.00	228	-9.1	185			WNB
198	AWIU 000159 R	7/13/2005	2	95	1	94	4.0	190.0	2.00	188	-9.1	-10			WNB
199	AWIU 000159 B	7/13/2005	2	95	3	105	4.0	190.0	6.00	210	9.1	98			WNB
200	AWIU 000159 L	7/13/2005	2	95	2	74	4.0	190.0	4.00	148	0.0	-205			WNB
201	ECCU 006078 F	7/13/2005	2	95	0	90	4.0	190.0	0.00	180	-18.3	-49			WNB
202	ECCU 006078 R	7/13/2005	2	95	1	107	4.0	190.0	2.00	214	-9.1	117			WNB
203	ECCU 006078 B	7/13/2005	2	95	1	112	4.0	190.0	2.00	224	-9.1	166			WNB
204	ECCU 006078 L	7/13/2005	2	95	2	102	4.0	190.0	4.00	204	0.0	68			WNB
205	BFLU 000296 F	7/13/2005	2	95	2	104	4.0	190.0	4.00	208	0.0	88			WNB
206	BFLU 000296 R	7/13/2005	2	95	4	100	4.0	190.0	8.00	200	18.3	49			WNB
207	BFLU 000296 B	7/13/2005	2	95	1	107	4.0	190.0	2.00	214	-9.1	117			WNB
208	BFLU 000296 L	7/13/2005	2	95	3	95	4.0	190.0	6.00	190	9.1	0			WNB
209	NVRU 200521 F	7/13/2005	2	95	1	89	4.0	190.0	2.00	178	-9.1	-59			WNB
210	NVRU 200521 R	7/13/2005	2	95	2	114	4.0	190.0	4.00	228	0.0	185			WNB
211	NVRU 200521 F	7/13/2005	2	95	3	110	4.0	190.0	6.00	220	9.1	146			WNB
212	NVRU 200521 F	7/13/2005	2	95	2	104	4.0	190.0	4.00	208	0.0	88			WNB
213	Test Truck	7/14/2005	3	101	24	121	6.0	202.0	48.00	242	191.8	195			WNB
214	GNC 20016 F	7/14/2005	3	101	1	99	6.0	202.0	2.00	198	-18.3	-20			WNB
215	GNC 20016 R	7/14/2005	3	101	4	91	6.0	202.0	8.00	182	9.1	-98			WNB
216	GNC 20016 B	7/14/2005	3	101	2	103	6.0	202.0	4.00	206	-9.1	20			WNB
217	GNC 20016 L	7/14/2005	3	101	3	101	6.0	202.0	6.00	202	0.0	0			WNB
218	ECCU 006012 F	7/14/2005	3	101	1	77	6.0	202.0	2.00	154	-18.3	-234			WNB
219	ECCU 006012 R	7/14/2005	3	101	1	85	6.0	202.0	2.00	170	-18.3	-156			WNB
220	ECCU 006012 B	7/14/2005	3	101	4	108	6.0	202.0	8.00	216	9.1	68			WNB
221	ECCU 006012 L	7/14/2005	3	101	1	85	6.0	202.0	2.00	170	-18.3	-156			WNB
222	NVRU 200552 F	7/14/2005	3	101	1	97	6.0	202.0	2.00	194	-18.3	-39			WNB
223	NVRU 200552 R	7/14/2005	3	101	3	87	6.0	202.0	6.00	174	0.0	-137			WNB
224	NVRU 200552 B	7/14/2005	3	101	1	92	6.0	202.0	2.00	184	-18.3	-88			WNB
225	NVRU 200552 L	7/14/2005	3	101	2	94	6.0	202.0	4.00	188	-9.1	-68			WNB
226	NVRU 200472 F	7/14/2005	3	101	5	101	6.0	202.0	10.00	202	18.3	0			WNB
227	NVRU 200472 R	7/14/2005	3	101	0	95	6.0	202.0	0.00	190	-27.4	-59			WNB
228	NVRU 200472 B	7/14/2005	3	101	3	92	6.0	202.0	6.00	184	0.0	-88			WNB
229	NVRU 200472 L	7/14/2005	3	101	3	107	6.0	202.0	6.00	214	0.0	59			WNB
230	ECCU 000022 F	7/14/2005	3	101	3	98	6.0	202.0	6.00	196	0.0	-29			WNB
231	ECCU 000022 R	7/14/2005	3	101	0	99	6.0	202.0	0.00	198	-27.4	-20			WNB
232	ECCU 000022 B	7/14/2005	3	101	2	93	6.0	202.0	4.00	186	-9.1	-78			WNB
233	ECCU 000022 L	7/14/2005	3	101	1	83	6.0	202.0	2.00	166	-18.3	-176			WNB
234	GNC 20055 F	7/14/2005	3	101	10	104	6.0	202.0	20.00	208	63.9	29			WNB
235	GNC 20055 R	7/14/2005	3	101	3	102	6.0	202.0	6.00	204	0.0	10			WNB
236	GNC 20055 B	7/14/2005	3	101	5	101	6.0	202.0	10.00	202	18.3	0			WNB
237	GNC 20055 L	7/14/2005	3	101	9	94	6.0	202.0	18.00	188	54.8	-68			WNB
238	GNC 20109 F	7/14/2005	3	101	4	120	6.0	202.0	8.00	240	9.1	185			WNB
239	GNC 20109 R	7/14/2005	3	101	2	91	6.0	202.0	4.00	182	-9.1	-98			WNB
240	GNC 20109 B	7/14/2005	3	101	6	102	6.0	202.0	12.00	204	27.4	10			WNB
241	GNC 20109 L	7/14/2005	3	101	6	100	6.0	202.0	12.00	200	27.4	-10			WNB
242	GNC 20072 F	7/14/2005	3	101	3	83	6.0	202.0	6.00	166	0.0	-176			WNB
243	GNC 20072 R	7/14/2005	3	101	4	119	6.0	202.0	8.00	238	9.1	176			WNB
244	GNC 20072 B	7/14/2005	3	101	3	83	6.0	202.0	6.00	166	0.0	-176			WNB
245	GNC 20072 L	7/14/2005	3	101	4	119	6.0	202.0	8.00	238	9.1	176			WNB
246	GNC 20044 F	7/14/2005	3	101	14	92	6.0	202.0	28.00	184	100.5	-88			WNB
247	GNC 20044 R	7/14/2005	3	101	8	95	6.0	202.0	16.00	190	45.7	-59			WNB
248	GNC 20044 B	7/14/2005	3	101	7	119	6.0	202.0	14.00	238	36.5	176			WNB
249	GNC 20044 L	7/14/2005	3	101	12	100	6.0	202.0	24.00	200	82.2	-10			WNB
250	GNC 20045 F	7/14/2005	3	101	5	105	6.0	202.0	10.00	210	18.3	39			WNB
251	GNC 20045 R	7/14/2005	3	101	3	109	6.0	202.0	6.00	218	0.0	78			WNB
252	GNC 20045 B	7/14/2005	3	101	4	93	6.0	202.0	8.00	186	9.1	-78			WNB
253	GNC 20045 L	7/14/2005	3	101	2	99	6.0	202.0	4.00	198	-9.1	-20			WNB
254	Test Truck	7/15/2005	2	105	23	125	4.0	210.0	46.00	250	191.8	195			WNB
255	BFLU 000052 F	7/15/2005	2	105	2	103	4.0	210.0	4.00	206	0.0	-20			WNB
256	BFLU 000052 R	7/15/2005	2	105	3	94	4.0	210.0	6.00	188	9.1	-107			WNB
257	BFLU 000052 B	7/15/2005	2	105	2	105	4.0	210.0	4.00	210	0.0	0			WNB
258	BFLU 000052 L	7/15/2005	2	105	1	101	4.0	210.0	2.0						

α eff	β eff
0.2190	0.2050

Sample Count Time (min)	Daily Background Count Time (min)
0.5	0.5

dpm/100 cm ²	
α Flag	β Flag
200	200

* Morning Daily Count

seq. #	Sample ID# and Description	Date	Background Total Counts*		Sample Total Counts		Background (cpm)		Sample Counts (cpm)		Sample (dpm/100 cm ²)		> α flag	> β flag	Tech. Initial
			α	β	α	β	α	β	α	β					
271	Test Truck	7/18/2005	3	101	24	121	6.0	202.0	48.00	242	191.8	195			WNB
272	BLFU 000402 F	7/18/2005	3	101	3	97	6.0	202.0	6.00	194	0.0	-39			BNC
273	BFLU 000402 R	7/18/2005	3	101	8	97	6.0	202.0	16.00	194	45.7	-39			BNC
274	BFLU 000402 B	7/18/2005	3	101	1	86	6.0	202.0	2.00	172	-18.3	-146			BNC
275	BFLU 000402 L	7/18/2005	3	101	2	106	6.0	202.0	4.00	212	-9.1	49			BNC
276	BLFU 000399 F	7/18/2005	3	101	7	122	6.0	202.0	14.00	244	36.5	205		FLAG	BNC
277	BFLU 000399 R	7/18/2005	3	101	14	140	6.0	202.0	28.00	280	100.5	380		FLAG	BNC
278	BFLU 000399 B	7/18/2005	3	101	14	128	6.0	202.0	28.00	256	100.5	263		FLAG	BNC
279	BFLU 000399 L	7/18/2005	3	101	12	128	6.0	202.0	24.00	256	82.2	263		FLAG	BNC
280	Test Truck	7/19/2005	2	108	23	128	4.0	216.0	46.00	256	191.8	195			BNC
281	BFLU 000194 F	7/19/2005	2	108	5	92	4.0	216.0	10.00	184	27.4	-156			BNC
282	BFLU 000194 R	7/19/2005	2	108	0	102	4.0	216.0	0.00	204	-18.3	-59			BNC
283	BFLU 000194 B	7/19/2005	2	108	4	90	4.0	216.0	8.00	180	18.3	-176			BNC
284	BFLU 000194 L	7/19/2005	2	108	4	105	4.0	216.0	8.00	210	18.3	-29			BNC
285	BFLU 000328 F	7/19/2005	2	108	2	88	4.0	216.0	4.00	176	0.0	-195			BNC
286	BFLU 000328 R	7/19/2005	2	108	0	95	4.0	216.0	0.00	190	-18.3	-127			BNC
287	BLFU 000328 B	7/19/2005	2	108	1	95	4.0	216.0	2.00	190	-9.1	-127			BNC
288	BFLU 000328 L	7/19/2005	2	108	0	108	4.0	216.0	0.00	216	-18.3	0			BNC
289	BFLU 000337 F	7/19/2005	2	108	2	87	4.0	216.0	4.00	174	0.0	-205			BNC
290	BFLU 000337 R	7/19/2005	2	108	0	103	4.0	216.0	0.00	206	-18.3	-49			BNC
291	BLFU 000337 B	7/19/2005	2	108	4	100	4.0	216.0	8.00	200	18.3	-78			BNC
292	BFLU 000337 L	7/19/2005	2	108	6	102	4.0	216.0	12.00	204	36.5	-59			BNC
293	BFLU 000297 F	7/19/2005	2	108	2	100	4.0	216.0	4.00	200	0.0	-78			BNC
294	BFLU 000297 R	7/19/2005	2	108	6	120	4.0	216.0	12.00	240	36.5	117			BNC
295	BFLU 000297 B	7/19/2005	2	108	6	102	4.0	216.0	12.00	204	36.5	-59			BNC
296	BFLU 000297 L	7/19/2005	2	108	3	89	4.0	216.0	6.00	178	9.1	-185			BNC
297	BFLU 000386 F	7/19/2005	2	108	2	81	4.0	216.0	4.00	162	0.0	-263			BNC
298	BFLU 000386 R	7/19/2005	2	108	1	93	4.0	216.0	2.00	186	-9.1	-146			BNC
299	BFLU 000386 B	7/19/2005	2	108	5	113	4.0	216.0	10.00	226	27.4	49			BNC
300	BFLU 000386 L	7/19/2005	2	108	4	93	4.0	216.0	8.00	186	18.3	-146			BNC
301	GLNTC-05-019-01	7/21/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
302	GLNTC-05-019-02	7/21/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
303	GLNTC-05-019-03	7/21/2005	4	106	0	64	8.0	212.0	0.00	128	-36.5	-410			WNB
304	GLNTC-05-019-04	7/21/2005	4	106	2	82	8.0	212.0	4.00	164	-18.3	-234			WNB
305	GLNTC-05-019-05	7/21/2005	4	106	4	79	8.0	212.0	8.00	158	0.0	-263			WNB
306	GLNTC-05-019-06	7/21/2005	4	106	0	80	8.0	212.0	0.00	160	-36.5	-254			WNB
307	GLNTC-05-019-07	7/21/2005	4	106	1	68	8.0	212.0	2.00	136	-27.4	-371			WNB
308	GLNTC-05-019-08	7/21/2005	4	106	1	70	8.0	212.0	2.00	140	-27.4	-351			WNB
309	GLNTC-05-019-09	7/21/2005	4	106	1	84	8.0	212.0	2.00	168	-27.4	-215			WNB
310	GLNTC-05-019-10	7/21/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
311	GLNTC-05-019-11	7/21/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
312	GLNTC-05-019-12	7/21/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
313	GLNTC-05-019-13	7/21/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
314	GLNTC-05-019-14	7/21/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
315	GLNTC-05-019-15	7/21/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
316	GLNTC-05-019-16	7/21/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
317	GLNTC-05-019-17	7/21/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
318	BACKGROUND TEST	7/22/2005	4	106	25	126	8.0	212.0	50.00	252	191.8	195			BNC
319	GenieLift Release Survey 1	7/22/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
320	GenieLift Release Survey 2	7/22/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
321	GenieLift Release Survey 3	7/22/2005	4	106	0	64	8.0	212.0	0.00	128	-36.5	-410			WNB
322	GenieLift Release Survey 4	7/22/2005	4	106	2	82	8.0	212.0	4.00	164	-18.3	-234			WNB
323	GenieLift Release Survey 5	7/22/2005	4	106	4	79	8.0	212.0	8.00	158	0.0	-263			WNB
324	GenieLift Release Survey 6	7/22/2005	4	106	0	80	8.0	212.0	0.00	160	-36.5	-254			WNB
325	GenieLift Release Survey 7	7/22/2005	4	106	1	68	8.0	212.0	2.00	136	-27.4	-371			WNB
326	GenieLift Release Survey 8	7/22/2005	4	106	1	70	8.0	212.0	2.00	140	-27.4	-351			WNB
327	GenieLift Release Survey 9	7/22/2005	4	106	1	84	8.0	212.0	2.00	168	-27.4	-215			WNB
328	GenieLift Release Survey 10	7/22/2005	4	106	3	51	8.0	212.0	6.00	102	-9.1	-537			WNB
329	GenieLift Release Survey 11	7/22/2005	4	106	2	58	8.0	212.0	4.00	116	-18.3	-468			WNB
330	GenieLift Release Survey 12	7/22/2005	4	106	2	58	8.0	212.0	4.00	116	-18.3	-468			WNB
331	GenieLift Release Survey 13	7/22/2005	4	106	2	64	8.0	212.0	4.00	128	-18.3	-410			WNB
332	GenieLift Release Survey 14	7/22/2005	4	106	2	53	8.0	212.0	4.00	106	-18.3	-517			WNB
333	GenieLift Release Survey 15	7/22/2005	4	106	14	155	8.0	212.0	28.00	310	91.3	478		FLAG	WNB
334	GenieLift Release Survey 16	7/22/2005	4	106	17	146	8.0	212.0	34.00	292	118.7	390		FLAG	WNB
335	GenieLift Release Survey 17	7/22/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
336	Water Pump Release Survey 1	7/22/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
337	Water Pump Release Survey 2	7/22/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
338	Water Pump Release Survey 3	7/22/2005	4	106	1	76	8.0	212.0	2.00	152	-27.4	-293			WNB
339	Water Pump Release Survey 4	7/22/2005	4	106	0	75	8.0	212.0	0.00	150	-36.5	-302			WNB
340	Water Pump Release Survey 5	7/22/2005	4	106	0	72	8.0	212.0	0.00	144	-36.5	-332			WNB
341	Water Pump Release Survey 6	7/22/2005	4	106	0	75	8.0	212.0	0.00	150	-36.5	-302			WNB
342	Water Pump Release Survey 7	7/22/2005	4	106	4	74	8.0	212.0	8.00	148	0.0	-312			WNB
343	Water Pump Release Survey 8	7/22/2005	4	106	0	77	8.0	212.0	0.00	154	-36.5	-283			WNB
344	Water Pump Release Survey 9	7/22/2005	4	106	1	63	8.0	212.0	2.00	126	-27.4	-420			WNB
345	Water Pump Release Survey 10	7/22/2005	4	106	0	87	8.0	212.0	0.00	174	-36.5	-185			WNB
346	Water Pump Release Survey 11	7/22/2005	4	106	0	62	8.0	212.0	0.00	124	-36.5	-429			WNB
347	Water Pump Release Survey 12	7/22/2005	4	106	1	58	8.0	212.0	2.00	116	-27.4	-468			WNB
348	Water Pump Release Survey 13	7/22/2005	4	106	2	49	8.0	212.0	4.00						

α eff	β eff
0.2190	0.2050

Sample Count Time (min)	Daily Background Count Time (min)
0.5	0.5

dpm/100 cm ²
α Flag β Flag
200 200

* Morning Daily Count

seq. #	Sample ID# and Description	Date	Background Total Counts*		Sample Total Counts		Background (cpm)		Sample Counts (cpm)		Sample (dpm/100 cm ²)		> α flag	> β flag	Tech. Initial
			α	β	α	β	α	β	α	β	α	β			
361	GLNTC-05-020-12	7/22/2005	4	106	1	58	8.0	212.0	2.00	116	-27.4	-468			WNB
362	GLNTC-05-020-13	7/22/2005	4	106	2	49	8.0	212.0	4.00	98	-18.3	-556			WNB
363	GLNTC-05-020-14	7/22/2005	4	106	1	60	8.0	212.0	2.00	120	-27.4	-449			WNB
364	RR Rails Test	7/27/2005	2	80	23	100	4.0	160.0	46.00	200	191.8	195			WNB

N/A indicates that smear samples for that particular piece of equipment were not collected because they were not in use since the previous smear sample was collected.

Detector Active Area (cm ²)
100

α eff	β eff
0.2190	0.2050

Static Count Time (min)
0.5

Daily Background Count Time (min)
0.5

dpm/100 cm ²	
α Flag	β Flag
1000	1000

* Morning Daily Count

Morning Daily Count															
seq. #	Sample ID# and Description	Date	Background Total Counts*		Sample Total Counts		Background (cpm)		Sample Counts (cpm)		Sample (dpm/100 cm²)		> α flag	> β flag	Tech. Initial
			α	β	α	β	α	β	α	β	α	β			
1	Test Truck	7/7/2005	2	101	111	203	4.0	202.0	222.00	406	995.4	995			BNC
2	BFLU 000280 F	7/7/2005	2	101	3	59	4.0	202.0	6.00	118	9.1	-410			BNC
3	BFLU 000280 B	7/7/2005	2	101	2	71	4.0	202.0	4.00	142	0.0	-293			BNC
4	BFLU 000280 R	7/7/2005	2	101	1	66	4.0	202.0	2.00	132	-9.1	-341			BNC
5	BFLU 000280 L	7/7/2005	2	101	1	68	4.0	202.0	2.00	136	-9.1	-322			BNC
6	BFLU 000233 F	7/7/2005	2	101	2	79	4.0	202.0	4.00	158	0.0	-215			BNC
7	BFLU 000233 B	7/7/2005	2	101	2	71	4.0	202.0	4.00	142	0.0	-293			BNC
8	BFLU 000233 R	7/7/2005	2	101	0	76	4.0	202.0	0.00	152	-18.3	-244			BNC
9	BFLU 000233 L	7/7/2005	2	101	0	63	4.0	202.0	0.00	126	-18.3	-371			BNC
10	BFLU 00156 F	7/7/2005	2	101	0	67	4.0	202.0	0.00	134	-18.3	-332			BNC
11	BFLU 00156 B	7/7/2005	2	101	0	58	4.0	202.0	0.00	116	-18.3	-420			BNC
12	BFLU 00156 R	7/7/2005	2	101	1	54	4.0	202.0	2.00	108	-9.1	-459			BNC
13	BFLU 00156 L	7/7/2005	2	101	1	66	4.0	202.0	2.00	132	-9.1	-341			BNC
14	BFLU 000217 F	7/7/2005	2	101	0	69	4.0	202.0	0.00	138	-18.3	-312			BNC
15	BFLU 000217 R	7/7/2005	2	101	2	57	4.0	202.0	4.00	114	0.0	-429			BNC
16	BFLU 000217 B	7/7/2005	2	101	1	56	4.0	202.0	2.00	112	-9.1	-439			BNC
17	BFLU 000217 L	7/7/2005	2	101	0	66	4.0	202.0	0.00	132	-18.3	-341			BNC
18	BFLU 000200 F	7/7/2005	2	101	0	81	4.0	202.0	0.00	162	-18.3	-195			BNC
19	BFLU 000200 R	7/7/2005	2	101	2	67	4.0	202.0	4.00	134	0.0	-332			BNC
20	BFLU 000200 B	7/7/2005	2	101	3	62	4.0	202.0	6.00	124	9.1	-380			BNC
21	BFLU 000200 L	7/7/2005	2	101	3	64	4.0	202.0	6.00	128	9.1	-361			BNC
22	BFLU 000365 F	7/7/2005	2	101	1	62	4.0	202.0	2.00	124	-9.1	-380			BNC
23	BFLU 000365 R	7/7/2005	2	101	0	76	4.0	202.0	0.00	152	-18.3	-244			BNC
24	BFLU 000365 B	7/7/2005	2	101	1	48	4.0	202.0	2.00	96	-9.1	-517			BNC
25	BFLU 000365 L	7/7/2005	2	101	2	74	4.0	202.0	4.00	148	0.0	-263			BNC
26	BFLU 000153 F	7/7/2005	2	101	3	44	4.0	202.0	6.00	88	9.1	-556			BNC
27	BFLU 000153 R	7/7/2005	2	101	2	87	4.0	202.0	4.00	174	0.0	-137			BNC
28	BFLU 000153 B	7/7/2005	2	101	0	55	4.0	202.0	0.00	110	-18.3	-449			BNC
29	BFLU 000153 L	7/7/2005	2	101	0	75	4.0	202.0	0.00	150	-18.3	-254			BNC
30	AWIU 000195 F	7/7/2005	2	101	1	64	4.0	202.0	2.00	128	-9.1	-361			BNC
31	AWIU 000195 R	7/7/2005	2	101	1	85	4.0	202.0	2.00	170	-9.1	-156			BNC
32	AWIU 000195 B	7/7/2005	2	101	1	51	4.0	202.0	2.00	102	-9.1	-488			BNC
33	AWIU 000195 L	7/7/2005	2	101	3	66	4.0	202.0	6.00	132	9.1	-341			BNC
34	BFLU 000381 F	7/7/2005	2	101	2	56	4.0	202.0	4.00	112	0.0	-439			BNC
35	BFLU 000381 R	7/7/2005	2	101	1	62	4.0	202.0	2.00	124	-9.1	-380			BNC
36	BFLU 000381 B	7/7/2005	2	101	2	51	4.0	202.0	4.00	102	0.0	-488			BNC
37	BFLU 000381 L	7/7/2005	2	101	1	68	4.0	202.0	2.00	136	-9.1	-322			BNC
38	Test Truck	7/8/2005	3	108	112	210	6.0	216.0	224.00	420	995.4	995			WNB
39	Link-Belt 225 10	7/8/2005	3	108	2	73	6.0	216.0	4.00	146	-9.1	-341			WNB
40	Link-Belt 225 11	7/8/2005	3	108	1	78	6.0	216.0	2.00	156	-18.3	-293			WNB
41	Link-Belt 225 12	7/8/2005	3	108	0	87	6.0	216.0	0.00	174	-27.4	-205			WNB
42	Link-Belt 225 13	7/8/2005	3	108	6	140	6.0	216.0	12.00	280	27.4	312			WNB
43	Link-Belt 225 14	7/8/2005	3	108	1	102	6.0	216.0	2.00	204	-18.3	-59			WNB
44	Link-Belt 225 15	7/8/2005	3	108	5	98	6.0	216.0	10.00	196	18.3	-98			WNB
45	Link-Belt 225 16	7/8/2005	3	108	0	86	6.0	216.0	0.00	172	-27.4	-215			WNB
46	BFLU 000015 F	7/8/2005	3	108	2	80	6.0	216.0	4.00	160	-9.1	-273			WNB
47	BFLU 000015 R	7/8/2005	3	108	0	68	6.0	216.0	0.00	136	-27.4	-390			WNB
48	BFLU 000015 B	7/8/2005	3	108	3	54	6.0	216.0	6.00	108	0.0	-527			WNB
49	BFLU 000015 L	7/8/2005	3	108	6	76	6.0	216.0	12.00	152	27.4	-312			WNB
50	BFLU 000007 F	7/8/2005	3	108	0	94	6.0	216.0	0.00	188	-27.4	-137			WNB
51	BFLU 000007 R	7/8/2005	3	108	0	73	6.0	216.0	0.00	146	-27.4	-341			WNB
52	BFLU 000007 B	7/8/2005	3	108	0	58	6.0	216.0	0.00	116	-27.4	-488			WNB
53	BFLU 000007 L	7/8/2005	3	108	3	64	6.0	216.0	6.00	128	0.0	-429			WNB
54	BFLU 000010 F	7/8/2005	3	108	0	64	6.0	216.0	0.00	128	-27.4	-429			WNB
55	BFLU 000010 R	7/8/2005	3	108	0	65	6.0	216.0	0.00	130	-27.4	-420			WNB
56	BFLU 000010 B	7/8/2005	3	108	2	56	6.0	216.0	4.00	112	-9.1	-507			WNB
57	BFLU 000010 L	7/8/2005	3	108	2	57	6.0	216.0	4.00	114	-9.1	-498			WNB
58	BFLU 000410 F	7/8/2005	3	108	1	66	6.0	216.0	2.00	132	-18.3	-410			WNB
59	BFLU 000410 R	7/8/2005	3	108	1	72	6.0	216.0	2.00	144	-18.3	-351			WNB
60	BFLU 000410 B	7/8/2005	3	108	0	56	6.0	216.0	0.00	112	-27.4	-507			WNB
61	BFLU 000410 L	7/8/2005	3	108	1	80	6.0	216.0	2.00	160	-18.3	-273			WNB
62	BFLU 000017 F	7/8/2005	3	108	2	66	6.0	216.0	4.00	132	-9.1	-410			WNB
63	BFLU 000017 R	7/8/2005	3	108	2	68	6.0	216.0	4.00	136	-9.1	-390			WNB
64	BFLU 000017 B	7/8/2005	3	108	0	62	6.0	216.0	0.00	124	-27.4	-449			WNB
65	BFLU 000017 L	7/8/2005	3	108	2	83	6.0	216.0	4.00	166	-9.1	-244			WNB
66	BFLU 000012 F	7/8/2005	3	108	2	70	6.0	216.0	4.00	140	-9.1	-371			WNB
67	BFLU 000012 R	7/8/2005	3	108	0	91	6.0	216.0	0.00	182	-27.4	-166			WNB
68	BFLU 000012 B	7/8/2005	3	108	0	48	6.0	216.0	0.00	96	-27.4	-585			WNB
69	BFLU 000012 L	7/8/2005	3	108	1	73	6.0	216.0	2.00	146	-18.3	-341			WNB
70	BFLU 000024 F	7/8/2005	3	108	0	66	6.0	216.0	0.00	132	-27.4	-410			WNB
71	BFLU 000024 R	7/8/2005	3	108	3	83	6.0	216.0	6.00	166	0.0	-244			WNB
72	BFLU 000024 B	7/8/2005	3	108	2	64	6.0	216.0	4.00	128	-9.1	-429			WNB
73	BFLU 000024 L	7/8/2005	3	108	0	68	6.0	216.0	0.00	136	-27.4	-390			WNB
74	BFLU 000086 F	7/8/2005	3	108	0	63	6.0	216.0	0.00	126	-27.4	-439			WNB
75	BFLU 000086 R	7/8/2005	3	108	0	64	6.0	216.0	0.00	128	-27.4	-429			WNB
76	BFLU 000086 B	7/8/2005	3	108	0	67	6.0	216.0	0.00	134	-27.4	-400			WNB
77	BFLU 000086 L	7/8/2005	3	108	1	84	6.0	216.0	2.00	168	-18.3	-234			WNB
78	BFLU 000159 F	7/8/2005	3	108	0	68	6.0	216.0	0.00	136	-27.4	-390			WNB
79	BFLU 000159 R	7/8/2005	3	108	2	73	6.0	216.0	4.00	146	-9.1	-341			WNB
80	BFL														

Detector Active Area (cm ²)
100

α eff	β eff
0.2190	0.2050

Static Count Time (min)
0.5

Daily Background Count Time (min)
0.5

dpm/100 cm ²	
α Flag	β Flag
1000	1000

* Morning Daily Count

seq. #	Sample ID# and Description	Date	Background Total Counts*		Sample Total Counts		Background (cpm)		Sample Counts (cpm)		Sample (dpm/100 cm²)		> α flag	> β flag	Tech. Initial
			α	β	α	β	α	β	α	β					
91	BFLU 000034 F	7/11/2005	3	102	0	66	6.0	204.0	0.00	132	-27.4	-351			WNB
92	BFLU 000034 R	7/11/2005	3	102	1	65	6.0	204.0	2.00	130	-18.3	-361			WNB
93	BFLU 000034 B	7/11/2005	3	102	3	77	6.0	204.0	6.00	154	0.0	-244			WNB
94	BFLU 000034 L	7/11/2005	3	102	3	60	6.0	204.0	6.00	120	0.0	-410			WNB
95	BFLU 000401 F	7/11/2005	3	102	5	83	6.0	204.0	10.00	166	18.3	-185			WNB
96	BFLU 000401 R	7/11/2005	3	102	0	75	6.0	204.0	0.00	150	-27.4	-263			WNB
97	BFLU 000401 B	7/11/2005	3	102	1	48	6.0	204.0	2.00	96	-18.3	-527			WNB
98	BFLU 000401 L	7/11/2005	3	102	3	66	6.0	204.0	6.00	132	0.0	-351			WNB
99	BFLU 000387 F	7/11/2005	3	102	3	74	6.0	204.0	6.00	148	0.0	-273			WNB
100	BFLU 000387 R	7/11/2005	3	102	2	73	6.0	204.0	4.00	146	-9.1	-283			WNB
101	BFLU 000387 B	7/11/2005	3	102	1	69	6.0	204.0	2.00	138	-18.3	-322			WNB
102	BFLU 000387 L	7/11/2005	3	102	1	74	6.0	204.0	2.00	148	-18.3	-273			WNB
103	BFLU 000314 F	7/11/2005	3	102	0	62	6.0	204.0	0.00	124	-27.4	-390			WNB
104	BFLU 000314 R	7/11/2005	3	102	3	73	6.0	204.0	6.00	146	0.0	-283			WNB
105	BFLU 000314 B	7/11/2005	3	102	3	69	6.0	204.0	6.00	138	0.0	-322			WNB
106	BFLU 000314 L	7/11/2005	3	102	4	77	6.0	204.0	8.00	154	9.1	-244			WNB
107	BFLU 000102 F	7/11/2005	3	102	2	71	6.0	204.0	4.00	142	-9.1	-302			WNB
108	BFLU 000102 R	7/11/2005	3	102	0	81	6.0	204.0	0.00	162	-27.4	-205			WNB
109	BFLU 000102 B	7/11/2005	3	102	1	52	6.0	204.0	2.00	104	-18.3	-488			WNB
110	BFLU 000102 L	7/11/2005	3	102	1	64	6.0	204.0	2.00	128	-18.3	-371			WNB
111	BFLU 000138 F	7/11/2005	3	102	0	57	6.0	204.0	0.00	114	-27.4	-439			WNB
112	BFLU 000138 R	7/11/2005	3	102	0	58	6.0	204.0	0.00	116	-27.4	-429			WNB
113	BFLU 000138 B	7/11/2005	3	102	1	53	6.0	204.0	2.00	106	-18.3	-478			WNB
114	BFLU 000138 L	7/11/2005	3	102	2	64	6.0	204.0	4.00	128	-9.1	-371			WNB
115	BFLU 000080 F	7/11/2005	3	102	0	67	6.0	204.0	0.00	134	-27.4	-341			WNB
116	BFLU 000080 R	7/11/2005	3	102	0	66	6.0	204.0	0.00	132	-27.4	-351			WNB
117	BFLU 000080 B	7/11/2005	3	102	1	71	6.0	204.0	2.00	142	-18.3	-302			WNB
118	BFLU 000080 L	7/11/2005	3	102	1	61	6.0	204.0	2.00	122	-18.3	-400			WNB
119	BFLU 000093 F	7/11/2005	3	102	1	60	6.0	204.0	2.00	120	-18.3	-410			WNB
120	BFLU 000093 R	7/11/2005	3	102	0	80	6.0	204.0	0.00	160	-27.4	-215			WNB
121	BFLU 000093 B	7/11/2005	3	102	1	65	6.0	204.0	2.00	130	-18.3	-361			WNB
122	BFLU 000093 L	7/11/2005	3	102	0	79	6.0	204.0	0.00	158	-27.4	-224			WNB
123	BFLU 000073 F	7/11/2005	3	102	0	71	6.0	204.0	0.00	142	-27.4	-302			WNB
124	BFLU 000073 R	7/11/2005	3	102	0	64	6.0	204.0	0.00	128	-27.4	-371			WNB
125	BFLU 000073 B	7/11/2005	3	102	1	85	6.0	204.0	2.00	170	-18.3	-166			WNB
126	BFLU 000073 L	7/11/2005	3	102	4	56	6.0	204.0	8.00	112	9.1	-449			WNB
127	BFLU 000335 F	7/11/2005	3	102	0	60	6.0	204.0	0.00	120	-27.4	-410			WNB
128	BFLU 000335 R	7/11/2005	3	102	1	90	6.0	204.0	2.00	180	-18.3	-117			WNB
129	BFLU 000335 B	7/11/2005	3	102	4	51	6.0	204.0	8.00	102	9.1	-498			WNB
130	BFLU 000335 L	7/11/2005	3	102	0	51	6.0	204.0	0.00	102	-27.4	-498			WNB
131	Test Truck	7/12/2005	3	105	112	207	6.0	210.0	224.00	414	995.4	995			WNB
132	BFLU 000022 F	7/12/2005	3	105	6	59	6.0	210.0	12.00	118	27.4	-449			WNB
133	BFLU 000022 R	7/12/2005	3	105	10	87	6.0	210.0	20.00	174	63.9	-176			WNB
134	BFLU 000022 B	7/12/2005	3	105	5	59	6.0	210.0	10.00	118	18.3	-449			WNB
135	BFLU 000022 L	7/12/2005	3	105	1	72	6.0	210.0	2.00	144	-18.3	-322			WNB
136	BFLU 000383 F	7/12/2005	3	105	7	87	6.0	210.0	14.00	174	36.5	-176			WNB
137	BFLU 000383 R	7/12/2005	3	105	4	78	6.0	210.0	8.00	156	9.1	-263			WNB
138	BFLU 000383 B	7/12/2005	3	105	2	66	6.0	210.0	4.00	132	-9.1	-380			WNB
139	BFLU 000383 L	7/12/2005	3	105	1	75	6.0	210.0	2.00	150	-18.3	-293			WNB
140	BFLU 000162 F	7/12/2005	3	105	0	65	6.0	210.0	0.00	130	-27.4	-390			WNB
141	BFLU 000162 R	7/12/2005	3	105	0	76	6.0	210.0	0.00	152	-27.4	-283			WNB
142	BFLU 000162 B	7/12/2005	3	105	4	65	6.0	210.0	8.00	130	9.1	-390			WNB
143	BFLU 000162 L	7/12/2005	3	105	1	74	6.0	210.0	2.00	148	-18.3	-302			WNB
144	BFLU 000109 F	7/12/2005	3	105	3	71	6.0	210.0	6.00	142	0.0	-332			WNB
145	BFLU 000109 R	7/12/2005	3	105	1	56	6.0	210.0	2.00	112	-18.3	-478			WNB
146	BFLU 000109 B	7/12/2005	3	105	1	71	6.0	210.0	2.00	142	-18.3	-332			WNB
147	BFLU 000109 L	7/12/2005	3	105	0	63	6.0	210.0	0.00	126	-27.4	-410			WNB
148	BFLU 000161 F	7/12/2005	3	105	4	79	6.0	210.0	8.00	158	9.1	-254			WNB
149	BFLU 000161 R	7/12/2005	3	105	1	61	6.0	210.0	2.00	122	-18.3	-429			WNB
150	BFLU 000161 B	7/12/2005	3	105	5	59	6.0	210.0	10.00	118	18.3	-449			WNB
151	BFLU 000161 L	7/12/2005	3	105	2	50	6.0	210.0	4.00	100	-9.1	-537			WNB
152	BFLU 000149 F	7/12/2005	3	105	0	61	6.0	210.0	0.00	122	-27.4	-429			WNB
153	BFLU 000149 R	7/12/2005	3	105	0	81	6.0	210.0	0.00	162	-27.4	-234			WNB
154	BFLU 000149 B	7/12/2005	3	105	0	55	6.0	210.0	0.00	110	-27.4	-488			WNB
155	BFLU 000149 L	7/12/2005	3	105	0	57	6.0	210.0	0.00	114	-27.4	-468			WNB
156	BFLU 000398 F	7/12/2005	3	105	2	78	6.0	210.0	4.00	156	-9.1	-263			WNB
157	BFLU 000398 R	7/12/2005	3	105	0	67	6.0	210.0	0.00	134	-27.4	-371			WNB
158	BFLU 000398 B	7/12/2005	3	105	3	67	6.0	210.0	6.00	134	0.0	-371			WNB
159	BFLU 000398 L	7/12/2005	3	105	3	58	6.0	210.0	6.00	116	0.0	-459			WNB
160	AWIU 000296 F	7/12/2005	3	105	6	94	6.0	210.0	12.00	188	27.4	-107			WNB
161	AWIU 000296 R	7/12/2005	3	105	2	59	6.0	210.0	4.00	118	-9.1	-449			WNB
162	AWIU 000296 B	7/12/2005	3	105	4	71	6.0	210.0	8.00	142	9.1	-332			WNB
163	AWIU 000296 L	7/12/2005	3	105	1	65	6.0	210.0	2.00	130	-18.3	-390			WNB
164	Test Truck	7/13/2005	2	95	111	197	4.0	190.0	222.00	394	995.4	995			WNB
165	BFLU 000358 F	7/13/2005	2	95	4	71	4.0	190.0	8.00	142	18.3	-234			WNB
166	BFLU 000358 R	7/13/2005	2	95	1	90	4.0	190.0	2.00	180	-9.1	-49			WNB
167	BFLU 000358 B	7/13/2005	2	95	0	78	4.0	190.0	0.00	156	-18.3	-166			WNB
168	BFLU 000358 L	7/13/2005	2	95	1	57	4.0	190.0	2.00	114	-9.1	-3713			

Detector Active Area (cm ²)
100

α eff	β eff
0.2190	0.2050

Static Count Time (min)
0.5

Daily Background Count Time (min)
0.5

dpm/100 cm ²	
α Flag	β Flag
1000	1000

* Morning Daily Count

seq. #	Sample ID# and Description	Date	Background Total		Sample Total		Background (cpm)		Sample Counts (cpm)		Sample (dpm/100 cm²)		> α flag	> β flag	Tech. Initial
			Counts*		Counts										
			α	β	α	β	α	β	α	β	α	β			
181	AWIU 000159 F	7/13/2005	2	95	3	69	4.0	190.0	6.00	138	9.1	-254			WNB
182	AWIU 000159 R	7/13/2005	2	95	1	71	4.0	190.0	2.00	142	-9.1	-234			WNB
183	AWIU 000159 B	7/13/2005	2	95	0	64	4.0	190.0	0.00	128	-18.3	-302			WNB
184	AWIU 000159 L	7/13/2005	2	95	2	89	4.0	190.0	4.00	178	0.0	-59			WNB
185	ECCU 006078 F	7/13/2005	2	95	2	63	4.0	190.0	4.00	126	0.0	-312			WNB
186	ECCU 006078 R	7/13/2005	2	95	0	73	4.0	190.0	0.00	146	-18.3	-215			WNB
187	ECCU 006078 B	7/13/2005	2	95	2	79	4.0	190.0	4.00	158	0.0	-156			WNB
188	ECCU 006078 L	7/13/2005	2	95	2	99	4.0	190.0	4.00	198	0.0	39			WNB
189	BFLU 000296 F	7/13/2005	2	95	1	85	4.0	190.0	2.00	170	-9.1	-98			WNB
190	BFLU 000296 R	7/13/2005	2	95	0	66	4.0	190.0	0.00	132	-18.3	-283			WNB
191	BFLU 000296 B	7/13/2005	2	95	0	69	4.0	190.0	0.00	138	-18.3	-254			WNB
192	BFLU 000296 L	7/13/2005	2	95	1	70	4.0	190.0	2.00	140	-9.1	-244			WNB
193	NVRU 200521 F	7/13/2005	2	95	1	75	4.0	190.0	2.00	150	-9.1	-195			WNB
194	NVRU 200521 B	7/13/2005	2	95	0	84	4.0	190.0	0.00	168	-18.3	-107			WNB
195	NVRU 200521 F	7/13/2005	2	95	1	68	4.0	190.0	2.00	136	-9.1	-263			WNB
196	NVRU 200521 F	7/13/2005	2	95	0	88	4.0	190.0	0.00	176	-18.3	-68			WNB
197	Test Truck	7/14/2005	3	101	112	203	6.0	202.0	224.00	406	995.4	995			WNB
198	GNC 20016 F	7/14/2005	3	101	2	77	6.0	202.0	4.00	154	-9.1	-234			WNB
199	GNC 20016 R	7/14/2005	3	101	1	81	6.0	202.0	2.00	162	-18.3	-195			WNB
200	GNC 20016 B	7/14/2005	3	101	0	67	6.0	202.0	0.00	134	-27.4	-332			WNB
201	GNC 20016 L	7/14/2005	3	101	2	51	6.0	202.0	4.00	102	-9.1	-488			WNB
202	ECCU 006012 F	7/14/2005	3	101	1	53	6.0	202.0	2.00	106	-18.3	-468			WNB
203	ECCU 006012 R	7/14/2005	3	101	0	51	6.0	202.0	0.00	102	-27.4	-488			WNB
204	ECCU 006012 B	7/14/2005	3	101	1	71	6.0	202.0	2.00	142	-18.3	-293			WNB
205	ECCU 006012 L	7/14/2005	3	101	1	65	6.0	202.0	2.00	130	-18.3	-351			WNB
206	NVRU 200552 F	7/14/2005	3	101	1	62	6.0	202.0	2.00	124	-18.3	-380			WNB
207	NVRU 200552 R	7/14/2005	3	101	3	69	6.0	202.0	6.00	138	0.0	-312			WNB
208	NVRU 200552 B	7/14/2005	3	101	2	55	6.0	202.0	4.00	110	-9.1	-449			WNB
209	NVRU 200552 L	7/14/2005	3	101	2	64	6.0	202.0	4.00	128	-9.1	-361			WNB
210	NVRU 200472 F	7/14/2005	3	101	1	78	6.0	202.0	2.00	156	-18.3	-224			WNB
211	NVRU 200472 R	7/14/2005	3	101	0	77	6.0	202.0	0.00	154	-27.4	-234			WNB
212	NVRU 200472 B	7/14/2005	3	101	2	67	6.0	202.0	4.00	134	-9.1	-332			WNB
213	NVRU 200472 L	7/14/2005	3	101	3	70	6.0	202.0	6.00	140	0.0	-302			WNB
214	ECCU 000022 F	7/14/2005	3	101	2	52	6.0	202.0	4.00	104	-9.1	-478			WNB
215	ECCU 000022 R	7/14/2005	3	101	1	67	6.0	202.0	2.00	134	-18.3	-332			WNB
216	ECCU 000022 B	7/14/2005	3	101	2	67	6.0	202.0	4.00	134	-9.1	-332			WNB
217	ECCU 000022 L	7/14/2005	3	101	0	82	6.0	202.0	0.00	164	-27.4	-185			WNB
218	GNC 20055 F	7/14/2005	3	101	2	65	6.0	202.0	4.00	130	-9.1	-351			WNB
219	GNC 20055 R	7/14/2005	3	101	1	76	6.0	202.0	2.00	152	-18.3	-244			WNB
220	GNC 20055 B	7/14/2005	3	101	1	60	6.0	202.0	2.00	120	-18.3	-400			WNB
221	GNC 20055 L	7/14/2005	3	101	3	84	6.0	202.0	6.00	168	0.0	-166			WNB
222	GNC 20109 F	7/14/2005	3	101	1	75	6.0	202.0	2.00	150	-18.3	-254			WNB
223	GNC 20109 R	7/14/2005	3	101	3	91	6.0	202.0	6.00	182	0.0	-98			WNB
224	GNC 20109 B	7/14/2005	3	101	2	91	6.0	202.0	4.00	182	-9.1	-98			WNB
225	GNC 20109 L	7/14/2005	3	101	1	55	6.0	202.0	2.00	110	-18.3	-449			WNB
226	GNC 20072 F	7/14/2005	3	101	0	62	6.0	202.0	0.00	124	-27.4	-380			WNB
227	GNC 20072 R	7/14/2005	3	101	2	76	6.0	202.0	4.00	152	-9.1	-244			WNB
228	GNC 20072 B	7/14/2005	3	101	0	55	6.0	202.0	0.00	110	-27.4	-449			WNB
229	GNC 20072 L	7/14/2005	3	101	1	71	6.0	202.0	2.00	142	-18.3	-293			WNB
230	GNC 20044 F	7/14/2005	3	101	3	63	6.0	202.0	6.00	126	0.0	-371			WNB
231	GNC 20044 R	7/14/2005	3	101	1	59	6.0	202.0	2.00	118	-18.3	-410			WNB
232	GNC 20044 B	7/14/2005	3	101	7	86	6.0	202.0	14.00	172	36.5	-146			WNB
233	GNC 20044 L	7/14/2005	3	101	3	80	6.0	202.0	6.00	160	0.0	-205			WNB
234	GNC 20045 F	7/14/2005	3	101	2	81	6.0	202.0	4.00	162	-9.1	-195			WNB
235	GNC 20045 R	7/14/2005	3	101	1	79	6.0	202.0	2.00	158	-18.3	-215			WNB
236	GNC 20045 B	7/14/2005	3	101	3	94	6.0	202.0	6.00	188	0.0	-68			WNB
237	GNC 20045 L	7/14/2005	3	101	4	82	6.0	202.0	8.00	164	9.1	-185			WNB
238	Test Truck	7/15/2005	2	105	111	207	4.0	210.0	222.00	414	995.4	995			WNB
239	BFLU 000052 F	7/15/2005	2	105	1	76	4.0	210.0	2.00	152	-9.1	-283			WNB
240	BFLU 000052 R	7/15/2005	2	105	1	73	4.0	210.0	2.00	146	-9.1	-312			WNB
241	BFLU 000052 B	7/15/2005	2	105	1	68	4.0	210.0	2.00	136	-9.1	-361			WNB
242	BFLU 000052 L	7/15/2005	2	105	3	67	4.0	210.0	6.00	134	9.1	-371			WNB
243	BFLU 000119 F	7/15/2005	2	105	2	72	4.0	210.0	4.00	144	0.0	-322			WNB
244	BFLU 000119 R	7/15/2005	2	105	5	60	4.0	210.0	10.00	120	27.4	-439			WNB
245	BFLU 000119 B	7/15/2005	2	105	1	71	4.0	210.0	2.00	142	-9.1	-332			WNB
246	BFLU 000119 L	7/15/2005	2	105	2	63	4.0	210.0	4.00	126	0.0	-410			WNB
247	BFLU 000165 F	7/15/2005	2	105	2	72	4.0	210.0	4.00	144	0.0	-322			WNB
248	BFLU 000165 R	7/15/2005	2	105	4	59	4.0	210.0	8.00	118	18.3	-449			WNB
249	BFLU 000165 B	7/15/2005	2	105	0	52	4.0	210.0	0.00	104	-18.3	-517			WNB
250	BFLU 000165 L	7/15/2005	2	105	2	80	4.0	210.0	4.00	160	0.0	-244			WNB
251	BFLU 000078 F	7/15/2005	2	105	2	72	4.0	210.0	4.00	144	0.0	-322			WNB
252	BFLU 000078 R	7/15/2005	2	105	1	65	4.0	210.0	2.00	130	-9.1	-390			WNB
253	BFLU 000078 B	7/15/2005	2	105	0	49	4.0	210.0	0.00	98	-18.3	-546			WNB
254	BFLU 000078 L	7/15/2005	2	105	1	97	4.0	210.0	2.00	194	-9.1	-78			WNB
255	Test Truck	7/18/2005	3	101	112	203	6.0	202.0	224.00	406	995.4	995			BNC
256	BFLU 000402 F	7/18/2005	3	101	2	71	6.0	202.0	4.00	142	-9.1	-293			BNC
257	BFLU 000402 R	7/18/2005	3	101	1	72	6.0	202.0	2.00	144	-18.3	-283			BNC
258	BFLU 000402 B	7/18/2005	3	101	2	66	6.0	202.0	4.00	132	-9.1	-341			BNC

Detector Active Area (cm ²)
100

α eff	β eff
0.2190	0.2050

Static Count Time (min)
0.5

Daily Background Count Time (min)
0.5

dpm/100 cm ²	
α Flag	β Flag
1000	1000

* Morning Daily Count

seq. #	Sample ID# and Description	Date	Background Total Counts*		Sample Total Counts		Background (cpm)		Sample Counts (cpm)		Sample (dpm/100 cm ²)		> α flag	> β flag	Tech. Initial
			α	β	α	β	α	β	α	β	α	β			
271	BLFU 000328 B	7/19/2005	2	108	2	63	4.0	216.0	4.00	126	0.0	-439			BNC
272	BLFU 000328 L	7/19/2005	2	108	1	78	4.0	216.0	2.00	156	-9.1	-293			BNC
273	BLFU 000337 F	7/19/2005	2	108	3	64	4.0	216.0	6.00	128	9.1	-429			BNC
274	BLFU 000337 R	7/19/2005	2	108	2	56	4.0	216.0	4.00	112	0.0	-507			BNC
275	BLFU 000337 B	7/19/2005	2	108	4	61	4.0	216.0	8.00	122	18.3	-459			BNC
276	BLFU 000337 L	7/19/2005	2	108	1	73	4.0	216.0	2.00	146	-9.1	-341			BNC
277	BLFU 000297 F	7/19/2005	2	108	1	55	4.0	216.0	2.00	110	-9.1	-517			BNC
278	BLFU 000297 R	7/19/2005	2	108	3	75	4.0	216.0	6.00	150	9.1	-322			BNC
279	BLFU 000297 B	7/19/2005	2	108	0	62	4.0	216.0	0.00	124	-18.3	-449			BNC
280	BLFU 000297 L	7/19/2005	2	108	2	64	4.0	216.0	4.00	128	0.0	-429			BNC
281	BLFU 000386 F	7/19/2005	2	108	2	53	4.0	216.0	4.00	106	0.0	-537			BNC
282	BLFU 000386 R	7/19/2005	2	108	1	73	4.0	216.0	2.00	146	-9.1	-341			BNC
283	BLFU 000386 B	7/19/2005	2	108	1	45	4.0	216.0	2.00	90	-9.1	-615			BNC
284	BLFU 000386 L	7/19/2005	2	108	4	54	4.0	216.0	8.00	108	18.3	-527			BNC
285	GLNTC-05-018-01	7/21/2005	4	106	0	111	8.0	212.0	0.00	222	-36.5	49			WNB
286	GLNTC-05-018-02	7/21/2005	4	106	1	92	8.0	212.0	2.00	184	-27.4	-137			WNB
287	GLNTC-05-018-03	7/21/2005	4	106	3	124	8.0	212.0	6.00	248	-9.1	176			WNB
288	GLNTC-05-018-04	7/21/2005	4	106	0	109	8.0	212.0	0.00	218	-36.5	29			WNB
289	GLNTC-05-018-05	7/21/2005	4	106	2	135	8.0	212.0	4.00	270	-18.3	283			WNB
290	GLNTC-05-018-06	7/21/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
291	GLNTC-05-018-07	7/21/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
292	GLNTC-05-018-08	7/21/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
293	GLNTC-05-018-09	7/21/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
294	GLNTC-05-018-10	7/21/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
295	GLNTC-05-018-11	7/21/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
296	GLNTC-05-018-12	7/21/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
297	GLNTC-05-018-13	7/21/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
298	GLNTC-05-019-01	7/21/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
299	GLNTC-05-019-02	7/21/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
300	GLNTC-05-019-03	7/21/2005	4	106	0	64	8.0	212.0	0.00	128	-36.5	-410			WNB
301	GLNTC-05-019-04	7/21/2005	4	106	2	82	8.0	212.0	4.00	164	-18.3	-234			WNB
302	GLNTC-05-019-05	7/21/2005	4	106	4	79	8.0	212.0	8.00	158	0.0	-263			WNB
303	GLNTC-05-019-06	7/21/2005	4	106	0	80	8.0	212.0	0.00	160	-36.5	-254			WNB
304	GLNTC-05-019-07	7/21/2005	4	106	1	68	8.0	212.0	2.00	136	-27.4	-371			WNB
305	GLNTC-05-019-08	7/21/2005	4	106	1	70	8.0	212.0	2.00	140	-27.4	-351			WNB
306	GLNTC-05-019-09	7/21/2005	4	106	1	84	8.0	212.0	2.00	168	-27.4	-215			WNB
307	GLNTC-05-019-10	7/21/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
308	GLNTC-05-019-11	7/21/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
309	GLNTC-05-019-12	7/21/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
310	GLNTC-05-019-13	7/21/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
311	GLNTC-05-019-14	7/21/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
312	GLNTC-05-019-15	7/21/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
313	GLNTC-05-019-16	7/21/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
314	GLNTC-05-019-17	7/21/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
315	GLNTC-05-020-01	7/22/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
316	GLNTC-05-020-02	7/22/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
317	GLNTC-05-020-03	7/22/2005	4	106	1	76	8.0	212.0	2.00	152	-27.4	-293			WNB
318	GLNTC-05-020-04	7/22/2005	4	106	0	75	8.0	212.0	0.00	150	-36.5	-302			WNB
319	GLNTC-05-020-05	7/22/2005	4	106	0	72	8.0	212.0	0.00	144	-36.5	-332			WNB
320	GLNTC-05-020-06	7/22/2005	4	106	0	75	8.0	212.0	0.00	150	-36.5	-302			WNB
321	GLNTC-05-020-07	7/22/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
322	GLNTC-05-020-08	7/22/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
323	GLNTC-05-020-09	7/22/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
324	GLNTC-05-020-10	7/22/2005	4	106	N/A	N/A	8.0	212.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
325	GLNTC-05-020-11	7/22/2005	4	106	0	62	8.0	212.0	0.00	124	-36.5	-429			WNB
326	GLNTC-05-020-12	7/22/2005	4	106	1	58	8.0	212.0	2.00	116	-27.4	-468			WNB
327	GLNTC-05-020-13	7/22/2005	4	106	2	49	8.0	212.0	4.00	98	-18.3	-556			WNB
328	GLNTC-05-020-14	7/22/2005	4	106	1	60	8.0	212.0	2.00	120	-27.4	-449			WNB
329	RR Rails Test	7/27/2005	2	80	111	182	4.0	160.0	222.00	364	995.4	995			BNC

N/A indicates that smear samples for that particular piece of equipment were not collected because they were not in use since the previous smear sample was collected.

Smear/Static Worksheet - Ludlum 2224-1 S/N 162426 w/ Ludlum 43-93 S/N PR 193921 - 1.0 Minute Counts (Rev 5)

Counting Instrument:			Ludlum 2224-1		Detector:		Ludlum 43-93		Calibration Date:		8/3/2005							
Serial #:			162426		Serial #:		PR 193921		12 month calibration:		OK							
Detector Active Area or Area Covered by Smear (cm ²):							100				NRC 6 Mo Cal. Due Date?		OK					
	Efficiency (fraction)	Source Nuclide	Source Number	Original Source Activity (DPM)	Source Creation Date	T _{1/2} (yr)	Source Decayed Activity	Required MDA (DPM/100cm ²)	Control Chart & Daily Bkg Count Time	Control Chart & Daily Source- Sample Count Time	Control Chart bkg Average α/β cpm	Control Chart bkg 1 sigma, cpm	Control Chart Source-bkg Average α/β cpm	Control Chart source 1 sigma, cpm				
Alpha	0.2190	Th-230	99Th4700992	5,380	5/1/1999	7.54E+04	5,380	200	1	1	#DIV/0!	#DIV/0!	#DIV/0!	#VALUE!				
Beta	0.2050	Tc-99	1903-04	27,800	3/30/2004	2.11E+05	27,800	200	1	1	#DIV/0!	#DIV/0!	#DIV/0!	#VALUE!				
Date	Daily Bkg Counts		Daily Check Source Counts		Daily Bkg Rate (cpm)		Net Daily Source Rate (cpm)		Bkg QC Pass/Fail		Source QC Pass/Fail		MDA α (dpm)	MDA β (dpm)	α MDA OK?	β MDA OK?	H.P. Technician	Technician Initials
	Alpha	Beta	Alpha	Beta	Alpha	Beta	Alpha	Beta	Alpha	Beta	Alpha	Beta						
8/1/2005	4	235	1128	5777	4.0	235.0	1124.0	5542.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	56.19	363	Yes	No	Neil	WNB
8/2/2005	4	229	1142	5731	4.0	229.0	1138.0	5502.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	56.19	358	Yes	No	Neil	WNB

α eff	β eff
0.2190	0.2050

Sample Count Time (min)	Daily Background Count Time (min)
1.0	1.0

dpm/100 cm ²	
α Flag	β Flag
200	200

* Morning Daily Count

seq. #	Sample ID# and Description	Date	Background Total Counts*		Sample Total Counts		Background (cpm)		Sample Counts (cpm)		Sample (dpm/100 cm ²)		> α flag	> β flag	Tech. Initial
			α	β	α	β	α	β	α	β	α	β			
1	GLNTC-05-028-01-01	8/2/2005	4	229	5	233	4.0	229.0	5.00	233	4.6	20			WNB
2	GLNTC-05-028-01-02	8/2/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
3	GLNTC-05-028-01-03	8/2/2005	4	229	0	85	4.0	229.0	0.00	85	-18.3	-702			WNB
4	GLNTC-05-028-02-01	8/1/2005	4	235	3	232	4.0	235.0	3.00	232	-4.6	-15			WNB
5	GLNTC-05-028-02-02	8/1/2005	4	235	N/A	N/A	4.0	235.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
6	GLNTC-05-028-02-03	8/1/2005	4	235	0	107	4.0	235.0	0.00	107	-18.3	-624			WNB
7	GLNTC-05-028-03-01	8/1/2005	4	235	4	230	4.0	235.0	4.00	230	0.0	-24			WNB
8	GLNTC-05-028-03-02	8/1/2005	4	235	N/A	N/A	4.0	235.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
9	GLNTC-05-028-03-03	8/1/2005	4	235	0	90	4.0	235.0	0.00	90	-18.3	-707			WNB
10	GLNTC-05-028-04-01	8/1/2005	4	235	4	249	4.0	235.0	4.00	249	0.0	68			WNB
11	GLNTC-05-028-04-02	8/1/2005	4	235	N/A	N/A	4.0	235.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
12	GLNTC-05-028-04-03	8/1/2005	4	235	1	127	4.0	235.0	1.00	127	-13.7	-527			WNB
13	GLNTC-05-028-05-01	8/1/2005	4	235	1	248	4.0	235.0	1.00	248	-13.7	63			WNB
14	GLNTC-05-028-05-02	8/1/2005	4	235	N/A	N/A	4.0	235.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
15	GLNTC-05-028-05-03	8/1/2005	4	235	0	112	4.0	235.0	0.00	112	-18.3	-600			WNB
16	GLNTC-05-028-06-01	8/1/2005	4	235	3	250	4.0	235.0	3.00	250	-4.6	73			WNB
17	GLNTC-05-028-06-02	8/1/2005	4	235	N/A	N/A	4.0	235.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
18	GLNTC-05-028-06-03	8/1/2005	4	235	4	113	4.0	235.0	4.00	113	0.0	-595			WNB
19	GLNTC-05-028-07-01	8/1/2005	4	235	5	291	4.0	235.0	5.00	291	4.6	273		FLAG	WNB
20	GLNTC-05-028-07-02	8/1/2005	4	235	N/A	N/A	4.0	235.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
21	GLNTC-05-028-07-03	8/1/2005	4	235	1	91	4.0	235.0	1.00	91	-13.7	-702			WNB
22	GLNTC-05-028-08-01	8/2/2005	4	229	5	224	4.0	229.0	5.00	224	4.6	-24			WNB
23	GLNTC-05-028-08-02	8/2/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
24	GLNTC-05-028-08-03	8/2/2005	4	229	0	100	4.0	229.0	0.00	100	-18.3	-629			WNB
25	GLNTC-05-028-09-01	8/2/2005	4	229	2	202	4.0	229.0	2.00	202	-9.1	-132			WNB
26	GLNTC-05-028-09-02	8/2/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
27	GLNTC-05-028-09-03	8/2/2005	4	229	2	84	4.0	229.0	2.00	84	-9.1	-707			WNB
28	GLNTC-05-028-10-01	8/2/2005	4	229	15	291	4.0	229.0	15.00	291	50.2	302		FLAG	WNB
29	GLNTC-05-028-10-02	8/2/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
30	GLNTC-05-028-10-03	8/2/2005	4	229	3	70	4.0	229.0	3.00	70	-4.6	-776			WNB
31	GLNTC-05-028-11-01	8/2/2005	4	229	0	183	4.0	229.0	0.00	183	-18.3	-224			WNB
32	GLNTC-05-028-11-02	8/2/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
33	GLNTC-05-028-11-03	8/2/2005	4	229	2	81	4.0	229.0	2.00	81	-9.1	-722			WNB
34	GLNTC-05-028-12-01	8/2/2005	4	229	1	176	4.0	229.0	1.00	176	-13.7	-259			WNB
35	GLNTC-05-028-12-02	8/2/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
36	GLNTC-05-028-12-03	8/2/2005	4	229	2	82	4.0	229.0	2.00	82	-9.1	-717			WNB
37	GLNTC-05-028-13-01	8/2/2005	4	229	4	174	4.0	229.0	4.00	174	0.0	-268			WNB
38	GLNTC-05-028-13-02	8/2/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
39	GLNTC-05-028-13-03	8/2/2005	4	229	3	73	0.0	1.1	3.00	73	-4.6	-761			WNB
40	GLNTC-05-028-14-01	8/2/2005	4	229	2	169	0.0	1.1	2.00	169	-9.1	-293			WNB
41	GLNTC-05-028-14-02	8/2/2005	4	229	N/A	N/A	0.0	1.1	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
42	GLNTC-05-028-14-03	8/2/2005	4	229	2	82	0.0	1.1	2.00	82	-9.1	-717			WNB
43	GLNTC-05-028-15-01	8/2/2005	4	229	2	138	0.0	1.1	2.00	138	-9.1	-444			WNB
44	GLNTC-05-028-15-02	8/2/2005	4	229	N/A	N/A	0.0	1.1	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
45	GLNTC-05-028-15-03	8/2/2005	4	229	1	73	0.0	1.1	1.00	73	-13.7	-761			WNB
46	GLNTC-05-036-01	8/2/2005	4	229	0	224	4.0	229.0	0.00	224	-18.3	-24			WNB
47	GLNTC-05-036-02	8/2/2005	4	229	0	157	4.0	229.0	0.00	157	-18.3	-351			WNB
48	GLNTC-05-036-03	8/2/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
49	GLNTC-05-036-04	8/2/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
50	GLNTC-05-036-05	8/2/2005	4	229	1	288	4.0	229.0	1.00	288	-13.7	288		FLAG	WNB
51	GLNTC-05-036-06	8/2/2005	4	229	5	263	4.0	229.0	5.00	263	4.6	166			WNB
52	GLNTC-05-044-01	8/3/2005	4	229	2	302	4.0	229.0	2.00	302	-9.1	356		FLAG	WNB
53	GLNTC-05-044-02	8/3/2005	4	229	2	280	4.0	229.0	2.00	280	-9.1	249		FLAG	WNB
54	GLNTC-05-044-03	8/3/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
55	GLNTC-05-044-04	8/3/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
56	GLNTC-05-044-05	8/3/2005	4	229	1	245	4.0	229.0	1.00	245	-13.7	78			WNB
57	GLNTC-05-044-06	8/3/2005	4	229	2	195	4.0	229.0	2.00	195	-9.1	-166			WNB

N/A indicates that smear samples for that particular piece of equipment were not collected because they were not in use since the previous smear sample was collected.

Detector Active Area (cm ²)
100

α eff	β eff
0.2190	0.2050

Static Count Time (min)
1.0

Daily Background Count Time (min)
1.0

dpm/100 cm ²	
α Flag	β Flag
1000	1000

* Morning Daily Count

seq. #	Sample ID# and Description	Date	Background Total Counts*		Sample Total Counts		Background (cpm)		Sample Counts (cpm)		Sample (dpm/100 cm ²)		> α flag	> β flag	Tech. Initial
			α	β	α	β	α	β	α	β	α	β			
1	GLNTC-05-028-01-01	8/2/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
2	GLNTC-05-028-01-02	8/2/2005	4	229	3	183	4.0	229.0	3.00	183	-4.6	-224	#VALUE!	#VALUE!	WNB
3	GLNTC-05-028-01-03	8/2/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
4	GLNTC-05-028-02-01	8/1/2005	4	235	N/A	N/A	4.0	235.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
5	GLNTC-05-028-02-02	8/1/2005	4	235	4	193	4.0	235.0	4.00	193	0.0	-205	#VALUE!	#VALUE!	WNB
6	GLNTC-05-028-02-03	8/1/2005	4	235	N/A	N/A	4.0	235.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
7	GLNTC-05-028-03-01	8/1/2005	4	235	N/A	N/A	4.0	235.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
8	GLNTC-05-028-03-02	8/1/2005	4	235	4	225	4.0	235.0	4.00	225	0.0	-49	#VALUE!	#VALUE!	WNB
9	GLNTC-05-028-03-03	8/1/2005	4	235	N/A	N/A	4.0	235.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
10	GLNTC-05-028-04-01	8/1/2005	4	235	N/A	N/A	4.0	235.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
11	GLNTC-05-028-04-02	8/1/2005	4	235	4	213	4.0	235.0	4.00	213	0.0	-107	#VALUE!	#VALUE!	WNB
12	GLNTC-05-028-04-03	8/1/2005	4	235	N/A	N/A	4.0	235.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
13	GLNTC-05-028-05-01	8/1/2005	4	235	N/A	N/A	4.0	235.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
14	GLNTC-05-028-05-02	8/1/2005	4	235	2	227	4.0	235.0	2.00	227	-9.1	-39	#VALUE!	#VALUE!	WNB
15	GLNTC-05-028-05-03	8/1/2005	4	235	N/A	N/A	4.0	235.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
16	GLNTC-05-028-06-01	8/1/2005	4	235	N/A	N/A	4.0	235.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
17	GLNTC-05-028-06-02	8/1/2005	4	235	11	222	4.0	235.0	11.00	222	32.0	-63	#VALUE!	#VALUE!	WNB
18	GLNTC-05-028-06-03	8/1/2005	4	235	N/A	N/A	4.0	235.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
19	GLNTC-05-028-07-01	8/1/2005	4	235	N/A	N/A	4.0	235.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
20	GLNTC-05-028-07-02	8/1/2005	4	235	5	183	4.0	235.0	5.00	183	4.6	-254	#VALUE!	#VALUE!	WNB
21	GLNTC-05-028-07-03	8/1/2005	4	235	N/A	N/A	4.0	235.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
22	GLNTC-05-028-08-01	8/2/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
23	GLNTC-05-028-08-02	8/2/2005	4	229	0	219	4.0	229.0	0.00	219	-18.3	-49	#VALUE!	#VALUE!	WNB
24	GLNTC-05-028-08-03	8/2/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
25	GLNTC-05-028-09-01	8/2/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
26	GLNTC-05-028-09-02	8/2/2005	4	229	3	200	4.0	229.0	3.00	200	-4.6	-141	#VALUE!	#VALUE!	WNB
27	GLNTC-05-028-09-03	8/2/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
28	GLNTC-05-028-10-01	8/2/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
29	GLNTC-05-028-10-02	8/2/2005	4	229	1	135	4.0	229.0	1.00	135	-13.7	-459	#VALUE!	#VALUE!	WNB
30	GLNTC-05-028-10-03	8/2/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
31	GLNTC-05-028-11-01	8/2/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
32	GLNTC-05-028-11-02	8/2/2005	4	229	0	153	4.0	229.0	0.00	153	-18.3	-371	#VALUE!	#VALUE!	WNB
33	GLNTC-05-028-11-03	8/2/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
34	GLNTC-05-028-12-01	8/2/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
35	GLNTC-05-028-12-02	8/2/2005	4	229	1	179	4.0	229.0	1.00	179	-13.7	-244	#VALUE!	#VALUE!	WNB
36	GLNTC-05-028-12-03	8/2/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
37	GLNTC-05-028-13-01	8/2/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
38	GLNTC-05-028-13-02	8/2/2005	4	229	2	164	4.0	229.0	2.00	164	-9.1	-317	#VALUE!	#VALUE!	WNB
39	GLNTC-05-028-13-03	8/2/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
40	GLNTC-05-028-14-01	8/2/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
41	GLNTC-05-028-14-02	8/2/2005	4	229	2	150	4.0	229.0	2.00	150	-9.1	-385	#VALUE!	#VALUE!	WNB
42	GLNTC-05-028-14-03	8/2/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
43	GLNTC-05-028-15-01	8/2/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
44	GLNTC-05-028-15-02	8/2/2005	4	229	2	154	4.0	229.0	2.00	154	-9.1	-366	#VALUE!	#VALUE!	WNB
45	GLNTC-05-028-15-03	8/2/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
46	GLNTC-05-036-01	8/2/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
47	GLNTC-05-036-02	8/2/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
48	GLNTC-05-036-03	8/2/2005	4	229	5	363	4.0	229.0	5.00	363	4.6	654	#VALUE!	#VALUE!	WNB
49	GLNTC-05-036-04	8/2/2005	4	229	2	295	4.0	229.0	2.00	295	-9.1	322	#VALUE!	#VALUE!	WNB
50	GLNTC-05-036-05	8/2/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
51	GLNTC-05-036-06	8/2/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
52	GLNTC-05-044-01	8/3/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
53	GLNTC-05-044-02	8/3/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
54	GLNTC-05-044-03	8/3/2005	4	229	0	269	4.0	229.0	0.00	269	-18.3	195	#VALUE!	#VALUE!	WNB
55	GLNTC-05-044-04	8/3/2005	4	229	1	221	4.0	229.0	1.00	221	-13.7	-39	#VALUE!	#VALUE!	WNB
56	GLNTC-05-044-05	8/3/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
57	GLNTC-05-044-06	8/3/2005	4	229	N/A	N/A	4.0	229.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB

N/A indicates that smear samples for that particular piece of equipment were not collected because they were not in use since the previous smear sample was collected.

Smear/Static Worksheet - Ludlum 2360 S/N 202398 w/ Ludlum 43-93 S/N PR 211706 - 1.0 Minute Counts (Rev 5)

Counting Instrument:			Ludlum 2360		Detector:		Ludlum 43-93		Calibration Date:		6/26/2006								
Serial #:			202398		Serial #:		PR		12 month calibration:		OK								
Detector Active Area or Area Covered by Smear (cm ²):							100		NRC 6 Mo Cal. Due Date?		OK								
	Efficiency (fraction)	Source Nuclide	Source Number	Original Source Activity (DPM)	Source Creation Date	T _{1/2} (yr)	Source Decayed Activity	Required MDA (DPM/100cm ²)	Control Chart & Daily Bkg Count Time	Control Chart & Daily Source- Sample Count Time	Control Chart bkg Average α/β cpm	Control Chart bkg 1 sigma, cpm	Control Chart Source-bkg Average α/β cpm	Control Chart source 1 sigma, cpm					
Alpha	0.2000	Th-230	99Th4700992	5,380	5/1/1999	7.54E+04	5,380	200	1	1	#DIV/0!	#DIV/0!	#DIV/0!	#VALUE!					
Beta	0.3100	Tc-99	1903-04	27,800	3/30/2004	2.11E+05	27,800	200	1	1	#DIV/0!	#DIV/0!	#DIV/0!	#VALUE!					
Date	Daily Bkg Counts		Daily Check Source Counts		Daily Bkg Rate (cpm)		Net Daily Source Rate (cpm)		Bkg QC Pass/Fail		Source QC Pass/Fail		MDA α (dpm)	MDA β (dpm)	α MDA OK?	β MDA OK?	H.P. Technician	Technician Initials	
	Alpha	Beta	Alpha	Beta	Alpha	Beta	Alpha	Beta	Alpha	Beta	Alpha	Beta							
8/4/2005	4	240	727	8171	4.0	240.0	723.0	7931.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	61.53	242	Yes	No	Neil	WNB	

α eff	β eff
0.2000	0.3100

Sample Count Time (min)	Daily Background Count Time (min)
1.0	1.0

dpm/100 cm ²	
α Flag	β Flag
200	200

* Morning Daily Count

seq. #	Sample ID# and Description	Date	Background Total Counts*		Sample Total Counts		Background (cpm)		Sample Counts (cpm)		Sample (dpm/100 cm ²)		> α flag	> β flag	Tech. Initial
			α	β	α	β	α	β	α	β	α	β			
1	GLNTC-05-028-16-01	8/4/2005	4	240	7	263	4.0	240.0	7.00	263	15.0	74			WNB
2	GLNTC-05-028-16-02	8/4/2005	4	240	N/A	N/A	4.0	240.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
3	GLNTC-05-028-16-03	8/4/2005	4	240	0	114	4.0	240.0	0.00	114	-20.0	-406			WNB
4	GLNTC-05-028-17-01	8/4/2005	4	240	2	287	4.0	240.0	2.00	287	-10.0	152			WNB
5	GLNTC-05-028-17-02	8/4/2005	4	240	N/A	N/A	4.0	240.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
6	GLNTC-05-028-17-03	8/4/2005	4	240	0	132	4.0	240.0	0.00	132	-20.0	-348			WNB
7	GLNTC-05-028-18-01	8/4/2005	4	240	5	324	4.0	240.0	5.00	324	5.0	271		FLAG	WNB
8	GLNTC-05-028-18-02	8/4/2005	4	240	N/A	N/A	4.0	240.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
9	GLNTC-05-028-18-03	8/4/2005	4	240	2	152	4.0	240.0	2.00	152	-10.0	-284			WNB
10	GLNTC-05-028-19-01	8/4/2005	4	240	2	293	4.0	240.0	2.00	293	-10.0	171			WNB
11	GLNTC-05-028-19-02	8/4/2005	4	240	N/A	N/A	4.0	240.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
12	GLNTC-05-028-19-03	8/4/2005	4	240	2	154	4.0	240.0	2.00	154	-10.0	-277			WNB
13	GLNTC-05-028-20-01	8/4/2005	4	240	4	221	4.0	240.0	4.00	221	0.0	-61			WNB
14	GLNTC-05-028-20-02	8/4/2005	4	240	N/A	N/A	4.0	240.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
15	GLNTC-05-028-20-03	8/4/2005	4	240	0	38	4.0	240.0	0.00	38	-20.0	-652			WNB
16	GLNTC-05-028-21-01	8/4/2005	4	240	2	276	4.0	240.0	2.00	276	-10.0	116			WNB
17	GLNTC-05-028-21-02	8/4/2005	4	240	N/A	N/A	4.0	240.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
18	GLNTC-05-028-21-03	8/4/2005	4	240	2	129	4.0	240.0	2.00	129	-10.0	-358			WNB
19	GLNTC-05-028-22-01	8/4/2005	4	240	6	292	4.0	240.0	6.00	292	10.0	168			WNB
20	GLNTC-05-028-22-02	8/4/2005	4	240	N/A	N/A	4.0	240.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
21	GLNTC-05-028-22-03	8/4/2005	4	240	3	128	4.0	240.0	3.00	128	-5.0	-361			WNB
22	GLNTC-05-028-23-01	8/4/2005	4	240	6	311	4.0	240.0	6.00	311	10.0	229		FLAG	WNB
23	GLNTC-05-028-23-02	8/4/2005	4	240	N/A	N/A	4.0	240.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
24	GLNTC-05-028-23-03	8/4/2005	4	240	5	120	4.0	240.0	5.00	120	5.0	-387			WNB
25	GLNTC-05-028-24-01	8/4/2005	4	240	5	279	4.0	240.0	5.00	279	5.0	126			WNB
26	GLNTC-05-028-24-02	8/4/2005	4	240	N/A	N/A	4.0	240.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
27	GLNTC-05-028-24-03	8/4/2005	4	240	10	202	4.0	240.0	10.00	202	30.0	-123			WNB
28	GLNTC-05-028-25-01	8/4/2005	4	240	1	336	4.0	240.0	1.00	336	-15.0	310		FLAG	WNB
29	GLNTC-05-028-25-02	8/4/2005	4	240	N/A	N/A	4.0	240.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
30	GLNTC-05-028-25-03	8/4/2005	4	240	4	181	4.0	240.0	4.00	181	0.0	-190			WNB
31	GLNTC-05-028-26-01	8/4/2005	4	240	3	311	4.0	240.0	3.00	311	-5.0	229		FLAG	WNB
32	GLNTC-05-028-26-02	8/4/2005	4	240	N/A	N/A	4.0	240.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
33	GLNTC-05-028-26-03	8/4/2005	4	240	7	155	4.0	240.0	7.00	155	15.0	-274			WNB

N/A indicates that smear samples for that particular piece of equipment were not collected because they were not in use since the previous smear sample was collected.

Detector Active Area (cm ²)
100

α eff	β eff
0.2000	0.3100

Static Count Time (min)
1.0

Daily Background Count Time (min)
1.0

dpm/100 cm ²
α Flag β Flag
1000 1000

* Morning Daily Count

seq. #	Sample ID# and Description	Date	Background Total Counts*		Sample Total Counts		Background (cpm)		Sample Counts (cpm)		Sample (dpm/100 cm ²)		> α flag	> β flag	Tech. Initial
			α	β	α	β	α	β	α	β	α	β			
1	GLNTC-05-028-16-01	8/4/2005	4	240	N/A	N/A	4.0	240.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
2	GLNTC-05-028-16-02	8/4/2005	4	240	4	219	4.0	240.0	4.00	219	0.0	-68	#VALUE!	#VALUE!	WNB
3	GLNTC-05-028-16-03	8/4/2005	4	240	N/A	N/A	4.0	240.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
4	GLNTC-05-028-17-01	8/4/2005	4	240	N/A	N/A	4.0	240.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
5	GLNTC-05-028-17-02	8/4/2005	4	240	5	289	4.0	240.0	5.00	289	5.0	158	#VALUE!	#VALUE!	WNB
6	GLNTC-05-028-17-03	8/4/2005	4	240	N/A	N/A	4.0	240.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
7	GLNTC-05-028-18-01	8/4/2005	4	240	N/A	N/A	4.0	240.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
8	GLNTC-05-028-18-02	8/4/2005	4	240	7	237	4.0	240.0	7.00	237	15.0	-10	#VALUE!	#VALUE!	WNB
9	GLNTC-05-028-18-03	8/4/2005	4	240	N/A	N/A	4.0	240.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
10	GLNTC-05-028-19-01	8/4/2005	4	240	N/A	N/A	4.0	240.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
11	GLNTC-05-028-19-02	8/4/2005	4	240	8	271	4.0	240.0	8.00	271	20.0	100	#VALUE!	#VALUE!	WNB
12	GLNTC-05-028-19-03	8/4/2005	4	240	N/A	N/A	4.0	240.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
13	GLNTC-05-028-20-01	8/4/2005	4	240	N/A	N/A	4.0	240.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
14	GLNTC-05-028-20-02	8/4/2005	4	240	3	248	4.0	240.0	3.00	248	-5.0	26	#VALUE!	#VALUE!	WNB
15	GLNTC-05-028-20-03	8/4/2005	4	240	N/A	N/A	4.0	240.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
16	GLNTC-05-028-21-01	8/4/2005	4	240	N/A	N/A	4.0	240.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
17	GLNTC-05-028-21-02	8/4/2005	4	240	9	240	4.0	240.0	9.00	240	25.0	0	#VALUE!	#VALUE!	WNB
18	GLNTC-05-028-21-03	8/4/2005	4	240	N/A	N/A	4.0	240.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
19	GLNTC-05-028-22-01	8/4/2005	4	240	N/A	N/A	4.0	240.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
20	GLNTC-05-028-22-02	8/4/2005	4	240	8	253	4.0	240.0	8.00	253	20.0	42	#VALUE!	#VALUE!	WNB
21	GLNTC-05-028-22-03	8/4/2005	4	240	N/A	N/A	4.0	240.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
22	GLNTC-05-028-23-01	8/4/2005	4	240	N/A	N/A	4.0	240.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
23	GLNTC-05-028-23-02	8/4/2005	4	240	12	300	4.0	240.0	12.00	300	40.0	194	#VALUE!	#VALUE!	WNB
24	GLNTC-05-028-23-03	8/4/2005	4	240	N/A	N/A	4.0	240.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
25	GLNTC-05-028-24-01	8/4/2005	4	240	N/A	N/A	4.0	240.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
26	GLNTC-05-028-24-02	8/4/2005	4	240	10	230	4.0	240.0	10.00	230	30.0	-32	#VALUE!	#VALUE!	WNB
27	GLNTC-05-028-24-03	8/4/2005	4	240	N/A	N/A	4.0	240.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
28	GLNTC-05-028-25-01	8/4/2005	4	240	N/A	N/A	4.0	240.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
29	GLNTC-05-028-25-02	8/4/2005	4	240	7	262	4.0	240.0	7.00	262	15.0	71	#VALUE!	#VALUE!	WNB
30	GLNTC-05-028-25-03	8/4/2005	4	240	N/A	N/A	4.0	240.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
31	GLNTC-05-028-26-01	8/4/2005	4	240	N/A	N/A	4.0	240.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB
32	GLNTC-05-028-26-02	8/4/2005	4	240	6	256	4.0	240.0	6.00	256	10.0	52	#VALUE!	#VALUE!	WNB
33	GLNTC-05-028-26-03	8/4/2005	4	240	N/A	N/A	4.0	240.0	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	WNB

N/A indicates that smear samples for that particular piece of equipment were not collected because they were not in use since the previous smear sample was collected.

Airborne Concentrations Log - Ludlum 2929 S/N 129566 w/ Ludlum 43-10-1 S/N PR 132720 - 60 Minute Counts (Rev 3)

Counting Instrument:			2929		Detector:	43-10-1		Cal. Date:		5/23/2005											
Serial #:			129566		Serial #:	PR 132720		Cal. Due Date OK?		WARNING											
Radiation Type	Counting Efficiency (fraction)	Source Nuclide	Source Number	Original Source Activity (DPM)	Source Creation Date	T _{1/2} (yr)	Source Decayed Activity	Sample Count time (min)	Background Count time (min)		Isotope of Concern										
Alpha	0.3050	Th-230	99Th700992	5,380	5/1/99	7.54E+04	5380	60	5		Isotope	10CFR20 Occupational /Effluent DAC									
Beta	0.2320	Tc-99	1903-04	27,800	3/30/04	2.11E+05	27800	60	5		Th-232	4.00E-15									
Type			Air Sample Start Date/Time	Air Sample End Date/Time	Count Date	Run Time (min)	Flow Rate (lpm)	Sample Gross Alpha (Counts)	Sample Gross Beta (Counts)	Alpha Bkg (cpm)	Beta Bkg (cpm)	Filter Efficiency (fraction)	Sample Alpha Activity (dpm)	Sample Beta Activity (dpm)	Alpha Count Concen. (uCi/cc)	Beta Count Concen. (uCi/cc)	Fraction Environ. Effluent Limit Alpha	Fraction Environ. Effluent Limit Beta	Alpha MDA (uCi/cc)	Beta MDA (uCi/cc)	
Area Boundary			6/21/05 11:00	6/27/05 17:00	07/06/05	2310	80.0	30	2713	0.3	43.2	1.00	1	9	1.60E-15	2.12E-14	0.40	5.30	7.06E-15	1.06E-13	

Airborne Concentrations Log - Ludlum 2929 S/N 95572 w/ Ludlum 43-10-1 S/N PR 118756 - 60 Minute Counts (Rev 3)

Counting Instrument:			2929		Detector:		43-10-1		Cal. Date:		10/20/2004										
Serial #:			95572		Serial #:		PR 118756		Cal. Due Date OK?		WARNING										
Radiation Type	Counting Efficiency (fraction)	Source Nuclide	Source Number	Original Source Activity (DPM)	Source Creation Date	T _{1/2} (yr)	Source Decayed Activity	Sample Count time (min)	Background Count time (min)	Isotope of Concern											
Alpha	0.3050	Th-230	99Th700992	5,380	5/1/99	7.54E+04	5380	60	20	Isotope	10CFR20 Occupational /Effluent DAC										
Beta	0.2320	Tc-99	1903-04	27,800	3/30/04	2.11E+05	27800	60	20	Th-232	4.00E-15										
Type			Air Sample Start Date/Time	Air Sample End Date/Time	Count Date	Run Time (min)	Flow Rate (lpm)	Sample Gross Alpha (Counts)	Sample Gross Beta (Counts)	Alpha Bkg (cpm)	Beta Bkg (cpm)	Filter Efficiency (fraction)	Sample Alpha Activity (dpm)	Sample Beta Activity (dpm)	Alpha Count Concen. (uCi/cc)	Beta Count Concen. (uCi/cc)	Fraction Environ. Effluent Limit Alpha	Fraction Environ. Effluent Limit Beta	Alpha MDA (uCi/cc)	Beta MDA (uCi/cc)	
Area Boundary 01			6/21/05 11:00	6/27/05 17:00	07/22/05	2310	80.0	30	2713	0.3	43.2	1.00	1	9	1.60E-15	2.12E-14	0.40	5.30	4.08E-15	5.91E-14	
Area Boundary 02			6/28/05 7:30	7/6/05 13:00	07/25/05	1920	80.0	32	2806	0.5	48.2	1.00	0	-6	3.21E-16	-1.81E-14	0.08	-4.53	6.21E-15	7.51E-14	
Area Boundary 03			7/11/05 7:00	7/13/05 16:00	07/22/05	1380	80.0	29	2784	0.3	43.2	1.00	1	14	2.45E-15	5.63E-14	0.61	14.07	6.83E-15	9.90E-14	
Area Boundary 04			7/14/05 7:30	7/20/05 13:00	07/25/05	1770	80.0	21	2139	0.50	48.20	1.00	0	-54	-1.56E-15	-1.72E-13	-0.39	-43.02	6.74E-15	8.15E-14	
Soil Lab 01			6/21/05 10:45	7/11/05 16:00	07/25/05	3915	80.0	40	2844	0.50	48.20	1.00	1	-3	7.86E-16	-4.96E-15	0.20	-1.24	3.05E-15	3.68E-14	
Soil Lab 02			7/12/05 11:00	7/25/05 14:30	07/28/05	2625	80.0	37	2889	0.40	46.65	1.00	1	6	1.52E-15	1.39E-14	0.38	3.47	4.10E-15	5.41E-14	

OP-001-02 Radiological Survey Sheet

Location: GREAT LAKES PHASE IV		RWP# GL-2005-01	Survey # 001	Survey Type: SOURCE RECEIPT	pg. 1 of 1
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Smear Results					
CPM-DPM/100cm ²					
No.	α	β	No.	α	β
1	2	56	26		
2	0	44	27		
3	1	46	28		
4	0	34	29		
5	0	67	30		
6	0	79	31		
7	0	55	32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

Comments
RECEIPT OF SOURCES

SHIPBOARD BOX

SOURCE # 1088-82-1

35 μR/hr

0.232 mR/h

5/23/05 HNJ STET 6/16/05

Surveyed By: <i>[Signature]</i>	Date: 6/15/05	Instrument: BUREAU	Serial #: 89397	α Eff: N/A	β Eff: N/A	α Bkg: N/A	β Bkg: 3.6P	Cal. Due: 11/28/05
Reviewed By: <i>[Signature]</i>	Date: 6/16/05							

Key			
○	Smear	* *	Boundary
□	Dose Rate mR/hr	■	A/S Location
*	Direct Reading DPM/100 cm ²		
△	Grab Sample		

[illegible]

OFFICE TRAILER

OP-001-02 Radiological Survey Sheet
GLNTC-05-002

Location: <u>GLNTC</u>		RWP# <u>GLNTC-05-003</u> ^{NMB} 2/1/06		Survey # <u>GLNTC-05-004</u>		Survey Type: <u>Routine</u>		pg. 1 of 1											
Smear Results		① S Entrance ② E. table ③ N. table ④ E. table ⑤ E. Entrance-Flare ⑥ Lunch table ⑦ Lunch table ⑧ Fridge ⑨ Storage shelf ⑩ S. Entrance ⑪ W. Entrance ⑫ Source Locker																	
Can BPM/100cm ²																			
No.	α	β	No.	α	β														
1	1	47	26																
2	1	53	27																
3	0	49	28																
4	0	29	29																
5	0	29	30																
6	0	46	31																
7	0	45	32																
8	0	47	33																
9	2	42	34																
10	0	39	35																
11	0	43	36																
12	0	46	37																
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22			47																
23			48																
24			49																
25			50																
Comments		See Daily Spreadsheet FOR DPM																	
OFFICE TRAILER																			
Surveyed By: <u>B. Clarke</u>		Date: <u>6.23.05</u>		Instrument: <u>2929</u>		Serial #: <u>129566</u>		α Eff. <u>.30</u>		β Eff. <u>.23</u>		α Bkg. <u>0.5</u>		β Bkg. <u>45.5</u>		Cal. Due <u>23 MAR 06</u>		Key	
Reviewed By: <u>[Signature]</u>		Date: <u>6.23.05</u>																☐ Smear ☐ Dose Rate mR/hr <input type="dot"/> Direct Reading <input type="triangle"/> DPM/100 cm ² <input type="triangle"/> Grab Sample	
																		☐ Boundary ☐ A/S Location	

OP-001-02 Radiological Survey Sheet

Location: LAB TRAILER				RWP# GLNTC-05-03				Survey # GLNTC-05-006				Survey Type: ROUTINE				pg. 1 of 1																																																																																																																																																					
Smear Results CDM - DPM/100cm ²								1 - MICROWAVE 3 - MICROWAVE 5 - HOOD 7 - S. ENTRANCE 9 - WESTABLE 11 - N. ENTRANCE 13 - FLOOR																																																																																																																																																													
No. α β No. α β								2 - MICRO WAVE 4 - MICROWAVE 6 - FLOOR 8 - EASTTABLE 10 - FREEZER 12 - FLOOR																																																																																																																																																													
<table border="1"> <tr><td>1</td><td>0</td><td>45</td><td>26</td><td></td><td></td></tr> <tr><td>2</td><td>1</td><td>45</td><td>27</td><td></td><td></td></tr> <tr><td>3</td><td>0</td><td>43</td><td>28</td><td></td><td></td></tr> <tr><td>4</td><td>0</td><td>52</td><td>29</td><td></td><td></td></tr> <tr><td>5</td><td>0</td><td>43</td><td>30</td><td></td><td></td></tr> <tr><td>6</td><td>0</td><td>45</td><td>31</td><td></td><td></td></tr> <tr><td>7</td><td>0</td><td>42</td><td>32</td><td></td><td></td></tr> <tr><td>8</td><td>0</td><td>47</td><td>33</td><td></td><td></td></tr> <tr><td>9</td><td>1</td><td>42</td><td>34</td><td></td><td></td></tr> <tr><td>10</td><td>0</td><td>54</td><td>35</td><td></td><td></td></tr> <tr><td>11</td><td>0</td><td>43</td><td>36</td><td></td><td></td></tr> <tr><td>12</td><td>0</td><td>38</td><td>37</td><td></td><td></td></tr> <tr><td>13</td><td>4</td><td>52</td><td>38</td><td></td><td></td></tr> <tr><td>14</td><td></td><td></td><td>39</td><td></td><td></td></tr> <tr><td>15</td><td></td><td></td><td>40</td><td></td><td></td></tr> <tr><td>16</td><td></td><td></td><td>41</td><td></td><td></td></tr> <tr><td>17</td><td></td><td></td><td>42</td><td></td><td></td></tr> <tr><td>18</td><td></td><td></td><td>43</td><td></td><td></td></tr> <tr><td>19</td><td></td><td></td><td>44</td><td></td><td></td></tr> <tr><td>20</td><td></td><td></td><td>45</td><td></td><td></td></tr> <tr><td>21</td><td></td><td></td><td>46</td><td></td><td></td></tr> <tr><td>22</td><td></td><td></td><td>47</td><td></td><td></td></tr> <tr><td>23</td><td></td><td></td><td>48</td><td></td><td></td></tr> <tr><td>24</td><td></td><td></td><td>49</td><td></td><td></td></tr> <tr><td>25</td><td></td><td></td><td>50</td><td></td><td></td></tr> </table>								1	0	45	26			2	1	45	27			3	0	43	28			4	0	52	29			5	0	43	30			6	0	45	31			7	0	42	32			8	0	47	33			9	1	42	34			10	0	54	35			11	0	43	36			12	0	38	37			13	4	52	38			14			39			15			40			16			41			17			42			18			43			19			44			20			45			21			46			22			47			23			48			24			49			25			50										
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Surveyed By: BUARILE Date: 6-24-05								Instrument: 2929 Serial #: 129766 α Eff.: 300 β Eff.: 23 α Bkg.: 0.5 β Bkg.: 45 Cal. Due: 23 MAR 05																																																																																																																																																													
Reviewed By: [Signature] Date: 6/27/05								Key																																																																																																																																																													
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								☐ Boundary ☐ A/S Location																																																																																																																																																													

OP-001-02 Radiological Survey Sheet

Location: <u>GLNTC</u>		RWP# <u>LAB TRAILER</u>		Survey # <u>GLNTC-05-03</u>		Survey Type: <u>Routine</u>		pg. 1 of 1											
Smear Results		1 - MICROWAVE		3 - MICROWAVE		5 - HOD		7 - S. ENTRANCE		9 - WEST TARE		11 - N. ENTRANCE		13 - FLOOR					
CPM-DPM/100cm ²		2 - MICRO WAVE		4 - MICROWAVE		6 - FLOOR		8 - EAST TARE		10 - FREEZER		12 - FLOOR							
No.	α	β	No.	α	β														
1	0	45	26																
2	1	32	27																
3	0	52	28																
4	0	39	29																
5	0	39	30																
6	0	41	31																
7	1	34	32																
8	0	46	33																
9	2	51	34																
10	0	48	35																
11	0	49	36																
12	0	46	37																
13	0	48	38																
14			39																
15			40																
16			41																
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19			44																
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21			46																
22			47																
23			48																
24			49																
25			50																
Comments																			
Surveyed By: <u>WNB</u>		Date: <u>06/28/05</u>		Instrument: <u>2929</u>		Serial #: <u>129502</u>		α Eff.: <u>.30</u>		β Eff.: <u>.23</u>		α Bkg.: <u>0.5</u>		β Bkg.: <u>4.5</u>		Cal. Due: <u>23mbs</u>		Key	
																		☐ Smear ☐ Dose Rate mR/hr ☐ Direct Reading ☐ DPM/100 cm ² ☐ Grab Sample	
Reviewed By: <u>BCentee</u>		Date: <u>7-12-05</u>																☐ Boundary ☐ A/S Location	

OP-001-02 Radiological Survey SheetPage 15 of 15

OP-001-02 Radiological Survey Sheet[illegible]

OP-001-02 Radiological Survey Sheet

GLNTC-05-003

Location: <u>GLNTC LABTRAILER</u>		RWPF# <u>GLNTC-05-003</u>		NMB <u>2/1/06</u>		Survey # <u>GLNTC-05-011</u>		Survey Type: <u>Routine</u>		pg. 1 of 1							
Smear Results				1 - MICROWAVE		3 - MICROWAVE		5 - HOOD		7 - S. ENTRANCE		9 - WEST TARE		11 - N. ENTRANCE		13 - FLOOR	
CPM-DPM/100cm ²				2 - MICRO WAVE		4 - MICROWAVE		6 - FLOOR		8 - EAST TARE		10 - FREEZER		12 - FLOOR			
No.	α	β	No.	α	β												
1	1	49	26														
2	0	35	27														
3	0	42	28														
4	1	33	29														
5	0	30	30														
6	0	56	31														
7	1	47	32														
8	0	42	33														
9	1	43	34														
10	0	62	35														
11	0	49	36														
12	0	45	37														
13	3	38	38														
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24			49														
25			50														
Comments																	
Surveyed By: <u>W. J. A.</u>						Date: <u>7/1/05</u>											
Instrument: <u>Z929</u>						Serial #: <u>129366</u>											
α Eff. <u>0.3050</u>						β Eff. <u>0.2320</u>											
α Bkg. <u>0.4</u>						β Bkg. <u>46.0</u>											
Cal. Due <u>23 May 06</u>						Key											
						○ Smear											
						□ Dose Rate m/hr											
						* Direct Reading DPM/100 cm ²											
						△ Grab Sample											
Reviewed By: <u>W. J. A.</u>						Date: <u>7-12-05</u>											

OFFICE TRAILER

OP-001-02 Radiological Survey Sheet

GLNTC-05-002

Location: <u>GLNTC Phase IV</u>		RWP# <u>GLNTC-05-003</u> ^{NMB} 2/1/06		Survey # <u>GLNTC-05-011</u>		Survey Type: <u>Routine</u>		pg. 1 of 1	
Smear Results		① S Entrance ② E. table ③ N. table ④ E. table ⑤ E. Entrance-Floor ⑥ Lunch table ⑦ Lunch table ⑧ Fridge ⑨ Storage shelf ⑩ S. Entrance ⑪ W. Entrance ⑫ Source Locker							
Com <u>SPM/100cm²</u>									
No.	α	β	No.	α	β				
1		57	26						
2		14	27						
3		45	28						
4		52	29						
5		26	30						
6		38	31						
7		39	32						
8		47	33						
9		43	34						
10		37	35						
11		42	36						
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19			44						
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21			46						
22			47						
23			48						
24			49						
25			50						
Comments									
See Daily Spreadsheet									
FOR DRAM									
OFFICE TRAILER									
Surveyed By: <u>Nick Burt</u>		Date: <u>7/8/05</u>		Instrument: <u>2929</u>		Serial #: <u>129566</u>		α Eff. <u>30</u>	
								β Eff. <u>23</u>	
								α Bkg. <u>0.2</u>	
								β Bkg. <u>41.6</u>	
								Cal. Due <u>25 May 06</u>	
								Key	
								○ Smear	
								□ Dose Rate mR/hr	
								* Direct Reading	
								△ Grab Sample	
								■ A/S Location	

OP-001-02 Radiological Survey Sheet
GLNTC-05-003

Location: GLNTC - LAB TRAILER				RWFP# GLNTC-05-002 NMB 2/1/06				Survey # GLNTC-1012				Survey Type: ROUTINE				pg. 1 of 1																																																																																																																																																													
Smear Results										1 - MICROWAVE 3 - MICROWAVE 5 - HOOD 7 - S. ENTRANCE 9 - WESTABLE 11 - N. ENTRANCE 13 - FLOOR 2 - MICROWAVE 4 - MICROWAVE 6 - FLOOR 8 - EASTTABLE 10 - FREEZER 12 - FLOOR																																																																																																																																																																			
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th><th>α</th><th>β</th><th>No.</th><th>α</th><th>β</th></tr> </thead> <tbody> <tr><td>1</td><td>38</td><td>26</td><td></td><td></td><td></td></tr> <tr><td>2</td><td>43</td><td>27</td><td></td><td></td><td></td></tr> <tr><td>3</td><td>45</td><td>28</td><td></td><td></td><td></td></tr> <tr><td>4</td><td>39</td><td>29</td><td></td><td></td><td></td></tr> <tr><td>5</td><td>36</td><td>30</td><td></td><td></td><td></td></tr> <tr><td>6</td><td>44</td><td>31</td><td></td><td></td><td></td></tr> <tr><td>7</td><td>34</td><td>32</td><td></td><td></td><td></td></tr> <tr><td>8</td><td>44</td><td>33</td><td></td><td></td><td></td></tr> <tr><td>9</td><td>36</td><td>34</td><td></td><td></td><td></td></tr> <tr><td>10</td><td>26</td><td>35</td><td></td><td></td><td></td></tr> <tr><td>11</td><td>52</td><td>36</td><td></td><td></td><td></td></tr> <tr><td>12</td><td>35</td><td>37</td><td></td><td></td><td></td></tr> <tr><td>13</td><td>37</td><td>38</td><td></td><td></td><td></td></tr> <tr><td>14</td><td></td><td>39</td><td></td><td></td><td></td></tr> <tr><td>15</td><td></td><td>40</td><td></td><td></td><td></td></tr> <tr><td>16</td><td></td><td>41</td><td></td><td></td><td></td></tr> <tr><td>17</td><td></td><td>42</td><td></td><td></td><td></td></tr> <tr><td>18</td><td></td><td>43</td><td></td><td></td><td></td></tr> <tr><td>19</td><td></td><td>44</td><td></td><td></td><td></td></tr> <tr><td>20</td><td></td><td>45</td><td></td><td></td><td></td></tr> <tr><td>21</td><td></td><td>46</td><td></td><td></td><td></td></tr> <tr><td>22</td><td></td><td>47</td><td></td><td></td><td></td></tr> <tr><td>23</td><td></td><td>48</td><td></td><td></td><td></td></tr> <tr><td>24</td><td></td><td>49</td><td></td><td></td><td></td></tr> <tr><td>25</td><td></td><td>50</td><td></td><td></td><td></td></tr> </tbody> </table>										No.	α	β	No.	α	β	1	38	26				2	43	27				3	45	28				4	39	29				5	36	30				6	44	31				7	34	32				8	44	33				9	36	34				10	26	35				11	52	36				12	35	37				13	37	38				14		39				15		40				16		41				17		42				18		43				19		44				20		45				21		46				22		47				23		48				24		49				25		50											
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<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Surveyed By:</td> <td>Date:</td> <td>Instrument</td> <td>Serial #</td> <td>α Eff.</td> <td>β Eff.</td> <td>α Bkg.</td> <td>β Bkg.</td> <td>Cal. Due</td> <td colspan="3">Key</td> </tr> <tr> <td>B. CLARKE</td> <td>7-11-05</td> <td>2929</td> <td>129566</td> <td>0.3050</td> <td>0.2320</td> <td>0.5</td> <td>43.9</td> <td>2/1/06</td> <td>○</td> <td>Smear</td> <td>*.*</td> <td>Boundary</td> </tr> <tr> <td>Reviewed By:</td> <td>Date:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>□</td> <td>Dose Rate mR/hr</td> <td>■</td> <td>A/S Location</td> </tr> <tr> <td></td> <td>7-12-05</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>*</td> <td>Direct Reading DPM/100 cm²</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>△</td> <td>Grab Sample</td> <td></td> <td></td> </tr> </table>										Surveyed By:	Date:	Instrument	Serial #	α Eff.	β Eff.	α Bkg.	β Bkg.	Cal. Due	Key			B. CLARKE	7-11-05	2929	129566	0.3050	0.2320	0.5	43.9	2/1/06	○	Smear	*.*	Boundary	Reviewed By:	Date:								□	Dose Rate mR/hr	■	A/S Location		7-12-05								*	Direct Reading DPM/100 cm²												△	Grab Sample																																																																																																						
Surveyed By:	Date:	Instrument	Serial #	α Eff.	β Eff.	α Bkg.	β Bkg.	Cal. Due	Key																																																																																																																																																																				
B. CLARKE	7-11-05	2929	129566	0.3050	0.2320	0.5	43.9	2/1/06	○	Smear	*.*	Boundary																																																																																																																																																																	
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GLNTC-05-003

Location: GLNTC-LAB TRAILER

RWP# ~~GLNTC-05-002~~ NMB 2/1/06

Survey # GLNTC-05-013

Survey Type: ROUTINE

7-12-05

pg. 1 of 1

Smear Results

CPM-BPM/100cm²

No.	α	β	No.	α	β
1	0	38	28		
2	0	46	27		
3	0	39	28		
4	0	33	29		
5	0	44	30		
6	0	32	31		
7	0	40	32		
8	0	44	33		
9	0	52	34		
10	0	43	35		
11	0	42	36		
12	1	35	37		
13	0	30	38		
14			39		
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18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

Comments

1 - MICROWAVE

2 - MICROWAVE

3 - MICROWAVE

4 - MICROWAVE

5 - HOD

6 - FLOOR

7 - S. ENTRANCE

8 - EAST TABLE

9 - WEST TABLE

10 - FREEZER

11 - N. ENTRANCE

12 - FLOOR

13 - FLOOR

Surveyed By:	Date:	Instrument	Serial #	α Eff.	β Eff.	α Bkg.	β Bkg.	Cal. Due	Key	Boundary	A/S Location
Nir Burt	7/12/05	2929	12954	305	232	9	9.02	23MA/106	0	Smear	
						0.5	45.1	NMB 2/1/06		Dose Rate m/hr	
Reviewed By:	Date:								*	Direct Reading	
S. Chader	7-12-05								Δ	Grab Sample	

OFFICE TRAILER

OP-001-02 Radiological Survey Sheet

GLNTC-05-002

Location: <u>GLNTC</u>		RWP# <u>GLNTC-05-003</u>		Survey # <u>GLNTC 05-0118</u>		Survey Type: <u>Routine 7/13/05</u>		pg. 1 of 1									
Smear Results		① S Entrance ② E. table ③ N. table ④ E. table ⑤ E. Entrance floor ⑥ Lunch table ⑦ Lunch table ⑧ Fridge ⑨ Storage shelf ⑩ S. Entrance ⑪ W. Entrance ⑫ Source Locker															
Can BPM/100cm ²																	
No.	α	β	No.	α	β												
1	0	46	28														
2	1	44	27														
3	2	19	28														
4	0	51	29														
5	0	39	30														
6	0	34	31														
7	0	46	32														
8	1	37	33														
9	2	45	34														
10	1	45	35														
11	2	37	36														
12	0	42	37														
13			38														
14			39														
15			40														
16			41														
17			42														
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19			44														
20			45														
21			46														
22			47														
23			48														
24			49														
25			50														
Comments																	
See Daily Spreadsheet for DPM																	
OFFICE TRAILER																	
Surveyed By: <u>Neil Burt</u> Date: <u>7/13/05</u>		Instrument: <u>2929</u>		Serial #: <u>129566</u>		α Eff.: <u>365</u>		β Eff.: <u>232</u>		α Bkg.: <u>0.4</u>		β Bkg.: <u>46.0</u>		Cal. Due: <u>NMS 2/1/06</u>		Key	
Reviewed By: <u>Elonor</u> Date: <u>7.13.05</u>																☐ Smear ☐ Dose Rate m/hr ☐ Direct Reading DPM/100 cm ² <input type="triangle"/> Grab Sample	
																☐ Boundary ☐ A/S Location	

GLNTC-05-003

[illegible]

OP-001-02 Radiological Survey Sheet
GLNTC-05-003

Location: <u>GLNTC LAB Trailer</u>				RWP# <u>GLNTC-05-002</u>		NMB <u>2/1/06</u>		Survey # <u>GLNTC-05-016</u>		Survey Type: <u>Routine</u>		pg. 1 of 1																																																																																																													
Smear Results						1 - MICROWAVE 3 - MICROWAVE 5 - HCOV 7 - S. ENTRANCE 9 - WEST TAIL 11 - N. ENTRANCE 2 - MICROWAVE 4 - MICROWAVE 6 - FLOOR 8 - EAST TAIL 10 - FREEZER 12 - FLOOR																																																																																																																			
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Reviewed By: <u>Black</u> Date: <u>7.14.05</u>																																																																																																																									

OP-001-02 Radiological Survey Sheet
GLNTC-05-003

Location: <u>GLNTC LAB TRAILER</u>			RWP# <u>GLNTC-05-002</u>			NMB <u>2/1/06</u>			Survey # <u>GLNTC05-017</u>			Survey Type: <u>Routine</u>			pg. 1 of 1		
Smear Results						1 - MICROWAVE 3 - MICROWAVE 5 - HOD 7 - S. ENTRANCE 9 - WESTABLE 11 - N. ENTRANCE 13 - FLOOR 2 - MICROWAVE 4 - MICROWAVE 6 - FLOOR 8 - EASTTABLE 10 - FREEZER 12 - FLOOR											
CPM-DPM/100cm ²																	
No.	α	β	No.	α	β												
1	1	41	28														
2	0	49	27														
3	0	47	28														
4	0	45	29														
5	0	37	30														
6	0	42	31														
7	0	40	32														
8	0	39	33														
9	0	48	34														
10	0	33	35														
11	0	54	36														
12	1	47	37														
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22			47														
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24			49														
25			50														
Comments																	
Surveyed By: <u>Neilant</u> Date: <u>7/19/05</u>						Instrument: <u>2129</u> Serial #: <u>129566</u> α Eff.: <u>.305</u> β Eff.: <u>2.32</u> α Bkg.: <u>11</u> β Bkg.: <u>946</u> Cal. Due: <u>23 MAY 06</u>						Key					
Reviewed By: <u>Blake</u> Date: <u>7.21.05</u>												☐ Smear * * Boundary ☐ Dose Rate mR/hr ■ A/S Location ☐ Direct Reading DPM/100 cm ² ☐ Grab Sample					

OP-001-02 Radiological Survey Sheet
GLNTC-05-003

Location: GLNTC LAB TRAILER		RWPF# GLNTC-05-002		Survey # 018		Survey Type: ROUTINE		pg. 1 of 1	
Smear Results		1 - MICROWAVE		3 - MICROWAVE		5 - HCU		7 - S. ENTRANCE	
C/M DPM/100cm ²		2 - MICROWAVE		4 - MICROWAVE		6 - FLOOR		8 - EAST TABLE	
								9 - WEST TABLE	
								10 - FREEZER	
								11 - N. ENTRANCE	
								12 - FLOOR	
								13 - FLOOR	

No.	α	β	No.	α	β
1	1	37	26		
2	0	34	27		
3	1	41	28		
4	0	45	29		
5	0	38	30		
6	0	40	31		
7	0	49	32		
8	0	58	33		
9	0	39	34		
10	2	36	35		
11	1	40	36		
12	0	40	37		
13	1	59	38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

Surveyed By: B. Clonka		Date: 1/20/05		Instrument: 2929		Serial #: 129566		α Eff.: 305		β Eff.: 232		α Bkg.: 8		β Bkg.: 419		Cal. Due: 23 MAY 06	
Reviewed By: [Signature]		Date: 2/22/05															

Key			
○	Smear	* *	Boundary
□	Dose Rate mR/hr	■	A/S Location
*	Direct Reading DPM/100 cm ²		
△	Grab Sample		

Location: GLNLC TANK H FLOOR

RWP# GLNLC-05-002

Survey # GLNLC-05-018

Survey Type: ~~TANK~~ RELEASE

pg. 1 of 1

Smear Results

CPM DPM/100cm²

No.	α	β	No.	α	β
1	0	111	28		
2	1	92	27		
3	3	124	28		
4	0	109	29		
5	2	135	30		
6	0	59	31		
7	0	50	32		
8	0	48	33		
9	0	46	34		
10	1	41	35		
11	0	56	36		
12	0	53	37		
13	0	51	38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

Comments

meters

	-8	-6	-4	-2	0	2	4	6	8
8				4848	5842	5128			
6			5846	6115	6284	5005	4127		
4		5750	5899	6176	5579	5547	4550	5069	
2		5323	5620	5784	4463	6390	6016	5798	
0	5511	5793	5520	5169	4775	5631	5760	4705	4815
-2		5247	5138	5549	5657	5679	5377	5138	
-4		5022	5311	5279	5083	5243	5153	5230	
-6		4863	5286	4305	5997	5485	5531	4955	
-8			4089	4455	3231	5687	5038		

Static Survey

	alpha	beta
1	0	111
2	1	92
3	3	124
4	0	109
5	2	135

43-93

Smear Survey

	alpha	beta
6	0	59
7	0	50
8	0	48
9	0	46
10	1	41

2929

BAY DOOR

Ludlum 2221 #167673

20-minute (2929)

20050505

Surveyed By:	Date:	Instrument	Serial #	α Eff.	β Eff.	α Bkg.	β Bkg.	Cal. Due	Key	Smear	*.*	Boundary
M. J. Smith	7/24/05	2221	167673	305	232	105	905	10-20-05	0	Smear		
		2221	167673	219	205	4	105	3 AUG 05	□	Dose Rate mR/hr		A/S Location
Reviewed By:	Date:									Direct Reading		
B. J. Smith	7-20-05									DPM/100 cm ²		
										Grab Sample		

OP-001-02 Radiological Survey Sheet

Location: GLNTC Genie Lift RWP# GLNTC OS-0002 Survey # GLNTC OS-019 Survey Type: RELEASE RC pg. 1 of 1

Smear Results

No.	α	β	No.	α	β
1	NA		26		
2	NA		27		
3	0	64	28		
4	2	82	29		
5	4	79	30		
6	0	80	31		
7	1	68	32		
8	1	70	33		
9	1	84	34		
10	3	51	35		
11	2	58	36		
12	2	58	37		
13	2	64	38		
14	2	53	39		
15	4	155	40		
16	17	146	41		
17	NA		42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

Comments

① Large Area smears performed

② No ① found

⑬ FRISK of vehicle tires
NO ① found

Direct Static

	α	β
⑩	3	51
⑪	2	58
⑫	2	58
⑬	2	64
⑭	2	53
⑮	14	155
⑯	17	146

SMears

	α	β
③	0	64
④	2	82
⑤	4	79
⑥	0	80
⑦	1	68
⑧	1	70
⑨	1	84

Diagram showing survey path and locations marked with circled numbers 1 through 17. Includes labels for "Direct Static" and "0.5m".

Surveyed By: Neil Butth Date: 7/2/05

Reviewed By: [Signature] Date: 7/2/05

Instrument	Serial #	α Eff.	β Eff.	α Bkg.	β Bkg.	Cal. Due	Key	***	Boundary
4293	16426	.219	.703	NA	NA	3/16/05	○	Smear	
44-9	7931	.13	.21	NA	NA	9/18/06	□	Dose Rate m/hr	
							*	Direct Reading	
							△	DPW/100 cm ²	
								Grab Sample	

OP-001-02 Radiological Survey Sheet

Location: GLNTC Wacker PT2A		RWP# GLNTC 05-002	Survey # GLNTC 05-022	Survey Type: RELEASE	pg. 1 of 1
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Smear Results					
No.	α	β	No.	α	β
1	N/A		26		
2	M/A		27		
3	1	76	28		
4	0	75	29		
5	0	72	30		
6	0	35	31		
7	4	71	32		
8	0	77	33		
9	1	63	34		
10	0	82	35		
11	0	62	36		
12	1	58	37		
13	2	49	38		
14	1	60	39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

COUNTS

① > LARGE AREA SMEAR PERFORMED

② NO (c) FOUND

PUMP SMEARS

	α	β
③	1	76
④	0	75
⑤	0	72
⑥	0	75

DIRECT STATIC

	α	β
⑦	4	71
⑧	0	77
⑨	1	63
⑩	0	82

Hose SMEARS (4 pieces of hose)

HOSE SMEARS

	α	β
⑪	0	62
⑫	1	58
⑬	2	49
⑭	1	60

0.5 min

no m

Instrument	Serial #	α Eff.	β Eff.	α Bkg.	β Bkg.	Cal. Due	Key		
4393	16426	.219	.203	ASB 2005	3 AUG 07	○	Smear	* *	Boundary
				4	106	□	Dose Rate mr/hr		A/S Location
						*	Direct Reading DPM/100 cm ²		
						△	Grab Sample		

Surveyed By: ZW Sutt
 Date: 7/22/05

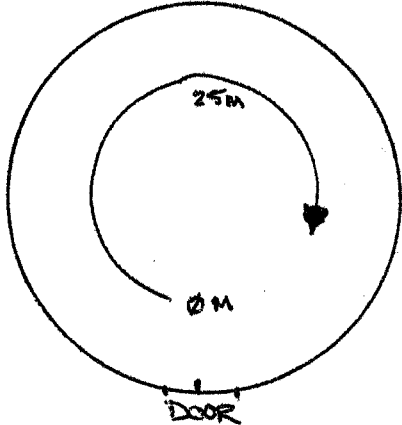
Reviewed By: [Signature]
 Date: 7-22-05

COUNTS

A circular diagram divided into eight equal sectors by four diameters. The sectors are numbered 1 through 8 clockwise starting from the bottom. The bottom sector (1) is labeled 'DOOR' with an arrow pointing to it.

2221#167673	
1	3977
2	4109
3	3860
4	4351
5	4210
6	3997
7	4152
8	4359

OP-001-02 Radiological Survey Sheet

Location: <u>GLNTC TANK # WALL</u>				RWPN# <u>GLNTC-05-002</u>				Survey # <u>GLNTC-05-0210</u> <u>023</u>				Survey Type: <u>RELEASE</u>				pg. 1 of 1																																																																																																																																																																							
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OFFICE TRAILER

OP-001-02 Radiological Survey Sheet

Location: <u>GLN+C</u>		RWP# <u>GLN+C 05 002</u>		Survey # <u>GLN+C-05-025</u>		Survey Type: <u>Routine</u>		pg. 1 of 1											
Smear Results		① S Entrance ② E. table ③ N. table ④ E. table ⑤ E. Entrance-Floor ⑥ Lunch table ⑦ Lunch table ⑧ Fridge ⑨ Storage shelf ⑩ S. Entrance ⑪ W. Entrance ⑫ Source Locker W. NMB 2/1/06																	
Can <u>SPM/100cm²</u>																			
No.	α	β	No.	α	β														
1	1	34	26																
2	1	34	27																
3	1	35	28																
4	1	35	29																
5	1	48	30																
6	1	52	31																
7	1	59	32																
8	1	56	33																
9	1	34	34																
10	1	59	35																
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21			46																
22			47																
23			48																
24			49																
25			50																
Comments																			
OFFICE TRAILER																			
Surveyed By: <u>W. NMB</u>		Date: <u>7/22/05</u>		Instrument: <u>2929</u>		Serial #: <u>95572</u>		α Eff. <u>0.305</u>		β Eff. <u>0.232</u>		α Bkg. <u>0.5</u>		β Bkg. <u>45.3</u>		Cal. Due <u>NMB 2/1/06</u>		Key	
																		☐ Smear ☐ Dose Rate mR/hr ☐ Direct Reading DPM/100 cm ² ☐ Grab Sample	
Reviewed By: <u>B. Clarke</u>		Date: <u>7-25-05</u>																☐ Boundary ☐ A/S Location	

GLNTC-05-003

Location: GINTC-LAB TRAINOR

RWP# ~~CAN-05-002~~

NMB 2/1/06

Survey # ~~GINTC-05-002~~

Survey Type: ROUTINE

pg. 1 of 1

Smear Results

CPM DPM/100cm²

No.	α	β	No.	α	β
1	0.50		28		
2	0.33		27		
3	1.35		28		
4	0.40		29		
5	0.38		30		
6	1.41		31		
7	0.46		32		
8	0.47		33		
9	0.44		34		
10	0.55		35		
11	0.48		36		
12	1.44		37		
13	0.55		38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

Comments

1 - MICROWAVE	3 - MICROWAVE	5 - HOOD	7 - S. ENTRANCE	9 - WEST FACE	11 - N. ENTRANCE	13 - FLOOR
2 - MICRO WAVE	4 - MICRO WAVE	6 - FLOOR	8 - EAST TABLE	10 - FREEZER	12 - FLOOR	

Surveyed By:	Date:	Instrument	Serial #	α Eff.	β Eff.	α Bkg.	β Bkg.	Cal. Due	Key	Boundary	A/S Location
<i>[Signature]</i>	7-25-05	2929	95572	305	232	1.0	9.4	7/25/05	○ Smear	■	
						0.5	48.2	2/1/06	□ Dose Rate m/hr		
Reviewed By:	Date:								* Direct Reading		
<i>[Signature]</i>	7-25-05								△ Grab Sample		

OP-001-02 Radiological Survey Sheet
GLNTC-05-003

Location: GLNTC-LAB TRAILER				RWPF# NMB 2/1/06				Survey # GLNTC-05-027				Survey Type: ROUTINE				pg. 1 of 1																																																																																																																																																																							
Smear Results CPM - DPM/100cm²								1 - MICROWAVE 3 - MICROWAVE 5 - HOD 7 - S. ENTRANCE 9 - WESTABLE 11 - N. ENTRANCE 13 - FLOOR																																																																																																																																																																															
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>No.</th><th>α</th><th>β</th><th>No.</th><th>α</th><th>β</th></tr> <tr><td>1</td><td>35</td><td>28</td><td></td><td></td><td></td></tr> <tr><td>2</td><td>34</td><td>27</td><td></td><td></td><td></td></tr> <tr><td>3</td><td>52</td><td>28</td><td></td><td></td><td></td></tr> <tr><td>4</td><td>41</td><td>29</td><td></td><td></td><td></td></tr> <tr><td>5</td><td>67</td><td>30</td><td></td><td></td><td></td></tr> <tr><td>6</td><td>48</td><td>31</td><td></td><td></td><td></td></tr> <tr><td>7</td><td>46</td><td>32</td><td></td><td></td><td></td></tr> <tr><td>8</td><td>52</td><td>33</td><td></td><td></td><td></td></tr> <tr><td>9</td><td>48</td><td>34</td><td></td><td></td><td></td></tr> <tr><td>10</td><td>54</td><td>35</td><td></td><td></td><td></td></tr> <tr><td>11</td><td>61</td><td>36</td><td></td><td></td><td></td></tr> <tr><td>12</td><td>47</td><td>37</td><td></td><td></td><td></td></tr> <tr><td>13</td><td>45</td><td>38</td><td></td><td></td><td></td></tr> <tr><td>14</td><td></td><td>39</td><td></td><td></td><td></td></tr> <tr><td>15</td><td></td><td>40</td><td></td><td></td><td></td></tr> <tr><td>16</td><td></td><td>41</td><td></td><td></td><td></td></tr> <tr><td>17</td><td></td><td>42</td><td></td><td></td><td></td></tr> <tr><td>18</td><td></td><td>43</td><td></td><td></td><td></td></tr> <tr><td>19</td><td></td><td>44</td><td></td><td></td><td></td></tr> <tr><td>20</td><td></td><td>45</td><td></td><td></td><td></td></tr> <tr><td>21</td><td></td><td>46</td><td></td><td></td><td></td></tr> <tr><td>22</td><td></td><td>47</td><td></td><td></td><td></td></tr> <tr><td>23</td><td></td><td>48</td><td></td><td></td><td></td></tr> <tr><td>24</td><td></td><td>49</td><td></td><td></td><td></td></tr> <tr><td>25</td><td></td><td>50</td><td></td><td></td><td></td></tr> </table>								No.	α	β	No.	α	β	1	35	28				2	34	27				3	52	28				4	41	29				5	67	30				6	48	31				7	46	32				8	52	33				9	48	34				10	54	35				11	61	36				12	47	37				13	45	38				14		39				15		40				16		41				17		42				18		43				19		44				20		45				21		46				22		47				23		48				24		49				25		50				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2">2 - MICROWAVE</td> <td colspan="2">4 - MICROWAVE</td> <td colspan="2">6 - FLOOR</td> <td colspan="2">8 - EASTTABLE</td> <td colspan="2">10 - FREEZER</td> <td colspan="2">12 - FLOOR</td> </tr> </table>								2 - MICROWAVE		4 - MICROWAVE		6 - FLOOR		8 - EASTTABLE		10 - FREEZER		12 - FLOOR	
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OP-001-02 Radiological Survey Sheet

Location: GLNTC - RAILS		RW/FF# GLNTC-05-0002		Survey # GLNTC-05-0028		Survey Type: RELEASE		pg. 1 of 1	
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Smear Results					
CPM-5PM/100cm ²					
No.	α	β	No.	α	β
1	5	233	26		
2	3	182	27		
3	0	85	28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

LAS (1 min Count)

α	β
5	233

Direct (Static) Count (min)

α	β
3	183

SMEAR (1 min Count)

α	β
0	85

Immiscant

Surveyed By: <i>NeBurt</i>		Date: <i>8/2/05</i>		Instrument	Serial #	α Eff.	β Eff.	α Bkg.	β Bkg.	Cal. Due	Key			
				4393	1162426	0.219	0.205	4	229	3/10/05	☒	Smear	☐	Boundary
											☐	Dose Rate mR/hr	☐	AVS Location
											☐	Direct Reading		
											☐	CPM/100 cm ²		
											☐	Grab Sample		

Reviewed By: <i>Nicholas M. Berlier</i>		Date: <i>2/1/06</i>	
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OP-001-02 Radiological Survey Sheet

Location: GLNTC - RAILS		RMP#: GLNTC-05-0002		Survey #: GLNTC-05-028		Survey Type: RELEASE		pg. 1 of 1	
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Smear Results					
CPM-DPM/100cm ²					
No.	α	B	No.	α	B
1	3	232	28		
2	4	193	27		
3	0	107	26		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

① LAS (1 min count)

α	B
3	232

② Direct (Static) Count (min)

α	B
4	193

③ Smear (1 min count)

α	B
0	107

02

1 min count

Surveyed By: Nick Butt	Date: 8/1/05	Instrument: 4393	Serial #: 162426	α Eff: 0.219	β Eff: 0.205	α Bkg: 4	β Bkg: 235	Cal. Due: 3/19/05	Key			
									☐	Smear	☐	Boundary
									☐	Dose Rate m/hr	☐	N/S Location
									☐	Direct Reading	☐	
									☐	DPM/100 cm ²	☐	
									☐	Grab Sample	☐	

Reviewed By: Nicholas M. Barber	Date: 2/1/06
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OP-001-02 Radiological Survey Sheet

Location: GLNTC - RAILS		RW/PS: GLNTC-05-0002		Survey #: GLNTC-05-028		Survey Type: RELEASE		pg. 1 of 1	
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Smear Results					
CPM - DPM/100cm ²					
No.	α	β	No.	α	β
1	4	230	26		
2	4	225	27		
3	0	90	28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

LAS (1 min Count)

α	β
4	230

Direct (Static) Count (min)

α	β
4	225

#3

Smear (1 min Count)

α	β
0	90

1 min Count

Surveyed By: NewBust		Date: 8/1/05		Instrument: 4393		Serial #: 162426		α Eff.: 0.219		β Eff.: 0.205		α Bkg.: 4		β Bkg.: 235		Cal. Due: 3/18/05		Key	
																		☐ Smear ☐ Dose Rate mR/hr ☐ Direct Reading ☐ DPM/100 cm ² ☐ Grab Sample	
Reviewed By: Nicholas M. Baker		Date: 2/1/06																☐ Boundary ☐ A/S Location	

OP-001-02 Radiological Survey Sheet

Location: GLNTC - RAILS				RW# GLNTC-05-0002				Survey # GLNTC-05-028				Survey Type: RELEASE				pg. 1 of 1																																																																																																																																																																															
Smear Results <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="6">CPM/PPM/100cm²</th> </tr> <tr> <th>No.</th> <th>α</th> <th>β</th> <th>No.</th> <th>α</th> <th>β</th> </tr> </thead> <tbody> <tr><td>1</td><td>4</td><td>249</td><td>28</td><td></td><td></td></tr> <tr><td>2</td><td>4</td><td>213</td><td>27</td><td></td><td></td></tr> <tr><td>3</td><td>1</td><td>127</td><td>28</td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td>29</td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td>30</td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td><td>31</td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td><td>32</td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td>33</td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td><td>34</td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td><td>35</td><td></td><td></td></tr> <tr><td>11</td><td></td><td></td><td>36</td><td></td><td></td></tr> <tr><td>12</td><td></td><td></td><td>37</td><td></td><td></td></tr> <tr><td>13</td><td></td><td></td><td>38</td><td></td><td></td></tr> <tr><td>14</td><td></td><td></td><td>39</td><td></td><td></td></tr> <tr><td>15</td><td></td><td></td><td>40</td><td></td><td></td></tr> <tr><td>16</td><td></td><td></td><td>41</td><td></td><td></td></tr> <tr><td>17</td><td></td><td></td><td>42</td><td></td><td></td></tr> <tr><td>18</td><td></td><td></td><td>43</td><td></td><td></td></tr> <tr><td>19</td><td></td><td></td><td>44</td><td></td><td></td></tr> <tr><td>20</td><td></td><td></td><td>45</td><td></td><td></td></tr> <tr><td>21</td><td></td><td></td><td>46</td><td></td><td></td></tr> <tr><td>22</td><td></td><td></td><td>47</td><td></td><td></td></tr> <tr><td>23</td><td></td><td></td><td>48</td><td></td><td></td></tr> <tr><td>24</td><td></td><td></td><td>49</td><td></td><td></td></tr> <tr><td>25</td><td></td><td></td><td>50</td><td></td><td></td></tr> </tbody> </table> LAS (1 min count) <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>α</td><td>β</td></tr> <tr><td>4</td><td>249</td></tr> </table> Direct (Static) Count (min) <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>α</td><td>β</td></tr> <tr><td>4</td><td>213</td></tr> </table> #4 Smear (1 min count) <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>α</td><td>β</td></tr> <tr><td>1</td><td>127</td></tr> </table>														CPM/PPM/100cm ²						No.	α	β	No.	α	β	1	4	249	28			2	4	213	27			3	1	127	28			4			29			5			30			6			31			7			32			8			33			9			34			10			35			11			36			12			37			13			38			14			39			15			40			16			41			17			42			18			43			19			44			20			45			21			46			22			47			23			48			24			49			25			50			α	β	4	249	α	β	4	213	α	β	1	127				
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Surveyed By: <i>McBrett</i> Date: <i>8/1/01</i>				Instrument: <i>9393</i> Serial #: <i>162426</i> α Eff: <i>0.219</i> β Eff: <i>0.205</i> α Bkg: <i>4</i> β Bkg: <i>235</i> Cal. Due: <i>3/18/05</i>				Key <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>☐</td> <td>Smear</td> <td>☐</td> <td>Boundary</td> </tr> <tr> <td>☐</td> <td>Dose Rate mR/hr</td> <td>☐</td> <td>A/S Location</td> </tr> <tr> <td>☐</td> <td>Direct Reading CPM/100 cm²</td> <td></td> <td></td> </tr> <tr> <td>☐</td> <td>Grab Sample</td> <td></td> <td></td> </tr> </table>				☐	Smear	☐	Boundary	☐	Dose Rate mR/hr	☐	A/S Location	☐	Direct Reading CPM/100 cm ²			☐	Grab Sample																																																																																																																																																																						
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OP-001-02 Radiological Survey Sheet

Location: GLNTC - RAILS		RW/## GLNTC-05-0602		Survey # GLNTC-05-028		Survey Type: RELEASE		pg. 1 of 1	
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Smear Results CPM DPM/100cm²					
No.	α	β	No.	α	β
1			28		
2			27		
3			28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

LAS (1 min Count)

α	β
1	248

Direct (Static) Count (min)

α	β
2	227

#1 05

Smear (1 min Count)

α	β
0	112

1 min count

Surveyed By: Nicholas M. Berrier		Date: 8/1/05		Instrument: 4393		Serial #: 162426		α Eff: 0.219		β Eff: 0.205		α Bkg: 4		β Bkg: 235		Cal. Due: 3/16/05		Key			
Reviewed By: Nicholas M. Berrier		Date: 2/1/06																☐ Smear		☐ Boundary	
																		☐ Dose Rate meter		☐ A/B Location	
																		☐ Direct Reading		☐	
																☐ DPM/100 cm ²					
																		☐ Grab Sample			

OP-001-02 Radiological Survey Sheet

Location: GLNTC - RAILS		RWP#: GLNTC-055-0002	Survey #: GLNTC-055-0028	Survey Type: RELEASE	pg. 1 of 1
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Smear Results					
CPM-DPM/100cm ²					
No.	α	β	No.	α	β
1	3	250	26		
2	11	222	27		
3	4	113	28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

LAS (1 min count)

α	β
3	250

Direct (Static) Count (min)

α	β
11	222

#6

Smear (1 min count)

α	β
4	113

1 min count

Surveyed By: McDermott	Date: 8/1/05	Instrument: 4393	Serial #: 162926	α Eff.: 0.219	β Eff.: 0.205	α Bkg.: 4	β Bkg.: 235	Cal. Due: 3/16/05
Reviewed By: Nicholas M. Berlier	Date: 2/1/06							

Key			
☐	Smear	☐	Boundary
☐	Dose Rate mR/hr	☐	AB Location
☐	Direct Reading DPM/100 cm ²	☐	
☐	Grab Sample	☐	

OP-001-02 Radiological Survey Sheet

Location: GLNTC - RAILS		RWP#: GLNTC-05-0002	Survey #: GLNTC-05-028	Survey Type: RELEASE	pg. 1 of 1
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Smear Results					
CPM - DPM/100cm ²					
No.	α	β	No.	α	β
1	5	291	28		
2	5	183	27		
3	1	91	26		
4			25		
5			24		
6			23		
7			22		
8			21		
9			20		
10			19		
11			18		
12			17		
13			16		
14			15		
15			14		
16			13		
17			12		
18			11		
19			10		
20			9		
21			8		
22			7		
23			6		
24			5		
25			4		

LAS (1 min Count)

α	β
5	291

Direct (Static Count (min))

α	β
5	183

Smear (1 min Count)

α	β
1	91

1 min Count

Surveyed By: <i>Nicholas M. Berlier</i>	Date: <i>8/2/05</i>	Instrument: <i>4393</i>	Serial #: <i>11624216</i>	α Eff.: <i>0.219</i>	β Eff.: <i>0.205</i>	α Bkg.: <i>9</i>	β Bkg.: <i>229</i>	Cal. Due: <i>3 AUG 05</i>	Key			
Reviewed By: <i>Nicholas M. Berlier</i>	Date: <i>2/1/06</i>								☐	Smear	☐	Boundary
									☐	Dose Rate m/hr	☐	A/S Location
									☐	Direct Reading DPM/100 cm ²		
									☐	Grab Sample		

OP-001-02 Radiological Survey Sheet

Location: GLNTC - RAILS		RW/ID: GLNTC-05-0002		Survey #: GLNTC-05-0028		Survey Type: RELEASE		pg. 1 of 1																																																																																																																																																																									
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OP-001-02 Radiological Survey Sheet

Location: GLNTC - RAILS		RW/PS: GLNTC-05-0002		Survey #: GLNTC-05-028		Survey Type: RELEASE		pg. 1 of 1	
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Smear Results					
CPM/100cm ²					
No.	α	β	No.	α	β
1	2	202	26		
2	3	202	27		
3	2	84	28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

LAS (1 min count)

α	β
2	202

Direct (Static) Count (min)

α	β
3	202

Smear (1 min count)

α	β
2	84

① → ③

Imhant

Surveyed By: <i>NeBunt</i>		Date: <i>8/2/05</i>		Instrument: <i>4393</i>	Serial #: <i>162426</i>	α Eff: <i>0.219</i>	β Eff: <i>0.205</i>	α Bkg: <i>4</i>	β Bkg: <i>229</i>	Cal. Due: <i>3/18/05</i>	Key	
Reviewed By: <i>Nicholas M. Berrier</i>		Date: <i>2/1/06</i>									○ Smear	% Boundary
											□ Dose Rate m/hr	■ A/S Location
											" Direct Reading DPM/100 cm ²	
											△ Grab Sample	

OP-001-02 Radiological Survey Sheet

Location: GLNTC - RAILS		RW# GLNTC-05-0002		Survey# GLNTC-05-028		Survey Type: RELEASE		pg. 1 of 1	
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Smear Results					
CPM-DPM/100cm ²					
No.	α	β	No.	α	β
1	15	291	26		
2	1	135	27		
3	3	70	28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

LAS (1 min count)

α	β
15	291

Direct (Static) Count (min)

α	β
1	135

Smear (1 min count)

α	β
3	70

1 min Count

Surveyed By: <i>McBurt</i> Date: <i>8/2/05</i>		Instrument: <i>4393</i>	Serial #: <i>162426</i>	α Eff.: <i>.219</i>	β Eff.: <i>.205</i>	α Bkg.: <i>4</i>	β Bkg.: <i>229</i>	Cal. Due: <i>3 AUG 05</i>
Reviewed By: <i>Nicholas M. Ber...</i> Date: <i>2/1/06</i>								

Key			
☐	Smear	☐	Boundary
☐	Dose Rate mR/hr	☐	WS Location
☐	Direct Reading DPM/100 cm ²		
☐	Grab Sample		

OP-001-02 Radiological Survey Sheet

Location: GLNTC - RAILS		RWFP# GLNTC-05-0002		Survey # GLNTC-05-028		Survey Type: RELEASE		pg. 1 of 1	
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Smear Results					
CPM/100cm ²					
No.	A	B	No.	A	B
1	0	183	26		
2	0	153	27		
3	2	81	28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

LAS (1 min Count)

A	B
0	183

Direct (Static Count (min))

A	B
0	153

Smear (1 min Count)

A	B
2	81

1 min Count

Surveyed By: <i>Nicholas M. Bertner</i> Date: <i>8/4/05</i>		Instrument: <i>4395</i> Serial # <i>11624210</i>		α Eff. <i>0.219</i>	β Eff. <i>0.205</i>	α Bkg. <i>7</i>	β Bkg. <i>229</i>	Cal. Due <i>3/16/05</i>	Key	
									☐ Smear	☐ Boundary
									☐ Dose Rate m/hr	☐ A/B Location
									☐ Direct Reading DPM/100 cm ²	
									☐ Grab Sample	
Reviewed By: <i>Nicholas M. Bertner</i> Date: <i>2/1/06</i>										

OP-001-02 Radiological Survey Sheet

Location: GLNTC - RAILS		RW# GLNTC-05-0002		Survey # GLNTC-05-028		Survey Type: RELEASE		pg. 1 of 1	
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Smear Results					
CPM $\pm$ BW/100cm ²					
No.	α	β	No.	α	β
1	1	176	26		
2	1	179	27		
3	2	82	28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		
Comments					

LAS (1 min count)

α	β
1	176

Direct (Static) Count (min)

α	β
1	179

#12

SMEAR (1 min count)

α	β
2	82

1 min count

Surveyed By: <i>McBurt</i> Date: <i>8/2/05</i>		Reviewed By: <i>Nicholas M. Benier</i> Date: <i>2/1/06</i>		Key									
Instrument	Serial #	α Eff.	β Eff.	α Bkg.	β Bkg.	Cal. Due							
4393	162426	0.219	0.205	7	229	3/10/05	☐	☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐	
							☐	☐	☐	☐	☐	☐	
							☐	☐	☐	☐	☐	☐	

Revision 0

Radiological Surveys

OP-001-02 Radiological Survey Sheet

Location: GLNTC - RAILS		RWPH: GLNTC-05-0002		Survey #: GLNTC-05-028		Survey Type: RELEASE		pg. 1 of 1																																																																																																																																																											
Smear Results CPM - DPM/100cm²		LAS (1 min Count) <table border="1"> <tr><td>α</td><td>β</td></tr> <tr><td>4</td><td>174</td></tr> </table>		α	β	4	174	Direct (Static Count (min)) <table border="1"> <tr><td>α</td><td>β</td></tr> <tr><td>2</td><td>164</td></tr> </table>		α	β	2	164	Smear (1 min Count) <table border="1"> <tr><td>α</td><td>β</td></tr> <tr><td>3</td><td>73</td></tr> </table>		α	β	3	73	# 13																																																																																																																																															
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<table border="1"> <tr><td>No.</td><td>α</td><td>β</td><td>No.</td><td>α</td><td>β</td></tr> <tr><td>1</td><td>4</td><td>174</td><td>26</td><td></td><td></td></tr> <tr><td>2</td><td>3</td><td>164</td><td>27</td><td></td><td></td></tr> <tr><td>3</td><td>3</td><td>73</td><td>28</td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td>29</td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td>30</td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td><td>31</td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td><td>32</td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td>33</td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td><td>34</td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td><td>35</td><td></td><td></td></tr> <tr><td>11</td><td></td><td></td><td>36</td><td></td><td></td></tr> <tr><td>12</td><td></td><td></td><td>37</td><td></td><td></td></tr> <tr><td>13</td><td></td><td></td><td>38</td><td></td><td></td></tr> <tr><td>14</td><td></td><td></td><td>39</td><td></td><td></td></tr> <tr><td>15</td><td></td><td></td><td>40</td><td></td><td></td></tr> <tr><td>16</td><td></td><td></td><td>41</td><td></td><td></td></tr> <tr><td>17</td><td></td><td></td><td>42</td><td></td><td></td></tr> <tr><td>18</td><td></td><td></td><td>43</td><td></td><td></td></tr> <tr><td>19</td><td></td><td></td><td>44</td><td></td><td></td></tr> <tr><td>20</td><td></td><td></td><td>45</td><td></td><td></td></tr> <tr><td>21</td><td></td><td></td><td>46</td><td></td><td></td></tr> <tr><td>22</td><td></td><td></td><td>47</td><td></td><td></td></tr> <tr><td>23</td><td></td><td></td><td>48</td><td></td><td></td></tr> <tr><td>24</td><td></td><td></td><td>49</td><td></td><td></td></tr> <tr><td>25</td><td></td><td></td><td>50</td><td></td><td></td></tr> </table>		No.	α	β	No.	α	β	1	4	174	26			2	3	164	27			3	3	73	28			4			29			5			30			6			31			7			32			8			33			9			34			10			35			11			36			12			37			13			38			14			39			15			40			16			41			17			42			18			43			19			44			20			45			21			46			22			47			23			48			24			49			25			50								
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Surveyed By: Nick Burt		Date: 8/2/05		Instrument: 4393		Serial #: 1624216		α Eff.: 0.219		β Eff.: 0.205		α Bkg.: 4		β Bkg.: 229		Cal. Due: 5/16/05		Key																																																																																																																																																	
Reviewed By: Nicholas M. Benbow		Date: 2/1/06																☐ Smear ☐ Dose Rate mR/hr ☐ Direct Reading ☐ DPM/100 cm ² ☐ Grab Sample																																																																																																																																																	
																		☐ Boundary ☐ A/S Location																																																																																																																																																	

OP-001-02 Radiological Survey Sheet

Location: GLNTC - RAILS		RW/PS: GLNTC-05-0002		Survey #: GLNTC-05-028		Survey Type: RELEASE		pg. 1 of 1	
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Smear Results					
CPM-DPM/100cm ²					
No.	α	β	No.	α	β
1	2	138	26		
2	2	154	27		
3	1	73	28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

LAS (1 min Count)

α	β
2	138

Direct (Static Count (min))

α	β
2	154

15

Smear (1 min Count)

α	β
1	73

1 inch
Car

Comments												
Surveyed By: <i>Ned. Zutt</i>		Date: <i>8/3/05</i>		Instrument	Serial #	α Eff.	β Eff.	α Bkg.	β Bkg.	Cal. Due	Key	
				4393	162426	0.219	0.205	7	2.22	3/18/05	○	Smear
											□	Dose Rate mR/hr
											*	Direct Reading DPM/100 cm ²
											△	Grab Sample
Reviewed By: <i>Nicholas M. Bergeron</i>		Date: <i>2/1/06</i>										

OP-001-02 Radiological Survey Sheet

Location: GLNTC - RAILS		RW/PA: GLNTC-05-0002		Survey #: GLNTC-05-028		Survey Type: RELEASE		pg. 1 of 1	
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Smear Results					
CPM/100cm ²					
No.	A	B	No.	A	B
1	7	263	28		
2	4	219	27		
3	0	114	26		
4			25		
5			24		
6			23		
7			22		
8			21		
9			20		
10			19		
11			18		
12			17		
13			16		
14			15		
15			14		
16			13		
17			12		
18			11		
19			10		
20			9		
21			8		
22			7		
23			6		
24			5		
25			4		
26			3		
27			2		
28			1		
Comments					

LAS (1 min count)

A	B
7	263

Direct (Static) Count (min)

A	B
4	219

Smear (1 min count)

A	B
0	114

Surveyed By:	Date:	Instrument	Serial #	A Eff.	B Eff.	A Bkg.	B Bkg.	Cal. Due	Key			
<i>Nick M. Bentler</i>	8/4/05	4393	202348	.20	.31	9	290	24 Jun 05	☐	Smear	* *	Boundary
									☐	Dose Rate meter		AS Location
									☐	Direct Reading		
									☐	CPM/100 cm ²		
									☐	Grab Sample		

Reviewed By:	Date:
<i>Nick M. Bentler</i>	2/1/06

Revision 0

Radiological Surveys

OP-001-02 Radiological Survey Sheet

Location: GLNTC - RAILS		RWMP: GLNTC-05-0002		Survey #: GLNTC-05-028		Survey Type: RELEASE		Pg. 1 of 1	
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Smear Results					
CDM-5PM/100cm ²					
No.	A	B	No.	A	B
1	2	28	28		
2	5	28	27		
3	0	152	28		
4			28		
5			30		
6			31		
7			32		
8			33		
9			34		
10			36		
11			38		
12			37		
13			35		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			46		
21			48		
22			47		
23			48		
24			49		
25			50		

LAS (1 min count)

A	B
2	287

Direct (Static) Count (min)

A	B
5	289

SMEAR (1 min count)

A	B
0	132

att 017

Surveyed By: Nick Burt	Date: 8/4/05	Instrument: 431B	Serial #: 202348	A Eff: 0.20	B Eff: 0.31	A Bkg: 7	B Bkg: 240	Cal. Due: 24 Jan 06	Key			
Reviewed By: Nicholas McBerliner	Date: 2/1/06								☐	Smear	☐	Boundary
							☐	Dose Rate mR/hr	☐	WS Location		
							☐	Direct Reading	☐			
							☐	CPM/100 cm ²	☐			
							☐	Grab Sample	☐			

Revision 0

Radiological Surveys

OP-001-02 Radiological Survey Sheet

Location: GLNTC - RAILS		RW/PA: GLNTC-05-0002		Survey #: GLNTC-05-028		Survey Type: RELEASE		pg. 1 of 1	
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Smear Results					
CPM $\pm$ SEM/100cm ²					
No.	A	B	No.	A	B
1	5	28	26		
2	7	23	27		
3	2	15	28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		
Comments					

LAS (1 min count)

A	B
5	324

Direct (Static) Count (min)

A	B
7	237

SMEAR (1 min count)

A	B
2	152

#11 018

Surveyed By:	Date:	Instrument	Serial #	α Eff.	β Eff.	α Bkg.	β Bkg.	Cal. Date	Key			
<i>MeSurr</i>	8/4/05	4312	202348	0.2	0.31	7	240	24 Jan	☒	Smear	* *	Boundary
									☒	Dose Rate meter		WS Location
									☒	Direct Reading		
									☒	CPM/100 cm ²		
									☒	Grab Sample		

Reviewed By:	Date:
<i>Nicholas M. Bertine</i>	2/1/06

OP-001-02 Radiological Survey Sheet

Location: GLNTC - RAILS		RW# GLNTC-055-0052		Survey # GLNTC-055-0028		Survey Type: RELEASE		pg. 1 of 1																																																																																																																																																																													
Smear Results CDM-SPM/100cm² <table border="1"> <thead> <tr> <th>No.</th> <th>A</th> <th>B</th> <th>No.</th> <th>A</th> <th>B</th> </tr> </thead> <tbody> <tr><td>1</td><td>2</td><td>293</td><td>25</td><td></td><td></td></tr> <tr><td>2</td><td>8</td><td>277</td><td>26</td><td></td><td></td></tr> <tr><td>3</td><td>2</td><td>154</td><td>27</td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td>28</td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td>29</td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td><td>30</td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td><td>31</td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td>32</td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td><td>33</td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td><td>34</td><td></td><td></td></tr> <tr><td>11</td><td></td><td></td><td>35</td><td></td><td></td></tr> <tr><td>12</td><td></td><td></td><td>36</td><td></td><td></td></tr> <tr><td>13</td><td></td><td></td><td>37</td><td></td><td></td></tr> <tr><td>14</td><td></td><td></td><td>38</td><td></td><td></td></tr> <tr><td>15</td><td></td><td></td><td>39</td><td></td><td></td></tr> <tr><td>16</td><td></td><td></td><td>40</td><td></td><td></td></tr> <tr><td>17</td><td></td><td></td><td>41</td><td></td><td></td></tr> <tr><td>18</td><td></td><td></td><td>42</td><td></td><td></td></tr> <tr><td>19</td><td></td><td></td><td>43</td><td></td><td></td></tr> <tr><td>20</td><td></td><td></td><td>44</td><td></td><td></td></tr> <tr><td>21</td><td></td><td></td><td>45</td><td></td><td></td></tr> <tr><td>22</td><td></td><td></td><td>46</td><td></td><td></td></tr> <tr><td>23</td><td></td><td></td><td>47</td><td></td><td></td></tr> <tr><td>24</td><td></td><td></td><td>48</td><td></td><td></td></tr> <tr><td>25</td><td></td><td></td><td>49</td><td></td><td></td></tr> <tr><td>26</td><td></td><td></td><td>50</td><td></td><td></td></tr> </tbody> </table>		No.	A	B	No.	A	B	1	2	293	25			2	8	277	26			3	2	154	27			4			28			5			29			6			30			7			31			8			32			9			33			10			34			11			35			12			36			13			37			14			38			15			39			16			40			17			41			18			42			19			43			20			44			21			45			22			46			23			47			24			48			25			49			26			50			LAS (1 min Count) <table border="1"> <thead> <tr> <th>A</th> <th>B</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>293</td> </tr> </tbody> </table>		A	B	2	293	Direct (Static) Count (min) <table border="1"> <thead> <tr> <th>A</th> <th>B</th> </tr> </thead> <tbody> <tr> <td>8</td> <td>271</td> </tr> </tbody> </table>		A	B	8	271	SMOAR (1 min Count) 019 <table border="1"> <thead> <tr> <th>A</th> <th>B</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>154</td> </tr> </tbody> </table>		A	B	2	154
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Surveyed By: <i>Z. J. But</i> Date: <i>8/4/05</i>		Instrument: <i>4312</i>		Serial #: <i>202349</i>		α Eff: <i>0.20</i>		β Eff: <i>0.31</i>		α Bkg: <i>7</i>		β Bkg: <i>240</i>		Cal. Due: <i>24 Jan 06</i>		Key																																																																																																																																																																					
Reviewed By: <i>Nicholas M. Berdear</i> Date: <i>2/1/06</i>																☐ Smear ☐ Dose Rate meter ☐ Direct Reading ☐ CPM/100 cm ² ☐ Grab Sample																																																																																																																																																																					
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OP-001-02 Radiological Survey Sheet

Location: GLNTC - RAILS		RW# GLNTC-055-0002		Survey # GLNTC-055-028		Survey Type: RELEASE		pg. 1 of 1	
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Smear Results					
COM-100cm ²					
No.	α	β	No.	α	β
1	4	21	25		
2	3	27	26		
3	0	38	27		
4			28		
5			29		
6			30		
7			31		
8			32		
9			33		
10			34		
11			35		
12			36		
13			37		
14			38		
15			39		
16			40		
17			41		
18			42		
19			43		
20			44		
21			45		
22			46		
23			47		
24			48		
25			49		
26			50		

LAS (1 min Count)

α	β
4	221

Direct (Static) Count (min)

α	β
3	248

SMEAR (1 min Count)

α	β
0	38

Comments

Surveyed By: <i>CAJH</i>	Date: <i>4/4/05</i>	Instrument: <i>4513</i>	Serial # <i>202349</i>	α Eff. <i>0.2</i>	β Eff. <i>0.31</i>	α Bkg. <i>7</i>	β Bkg. <i>240</i>	Cal. Due <i>245m</i>	Key			
Reviewed By: <i>Nicholas</i>	Date: <i>2/1/06</i>								☒	Smear	☐	Boundary
									☐	Dose Rate mR/hr	☐	AB Location
									☐	Direct Reading	☐	
									☐	CPM/100 cm ²	☐	
									☐	Grab Sample	☐	

Revision 0

Radiological Surveys

OP-001-02 Radiological Survey Sheet

Location: GLNTC - RAILS		RW# GLNTC-055-05052		Survey # GLNTC-055-0528		Survey Type: RELEASE		Pg. 1 of 1																																																																																																																																																																							
Smear Results CDM-100cm² <table border="1"> <thead> <tr> <th>No.</th> <th>A</th> <th>B</th> <th>No.</th> <th>A</th> <th>B</th> </tr> </thead> <tbody> <tr><td>1</td><td>4</td><td>21</td><td>26</td><td></td><td></td></tr> <tr><td>2</td><td>3</td><td>27</td><td>27</td><td></td><td></td></tr> <tr><td>3</td><td>0</td><td>38</td><td>28</td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td>29</td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td>30</td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td><td>31</td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td><td>32</td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td>33</td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td><td>34</td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td><td>35</td><td></td><td></td></tr> <tr><td>11</td><td></td><td></td><td>36</td><td></td><td></td></tr> <tr><td>12</td><td></td><td></td><td>37</td><td></td><td></td></tr> <tr><td>13</td><td></td><td></td><td>38</td><td></td><td></td></tr> <tr><td>14</td><td></td><td></td><td>39</td><td></td><td></td></tr> <tr><td>15</td><td></td><td></td><td>40</td><td></td><td></td></tr> <tr><td>16</td><td></td><td></td><td>41</td><td></td><td></td></tr> <tr><td>17</td><td></td><td></td><td>42</td><td></td><td></td></tr> <tr><td>18</td><td></td><td></td><td>43</td><td></td><td></td></tr> <tr><td>19</td><td></td><td></td><td>44</td><td></td><td></td></tr> <tr><td>20</td><td></td><td></td><td>45</td><td></td><td></td></tr> <tr><td>21</td><td></td><td></td><td>46</td><td></td><td></td></tr> <tr><td>22</td><td></td><td></td><td>47</td><td></td><td></td></tr> <tr><td>23</td><td></td><td></td><td>48</td><td></td><td></td></tr> <tr><td>24</td><td></td><td></td><td>49</td><td></td><td></td></tr> <tr><td>25</td><td></td><td></td><td>50</td><td></td><td></td></tr> </tbody> </table>		No.	A	B	No.	A	B	1	4	21	26			2	3	27	27			3	0	38	28			4			29			5			30			6			31			7			32			8			33			9			34			10			35			11			36			12			37			13			38			14			39			15			40			16			41			17			42			18			43			19			44			20			45			21			46			22			47			23			48			24			49			25			50			LAS (1 min Count) <table border="1"> <thead> <tr> <th>A</th> <th>B</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>221</td> </tr> </tbody> </table>		A	B	4	221	Direct (Static) Count (min) <table border="1"> <thead> <tr> <th>A</th> <th>B</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>248</td> </tr> </tbody> </table>		A	B	3	248	Smear (1 min Count) <table border="1"> <thead> <tr> <th>A</th> <th>B</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>38</td> </tr> </tbody> </table>		A	B	0	38
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Surveyed By: <i>LA JH</i> Date: <i>8/4/05</i>		Instrument: <i>401B</i>		Serial # <i>202398</i>		α Eff. <i>0.2</i>		β Eff. <i>0.31</i>		α Bkg. <i>7</i>		β Bkg. <i>240</i>		Cal. Due <i>24 Jan 06</i>																																																																																																																																																																	
Reviewed By: <i>Nicholas M. Barber</i> Date: <i>7/1/06</i>																																																																																																																																																																															

OP-001-02 Radiological Survey Sheet

Location: GLNTC - RAILS		RW# GLNTC-055-0002		Survey # GLNTC-055-028		Survey Type: RELEASE		Pg. 1 of 1	
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Smear Results			
CDM-BPM 100cm ²			
No.	α	B	No.
1	2	276	28
2	9	240	27
3	2	129	26
4			25
5			24
6			23
7			22
8			21
9			20
10			19
11			18
12			17
13			16
14			15
15			14
16			13
17			12
18			11
19			10
20			9
21			8
22			7
23			6
24			5
25			4

LAS (1 min Count)

α	B
2	276

Direct (Static) Count (min)

α	B
9	240

SMEAR (1 min Count)

α	B
2	129

Surveyed By: 2000H		Date: 8/4/05		Instrument: 4313		Serial #: 202349		α Eff: 0.2		β Eff: 0.31		α Bkg: 7		β Bkg: 270		Cal. Due: 24 Jan 06	
Reviewed By: Nicholas M. Beniger		Date: 2/1/06															

Key			
□	Smear	α	Boundary
□	Direct Reading	β	AVS Location
□	CDM-BPM 100 cm ²		
Δ	Grab Sample		

OP-001-02 Radiological Survey Sheet

Location: GLNTC - RAILS		RW# GLNTC-05-0002		Survey # GLNTC-05-028		Survey Type: RELEASE		Pg. 1 of 1	
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Smear Results					
CDM DPM/100cm ²					
No.	A	B	No.	A	B
1	6	292	26		
2	8	253	27		
3	3	128	28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

1 LAS (1 min count)

A	B
6	292

2 Direct (Static) Count (min)

A	B
8	253

3 SMear (1 min count)

A	B
3	128

22

Surveyed By: MedEnt	Date: 8/4/05	Instrument	Serial #	α Eff.	β Eff.	α Bkg.	β Bkg.	Cal. Due	Key
		4313	202348	0.2	0.31	7	270	24 Jan 06	☐ Smear ☐ Deep Ratio meter ☐ Direct Reading ☐ DPM/100 cm ² ☒ Grab Sample
Reviewed By: Nicholas M. Benier	Date: 2/1/06								☐ Boundary ☒ A/B Location

Revision 0

Radiological Surveys

OP-001-02 Radiological Survey Sheet

Location: GLNTC - RAILS		RW/PA: GLNTC-05-0002		Survey #: GLNTC-05-028		Survey Type: RELEASE		Pg. 1 of 1	
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Smear Results					
CPM/100cm ²					
No.	a	B	No.	a	B
1	12	31	26		
2	12	300	27		
3	5	120	28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

LAS (1 min Count)

a	B
6	311

Direct (Static) Count (min)

a	B
12	300

SM-AE (1 min Count)

a	B
5	120

Comments

Surveyed By: <i>[Signature]</i>	Date: 8/4/05	Instrument: 4013	Serial #: 202348	a Eff: 0.20	B Eff: 0.31	a Bkg: 7	B Bkg: 240	Cal. Due: 24 Jan 06	Key	
Reviewed By: <i>Nicholas M. Bertiner</i>	Date: 2/1/06								☐ Smear	☒ Boundary
									☐ Dose Rate meter	☐ AB Location
									☐ Direct Reading	
									☐ RPA/100 cm ²	
									☐ Grab Sample	

Revision 0

Radiological Surveys

OP-001-02 Radiological Survey Sheet

Location: GLNTC - RAILS		RW/PH: GLNTC-05-0002		Survey #: GLNTC-05-028		Survey Type: RELEASE		Pg. 1 of 1	
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Smear Results					
CDM $\frac{CPM}{100cm^2}$					
No.	A	B	No.	A	B
1	5	279	28		
2	10	230	27		
3	10	202	26		
4			25		
5			24		
6			23		
7			22		
8			21		
9			20		
10			19		
11			18		
12			17		
13			16		
14			15		
15			14		
16			13		
17			12		
18			11		
19			10		
20			9		
21			8		
22			7		
23			6		
24			5		
25			4		
26			3		
27			2		
28			1		

LAS (1 min Count)

A	B
5	279

Direct (Static) Count (min)

A	B
10	230

SMEAR (1 min Count)

A	B
10	202

24

Surveyed By: Redutt	Date: 8/4/05	Instrument: 4313	Serial #: 202348	A Eff: 0.2	B Eff: 0.31	A Bkg: 7	B Bkg: 270	Cal. Due: 245m	Key			
									☐	Smear	☐	Boundary
									☐	Spot Ratio m/hr	☐	A/B Location
									☐	Spot Reading		
									☐	CPM/100 cm ²		
									☐	Grab Sample		

Reviewed By: **Nicholas M. Berliner** Date: **2/1/06**

Revision 0

Radiological Surveys

OP-001-02 Radiological Survey Sheet

Location: GLNTC - RAILS		RWAP#: GLNTC-05-0002		Survey #: GLNTC-05-028		Survey Type: RELEASE		Pg. 1 of 1	
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Smear Results					
CPM/100cm ²					
No.	A	B	No.	A	B
1	336	28			
2	262	27			
3	181	28			
4		28			
5		30			
6		31			
7		32			
8		33			
9		34			
10		38			
11		38			
12		37			
13		35			
14		38			
15		40			
16		41			
17		42			
18		43			
19		44			
20		46			
21		48			
22		47			
23		48			
24		48			
25		50			

LAS (1 min count)

A	B
1	336

Direct (Static) Count (min)

A	B
7	262

Smear (1 min count)

A	B
4	181

Surveyed By: Neil J. [Signature]	Date: 8/4/05	Instrument: 431B	Serial #: 202399	α Eff: 0.2	β Eff: 0.3	α Bkg: 7	β Bkg: 240	Cal. Due: 24 Jan 06	Key				
									☐	Smear	* *	Boundary	
									☐	Dose Rate meter	W	W Location	
									☐	Direct Reading			
									☐	CPM/100 cm ²			
Reviewed By: Nicholas M. Beninger	Date: 2/1/06												

OP-001-02 Radiological Survey Sheet

Location: GLNTC - RAILS		RW# GLNTC-055-05032		Survey # GLNTC-055-028		Survey Type: RELEASE		Pg. 1 of 1																																																																																																																																																																																									
Smear Results CPM/100cm² <table border="1"> <thead> <tr> <th>No.</th> <th>A</th> <th>B</th> <th>No.</th> <th>A</th> <th>B</th> </tr> </thead> <tbody> <tr><td>1</td><td>5</td><td>31</td><td>28</td><td></td><td></td></tr> <tr><td>2</td><td>6</td><td>256</td><td>27</td><td></td><td></td></tr> <tr><td>3</td><td>7</td><td>155</td><td>26</td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td>25</td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td>24</td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td><td>23</td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td><td>22</td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td>21</td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td><td>20</td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td><td>19</td><td></td><td></td></tr> <tr><td>11</td><td></td><td></td><td>18</td><td></td><td></td></tr> <tr><td>12</td><td></td><td></td><td>17</td><td></td><td></td></tr> <tr><td>13</td><td></td><td></td><td>16</td><td></td><td></td></tr> <tr><td>14</td><td></td><td></td><td>15</td><td></td><td></td></tr> <tr><td>15</td><td></td><td></td><td>14</td><td></td><td></td></tr> <tr><td>16</td><td></td><td></td><td>13</td><td></td><td></td></tr> <tr><td>17</td><td></td><td></td><td>12</td><td></td><td></td></tr> <tr><td>18</td><td></td><td></td><td>11</td><td></td><td></td></tr> <tr><td>19</td><td></td><td></td><td>10</td><td></td><td></td></tr> <tr><td>20</td><td></td><td></td><td>9</td><td></td><td></td></tr> <tr><td>21</td><td></td><td></td><td>8</td><td></td><td></td></tr> <tr><td>22</td><td></td><td></td><td>7</td><td></td><td></td></tr> <tr><td>23</td><td></td><td></td><td>6</td><td></td><td></td></tr> <tr><td>24</td><td></td><td></td><td>5</td><td></td><td></td></tr> <tr><td>25</td><td></td><td></td><td>4</td><td></td><td></td></tr> <tr><td>26</td><td></td><td></td><td>3</td><td></td><td></td></tr> <tr><td>27</td><td></td><td></td><td>2</td><td></td><td></td></tr> <tr><td>28</td><td></td><td></td><td>1</td><td></td><td></td></tr> </tbody> </table>		No.	A	B	No.	A	B	1	5	31	28			2	6	256	27			3	7	155	26			4			25			5			24			6			23			7			22			8			21			9			20			10			19			11			18			12			17			13			16			14			15			15			14			16			13			17			12			18			11			19			10			20			9			21			8			22			7			23			6			24			5			25			4			26			3			27			2			28			1			LAS (1 min count) <table border="1"> <thead> <tr> <th>A</th> <th>B</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>311</td> </tr> </tbody> </table>		A	B	3	311	Direct (Static) Count (min) <table border="1"> <thead> <tr> <th>A</th> <th>B</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>256</td> </tr> </tbody> </table>		A	B	6	256	Smear (1 min count) <table border="1"> <thead> <tr> <th>A</th> <th>B</th> </tr> </thead> <tbody> <tr> <td>7</td> <td>155</td> </tr> </tbody> </table>		A	B	7	155
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Surveyed By: <i>Nicholas M. Bendiner</i>		Date: <i>8/14/05</i>		Instrument: <i>4393</i>		Serial # <i>202348</i>		α Eff. <i>0.2</i>		β Eff. <i>0.3</i>		α Bkg. <i>7</i>		β Bkg. <i>240</i>		Cal. Due <i>24 Jan 06</i>		Key																																																																																																																																																																															
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OP-001-02 Radiological Survey Sheet GLNTC-05-003

Location: <u>GLNTC Lab Trailer</u>		RWP# <u>NMB 2/1/06</u>		Survey # <u>GLNTC-05-029</u>		Survey Type: <u>Routine</u>		pg. 1 of 1	
Smear Results		1 - MICROWAVE		3 - MICROWAVE		5 - HOD		7 - S. ENTRANCE	
CPM - DPM/100cm ²		2 - MICRO WAVE		4 - MICROWAVE		6 - FLOOR		8 - EAST TABLE	
No. α β No. α β		9 - WEST TABLE		11 - N. ENTRANCE		12 - FLOOR		13 - FLOOR	
1 0 40 28		10		11		12		13	
2 0 42 27		11		12		13		14	
3 0 43 28		12		13		14		15	
4 0 59 29		13		14		15		16	
5 0 41 30		14		15		16		17	
6 0 39 31		15		16		17		18	
7 0 38 32		16		17		18		19	
8 1 30 33		17		18		19		20	
9 0 43 34		18		19		20		21	
10 0 40 35		19		20		21		22	
11 0 52 36		20		21		22		23	
12 0 43 37		21		22		23		24	
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25 0 50 50									
Comments									
Surveyed By: <u>B. Clank</u> Date: <u>7-27-05</u>		Instrument: <u>2929</u> Serial #: <u>95572</u>		α Eff. <u>305</u> β Eff. <u>232</u>		α Bkg. <u>12</u> β Bkg. <u>718</u>		Cal. Due <u>2/02/05</u>	
Reviewed By: <u>[Signature]</u> Date: <u>7/27/05</u>								Key	
								○ Smear	
								□ Dose Rate mR/hr	
								* Direct Reading DPM/100 cm ²	
								△ Grab Sample	

OP-001-02 Radiological Survey Sheet GLNTC-05-003

Location: <u>GLNTC LAB TRAILER</u>		RWP# <u>GLNTC-05-003</u>	NMB <u>2/1/06</u>	Survey # <u>GLNTC 05-030</u>	Survey Type: <u>Routine</u>	pg. 1 of 1
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Smear Results						1 - MICROWAVE								3 - MICROWAVE		5 - HOD		7 - S. ENTRANCE		9 - WESTABLE		11 - N. ENTRANCE		13 - FLOOR	
CPM - DPM/100cm ²						2 - MICROWAVE								4 - MICROWAVE		6 - FLOOR		8 - EASTTABLE		10 - FREEZER		12 - FLOOR			
No.	α	β	No.	α	β																				
1	0	47	28																						
2	0	43	27																						
3	0	44	28																						
4	0	46	29																						
5	0	41	30																						
6	0	52	31																						
7	0	44	32																						
8	1	51	33																						
9	0	55	34																						
10	0	52	35																						
11	0	45	36																						
12	0	29	37																						
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Comments		Surveyed By: <u>Nick Ruff</u> Date: <u>7/28/05</u>		Instrument: <u>2929</u>	Serial #: <u>95572</u>	α Eff.: <u>.305</u>	β Eff.: <u>.232</u>	α Bkg.: <u>8</u>	β Bkg.: <u>433</u>	Cal. Due: <u>7/28/05</u>	Key	
											☐	Smear
											☐	Dose Rate mR/hr
											*	Direct Reading DPM/100 cm ²
											Δ	Grab Sample
		Reviewed By: <u>Nicholas M. Benner</u> Date: <u>2/1/06</u>										

OFFICE TRAILER

OP-001-02 Radiological Survey Sheet

Location: <u>GLNTC</u>		RWP# <u>GLNTC-05-003</u>		Survey # <u>GLNTC-05-031</u>		Survey Type: <u>Routine</u>		pg. 1 of 1	
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Smear Results					
Can DPM/100cm ²					
No.	α	β	No.	α	β
1	0	57	26		
2	1	49	27		
3	0	45	28		
4	2	37	29		
5	0	46	30		
6	0	39	31		
7	0	55	32		
8	1	42	33		
9	0	43	34		
10	2	47	35		
11	0	51	36		
12	0	45	37		
13			38		
14			39		
15			40		
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19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

① S Entrance ② E. table ③ N. table ④ E. table ⑤ E. Entrance-Floor ⑥ Lunch table ⑦ Lunch table
 ⑧ Fridge ⑨ Storage shelf ⑩ S. Entrance ⑪ W. Entrance ⑫ Source Locker

Comments:
 See Daily Spreadsheet
 for DPM

OFFICE TRAILER

Surveyed By: <u>Nicholas M. Behr</u>	Date: <u>7/29/05</u>	Instrument: <u>2929</u>	Serial #: <u>95572</u>	α Eff.: <u>505</u>	β Eff.: <u>1232</u>	α Bkg.: <u>8</u>	β Bkg.: <u>48.7</u>	Cal. Due: <u>2/1/06</u>	Key			
									○	Smear	*.*	Boundary
									□	Dose Rate mR/hr	■	A/S Location
									*	Direct Reading DPM/100 cm ²		
									△	Grab Sample		

Reviewed By: Nicholas M. Behr Date: 7/1/06

OP-001-02 Radiological Survey Sheet GLNTC-05-003

Location: <u>GLNTC LAB TRAILER</u>			RWP# <u>GLNTC-05-003</u>			Survey # <u>GLNTC-05-032</u>			Survey Type: <u>Routine</u>			pg. 1 of 1																																																																																																																																																														
Smear Results DPM/100cm ²						1 - MICROWAVE			3 - MICROWAVE			5 - HCOO																																																																																																																																																														
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OP-001-02 Radiological Survey Sheet GLNTC-05-003

Location: <u>GLNTC LAB TRAILER</u>		RWP# <u>GLNTC 05-002</u>		Survey # <u>GLNTC 05-033</u>		Survey Type: <u>Routine</u>		pg. 1 of 1							
Smear Results		1 - MICROWAVE		3 - MICROWAVE		5 - HCOO		7 - S. ENTRANCE		9 - WEST WALL		11 - N. ENTRANCE		13 - FLOOR	
CDM DPM/100cm ²		2 - MICRO WAVE		4 - MICROWAVE		6 - FLOOR		8 - EAST WALL		10 - FREEZER		12 - FLOOR			
No.	α	β	No.	α	β										
1	0	44	28												
2	1	45	27												
3	0	54	28												
4	0	65	29												
5	0	54	30												
6	1	42	31												
7	0	08	32												
8	0	37	33												
9	1	54	34												
10	0	42	35												
11	0	45	36												
12	0	40	37												
13	1	50	38												
14			39												
15			40												
16			41												
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21			46												
22			47												
23			48												
24			49												
25			50												
Comments															
Surveyed By: <u>M. B. H.</u> Date: <u>8/1/05</u>						Instrument: <u>2929</u> Serial #: <u>95572</u> α Eff.: <u>305</u> β Eff.: <u>232</u> α Bkg.: <u>5</u> β Bkg.: <u>48.2</u> Cal. Due: <u>2007.15</u>									
Reviewed By: <u>Nicholas M. Behr</u> Date: <u>2/1/06</u>						Key									
						☐ Smear ☐ Dose Rate mR/hr ☐ Direct Reading DPM/100 cm ² ☐ Grab Sample									
						☐ Boundary ☐ A/B Location									

OP-001-02 Radiological Survey Sheet

GLNTC-05-003

Location: GLNTC LATS Trailer		RWPH# NMB 2/1/06		Survey # GLNTC-05-035		Survey Type: Routine		pg. 1 of 1	
Smear Results CPM DPM/100cm ²				1 - MICROWAVE 3 - MICROWAVE 5 - HALL 7 - S. ENTRANCE 9 - WEST AREA 11 - N. ENTRANCE 13 - FLOOR 2 - MICROWAVE 4 - MICROWAVE 6 - FLOOR 8 - EAST AREA 10 - FREEZER 12 - FLOOR					
No.	α	β	No.	α	β				
1	0	43	28						
2	2	34	27						
3	0	47	28						
4	1	38	29						
5	0	42	30						
6	0	41	31						
7	1	58	32						
8	0	42	33						
9	0	32	34						
10	0	37	35						
11	0	31	36						
12	0	42	37						
13	0	39	38						
14			39						
15			40						
16			41						
17			42						
18			43						
19			44						
20			45						
21			46						
22			47						
23			48						
24			49						
25			50						
Comments									
Surveyed By: [Signature] Date: 8/3/05						Instrument: 2929 Serial # 95572 α Eff. 305 β Eff. 232 α Bkg. 0.3 β Bkg. 47.5 NMB 2/1/06 Cal. Due 200705			
Reviewed By: Nicholas M. Bertina Date: 2/1/06						Key			
						☐ Smear ☐ Dose Rate m/hr ☐ Direct Reading DPM/100 cm ² ☐ Grab Sample			
						☐ Boundary ☐ A/S Location			

OP-001-02 Radiological Survey Sheet

Location: <u>San Deane Loxide</u>			RWP# <u>GLNTE-05-002</u>			Survey # <u>GLNTE-05-030</u>			Survey Type: <u>Release</u>			pg. 1 of 1	
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Smear Results					
CPM-DPM/100cm ²					
No.	α	β	No.	α	β
1	0	224	26		
2	0	157	27		
3	5	363	28		
4	2	285	29		
5	1	288	30		
6	5	263	31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

Comments

① LAS Bucket

② LAS CAB

③ Direct/Static CAB

④ Direct/Static Bucket

⑤ Smear CAB

⑥ Smear Bucket

Surveyed By: <u>McDuff</u>		Date: <u>8/2/05</u>		Instrument: <u>4393</u>		Serial #: <u>16H26</u>		α Eff. <u>0.219</u>		β Eff. <u>0.205</u>		α Bkg. <u>2</u>		β Bkg. <u>312</u>		Cal. Due <u>3/6/05</u>	
Reviewed By: <u>Nicholas M. Berthier</u>		Date: <u>2/2/06</u>															

Key			
○	Smear	*.*	Boundary
□	Dose Rate m/hr	■	A/S Location
•	Direct Reading DPM/100 cm ²		
△	Grab Sample		

OP-001-02 Radiological Survey Sheet[illegible]

OP-001-02 Radiological Survey Sheet

Location: GREAT LAKES			RWP# GLNTC-05-002	Survey # GLNTC-05-038	Survey Type: Release	pg. 1 of 1
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Smear Results					
CPM BPM/100cm²					
No.	α	β	No.	α	β
1		44	26		
2	0	54	27		
3	1	43	28		
4	0	42	29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

CEMENT BOARDS

BOARD #1 SMEAR #1

BOARD #2 SMEAR #2

BOARD #3 SMEAR #3

BOARD #4 SMEAR #4

20 min.

Surveyed By:	Date:	Instrument	Serial #	α Eff.	β Eff.	α Bkg.	β Bkg.	Cal. Due	Key		
									○ Smear	*.* Boundary	
									□ Dose Rate m/hr	■ A/S Location	
									*	Direct Reading	
									△	Grab Sample	

Reviewed By:	Date:
Nicholas M. Bentivegna	7/2/06

OP-001-02 Radiological Survey Sheet

Location: GREAT LAKES LAB TRAILER			RWP# 6VNTC-05-002			Survey # 6VNTC-05-039			Survey Type: RELEASE			pg. 1 of 1	
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Smear Results					
CDM - DPM/100cm ²					
No.	α	β	No.	α	β
1	0	43	26		
2	0	43	27		
3			28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

SOIL SHAKING PANS

Surveyed By: <i>[Signature]</i>		Date: 8-3-05		Instrument	Serial #	α Eff.	β Eff.	α Bkg.	β Bkg.	Cal. Due	Key			
				2929	93572	.305	.232	4	949	200725	○	Smear	*-*	Boundary
											□	Dose Rate m/hr	■	A/S Location
											*	Direct Reading DPM/100 cm ²		
											△	Grab Sample		

Reviewed By: <i>Nicholas M. Bertin</i>	Date: 2/2/06
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OP-001-02 Radiological Survey Sheet[illegible]

OP-001-02 Radiological Survey Sheet

Location: **GREAT LAKES LAB TRAILER**
RWPF# **GVNTE-05-002**
Survey # **GVNTE-05-041**
Survey Type: **RELEASE**
pg. 1 of 1

Smear Results
CPM DPM/100cm²

No.	α	β	No.	α	β
1	0	50	26		
2	0	48	27		
3	1	39	28		
4	0	56	29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

MICROWAVE # 1

20 min.

Surveyed By: *[Signature]*
Date: **8-4-05**

Reviewed By: **Nicholas M. Berlier**
Date: **2/2/06**

Instrument	Serial #	α Eff.	β Eff.	α Bkg.	β Bkg.	Cal. Due	Key	Boundary
7029	95572	0.305	0.232	5	937	2006-08	☒ Smear ☐ Dose Rate m/hr ☐ Direct Reading DPM/100 cm ² ☐ Grab Sample	☒ A/B Location

OP-001-02 Radiological Survey Sheet

Location: John Deere 200 CRANATO 2

RWP# 6L NTC .05 .002

Survey # 6L NTC .05 .044

Survey Type: Release

pg. 1 of 1

Smear Results

CPM - DPM/100cm ²					
No.	α	β	No.	α	β
1	2	202	26		
2	2	280	27		
3	0	269	28		
4	1	221	29		
5	1	245	30		
6	2	195	31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

Comments

② LAS CAB

④ Direct (Static) CAB

⑥ Smear CAB

① LAS Bucket

③ Direct (Static) Bucket

⑤ Smear Bucket

Surveyed By:	Date:	Instrument	Serial #	α Eff.	β Eff.	α Bkg.	β Bkg.	Cal. Due	Key			
M. ENT	8/3/05	4393	162426	.217	.205	3	312	3/6/05	☐	Smear	**	Boundary
						4	229	2/2/06	☐	Dose Rate mR/hr	☒	A/S Location
									*	Direct Reading		
									△	Grab Sample		

Reviewed By: Nicholas M. Berliner

Date: 2/2/06

OP-001-02 Radiological Survey Sheet

Location: <u>GREAT LAKES LAB TABLE</u>			RWP# <u>GLNTP-05-002</u>			Survey # <u>GLNTP-05-045</u>			Survey Type: <u>Release</u>			pg. 1 of 1																																																																																																																																																																																					
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="6">Smear Results</th> </tr> <tr> <th colspan="6">CPM - DPM/100cm²</th> </tr> <tr> <th>No.</th> <th>α</th> <th>β</th> <th>No.</th> <th>α</th> <th>β</th> </tr> <tr><td>1</td><td>0</td><td>53</td><td>26</td><td></td><td></td></tr> <tr><td>2</td><td>0</td><td>43</td><td>27</td><td></td><td></td></tr> <tr><td>3</td><td>0</td><td>52</td><td>28</td><td></td><td></td></tr> <tr><td>4</td><td>1</td><td>40</td><td>29</td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td>30</td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td><td>31</td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td><td>32</td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td>33</td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td><td>34</td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td><td>35</td><td></td><td></td></tr> <tr><td>11</td><td></td><td></td><td>36</td><td></td><td></td></tr> <tr><td>12</td><td></td><td></td><td>37</td><td></td><td></td></tr> <tr><td>13</td><td></td><td></td><td>38</td><td></td><td></td></tr> <tr><td>14</td><td></td><td></td><td>39</td><td></td><td></td></tr> <tr><td>15</td><td></td><td></td><td>40</td><td></td><td></td></tr> <tr><td>16</td><td></td><td></td><td>41</td><td></td><td></td></tr> <tr><td>17</td><td></td><td></td><td>42</td><td></td><td></td></tr> <tr><td>18</td><td></td><td></td><td>43</td><td></td><td></td></tr> <tr><td>19</td><td></td><td></td><td>44</td><td></td><td></td></tr> <tr><td>20</td><td></td><td></td><td>45</td><td></td><td></td></tr> <tr><td>21</td><td></td><td></td><td>46</td><td></td><td></td></tr> <tr><td>22</td><td></td><td></td><td>47</td><td></td><td></td></tr> <tr><td>23</td><td></td><td></td><td>48</td><td></td><td></td></tr> <tr><td>24</td><td></td><td></td><td>49</td><td></td><td></td></tr> <tr><td>25</td><td></td><td></td><td>50</td><td></td><td></td></tr> <tr> <th colspan="6">Comments</th> </tr> <tr><td colspan="6" style="height: 100px;"></td></tr> </table>														Smear Results						CPM - DPM/100cm ²						No.	α	β	No.	α	β	1	0	53	26			2	0	43	27			3	0	52	28			4	1	40	29			5			30			6			31			7			32			8			33			9			34			10			35			11			36			12			37			13			38			14			39			15			40			16			41			17			42			18			43			19			44			20			45			21			46			22			47			23			48			24			49			25			50			Comments											
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<u>5 GALLON BUCKETS</u>																																																																																																																																																																																																	
<u>BUCKET #1 SMEAR #1</u> <u>BUCKET #2 SMEAR #2</u> <u>BUCKET #3 SMEAR #3</u> <u>BUCKET #4 SMEAR #4</u>																																																																																																																																																																																																	
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Surveyed By: <u>[Signature]</u>		Date: <u>8-4-05</u>		Instrument: <u>2929</u>	Serial #: <u>95572</u>	α Eff.: <u>0.305</u>	β Eff.: <u>0.232</u>	α Bkg.: <u>5</u>	β Bkg.: <u>937</u>	Cal. Due: <u>2006-08-01</u>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="4">Key</th> </tr> <tr> <td>☐</td> <td>Smear</td> <td>*.*</td> <td>Boundary</td> </tr> <tr> <td>☐</td> <td>Dose Rate m/hr</td> <td>☐</td> <td>A/S Location</td> </tr> <tr> <td>*</td> <td>Direct Reading DPM/100 cm²</td> <td></td> <td></td> </tr> <tr> <td>Δ</td> <td>Grab Sample</td> <td></td> <td></td> </tr> </table>			Key				☐	Smear	*.*	Boundary	☐	Dose Rate m/hr	☐	A/S Location	*	Direct Reading DPM/100 cm ²			Δ	Grab Sample																																																																																																																																																																		
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Reviewed By: <u>Nicholas M. Berlier</u>		Date: <u>2/2/06</u>																																																																																																																																																																																															

OP-001-02 Radiological Survey Sheet

Location: <u>GLNTC</u>			RWP# <u>GLNTC-05-002</u>			Survey # <u>GLNTC-05-047</u>			Survey Type: <u>Release</u>			pg. 1 of 1	
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Smear Results					
CPM DPM/100cm ²					
No.	α	β	No.	α	β
1	0	50	26		
2	0	51	27		
3	0	52	28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
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17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

Trimble GPS unit

② Antenna

① Backpack
Exterior: Interior

③ Handset

20 min.

Surveyed By: <u>N. B. H.</u>		Date: <u>8/4/05</u>		Instrument	Serial #	α Eff.	β Eff.	α Bkg.	β Bkg.	Cal. Due	Key	
				<u>2429</u>	<u>95572</u>	<u>0.305</u>	<u>0.232</u>	<u>5</u>	<u>937</u>	<u>2007-07</u>	☐	Smear
											☐	Dose Rate m/hr
											*	Direct Reading
											Δ	Grab Sample

Reviewed By: <u>Nicholas M. Berliner</u>	Date: <u>2/2/06</u>
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OP-001-02 Radiological Survey Sheet

Location: GREAT LAKES				RWP# GLNTE-05-002				Survey # GLNTE-05-048				Survey Type: Release				pg. 1 of 1	
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Smear Results					
CPM-BPM/100cm ²					
No.	α	β	No.	α	β
1	4	56	26		
2	0	52	27		
3	0	45	28		
4	0	56	29		
5	1	49	30		
6	0	50	31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
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23			48		
24			49		
25			50		

(6)

NEGATIVE AIR UNIT

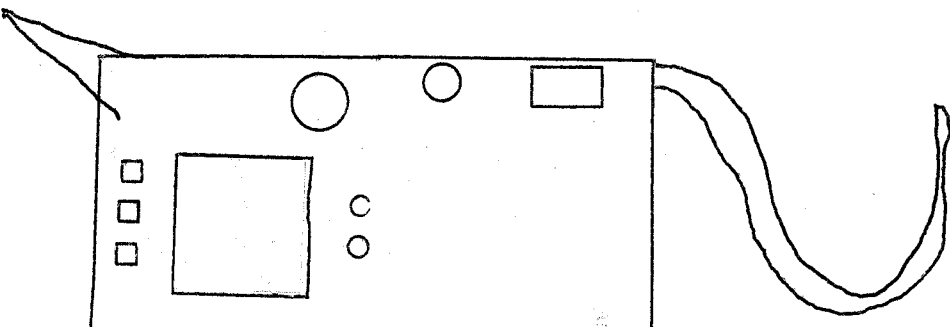
TOOK A DIRECT READING
ON THE INSIDE OF UNIT
BICRON READING 5 urem/h

20 min.

Comments											
BICRON BACK											
GROUND SURF/H											

Surveyed By: <i>[Signature]</i>		Date: 8-4-05		Instrument: BICRON		Serial #: 95572		α Eff.: 0.305		β Eff.: 0.232		α Bkg.: 5		β Bkg.: 937		Cal. Due: 2006-03-28/06		Key	
Reviewed By: Nicholas M. Bertner		Date: 2/2/06																☐ Smear ☐ Dose Rate m/hr ☐ Direct Reading ☐ DPM/100 cm ² ☐ Grab Sample	

OP-001-02 Radiological Survey Sheet

Location: <u>GLNTC</u>			RWP# <u>GLNTC-05-002</u>			Survey # <u>GLNTC-05-019</u>			Survey Type: <u>Release</u>			pg. 1 of 1		
Smear Results CPM/BPM/100cm²												CANON Powershot S45 ① All sides 		
No.	α	β	No.	α	β									
1	1	54	26											
2			27											
3			28											
4			29											
5			30											
6			31											
7			32											
8			33											
9			34											
10			35											
11			36											
12			37											
13			38											
14			39											
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18			43											
19			44											
20			45											
21			46											
22			47											
23			48											
24			49											
25			50											
Comments						20 min.								
Surveyed By: <u>Nick Datt</u>		Date: <u>8/4/05</u>		Instrument	Serial #	α Eff.	β Eff.	α Bkg.	β Bkg.	Cal. Due	Key			
				<u>2929</u>	<u>95572</u>	<u>.305</u>	<u>.232</u>	<u>5</u>	<u>737</u>	<u>2004-05</u>	☐ Smear	*.*	Boundary	
											☐ Dose Rate m/hr		A/S Location	
											*	Direct Reading		
											△	Grab Sample		
Reviewed By: <u>Nicholas M. Berlin</u>		Date: <u>7/2/06</u>												

OP-001-02 Radiological Survey Sheet

Location: GREAT LAKES			RWP# GLNTE-05-002			Survey # GLNTE-05-050			Survey Type: Release			pg. 1 of 1		
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Smear Results					
CPM - DPM/100cm ²					
No.	α	β	No.	α	β
1	1	53	26		
2	2	43	27		
3	0	50	28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

Comments

GE FREEZER

20 min.

Surveyed By: <i>[Signature]</i>	Date: 8-4-05	Instrument: 2929	Serial #: 95572	α Eff.: 0.305	β Eff.: 0.232	α Bkg.: 5	β Bkg.: 937	Cal. Due: 2006-01-01	Key			
									☐	Smear	*.*	Boundary
									☐	Dose Rate m/hr		A/S Location
									*	Direct Reading DPM/100 cm ²		
									Δ	Grab Sample		

Reviewed By: Nicholas M. Berliner	Date: 2/4/06
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OP-001-02 Radiological Survey Sheet

[illegible]

OP-001-02 Radiological Survey Sheet

Location: <u>GLNTC</u>				RWP# <u>GLNTC-05.002</u>				Survey # <u>GLNTC-05.052</u>				Survey Type: <u>Release</u>				pg. 1 of 1	
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Smear Results					
CPM-DPM/100cm ²					
No.	α	β	No.	α	β
1	0	44	26		
2	1	39	27		
3			28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

LV-1 Air Sampler #02295

Surveyed By: <u>Nicholas M. Berlin</u>		Date: <u>8/4/05</u>		Instrument	Serial #	α Eff.	β Eff.	α Bkg.	β Bkg.	Cal. Due	Key			
				<u>2929</u>	<u>95572</u>	<u>0.305</u>	<u>0.232</u>	<u>5</u>	<u>737</u>	<u>2006/05</u>	☐	Smear	*.*	Boundary
											☐	Dose Rate mR/hr	☐	A/S Location
Reviewed By: <u>Nicholas M. Berlin</u>		Date: <u>2/2/06</u>									*	Direct Reading		
											Δ	Grab Sample		

OP-001-02 Radiological Survey Sheet

Location: **GLNTC**
RWP#: **GLNTC-05.002**
Survey #: **GLNTC-05.054**
Survey Type: **Release**
pg. 1 of 1

Smear Results
CPM - DPM/100cm²

No.	α	β	No.	α	β
1	0	39	26		
2	2	41	27		
3	1	40	28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

Spectra LL200 Laser

Comments

20 min.

Surveyed By:	Date:	Instrument	Serial #	α Eff.	β Eff.	α Bkg.	β Bkg.	Cal. Due	Key			
<i>MBB</i>	<i>6/4/05</i>	<i>20209</i>	<i>95572</i>	<i>0.305</i>	<i>0.232</i>	<i>5</i>	<i>937</i>	<i>2006/05</i>	☒	Smear	*.*	Boundary
									☐	Dose Rate m/hr		A/B Location
									*	Direct Reading		
									Δ	Grab Sample		

Reviewed By: *Nicholas M Berliner*
Date: *2/2/06*

[illegible]

OP-001-02 Radiological Survey Sheet[illegible]

Location: GLNTC						RWP# GLNTC-05-002						Survey # GLNTC-05-057						Survey Type: Release						pg. 1 of 1	
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Smear Results								
COM DPM/100cm ²								
No.	α	β	No.	α	β	No.	α	β
1	10	59	28					
2	0	43	27					
3			28					
4			29					
5			30					
6			31					
7			32					
8			33					
9			34					
10			35					
11			36					
12			37					
13			38					
14			39					
15			40					
16			41					
17			42					
18			43					
19			44					
20			45					
21			46					
22			47					
23			48					
24			49					
25			50					

ISOC5 Source

① Packing Box (exterior - interior)

② ISOC5 Source

(all sides + underside intact)

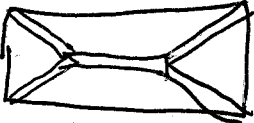
20 min.

Surveyed By: <i>[Signature]</i>		Date: 8/4/05	Instrument: ZG24	Serial #: 95572	α Eff.: 0.305	β Eff.: 0.232	α Bkg.: 5	β Bkg.: 937	Cal. Due: 2/20/06	Key		
										☒	Smear	*.* Boundary
										☐	Dose Rate m/hr	■ A/B Location
										*	Direct Reading	
											DPM/100 cm ²	
										☒	Grab Sample	
Reviewed By: <i>[Signature]</i>		Date: 8-4-05										

OP-001-02 Radiological Survey Sheet

Location: <u>GLNTP</u>			RWP# <u>GLNTP-05-002</u>			Survey # <u>GLNTP-05-058</u>			Survey Type: <u>Release</u>			pg. 1 of 1																																																																																																																																																																							
Smear Results CPM/100cm² <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>α</th> <th>β</th> <th>No.</th> <th>α</th> <th>β</th> </tr> </thead> <tbody> <tr><td>1</td><td>2</td><td>42</td><td>26</td><td></td><td></td></tr> <tr><td>2</td><td></td><td></td><td>27</td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td><td>28</td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td>29</td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td>30</td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td><td>31</td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td><td>32</td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td>33</td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td><td>34</td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td><td>35</td><td></td><td></td></tr> <tr><td>11</td><td></td><td></td><td>36</td><td></td><td></td></tr> <tr><td>12</td><td></td><td></td><td>37</td><td></td><td></td></tr> <tr><td>13</td><td></td><td></td><td>38</td><td></td><td></td></tr> <tr><td>14</td><td></td><td></td><td>39</td><td></td><td></td></tr> <tr><td>15</td><td></td><td></td><td>40</td><td></td><td></td></tr> <tr><td>16</td><td></td><td></td><td>41</td><td></td><td></td></tr> <tr><td>17</td><td></td><td></td><td>42</td><td></td><td></td></tr> <tr><td>18</td><td></td><td></td><td>43</td><td></td><td></td></tr> <tr><td>19</td><td></td><td></td><td>44</td><td></td><td></td></tr> <tr><td>20</td><td></td><td></td><td>45</td><td></td><td></td></tr> <tr><td>21</td><td></td><td></td><td>46</td><td></td><td></td></tr> <tr><td>22</td><td></td><td></td><td>47</td><td></td><td></td></tr> <tr><td>23</td><td></td><td></td><td>48</td><td></td><td></td></tr> <tr><td>24</td><td></td><td></td><td>49</td><td></td><td></td></tr> <tr><td>25</td><td></td><td></td><td>50</td><td></td><td></td></tr> </tbody> </table> Comments												No.	α	β	No.	α	β	1	2	42	26			2			27			3			28			4			29			5			30			6			31			7			32			8			33			9			34			10			35			11			36			12			37			13			38			14			39			15			40			16			41			17			42			18			43			19			44			20			45			21			46			22			47			23			48			24			49			25			50			6 pc Lead Shielding Rings ① 1 smear ACROSS ALL SIX RINGS ○ x6											
No.	α	β	No.	α	β																																																																																																																																																																														
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Surveyed By: <u>Nick Burt</u>			Date: <u>8/4/05</u>			Instrument			Serial #			α Eff.			β Eff.			α Bkg.			β Bkg.			Cal. Due			Key																																																																																																																																																								
						<u>2424</u>			<u>95572</u>			<u>0.305</u>			<u>0.232</u>			<u>5</u>			<u>137</u>			<u>200405</u>			☐ Smear ☐ Dose Rate m/hr ☐ Direct Reading CPM/100 cm ² ☐ Grab Sample			☐ Boundary ☐ A/B Location																																																																																																																																																					
Reviewed By: <u>Nicholas M. Berliner</u>			Date: <u>2/2/06</u>																																																																																																																																																																																

OP-001-02 Radiological Survey Sheet

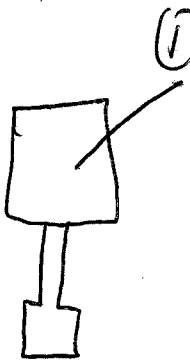
Location: <u>GLNTE</u>				RWP# <u>GLNTE-05-002</u>				Survey # <u>GLNTE-05-059</u>				Survey Type: <u>Release</u>				pg. 1 of 1																																																																																																																																																															
Smear Results CPM-DPM/100cm² <table border="1"> <thead> <tr> <th>No.</th> <th>α</th> <th>β</th> <th>No.</th> <th>α</th> <th>β</th> </tr> </thead> <tbody> <tr><td>1</td><td>4</td><td>40</td><td>26</td><td></td><td></td></tr> <tr><td>2</td><td>2</td><td>39</td><td>27</td><td></td><td></td></tr> <tr><td>3</td><td>1</td><td>41</td><td>28</td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td>29</td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td>30</td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td><td>31</td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td><td>32</td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td>33</td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td><td>34</td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td><td>35</td><td></td><td></td></tr> <tr><td>11</td><td></td><td></td><td>36</td><td></td><td></td></tr> <tr><td>12</td><td></td><td></td><td>37</td><td></td><td></td></tr> <tr><td>13</td><td></td><td></td><td>38</td><td></td><td></td></tr> <tr><td>14</td><td></td><td></td><td>39</td><td></td><td></td></tr> <tr><td>15</td><td></td><td></td><td>40</td><td></td><td></td></tr> <tr><td>16</td><td></td><td></td><td>41</td><td></td><td></td></tr> <tr><td>17</td><td></td><td></td><td>42</td><td></td><td></td></tr> <tr><td>18</td><td></td><td></td><td>43</td><td></td><td></td></tr> <tr><td>19</td><td></td><td></td><td>44</td><td></td><td></td></tr> <tr><td>20</td><td></td><td></td><td>45</td><td></td><td></td></tr> <tr><td>21</td><td></td><td></td><td>46</td><td></td><td></td></tr> <tr><td>22</td><td></td><td></td><td>47</td><td></td><td></td></tr> <tr><td>23</td><td></td><td></td><td>48</td><td></td><td></td></tr> <tr><td>24</td><td></td><td></td><td>49</td><td></td><td></td></tr> <tr><td>25</td><td></td><td></td><td>50</td><td></td><td></td></tr> </tbody> </table>										No.	α	β	No.	α	β	1	4	40	26			2	2	39	27			3	1	41	28			4			29			5			30			6			31			7			32			8			33			9			34			10			35			11			36			12			37			13			38			14			39			15			40			16			41			17			42			18			43			19			44			20			45			21			46			22			47			23			48			24			49			25			50			three tables ① ③ smear on all sides of table - one smear/each table 									
No.	α	β	No.	α	β																																																																																																																																																																										
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Surveyed By: <u>Nicholas M. Bertner</u> Date: <u>8/5/05</u>										Instrument: <u>201209</u> Serial #: <u>95572</u> α Eff.: <u>0.305</u> β Eff.: <u>0.232</u> α Bkg.: <u>15</u> β Bkg.: <u>793</u> Cal. Due: <u>2006-08-20</u>																																																																																																																																																																					
Reviewed By: <u>Nicholas M. Bertner</u> Date: <u>2/2/06</u>										Key <table border="1"> <tr> <td>☐</td> <td>Smear</td> <td>* *</td> <td>Boundary</td> </tr> <tr> <td>☐</td> <td>Dose Rate m/hr</td> <td></td> <td>A/S Location</td> </tr> <tr> <td>*</td> <td>Direct Reading CPM/100 cm²</td> <td></td> <td></td> </tr> <tr> <td>Δ</td> <td>Grab Sample</td> <td></td> <td></td> </tr> </table>								☐	Smear	* *	Boundary	☐	Dose Rate m/hr		A/S Location	*	Direct Reading CPM/100 cm ²			Δ	Grab Sample																																																																																																																																																
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OP-001-02 Radiological Survey Sheet

Location: <u>GLNTE</u>		RWP# <u>GLNTE-05-002</u>		Survey # <u>GLNTE-05-060</u>		Survey Type: <u>Release</u>		pg. 1 of 1	
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Smear Results					
CPM - DPM/100cm ²					
No.	α	β	No.	α	β
1	0	35	26		
2			27		
3			28		
4			29		
5			30		
6			31		
7			32		
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18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

150C5 Detector probe



① 1 smear on All sides of detector

20 min.

Surveyed By: <u>McBurt</u>		Date: <u>8/5/05</u>		Instrument	Serial #	α Eff.	β Eff.	α Bkg.	β Bkg.	Cal. Due	Key			
				<u>2020</u>	<u>95572</u>	<u>0.305</u>	<u>0.232</u>	<u>15</u>	<u>943</u>	<u>2005/05</u>	☒	Smear	☐	Boundary
											☐	Dose Rate m/hr	☐	A/B Location
Reviewed By: <u>Nicholas M Berlin</u>		Date: <u>2/2/06</u>									☐	Direct Reading		
											☐	Grab Sample		

OP-001-02 Radiological Survey Sheet[illegible]

OFFICE TRAILER

OP-001-02 Radiological Survey Sheet

Location: <u>GLNTC</u>		RWP# <u>GLNTC-05-003 NB</u>		Survey # <u>GLNTC-05-002</u>		Survey Type: <u>Routine</u>		pg. 1 of 1											
Smear Results		① S. Entrance ② E. Table ③ N. Table ④ E. Table ⑤ E. Entrance Floor ⑥ Lunch table ⑦ Lunch table ⑧ Fridge ⑨ Storage shelf ⑩ S. Entrance ⑪ W. Entrance ⑫ Source Locker																	
Can DPM/100cm ²																			
No.	α	β	No.	α	β														
1	1	44	26																
2	2	43	27																
3	1	50	28																
4	7	48	29																
5	3	41	30																
6	4	40	31																
7	0	40	32																
8	2	42	33																
9	0	41	34																
10	0	39	35																
11	0	40	36																
12	2	43	37																
13			38																
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25			50																
Comments																			
Sec Daily Spreadsheet FOR DPM																			
OFFICE TRAILER																			
Surveyed By: <u>NMB</u>		Date: <u>8/5/05</u>		Instrument		Serial #		α Eff.		β Eff.		α Bkg.		β Bkg.		Cal. Due		Key	
				<u>9429</u>		<u>95572</u>		<u>0.305</u>		<u>0.232</u>		<u>15</u>		<u>943</u>		<u>2004-05</u>		☐ Smear ☐ Dose Rate mR/hr ☐ Direct Reading DPM/100 cm ² ☐ Grab Sample	
Reviewed By: <u>Nicholas M. Berliner</u>		Date: <u>2/2/06</u>																☐ Boundary ☐ A/S Location	

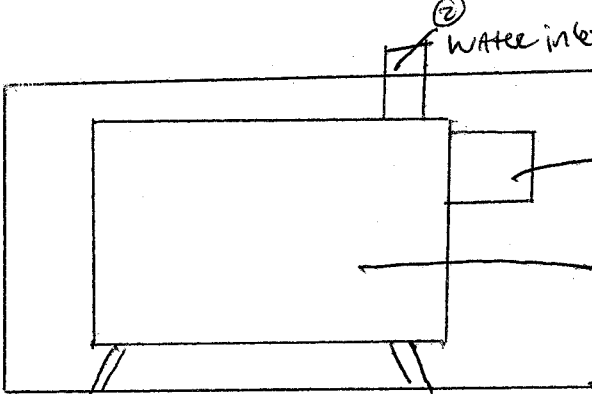
OP-001-02 Radiological Survey Sheet

Location: <u>GLNTC</u>				RWP# <u>GLNTC-05-002</u>				Survey # <u>GLNTC-05-063</u>				Survey Type: <u>Release</u>				pg. 1 of 1	
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Smear Results					
CPM/BPM/100cm ²					
No.	α	β	No.	α	β
1	2	39	26		
2	1	40	27		
3	0	42	28		
4	1	37	29		
5	3	39	30		
6	4	40	31		
7	2	41	32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

WACKER PT 3A + HOSES (4) (6) 3 pieces of Hose

1 Smear
ACROSS
each
Hose



(2) water inlet

(1) water outlet

(3) motor frame

(7) intake hose

20 min.

Surveyed By: <u>NMB</u>		Date: <u>8/5/05</u>		Instrument		Serial #		α Eff.		β Eff.		α Bkg.		β Bkg.		Cal. Due	
				2424		95572		30.5		232		15		943		200404	
Reviewed By: <u>Nicholas M. Bertiner</u>		Date: <u>2/2/06</u>															

Key			
☐	Smear	* *	Boundary
☐	Dose Rate m/hr		A/B Location
*	Direct Reading CPM/100 cm ²		
Δ	Grab Sample		

OP-001-02 Radiological Survey Sheet

Location Site: <u>GLNLC ^{RMS} Link-Belt 225</u>		RWP# <u>GLNLC-05-002</u>		Survey # <u>Link-Belt 225</u>		Survey Type: <u>Release</u>		pg. <u>1</u> of <u>1</u>	
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Smear Results					
Counts/100cm ²					
No.	α	β	No.	α	β
1	1	87	26		
2	2	84	27		
3	0	87	28		
4	4	95	29		
5	1	94	30		
6	1	99	31		
7	0	102	32		
8	N/A		33		
9	N/A		34		
10	2	73	35		
11	1	78	36		
12	0	87	37		
13	0	140	38		
14	1	102	39		
15	5	98	40		
16	0	86	41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

⑧ [LARGE AREA SMEAR

⑨ [NO C₁₄ FOUND

Direct (Static) Reading (Counts) .5 min

	α	β
⑩	2	73
⑪	1	78
⑫	0	87
⑬	0	140
⑭	1	102
⑮	5	98
⑯	0	86

Comments	

Surveyed By:	Date:	Instrument	Serial #	α Eff.	β Eff.	α Bkg.	β Bkg.	Cal. Due	Key			
<u>Neil Bunt</u>	<u>7/8/05</u>	<u>44-9</u>	<u>79498</u>	<u>N/A</u>	<u>.19</u>	<u>N/A</u>	<u>50</u>	<u>7 APR 06</u>	☐	Smear	*.*	Boundary
	<u>7/8/05</u>	<u>4393</u>	<u>16426</u>	<u>.219</u>	<u>.205</u>	<u>3</u>	<u>108</u>	<u>3 AUG 05</u>	☐	Dose Rate mrem/hr		A/S Location
Reviewed By:	Date:								*	Direct Reading CPM/100 cm ²		
<u>B. Chandler</u>	<u>7-12-05</u>								Δ	Grab Sample		

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dpm/100 cm ²	
α Flag	β Flag
200	200

[illegible]

page 1 of 5

dpm/100 cm ²	
α Flag	β Flag
1000	1000

* Morning Daily Count

seq. #	Sample ID# and Description	Date 7.7.05	Background Total Counts*		Sample Total Counts		Background (cpm)		Sample Counts (cpm)		Sample (dpm/100 cm ²)		> α flag	> β flag	Tech. Initial
			α	β	α	β	α	β	α	β	α	β			
1	Test Truck	7/7/2005	2	101	111	203	4.0	202.0	222.00	406	995.4	995			
2	BFLU 000280 F				3	59									BC
3	BFLU 000280 B				2	71									BC
4	BFLU 000280 R				1	66									BC
5	BFLU 000280 L				1	68									BC
6	BFLU 000223 F				2	79									BC
7	BFLU 000223 B				2	71									BC
8	BFLU 000223 R				0	76									BC
9	BFLU 000223 L				0	63									BC
10	BFLU 000200 F				1	50									BC
11	BC BFLU 000200 B				3	53									BC
12	BC BFLU 000200 R				1	67									BC
13	BC BFLU 000200 L				0	69									BC
14	BFLU 000256 F				0	67									BC
15	BFLU 000256 B				0	58									BC
16	BFLU 000256 R				1	54									BC
17	BFLU 000256 L				1	66									BC
18	BFLU 000217 F				0	69									BC
19	BFLU 000217 B				2	57									BC
20	BFLU 000217 R				1	56									BC
21	BFLU 000217 L				0	66									BC
22	BFLU 000200 F				0	81									BC
23	BFLU 000200 B				2	67									BC
24	BFLU 000200 R				3	62									BC
25	BFLU 000200 L				3	64									BC
26	BFLU 000365 F				1	62									BC
27	BFLU 000365 B				0	70									BC
28	BFLU 000365 R				1	48									BC
29	BFLU 000365 L				2	74									BC
30	BFLU 000153 F				3	44									BC
31	BFLU 000153 B				2	87									BC
32	BFLU 000153 R				0	55									BC
33	BFLU 000153 L				0	75									BC
34	ANLU 0000195 F				1	67									BC
35	ANLU 0000195 B				1	85									BC
36	ANLU 0000195 R				1	57									BC
37	ANLU 0000195 L				3	60									BC
38	BFLU 000381 F				2	50									BC
39	BFLU 000381 B				1	62									BC
41	BFLU 000381 R				2	51									BC
42	BFLU 000381 L				1	68									BC
43															
44															
45															
46															
47															

CABRERA SMEAR COUNTING WORKSHEET (Rev 5)

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α eff	β eff
0.2190	0.2050

Sample Count Time (min)	Daily Background Count Time (min)
0.5	0.5

dpm/100 cm ²	
α Flag	β Flag
200	200

7-8-05
#1 of 2

* Morning Daily Count

seq. #	Sample ID# and Description	Date	Background Total Counts*		Sample Total Counts		Background (cpm)		Sample Counts (cpm)		Sample (dpm/100 cm ²)		> α flag	> β flag	Tech. Initial
			α	β	α	β	α	β	α	β	α	β			
1	Test Truck	7/8/2005	3	108	24	128	6.0	216.0	48.00	256	191.8	195			WNB
2	LINK-Belt 225	7/8/2005	3	108	1	87	6.0	216.0			-27.4	-1054			
3		7/8/2005	3	108	2	84	6.0	216.0			-27.4	-1054			
4		7/8/2005	3	108	0	89	6.0	216.0			-27.4	-1054			
5		7/8/2005	3	108	4	95	6.0	216.0			-27.4	-1054			
6		7/8/2005	3	108	1	94	6.0	216.0			-27.4	-1054			
7		7/8/2005	3	108	1	99	6.0	216.0			-27.4	-1054			
8		7/8/2005	3	108	0	102	6.0	216.0			-27.4	-1054			
9		7/8/2005	3	108	N/A	N/A	6.0	216.0			-27.4	-1054			
10		7/8/2005	3	108	N/A	N/A	6.0	216.0			-27.4	-1054			
11		7/8/2005	3	108	2	73	6.0	216.0			-27.4	-1054			
12	WNB	7/8/2005	3	108	1	78	6.0	216.0			-27.4	-1054			
13		7/8/2005	3	108	0	87	6.0	216.0			-27.4	-1054			
14		7/8/2005	3	108	6	140	6.0	216.0			-27.4	-1054			
15		7/8/2005	3	108	1	102	6.0	216.0			-27.4	-1054			
16		7/8/2005	3	108	5	98	6.0	216.0			-27.4	-1054			
17		7/8/2005	3	108	0	86	6.0	216.0			-27.4	-1054			
18	BFLU 000015	7/8/2005	3	108	3	106	6.0	216.0			-27.4	-1054			
19		7/8/2005	3	108	2	91	6.0	216.0			-27.4	-1054			
20		7/8/2005	3	108	3	95	6.0	216.0			-27.4	-1054			
21		7/8/2005	3	108	1	98	6.0	216.0			-27.4	-1054			
22	BFLU 000017	7/8/2005	3	108	2	92	6.0	216.0			-27.4	-1054			
23		7/8/2005	3	108	1	97	6.0	216.0			-27.4	-1054			
24		7/8/2005	3	108	4	72	6.0	216.0			-27.4	-1054			
25		7/8/2005	3	108	7	112	6.0	216.0			-27.4	-1054			
26	BFLU 000018	7/8/2005	3	108	10	121	6.0	216.0			-27.4	-1054			
27		7/8/2005	3	108	3	91	6.0	216.0			-27.4	-1054			
28		7/8/2005	3	108	6	105	6.0	216.0			-27.4	-1054			
29		7/8/2005	3	108	2	110	6.0	216.0			-27.4	-1054			
30	BFLU 0000410	7/8/2005	3	108	3	115	6.0	216.0			-27.4	-1054			
31		7/8/2005	3	108	1	94	6.0	216.0			-27.4	-1054			
32		7/8/2005	3	108	3	94	6.0	216.0			-27.4	-1054			
33		7/8/2005	3	108	1	100	6.0	216.0			-27.4	-1054			
34	BFLU 000017	7/8/2005	3	108	3	113	6.0	216.0			-27.4	-1054			
35		7/8/2005	3	108	1	94	6.0	216.0			-27.4	-1054			
36		7/8/2005	3	108	4	103	6.0	216.0			-27.4	-1054			
37		7/8/2005	3	108	1	97	6.0	216.0			-27.4	-1054			
38	BFLU 000012	7/8/2005	3	108	3	113	6.0	216.0			-27.4	-1054			
39		7/8/2005	3	108	4	98	6.0	216.0			-27.4	-1054			
41		7/8/2005	3	108	13	127	6.0	216.0			-27.4	-1054			
42		7/8/2005	3	108	3	106	6.0	216.0			-27.4	-1054			
43		7/8/2005	3	108			6.0	216.0			-27.4	-1054			
44		7/8/2005	3	108			6.0	216.0			-27.4	-1054			
45		7/8/2005	3	108			6.0	216.0			-27.4	-1054			

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7.8.65
#2 of 2

dpm/100 cm ²	
α Flag	β Flag
200	200

* Morning Daily Count

[illegible]

CABRERA STATIC COUNTING WORKSHEET (Rev 5)

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Detector Active Area (cm ²)
100

α eff	β eff
0.2190	0.2050

Static Count Time (min)
0.5

Daily Background Count Time (min)
0.5

dpm/100 cm ²
α Flag β Flag
1000 1000

* Morning Daily Count

seq. #	Sample ID# and Description	Date	Background Total Counts*		Sample Total Counts		Background (cpm)		Sample Counts (cpm)		Sample (dpm/100 cm ²)		> α flag	> β flag	Tech. Initial
			α	β	α	β	α	β	α	β	α	β			
1	Test Truck	7/8/2005	3	108	112	210	6.0	216.0	224.00	420	995.4	995			WNB
2	Link - Belt 225 10	7/8/2005	3	108	2	73	6.0	216.0			-27.4	-1054			
3		7/8/2005	3	108	1	78	6.0	216.0			-27.4	-1054			
4		7/8/2005	3	108	0	87	6.0	216.0			-27.4	-1054			
5		7/8/2005	3	108	6	140	6.0	216.0			-27.4	-1054			
6		7/8/2005	3	108	1	182	6.0	216.0			-27.4	-1054			
7		7/8/2005	3	108	5	98	6.0	216.0			-27.4	-1054			
8		7/8/2005	3	108	0	86	6.0	216.0			-27.4	-1054			
9	BFLU 000015 F	7/8/2005	3	108	2	88	6.0	216.0			-27.4	-1054			
10		7/8/2005	3	108	0	68	6.0	216.0			-27.4	-1054			
11		7/8/2005	3	108	3	54	6.0	216.0			-27.4	-1054			
12		7/8/2005	3	108	6	76	6.0	216.0			-27.4	-1054			
13	BFLU 000007 F	7/8/2005	3	108	0	94	6.0	216.0			-27.4	-1054			
14		7/8/2005	3	108	0	73	6.0	216.0			-27.4	-1054			
15		7/8/2005	3	108	0	58	6.0	216.0			-27.4	-1054			
16		7/8/2005	3	108	3	64	6.0	216.0			-27.4	-1054			
17	BFLU 000010 F	7/8/2005	3	108	0	64	6.0	216.0			-27.4	-1054			
18		7/8/2005	3	108	0	65	6.0	216.0			-27.4	-1054			
19		7/8/2005	3	108	2	50	6.0	216.0			-27.4	-1054			
20		7/8/2005	3	108	2	57	6.0	216.0			-27.4	-1054			
21	BFLU 0000410 F	7/8/2005	3	108	1	66	6.0	216.0			-27.4	-1054			
22		7/8/2005	3	108	1	72	6.0	216.0			-27.4	-1054			
23		7/8/2005	3	108	0	56	6.0	216.0			-27.4	-1054			
24		7/8/2005	3	108	1	80	6.0	216.0			-27.4	-1054			
25	BFLU 000017 F	7/8/2005	3	108	2	66	6.0	216.0			-27.4	-1054			
26		7/8/2005	3	108	2	68	6.0	216.0			-27.4	-1054			
27		7/8/2005	3	108	0	62	6.0	216.0			-27.4	-1054			
28		7/8/2005	3	108	2	83	6.0	216.0			-27.4	-1054			
29	BFLU 000012 F	7/8/2005	3	108	2	70	6.0	216.0			-27.4	-1054			
30		7/8/2005	3	108	0	91	6.0	216.0			-27.4	-1054			
31		7/8/2005	3	108	0	48	6.0	216.0			-27.4	-1054			
32		7/8/2005	3	108	1	73	6.0	216.0			-27.4	-1054			
33	BFLU 000024 F	7/8/2005	3	108	0	66	6.0	216.0			-27.4	-1054			
34		7/8/2005	3	108	3	83	6.0	216.0			-27.4	-1054			
35		7/8/2005	3	108	2	69	6.0	216.0			-27.4	-1054			
36		7/8/2005	3	108	6	68	6.0	216.0			-27.4	-1054			
37	BFLU 000086 F	7/8/2005	3	108	0	63	6.0	216.0			-27.4	-1054			
38		7/8/2005	3	108	0	64	6.0	216.0			-27.4	-1054			
39		7/8/2005	3	108	0	67	6.0	216.0			-27.4	-1054			
41		7/8/2005	3	108	1	84	6.0	216.0			-27.4	-1054			
42	BFLU 000059 F	7/8/2005	3	108	0	68	6.0	216.0			-27.4	-1054			
43		7/8/2005	3	108	2	73	6.0	216.0			-27.4	-1054			
44		7/8/2005	3	108	1	69	6.0	216.0			-27.4	-1054			
45		7/8/2005	3	108	0	52	6.0	216.0			-27.4	-1054			

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dpm/100 cm ²	
α Flag	β Flag
200	200

* Morning Daily Count

[illegible]

page 1 of 2

dpm/100 cm ²	
α Flag	β Flag
1000	1000

[illegible]

page **2** of **12**

dpm/100 cm ²	
α Flag	β Flag
1000	1000

[illegible]

page 1 of 5

dpm/100 cm ²	
α Flag	β Flag
200	200

* Morning Daily Count

seq. #	Sample ID# and Description	Date	Background Total Counts*		Sample Total Counts		Background (cpm)		Sample Counts (cpm)		Sample (dpm/100 cm ²)		> α flag	> β flag	Tech. Initial
			α	β	α	β	α	β	α	β	α	β			
1	Test Truck	7/12/2005	3	105	24	125	6.0	210.0	48.00	250	191.8	195			WNB
2	BFLU 000197 F				12	121									
3	R				2	117									
4	B				4	106									
5	L				2	98									
6	BFLU 000393 F				4	98									
7	R				1	96									
8	B				2	111									
9	L				2	89									
10	BFLU 000088 F				5	88									
11	R				4	114									
12	B				1	106									
13	L				6	89									
14	BFLU 000311 F				1	96									
15	R				2	90									
16	B				1	91									
17	L				0	99									
18	BFLU 000022 F				2	106									
19	R				3	97									
20	B				3	97									
21	L				5	88									
22	BFLU 000383 F				2	109									
23	R				1	79									
24	B				2	96									
25	L				3	90									
26	BFLU 000162 F				3	103									
27	R				0	93									
28	B				0	95									
29	L				0	96									
30	BFLU 000109 F				4	93									
31	R				2	90									
32	B				2	107									
33	L				0	104									
34	BFLU 000161 F				1	86									
35	R				3	95									
36	B				1	91									
37	L				3	93									
38	BFLU 000548 F				0	109									
39	R				2	104									
40	B				0	91									
41	L				0	109									
42															
43															
44															
45															

page 1 of 5

dpm/100 cm ²	
α Flag	β Flag
200	200

$$2/2$$

* Morning Daily Count

[illegible]

page 1 of 5

dpm/100 cm ²	
α Flag	β Flag
1000	1000

[illegible]

7.B. 65

~~page 1 of 5~~

dpm/100 cm ²	
α Flag	β Flag
200	200

* Morning Daily Count

[illegible]

7-13-05

~~1/2 1/4~~
dam/100 acre²

dpm/100 cm ²	
α Flag	β Flag
1000	1000

[illegible]

7-14-05 page 1 of 5

dpm/100 cm ²	
α Flag	β Flag
200	200

[illegible]

7-1405 page 1 of 5

dpm/100 cm ²	
α Flag	β Flag
1000	1000

[illegible]

7.18.05

dpm/100 cm ²	
α Flag	β Flag
200	200

[illegible]

7.18.45

dpm/100 cm ²	
α Flag	β Flag
1000	1000

[illegible]

7.19.05 page 1 of 5

dpm/100 cm ²	
α Flag	β Flag
200	200

[illegible]

7.19.05

Daily Background Count Time (min)	0.5
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[illegible]