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MEMORANDUM

TO: File

FROM: Steve Zappe, NMED WIPP Project Leader *SZ*

SUBJECT: **WWIS WASTE CONTAINER DATA REPORTS FOR LANL SEALED SOURCES WASTE EMPLACED AT WIPP**

DATE: March 15, 2004

Attached are Waste Container Data Reports from the WIPP Waste Information System (**WWIS**) database for the only two containers emplaced to date at WIPP from the LANL Sealed Sources waste stream (WSPF LA-OS-00-01). These containers are identified as follows:

LA00000058565 – emplaced 05/07/2003
LA00000058567 – emplaced 05/07/2003

As can be seen from the Sample Information for both containers, Detection Flags for all headspace gas analytes are flagged “U”, indicating that the results are undetected at the Method Detection Limit (**MDL**).

040326



**WIPP Waste Information System
Waste Container Data Report**

Report *RP0360*
Version *2.1*
Instance *PRD03*
Run by *NM1*
Report Date *03/14/2004 15:31*
Total Pages *6*

Selection Criteria -

Container Number *LA0000058565*
Site Id %
Waste Stream %
Data Status Code %

Waste Container Data Report

WIPP Waste
Information System

Waste Isolation Pilot Plant

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Container Number : LA0000058565
Site ID : LA - LOS ALAMOS NATIONAL LABORATORY
Site Address : PO BOX1663 LOS ALAMOS, NM 87545
Site EPA ID : NM0890010515
Technical Contact : SAUNDRA WANDER
Data Status Code : Container Emplaced at WIPP
Waste Stream Profile : LA-OS-00-01
Container Type : 5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK

Waste Container Information

WAC Ex # :	Handling Code :	CH
WAC Rev # : 0	Waste Type:	TRU
Cert Date : 04/30/2003	Waste Stream BIR ID :	N/A
Cert Site : LA - LOS ALAMOS NATIONAL LABOF	Waste Stream MWIR ID :	N/A
Generator Site : LA - LOS ALAMOS NATIONAL LABOF	TRU Alpha Act (Ci) :	6.000E+00
IDC Code : N/A	TRU Alpha Act Uncert (Ci) :	6.680E-01
Matrix Code : S5100	TRU Alpha Act Conc (Ci/g) :	6.438E-05
TRUCON Code : LA120A	TRU Alpha Act Conc Uncert (Ci/g) :	7.167E-06
Shipping Category : 2000000000	Pu239 Eq Act (PE Ci) :	5.980E+00
PCB Conc (ppm) : 0	Pu239 Fiss Gm Eq (FGE) :	3.530E+01
Decay Heat (watts) : 1.920E-01	Pu239 Fiss Gm Eq Uncert (FGE) :	5.190E+00
Decay Heat Uncert (watts) : 2.110E-02	Layers of Packaging :	1
Closure Date : 01/25/2001	Fill Factor (%) :	98
Vent Date : 01/25/2001	Liner Exists :	N
Aspiration Method ID : N	Liner Hole Size (mm) :	
Gas Gen Rate :	Gross Weight (kg) :	175.8
Gas Hyd Meth Gen Rate :	Gross Weight Uncert (kg) :	0
Gas Gen Comp Date :	Alpha Surf Cont (dpm/100cm2) :	8
Shipment Num : LA030011	BG Surf Cont (dpm/100cm2) :	10
Packaging Num : 169	BG Dose Rate (mrem/hr) :	2.4
Assembly ID : LA03011B	Neut Dose Rate (mrem/hr) :	9
Container Disposal Date : 05/07/2003	Total Dose Rate (mrem/hr) :	11.4
Container Status Code : XO4	PCB Waste :	
	PCB Mass (kg) :	
	PCB Out of Service Date :	
It can be established through process knowledge that the concentration of flammable VOCs present in the headspace of this container is <= 500ppm:	Overpack Cntr Number :	
Y	Overpack Cntr Type :	

Waste Container Data Report

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Container Number : **LA00000058565**
 Site ID : **LA - LOS ALAMOS NATIONAL LABORATORY**
 Site Address : **PO BOX1663 LOS ALAMOS, NM 87545**
 Site EPA ID : **NM0890010515**
 Technical Contact : **SAUNDRA WANDER**
 Data Status Code : **Container Emplaced at WIPP**
 Waste Stream Profile : **LA-OS-00-01**
 Container Type : **5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK**

Nuclide Information

Radionuclide	Description	Activity (Ci)	Activity Uncert (Ci)	Mass (g)	Mass Uncert (g)	List
AM-241	AMERICIUM 241	1.100E+00	9.150E-02	3.160E-01	2.640E-02	
CS-137	CESIUM 137	1.360E-04	1.105E-05	1.540E-06	1.255E-07	
NP-237	NEPTUNIUM 237	5.320E-06	5.750E-07	7.460E-03	8.100E-04	
PU-238	PLUTONIUM 238	8.290E-01	1.395E-01	4.790E-02	8.050E-03	
PU-239	PLUTONIUM 239	2.200E+00	1.630E-01	3.500E+01	2.595E+00	
PU-240	PLUTONIUM 240	1.870E+00	2.390E-01	8.120E+00	1.040E+00	
PU-241	PLUTONIUM 241	2.800E+00	3.790E-01	2.700E-02	2.780E-03	
PU-242	PLUTONIUM 242	3.040E-05	4.475E-06	7.660E-03	1.125E-03	
SR-90	STRONTIUM 90	1.360E-04	1.105E-05	9.860E-07	8.000E-08	
TH-230	THORIUM	4.310E-02	<LLD	2.110E+00	2.080E-01	
U-233	URANIUM 233	<LLD	<LLD	<LLD	<LLD	
U-234	URANIUM 234	<LLD	<LLD	<LLD	<LLD	
U-238	URANIUM 238	<LLD	<LLD	<LLD	<LLD	

Material Parameters Information

Waste Matl Parm	Description	Weight (kg)
1	IRON BASE METAL ALLOYS	27.20
3	OTHER METAL/ALLOYS	.20
6	CELLULOSICS	28.60
13	STEEL CONTAINER MATERIALS	82.70
14	PLASTIC/LINERS CONTAINER MATERIALS	37.20

Filter Model Information

Filter Model	Description	Quantity	Install Date
NF013	NUCFIL CARBON COMPOSIT	1	06/18/2001

Waste Container Data Report

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Container Number : **LA00000058565**
 Site ID : **LA - LOS ALAMOS NATIONAL LABORATORY**
 Site Address : **PO BOX1663 LOS ALAMOS, NM 87545**
 Site EPA ID : **NM0890010515**
 Technical Contact : **SAUNDRA WANDER**
 Data Status Code : **Container Emplaced at WIPP**
 Waste Stream Profile : **LA-OS-00-01**
 Container Type : **5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK**

Assay Methods Information

Radio Assay Method	Description	Assay Date
4FR1	FRAM	05/28/2002
4TD1	MOBILE TGS	05/28/2002

Characterization Methods Information

Method ID	Description	Charz Method Date
4VE2	VE TECHNIQUE FOR OSR WASTE	01/25/2001

Sample Information

Sample ID: H-58565 **Sample Type:** HGHM
Layer No Sampled: 0 **Date Sampled:** 06/18/2001

CAS Number - Analyte Name	Method ID	Concentration	Date Analyzed	Detection Flags
1333-74-0 - HYDROGEN	4HG1	.0100 Volume %	06/18/2001	U
74-82-8 - METHANE	4HG1	.0200 Volume %	06/18/2001	U

Sample ID: V-58565 **Sample Type:** HGVO
Layer No Sampled: 0 **Date Sampled:** 06/18/2001

CAS Number - Analyte Name	Method ID	Concentration	Date Analyzed	Detection Flags
100-41-4 - ETHYL BENZENE	4HG1	5.780 Ppm	06/18/2001	U
107-06-2 - 1,2-DICHLOROETHANE	4HG1	3.220 Ppm	06/18/2001	U
108-10-1 - METHYL ISOBUTYL KETONE	4HG1	35.760 Ppm	06/18/2001	U
108-67-8 - 1,3,5-TRIMETHYLBENZENE	4HG1	3.920 Ppm	06/18/2001	U
108-88-3 - TOLUENE	4HG1	4.370 Ppm	06/18/2001	U
108-90-7 - CHLOROBENZENE	4HG1	5.820 Ppm	06/18/2001	U
108383/106423 - M,P-XYLENE	4HG1	8.980 Ppm	06/18/2001	U
110-82-7 - CYCLOHEXANE	4HG1	4.470 Ppm	06/18/2001	U
127-18-4 - TETRACHLOROETHYLENE	4HG1	4.530 Ppm	06/18/2001	U
156-59-2 - CIS-1,2-DICHLOROETHYLENE	4HG1	4.640 Ppm	06/18/2001	U
56-23-5 - CARBON TETRACHLORIDE	4HG1	3.580 Ppm	06/18/2001	U

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 Site Address : PO BOX1663 LOS ALAMOS, NM 87545
 Site EPA ID : NM0890010515
 Technical Contact : SAUNDRA WANDER
 Data Status Code : Container Emplaced at WIPP
 Waste Stream Profile : LA-OS-00-01
 Container Type : 5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK

Sample Information (continued)

Sample ID: V-58565 (continued) Sample Type: HGVO
 Layer No Sampled: 0 Date Sampled: 06/18/2001

CAS Number - Analyte Name	Method ID	Concentration	Date Analyzed	Detection Flags
60-29-7 - ETHYL ETHER	4HG1	2.790 Ppm	06/18/2001	U
67-56-1 - METHANOL	4HG1	33.960 Ppm	06/18/2001	U
67-64-1 - ACETONE	4HG1	48.480 Ppm	06/18/2001	U
67-66-3 - CHLOROFORM	4HG1	3.650 Ppm	06/18/2001	U
71-36-3 - BUTANOL	4HG1	36.190 Ppm	06/18/2001	U
71-43-2 - BENZENE	4HG1	2.400 Ppm	06/18/2001	U
71-55-6 - 1,1,1-TRICHLOROETHANE	4HG1	3.840 Ppm	06/18/2001	U
75-09-2 - METHYLENE CHLORIDE	4HG1	1.710 Ppm	06/18/2001	U
75-25-2 - BROMOFORM	4HG1	4.220 Ppm	06/18/2001	U
75-34-3 - 1,1-DICHLOROETHANE	4HG1	3.690 Ppm	06/18/2001	U
75-35-4 - 1,1-DICHLOROETHYLENE	4HG1	2.740 Ppm	06/18/2001	U
76-13-1 - 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	4HG1	3.180 Ppm	06/18/2001	U
78-93-3 - METHYL ETHYL KETONE	4HG1	54.050 Ppm	06/18/2001	U
79-01-6 - TRICHLOROETHYLENE	4HG1	3.400 Ppm	06/18/2001	U
79-34-5 - 1,1,2,2-TETRACHLOROETHANE	4HG1	6.140 Ppm	06/18/2001	U
95-47-6 - O-XYLENE	4HG1	5.430 Ppm	06/18/2001	U
95-63-6 - 1,2,4-TRIMETHYLBENZENE	4HG1	3.880 Ppm	06/18/2001	U

Location Information

Panel Number	Room Number	Row	Col	Ht
2	7	67	3	T

**WIPP Waste Information System
Waste Container Data Report**

Report *RP0360*
Version *2.1*
Instance *PRD03*
Run by *NM1*
Report Date *03/14/2004 15:35*
Total Pages *6*

Selection Criteria -

Container Number *LA0000058587*
Site Id %
Waste Stream %
Data Status Code %

Waste Container Data Report

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Container Number : **LA0000058567**
Site ID : **LA - LOS ALAMOS NATIONAL LABORATORY**
Site Address : **PO BOX1663 LOS ALAMOS, NM 87545**
Site EPA ID : **NM0890010515**
Technical Contact : **SAUNDRA WANDER**
Data Status Code : **Container Emplaced at WIPP**
Waste Stream Profile : **LA-OS-00-01**
Container Type : **5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK**

Waste Container Information

WAC Ex. # :		Handling Code :	CH
WAC Rev # :	0	Waste Type:	TRU
Cert Date :	04/30/2003	Waste Stream BIR ID :	N/A
Cert Site :	LA - LOS ALAMOS NATIONAL LABOF	Waste Stream MWIR ID :	N/A
Generator Site :	LA - LOS ALAMOS NATIONAL LABOF	TRU Alpha Act (Ci) :	6.760E+00
IDC Code :	N/A	TRU Alpha Act Uncert (Ci) :	3.450E-01
Matrix Code :	S5100	TRU Alpha Act Conc (Ci/g) :	7.253E-05
TRUCON Code :	LA120A	TRU Alpha Act Conc Uncert (Ci/g) :	3.702E-06
Shipping Category :	2000000000	Pu239 Eq Act (PE Ci) :	6.770E+00
PCB Conc (ppm) :	0	Pu239 Fiss Gm Eq (FGE) :	3.610E+01
Decay Heat (watts) :	2.160E-01	Pu239 Fiss Gm Eq Uncert (FGE) :	2.650E+00
Decay Heat Uncert (watts) :	1.090E-02	Layers of Packaging :	1
Closure Date :	01/25/2001	Fill Factor (%) :	98
Vent Date :	01/25/2001	Liner Exists :	N
Aspiration Method ID :	N	Liner Hole Size (mm) :	
Gas Gen Rate :		Gross Weight (kg) :	175.8
Gas Hyd Meth Gen Rate :		Gross Weight Uncert (kg) :	.5
Gas Gen Comp Date :		Alpha Surf Cont (dpm/100cm2) :	6
Shipment Num :	LA030011	BG Surf Cont (dpm/100cm2) :	11
Packaging Num :	169	BG Dose Rate (mrem/hr) :	2.9
Assembly ID :	LA03011B	Neut Dose Rate (mrem/hr) :	11
Container Disposal Date :	05/07/2003	Total Dose Rate (mrem/hr) :	13.9
Container Status Code :	XO4	PCB Waste :	
		PCB Mass (kg) :	
		PCB Out of Service Date :	

It can be established through process knowledge that the concentration of flammable VOCs present in the headspace of this container is <= 500ppm: **Y**

Overpack Cntr Number :
Overpack Cntr Type :

Waste Container Data Report

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 Technical Contact : **SAUNDRA WANDER**
 Data Status Code : **Container Emplaced at WIPP**
 Waste Stream Profile : **LA-OS-00-01**
 Container Type : **5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK**

Sample Information (continued)

Sample ID : **V-58567 (continued)** Sample Type : **HGVO**
 Layer No Sampled : **0** Date Sampled : **06/18/2001**

CAS Number - Analyte Name	Method ID	Concentration	Date Analyzed	Detection Flags
60-29-7 - ETHYL ETHER	4HG1	2.790 Ppm	06/18/2001	U
67-56-1 - METHANOL	4HG1	33.960 Ppm	06/18/2001	U
67-64-1 - ACETONE	4HG1	48.480 Ppm	06/18/2001	U
67-66-3 - CHLOROFORM	4HG1	3.650 Ppm	06/18/2001	U
71-36-3 - BUTANOL	4HG1	36.190 Ppm	06/18/2001	U
71-43-2 - BENZENE	4HG1	2.400 Ppm	06/18/2001	U
71-55-6 - 1,1,1-TRICHLOROETHANE	4HG1	3.840 Ppm	06/18/2001	U
75-09-2 - METHYLENE CHLORIDE	4HG1	1.710 Ppm	06/18/2001	U
75-25-2 - BROMOFORM	4HG1	4.220 Ppm	06/18/2001	U
75-34-3 - 1,1-DICHLOROETHANE	4HG1	3.690 Ppm	06/18/2001	U
75-35-4 - 1,1-DICHLOROETHYLENE	4HG1	2.740 Ppm	06/18/2001	U
76-13-1 - 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	4HG1	3.180 Ppm	06/18/2001	U
78-93-3 - METHYL ETHYL KETONE	4HG1	54.050 Ppm	06/18/2001	U
79-01-6 - TRICHLOROETHYLENE	4HG1	3.400 Ppm	06/18/2001	U
79-34-5 - 1,1,2,2-TETRACHLOROETHANE	4HG1	6.140 Ppm	06/18/2001	U
95-47-6 - O-XYLENE	4HG1	5.430 Ppm	06/18/2001	U
95-63-6 - 1,2,4-TRIMETHYLBENZENE	4HG1	3.880 Ppm	06/18/2001	U

Comment Information

Comment Type	Comments
RADIONUCLIDES	49CFR173.433 ISOTOPE LIST FOR SHIPPING PAPERS AND LABELING: PU-240, PU-239, PU-238, AM-241.

Waste Container Data Report

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Container Number : **LA0000058567**
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Location Information

Panel Number	Room Number	Row	Col	Ht
2	7	67	3	T