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Project/Task TRU Waste Characterization Program

Subtask _____

Title: Transuranic Waste Sampling Plan for INEEL

SUMMARY:

To characterize wastes destined for disposal at the Waste Isolation Pilot Plant (WIPP), transuranic (TRU) waste streams (including TRU mixed waste) must be sampled in accordance with the *Transuranic Waste Characterization Quality Assurance Program Plan (QAPP)* (U.S. Department of Energy [DOE] 1996a). To ensure that characterization activities include the appropriate sample collection and examination of wastes generated or stored at DOE sites, each site must describe its sampling program in a sampling plan. This Engineering Design File (EDF) documents the Idaho National Engineering and Environmental Laboratory's (INEEL's) sampling plans by describing the waste streams to be sampled, the collection of representative samples from the waste streams, and selection and retrieval of containers for visual examination of wastes. It describes the drum selection process for Phase I and Phase II sampling, and lists the drums that have already been selected for sampling. This revision is a total redo of revision 1 and represents a complete sampling plan for the INEEL that meets all QAPP sampling requirements.

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**TRANSURANIC WASTE
SAMPLING PLAN FOR INEEL**

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LIST OF ACRONYMS

ALARA	as low as reasonably achievable
CV	coefficient of variation
DOE	U.S. Department of Energy
EDF	Engineering Design File
ID	identification
IDC	item description code
INEEL	Idaho National Engineering and Environmental Laboratory
MPC	Matrix parameter category
NOD	Notice of Deficiency by the State of Idaho
QAPP	Quality Assurance Program Plan
RCRA	Resource Conservation and Recovery Act
SWEPP	Stored Waste Examination Pilot Plant
TRU	transuranic
WIPP	Waste Isolation Pilot Plant
WMP	waste matrix parameter

1.0 INTRODUCTION

To characterize wastes destined for the Waste Isolation Pilot Plant (WIPP), transuranic (TRU) waste streams (including TRU mixed waste) must be sampled in accordance with the *Transuranic Waste Characterization Quality Assurance Program Plan (QAPP)* (U.S. Department of Energy [DOE] 1996a). To ensure that characterization activities include the appropriate sample collection and examination of wastes generated or stored at DOE sites, each site must describe its sampling program in a sampling plan. This Engineering Design File (EDF) documents the Idaho National Engineering and Environmental Laboratory's (INEEL's) sampling plans by describing the waste streams to be sampled, the collection of representative core samples from the waste streams, and selection and retrieval of 55 gallon drum waste containers for visual examination of wastes. The guidance addresses TRU waste that has already been generated and placed in retrievable storage. The INEEL does not anticipate the generation of any new TRU contaminated waste in the near future, and therefore, this EDF does not address sampling plans for newly generated waste.

To start the sampling plan, each container of waste must be categorized into its appropriate "waste stream". A waste stream is defined in the QAPP as waste material generated from a single process or activity that is substantially uniform (in physical, chemical, and radiological nature). Since each waste stream must be characterized separately, waste streams are the grouping basis for the selection of samples. Waste streams are delineated using acceptable knowledge. Acceptable knowledge includes knowledge of the process(es) that produced the waste and results from previous testing, sampling, and analysis associated with the waste. Knowledge of the process(es) includes information regarding the raw materials used in a process or operation, process description, products produced, and associated wastes. The INEEL's acceptable knowledge information is contained in the *Acceptable Knowledge Document for INEL Stored Transuranic Waste - Rocky Flats Plant Waste (WASTREN 1996)*. The INEEL waste streams are defined in *Identification of Transuranic Waste Streams - RWMC-EDF-922 (LMITCO 1997a)* and the reader is referred there for detailed information on INEEL's waste streams. The waste streams are briefly summarized here in Table 1. It should be noted that the only waste the INEEL currently plans for characterization and subsequent disposal at WIPP is accessibly stored 55 gallon drums originally generated at the Rocky Flats Plant. "Accessibly stored" means stored above ground in buildings in a readily retrievable state. Additionally, only those item description codes (IDCs) that acceptable knowledge indicates as candidates for disposal at WIPP are included. Also, if a container has been through the Stored Waste Examination Pilot Plant (SWEPP) and has been found to not be a candidate for shipment to

WIPP, this drum is not included in Table 1. Reasons for "disqualification" are given in a Table 1 footnote.

Table 1. Summary of Target Waste Streams at the INEEL

Waste Stream Description	Homog. Solid (S) or Debris (D)	IDCs	Available Population*
1 Graphite	D	300,301,303,312	1284
2 First/Second Stage Sludge	S	001,002,800	6011
3 Building 374 Sludge	S	007,803,807 ¹	5611
4 Non Special Source Metal	D	480,481	847
5 Miscellaneous Cemented Sludges	S	292,806,807 ² ,818,820,823	569
6 Filters	D	335,376,490	1928
7 Glass	D	440	409
8 Raschig Rings	D	441,442	672
9 Organic Setups	S	003	1916
10 Combustibles	D	330,336,337	593
11 Solidified Organics	S	700,801	845
12 Special Setups	S	004,802	374
13 Leaded Rubber Gloves and Aprons	D	339	414
14 Tantalum/Lead	D	320 ³ ,321	250
15 Blacktop/Concrete	D	374	390
16 Fire Brick	D	371,377	111
17 Cemented Resin, Hazardous	S	432	57
18 Sand, Slag, & Crucible Heels	D	393,817	43
19 Cemented Resin, Nonhazardous	S	822	25
20 Salts	S	409,411,412,414	43
21 Insulation and Filter Media	D	338,360	5
22 Miscellaneous Fines	S	310,370,372,391,392	22
23 Miscellaneous Alloy Metals	D	320 ⁴ ,416	22
24 Benelex and Plexiglas	D	302,464	8
25 Ash/Soot	S	420,422	11
26 Ful-flo Filters	D	328	7
27 Fluid Bed Ash	S	425	7
28 Wood	D	970	1
29 Concrete/Asphalt	D	960	4
30 Oil Dri	S	375	4

* For Homogenous Solids waste streams, the only containers included were either not examined yet by SWEPP, or were categorized by SWEPP as Low Level Waste or WIPP "certified" (disposition codes 1,2,4,7,9,11,14,15,18,20,30,34). For Debris wastes streams the only containers included were either not examined yet by SWEPP, or were categorized by SWEPP as Low Level Waste, PREPP, or WIPP "certified" (the only containers included were either not examined yet by SWEPP, or were categorized by SWEPP as Low Level Waste or WIPP "certified" (disposition codes 1,2,3,4,5,7,9,11,14,15,18,20,30,34).

¹ IDC 807 packaged 3/87 and later.

² IDC 807 packaged prior to 3/87.

³ IDC 320 packaged 1986 and earlier.

⁴ IDC 320 packaged in 1987 and later.

Waste streams must undergo further characterization after acceptable knowledge documentation has been applied to the characterization process. A variety of techniques are employed for this characterization at the INEEL. For example at SWEPP, every container's radionuclide content and physical parameters are investigated using radioassay and radiography. Likewise, headspace gases from every container are extracted and analyzed to test for hazardous constituents. A statistically selected portion of solid-phase wastes are physically (core) sampled and analyzed, and some containers are verified through visual examination. The particular characterization activities conducted on each waste stream depends on the matrix parameter category (i.e., homogeneous solids, debris) to which the waste stream belongs. The matrix parameter category (MPC) is based solely on the waste stream's physical properties. The MPCs for INEEL waste are given in EDF-922 and in EDF-805 (LMITCO 1997b). **This document addresses the selection of waste containers for solid-phase waste extractive (core) sampling and for visual examination only.** The other waste characterization techniques are conducted on 100 percent of the waste containers.

2.0 SAMPLING INFORMATION

As stated in the QAPP, sampling required for a particular waste stream depends on the MPC to which the waste belongs. In this context, sampling refers to the selection of waste containers for physical (core) sampling/analysis and the selection of containers for visual examination. For all wastes, a determination of the waste as hazardous or nonhazardous under RCRA is required.

For homogeneous solids, acceptable knowledge is used to determine if a waste stream should be RCRA listed as corrosive, ignitable, or reactive. The determination of RCRA-toxicity is initially based on acceptable knowledge and may be further augmented based on the results of core sampling and headspace gas sampling of selected waste containers from the waste stream. Spent solvent codes may be added based on core sampling or headspace gas sampling, but spent solvent codes will not be removed on the basis of such sampling.

For debris wastes, acceptable knowledge is used for initial RCRA determinations. Headspace gas sampling may give rise to the assignment of additional spent solvent codes.

For all waste types, visual examination of a portion of the containers is required as a quality control check on radiography. The following sections provide details on the statistical aspects of performing core sampling of homogeneous solid type wastes, and visual examination of all wastes. Headspace gas sampling, radioassay, and radiography are conducted on 100% of containers and no statistical sampling plan is required.

The QAPP states that all the characterization activities for a population of containers must be completed before a waste profile can be done and the waste population subsequently shipped to WIPP. Core sampling characterization of homogenous solids will be conducted on a waste stream basis as defined in Table 1. Because headspace gas sampling is conducted for 100% of the containers in a waste stream, to process an entire waste stream as a population would pose some logistical problems for the INEEL, especially in the areas of staging containers and shipment scheduling. Therefore, a statistical characterization of headspace gas analysis for larger waste streams will have to be conducted on a lot by lot basis. The lot based planning procedure is given in MCP-2994, *Lot Planning* (LMITCO, 1997f). Visual examination is to be done on a year by year basis as required by the QAPP.

2.1 Homogeneous Solids

For the homogeneous solid wastes, sampling is used for three different purposes. The first is a determination based on core sampling of whether EPA hazardous waste numbers for spent solvents (i.e., F001, F002, F003, and F005) should be added to the acceptable knowledge derived designation. (F codes can not be removed based on sampling results.) The second is a determination of whether the waste stream exhibits a toxicity characteristic based on the concentration of RCRA-regulated contaminants found in the core sample. The third is a visual examination of waste container contents to confirm the MPC assignment through radiography and to obtain waste matrix parameter (WMP) weight estimates (e.g., weight of concrete, plastics, etc.). The methods to be used for selection of waste containers for these purposes are discussed in Section 5.0 of the QAPP. Their implementation at the INEEL are presented in detail in the following sections.

2.1.1 Sampling for RCRA-Toxicity Determination and EPA Hazardous Waste Number Update

The RCRA-toxicity determination for homogeneous solids, and the update of EPA hazardous waste numbers for spent solvents are made on the basis of headspace gas sampling and core sampling of waste streams. Sampling occurs in two phases. Phase I is an exploratory sampling phase used to determine

appropriate sample sizes for Phase II. In Phase II sampling the toxicity characteristics are determined and the acceptable knowledge information is verified.

Phase I - Preliminary Estimates of Waste Stream Characteristics

In order to accurately predict the number of core samples required for adequate characterization of each waste stream, preliminary estimates of means, variances, and distributional shape (e.g. normal or log-normal) for concentrations of RCRA toxic contaminants (listed in 40 Code of Federal Regulations [CFR] §261.24) must be obtained for the waste stream. The sample data may be from a preliminary sampling of the waste stream, from a lot of the waste stream, or from a very similar waste stream. While, the preliminary samples should be representative of the waste so that the resulting estimated sample size is as accurate as possible, it is important to note that it need not be randomly drawn. A poorly drawn (non-representative) sample will give poor sample size estimates causing inefficient sampling efforts, but will not invalidate the subsequent randomly drawn Phase II sample results (which are used for the ultimate hazard and toxicity determinations). Because of container access limitations and facility capabilities at the INEEL, the container selection process for Phase I was not entirely random. The sample sizes for Phase I were determined by balancing practical considerations (e.g. physical, logistical, and scheduling limitations in sampling) against the benefits of increased sampling. The drums that have already undergone Phase I core sampling are given in Appendix A. These drums were not selected randomly, but rather selection was conducted to minimize impacts on operations thereby reducing the number of drum handling events and possible worker exposure to radiation and RCRA hazardous constituents. The sampling is thought to be representative though, as there is no known or expected relationship between the selection process and the contaminant concentrations. Again, the non-random nature of the Phase I sampling does not invalidate it.

The Phase I drums listed in Appendix A were chosen by generating a hard copy data base query organized by grid location in the C&S building. Sample drums were selected from this list, largely on the basis of availability within the drum stacks, ALARA considerations, and time constraints. Another main objective was to select from as wide a range of waste generation/packaging times as possible to investigate year-to-year variability in a given waste stream. It was thought at the time that the State of Idaho would require waste stream characterization to be done separately for each year the waste was generated. This year group characterization is no longer required by the State. (Subsequent evaluation of this data has shown year-to-year variability to not be a substantial factor.)

The balance of the Phase I sampling for the waste streams not yet represented by in Appendix A will consist of at least five drums for each waste stream. This drum selection will also be based partially on convenience, but will include as many drums from the top of the Phase II random list (described in next section) as is reasonably attainable so they can be included in the Phase II random sample.

It should be noted that during the SWEPP examinations of Phase I sample, some drums were/will be rejected based on the certification requirements in the WIPP Waste Acceptance Criteria (WIPP WAC) (DOE, 1996b). No further characterization activities will be conducted for these drums, and the data received from them will not be used in any characterizations as they are not representative of waste the INEEL intends to ship to WIPP. Replacement drums will be selected and analyzed as necessary for any such rejected drums.

The method for statistically analyzing the Phase I sample data is given in MCP 2527 - Appendix C (LMITCO 1997b). It should be noted that if a waste stream carries one or more spent solvent EPA hazardous waste numbers, then toxicity characteristic contaminants associated with the code(s) are not included in the RCRA-toxicity determination. That is, the EPA hazardous waste numbers for spent solvents take precedence over those for toxicity characteristic. Therefore, contaminants associated with spent solvent EPA hazardous waste numbers for a waste stream (determined prior to solid waste sampling) must be omitted from all calculations for determining the number of containers to sample. In addition, each contaminant associated with the spent solvent EPA hazardous waste numbers (including updates from solid waste sampling) must be excluded from the analytical evaluation to determine EPA hazardous waste numbers for toxicity characteristics. Details for core sampling for both Phase I and II are given in the *Drum Core Sample Plan - MCP 2525* (LITCO, 1995b). The process for interfacing with the laboratory and obtaining and using their results is given in the INEEL's Certification Plan (LMITCO 1997e) and in the *Production Plan for Waste Examination and Certification - PLN 249* (LMITCO 1997d). The method for selecting a random location within a drum to core sample is given in the *Drum Core Sample Plan - MCP 2525*.

The statistical results of all Phase I sampling will be reported in EDFs maintained and stored in Site Project Office files.

Phase II - Final Estimates of Waste Stream Characteristics

Phase II sampling is used to determine RCRA-toxicity characteristics for each waste stream. After the Phase I sample information is collected and statistically evaluated, it can be used to calculate the required number of Phase II samples for the given waste stream following the directions in Appendix C of MCP 2527. As prescribed in the QAPP, the waste containers from each waste stream are to be randomly selected for the Phase II sampling. The INEEL's Phase I sample containers that were not randomly selected can not be included in the Phase II sample. The procedure the INEEL used to select a Phase II random sample is: 1) create a list of container IDs of all the containers for the waste stream in the INEEL inventory, 2) serially number each ID in the list, 3) use a random number generator to randomly select the desired number of samples from the list of serial numbers, 4) use the corresponding container IDs as the randomly selected sample. Note that the list in step 1 is limited to containers of interest and does not include exceptions such as known uncertifiable containers which are not in the target population of waste destined for WIPP. As detailed in the *Production Plan for Waste Examination and Certification - PLN 249*, this list of sample containers is then given to operations personnel and they retrieve and send through the characterization process every drum on the list. As previously discussed, during the SWEPP examinations of sample containers some drums will be rejected based on the certification requirements in the WIPP WAC. No further characterization activities will be conducted for these drums, and the data received from them will not be used in any characterizations as they are not representative of waste the INEEL intends to ship to WIPP. The rejected drum may be replaced if necessary with another drum randomly chosen from the target population list.

The statistical analyses of the available Phase I samples are preliminary and the appropriate Phase II sample sizes have not been determined. Yet the deadlines imposed by the *Settlement Agreement* (DOE, 1995) requires as much preparation as possible. Therefore, random selection of drums for Phase II sampling has already begun. The number of drums randomly selected in each waste stream can easily adjusted when the final Phase I results are complete.

The Phase II drum selection occurred in two separate stages; an early smaller selection and a final general selection. The early selection was more complicated and will be discussed last. The general selection was completed in late 1997, after the establishment of INEEL's waste streams. The population list of target drums for each waste stream summarized in Table 1 was obtained. From this list, a randomly ordered list

of drums for each waste stream was created and is given in Appendix B. This list is not the random sample itself, but merely represents a randomly ordered list from which a sample (of a size to be determined from Phase I results) is to be filled. The sample must be filled in the order given, from the top of the list down. For example, when the appropriate sample size for a given waste stream is finally determined at say size n , the first n drums on the waste stream's list constitute the appropriate random sample. The list was made conservatively large at 75 drums, so that even with the largest expected sample size, one should never run out of listed drums. Having this ordered list allows optimal storage configuration for timely retrieval and processing of the drums once Phase II sampling begins.

The first effort at selecting a Phase II sample is problematical in the sense that it was not a general simple random sample as the selection process above. Nevertheless, valuable information has been collected and it is hoped that this information can be used in conjunction with the general sample. The selection occurred in early 1996, in an attempt to process, characterize, and have drums available for shipment to WIPP in the event WIPP shortly started accepting waste. This would help prevent eminent characterization activity overloads. At that time the INEEL's waste streams had not been well defined and the plan was to characterize the waste by IDC (i.e., each IDC was considered a separate waste stream). Then the population list of SWEPP "certified" and Rocky Flats Plant precertified drums were drawn up for the IDCs of interest and a random sample from each IDC list was selected. Therefore this sampling was a random selection by IDC, but only for SWEPP "certified" and Rocky Flats Plant precertified drums. This was done to maximize (WIPP certification) acceptance rates for the selected drums. This list of selected drums is given in Appendix C. This sample of drums will be included in the general Phase II sample by treating it as a stratified random sample, stratified by IDC and certification status.

There was another sampling effort which has yielded data which we plan to use in our Phase II characterization. At the time this sample selection was done, the INEEL was under a "Notice of Deficiency" (NOD) by the State of Idaho for not adequately characterizing each year group of each IDC. Therefore, these samples were chosen to address this NOD by sampling the deficient years for the given IDCs. The IDCs represented are 001, 007, 800, and 807, and the particular drums selected in this sampling are given in Appendix D. Further study is under way to document and understand how this sample was drawn. If the drums sampled were truly randomly selected, then these drums can be included in the general Phase II sample by treating it as a stratified random sample, stratified by IDC and packing

year.

The Phase II sample data will be statistically analyzed to insure adequate sampling and proper characterization of each waste stream. These results will be reported in EDFs maintained and stored in Site Project Office files.

2.2 Debris Wastes

Because the characterization of debris waste streams as RCRA hazardous or nonhazardous will be made using acceptable knowledge and headspace gas sampling, it is not necessary to perform physical core sampling of debris waste. Every debris waste container targeted for disposal at WIPP will be processed through SWEPP to measure radionuclide content and physical parameters using radioassay and radiography. Likewise, headspace gases from every container are extracted and analyzed to test for hazardous constituents for updating spent solvent EPA hazardous waste numbers. Visual examination of debris waste streams is also required and is addressed in the following section of this report.

2.3 Visual Examination of Waste

A portion of the waste containers that have been characterized using radiography in accordance with the procedures in the QAPP must be visually (intrusively) examined. The visual examination is used to verify the results of radiography and to determine the percentage of miscertified waste containers.⁶ The percentage of miscertified waste containers and a detailed statistical procedure (LMITCO 1997c) are used in determining the total number of waste containers that will be visually examined the following year. The visual examination process of waste characterization is not waste stream specific.

Waste containers are to be randomly selected (see Section 4.1.1) for visual examination from annual populations of certified and characterized wastes; the selection of waste containers for visual examination is not based on waste streams. The number of containers to be visually examined is based on the historical rate of miscertification and the total annual characterization population size. The rate of

⁶ Miscertified waste containers are those that radiographic examination indicates meet the WIPP waste acceptance criteria (DOE 1996c) and the requirements of *TRUPACT-II Authorized Methods for Payload Control* (NRC 1994), but that visual examination indicates do not meet these requirements

miscertification used in determining the number of containers to visually examine must be updated each year. EDF-363 entitled *Description of the SWEPP Certified Waste Sampling Program* (LITCO 1996) and MCP-2546 describe the procedures the INEEL uses for determining the miscertification rate, for determining the number of containers to be selected, for randomly selecting the containers, for interfacing with operations personnel regarding container retrieval, and for insuring that identified containers are retrieved. The number of drums selected for visual examination and the particular drums randomly chosen are given in EDF-363.

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40 CFR Part 261, October 1994. "Identification and Listing of Hazardous Waste." *Code of Federal Regulations*, Washington, D.C., Office of the Federal Register National Archives and Records Administration.

Appendix A. Phase I Drums

First/Second Stage Sludge Waste Stream

<u>DRUMID</u>	<u>BARCODE</u>	<u>IDC</u>
RF002500410	014031	001
RF074112297	010814	001
RF074112299	010931	001
RF074112301	012756	001
RF074112313	007085	001
RF074112336	012469	001
RF074112336	012469	001
RF074112362	012287	001
RF074112370	010859	001
RF074112389	010749	001
RF074112403	015042	001
RF074112416	010637	001
RF074112445	016069	001
RF074112540	013613	001
RF074112549	015700	001
RF074112550	012855	001
RF074112570	013522	001
RF074112864	011450	001
RF074112870	010534	001
RF741200327	029793	001
RF741200963	024920	001
RF741201332	024058	001
RF741201351	022105	001
RF741201516	024968	001
RF741201623	024670	001
RF741201643	023821	001
RF741201739	012611	001
RF741201893	023717	001
RF741202018	022513	001
RF741202203	022894	001
RF741202658	023561	001
RF741202800	017174	001
RF741203009	015785	001
RF741203065	015786	001
RF741203069	018152	001
RF741203107	016807	001
RF741203110	021442	001
RF741203499	010029	001
RF741203767	001493	001
RF741203786	014378	001
RF741203914	005358	001

RF741204240	003268	001
RF741204718	014295	001
RF741205042	002562	001
RF741205339	004221	001
RF741205546	005049	001
RF741205657	004219	001
RF741205787	004283	001
RF741205876	003932	001
RF074221242	010614	002
RF074221390	010549	002
RF074221401	011412	002
RF074221435	012873	002
RF074221436	010604	002
RF074221646	012828	002
RF074221647	010788	002
RF074226118	024318	002
RF074226125	024311	002
RF074226126	024308	002
RF074226128	024309	002
RF074226130	024319	002
RF074226147	021993	002
RF074226148	032674	002
RF741205838	018657	800
RF741205927	018333	800
RF741206104	008473	800
RF741206889	020033	800
RF741207281	024498	800
RF741207309	025265	800

Organic Setups Waste Stream

<u>DRUMID</u>	<u>BARCODE</u>	<u>IDC</u>
RF001903870	013769	003
RF074315690	024335	003
RF074316236	011032	003
RF074316263	024140	003
RF074316306	022765	003
RF074316332	022987	003
RF074316660	015515	003
RF074316674	021379	003
RF074316698	002264	003

RF074316703	021550	003
RF074316754	021338	003
RF074316797	017453	003
RF074316801	017460	003
RF074316802	016910	003
RF074316940	001419	003
RF074316962	001738	003
RF074316997	004542	003
RF074317002	003854	003
RF074317018	000789	003
RF074317048	006789	003
RF074317100	014531	003
RF074317101	006472	003
RF074317108	001748	003
RF074317155	000436	003
RF074317322	000960	003
RF074317330	001881	003
RF074317423	003455	003
RF074317428	003869	003
RF074317468	003506	003
RF074317499	002013	003
RF074317500	001937	003
RF074317506	001899	003

Special Setups Waste Stream

<u>DRUMID</u>	<u>BARCODE</u>	<u>IDC</u>
RF074404260	014990	004
RF074404295	004495	004
RF074404342	002084	004
RF074404342	002084	004
RF074404389	001813	004

Building 374 Sludge Waste Stream

<u>DRUMID</u>	<u>BARCODE</u>	<u>IDC</u>
RF074700163	022136	007
RF074700166	022149	007
RF074700187	022841	007

RF074700190	022833	007
RF074700195	022850	007
RF074700211	022121	007
RF074700282	022811	007
RF074700509	031560	007
RF074700682	030186	007
RF074700705	030475	007
RF074700891	031164	007
RF074700897	031124	007
RF074700902	017788	007
RF074700906	031169	007
RF074700931	031114	007
RF074701012	023535	007
RF074701031	031166	007
RF074701034	031130	007
RF074701035	031175	007
RF074701051	031165	007
RF074701062	031168	007
RF074701137	021565	007
RF074701138	021572	007
RF074701256	018219	007
RF074701535	016869	007
RF074701694	016964	007
RF074701945	015655	007
RF074702296	009006	007
RF074702461	009900	007
RF074703133	014170	007
RF074703437	003547	007
RF074703440	003394	007
RF074703597	000593	007
RF074703632	014009	007
RF074703754	003173	007
RF074703855	014387	007
RF074704024	003129	007
RF074704045	003121	007
RF074704143	006782	007
RF074704337	003325	007
RF074704353	003215	007
RF074704472	001437	007
RF074704639	013773	007
RF074704780	002006	007
RF074704996	003966	007
RF074705436	005398	007
RF074705496	005778	007
RF074705505	005735	007
RF074705552	013106	007
RF004002657	019656	803

RF004002657	019656	803
RF074705208	019664	803
RF074705846	008569	807
RF074706310	016428	807
RF074706919	020353	807
RF074706996	020724	807
RF074707500	025211	807
RF074707597	025328	807

Miscellaneous Cemented Sludges Waste Stream

<u>DRUMID</u>	<u>BARCODE</u>	<u>IDC</u>
RF000239288	022920	292
RF000239356	022979	292
RF000239417	022800	292
RF000243021	001412	292
RF000245964	002712	292
RF000246168	000347	292
RF001102020	001521	292
RF001102020	001521	292
RF001102059	001933	292
RF001102075	013885	292
RF001102162	011799	292
RF001102162	011799	292
RF001102171	002065	292
RF001102171	002065	292
RF001102177	001907	292
RF001902241	021562	292
RF001902359	018195	292
RF001904270	006918	292
RF003201033	018181	292
RF003201610	001346	292
RF004000065	023033	292
RF001102485	008262	818
RF001102420	008488	820
RF001102558	013040	823
RF001102563	013042	823
RF001102569	007908	823
RF001102630	013188	823
RF001102631	013204	823
RF001102632	013197	823

Cemented Resin, Hazardous Waste Stream

<u>DRUMID</u>	<u>BARCODE</u>	<u>IDC</u>
RF000108454	010922	432
RF000236771	022102	432
RF000236868	024850	432
RF000241039	031502	432

Sand, Slag, and Crucible Heels Waste Stream

<u>DRUMID</u>	<u>BARCODE</u>	<u>IDC</u>
RF001102500	008459	817
RF001102512	007849	817
RF001102516	007262	817
RF001102525	008403	817
RF001102531	007491	817
RF001102532	013184	817
RF001102534	013182	817

Cemented Resin, Nonhazardous Waste Stream

<u>DRUMID</u>	<u>BARCODE</u>	<u>IDC</u>
RF001102432	008161	822
RF001102541	013048	822
RF001102543	013171	822
RF001102543	013171	822
RF003201451	007594	822
RF003201457	018456	822
RF003201459	019254	822

Appendix B. Phase II Random Ordered Drums

First/Second Stage Sludge Waste Stream

OBS	BAR CODE	CNTR_NUM	IDC	RANNUM
1	011961	741206260	800	.0000243
2	015481	741203145	001	.0003580
3	022754	741207203	800	.0005118
4	023153	741207151	800	.0005201
5	008827	741203709	001	.0008267
6	006847	741204963	001	.0009319
7	001584	741204054	001	.0010236
8	029430	741200640	001	.0011239
9	010060	741206466	800	.0023063
10	022828	741202306	001	.0023749
11	009866	741203350	001	.0025076
12	022755	741207208	800	.0025875
13	019358	741206858	800	.0029451
14	004879	741205650	001	.0029787
15	016138	074112523	001	.0030227
16	003959	741205727	001	.0032295
17	009831	741203316	001	.0034003
18	006675	001903212	001	.0035126
19	022205	741202163	001	.0035396
20	029148	741200686	001	.0038230
21	004875	741205423	001	.0039549
22	024897	741201415	001	.0042556
23	000682	741204362	001	.0043274
24	006979	741204970	001	.0045471
25	017211	741203080	001	.0047447
26	020932	741202904	001	.0048872
27	018408	741206677	800	.0051822
28	026955	741202813	001	.0054834
29	031190	741200508	001	.0056305
30	019896	741206876	800	.0058184
31	022737	741207218	800	.0058535
32	004603	741204637	001	.0060406
33	019058	741206932	800	.0063899
34	016796	741203042	001	.0067553
35	017617	741206778	800	.0069152
36	020164	741206947	800	.0069644
37	026913	741200462	001	.0070410
38	009143	741203726	001	.0071652
39	017282	741206710	800	.0071678
40	016482	741206546	800	.0073134
41	008124	741206056	800	.0075346
42	016552	741206593	800	.0078582
43	029262	741200684	001	.0079096
44	028229	741200872	001	.0079995
45	003157	741204448	001	.0083489
46	002101	741205193	001	.0083820
47	022690	741207143	800	.0084112
48	022664	741207171	800	.0087364
49	002492	741204864	001	.0089420
50	007544	741206204	800	0.009042
51	010436	741202302	001	0.009054
52	010496	741202119	001	0.009090
53	008941	741203707	001	0.009133
54	015544	741202947	001	0.009186
55	023174	741207086	800	0.009416

56	005314	741205020	001	0.009520
57	018113	741203094	001	0.009939
58	022095	741201355	001	0.010331
59	017125	741206595	800	0.010598
60	004214	741205345	001	0.010735
61	002978	001903643	001	0.011110
62	023200	741207113	800	0.011192
63	003250	741204378	001	0.011370
64	024626	741201258	001	0.011792
65	002874	741204267	001	0.011807
66	032928	741202559	001	0.011945
67	030021	741201370	001	0.012146
68	027862	741201105	001	0.012184
69	001436	741203871	001	0.012376
70	025342	741207299	800	0.012912
71	003915	741205895	001	0.013032
72	023682	741201940	001	0.013070
73	017198	741202799	001	0.013187
74	020732	741206981	800	0.013298
75	001308	741205227	001	0.013388

Bldg 374 Sludge Waste Stream

OBS	BAR CODE	CNTR_NUM	IDC	RANNUM
1	019061	074706766	807	.0005744
2	003676	074703593	007	.0008722
3	019396	074706710	807	.0008877
4	031806	074700443	007	.0009558
5	006455	074703865	007	.0010314
6	015672	074701947	007	.0011254
7	020224	074706786	807	.0015360
8	000509	074703991	007	.0015981
9	016359	074702516	007	.0015997
10	014833	074705322	803	.0016421
11	000787	074702718	007	.0016999
12	031957	074700418	007	.0018416
13	014434	074703876	007	.0018534
14	005175	074703738	007	.0023374
15	002730	074703501	007	.0023458
16	003775	074704582	007	.0024078
17	031925	074700409	007	.0027518
18	003910	074705171	007	.0028769
19	004249	074705106	007	.0028872
20	002954	074703051	007	.0031360
21	017852	002500192	807	.0031447
22	003897	074705192	007	.0033340
23	016728	074701632	007	.0033518
24	023117	074707414	807	.0037455
25	006645	074702847	007	.0039181
26	011385	074702016	007	.0039640
27	000837	074704418	007	.0039640
28	011353	074701921	007	.0044119
29	006309	074703394	007	.0045534
30	021361	074701237	007	.0051719
31	000741	074703178	007	.0052150

32	003240	074704238	007	.0055694
33	032396	074700566	007	.0057539
34	014908	074704139	007	.0057868
35	014078	074703231	007	.0058800
36	008579	074705935	807	.0060106
37	031716	074700874	007	.0060311
38	003422	074702791	007	.0062929
39	001213	074704351	007	.0062986
40	023540	074701023	007	.0068735
41	002735	074703494	007	.0069085
42	032386	074700508	007	.0072563
43	021512	074701282	007	.0073541
44	017222	074706430	807	.0074254
45	014626	001904320	007	.0074727
46	003461	074702805	007	.0075442
47	015551	074701373	007	.0085278
48	003918	074705184	007	.0089561
49	007915	074705734	007	.0091020
50	003453	074702962	007	0.009234
51	022118	074700208	007	0.009466
52	002114	074703081	007	0.009574
53	016763	074701417	007	0.009898
54	009971	074702500	007	0.009970
55	017893	074706444	807	0.010376
56	005353	074702823	007	0.010505
57	005717	074705078	007	0.010703
58	002121	074702745	007	0.011311
59	001722	074704654	007	0.011387
60	009935	074704402	007	0.011440
61	016545	074701675	007	0.011539
62	014528	001904322	007	0.011586
63	008601	074705918	807	0.011766
64	014267	074703854	007	0.011941
65	014236	074702319	007	0.012109
66	013441	001102653	807	0.012147
67	003369	074704550	007	0.012176
68	025236	074707541	807	0.012202
69	020549	074704913	007	0.012249
70	016720	074701654	007	0.012308
71	004826	074705042	007	0.012316
72	018132	074701247	007	0.012499
73	016917	074701593	007	0.012500
74	021595	074701176	007	0.012683
75	033011	074700775	007	0.012823

Misc. Cemented Sludge Waste Stream

OBS	BAR CODE	CNTR_NUM	IDC	RANNUM
1	008226	001102614	807	0.003184
2	018334	001102372	807	0.004469
3	022903	000239257	292	0.006693
4	018424	001101931	807	0.007284
5	019173	001102016	292	0.007747
6	018448	001102044	807	0.010510
7	007258	001102424	820	0.011419

8	010033	000242274	292	0.011847
9	001340	001102111	292	0.014617
10	018935	001101932	807	0.016314
11	018765	001102381	807	0.016662
12	018450	001101953	807	0.017397
13	018454	003201609	292	0.019007
14	031631	000239560	292	0.019915
15	008120	001102408	807	0.021439
16	018805	001102361	807	0.023887
17	007575	001102422	820	0.026502
18	001332	001102024	292	0.027577
19	018802	001102399	807	0.028645
20	008474	001102439	820	0.031121
21	008437	001102624	820	0.034077
22	007633	001101967	807	0.035462
23	014709	001102686	806	0.039821
24	018622	001101946	807	0.042783
25	018831	001102378	807	0.043338
26	024857	004000085	292	0.044306
27	001354	001102099	292	0.046142
28	009465	000241434	292	0.050214
29	000461	000246222	292	0.050905
30	013361	001101987	292	0.052346
31	018428	001102188	292	0.052423
32	028032	004000067	292	0.053283
33	018197	000242131	292	0.053630
34	022997	000239443	292	0.055176
35	018597	001102417	807	0.056476
36	018480	001102106	292	0.059124
37	014325	000246030	292	0.060425
38	001964	001102196	292	0.061950
39	028182	004000070	292	0.065496
40	014703	001102683	806	0.067376
41	009709	001102335	820	0.068976
42	017332	001102412	807	0.071296
43	017234	005501141	806	0.071755
44	014681	001101884	806	0.073088
45	008392	001102615	807	0.075478
46	017327	001102404	807	0.076249
47	027988	004000072	292	0.078511
48	001708	000246044	292	0.080220
49	001379	001102028	292	0.080771
50	007252	001102421	820	0.08096
51	031170	000240483	292	0.08314
52	018429	001102167	292	0.08462
53	011969	001102711	806	0.08740
54	013091	001102492	818	0.08753
55	001351	001102108	292	0.08986
56	008102	001102413	807	0.09136
57	008876	000242799	292	0.09182
58	013364	001101980	292	0.09197
59	007533	001101930	807	0.09337
60	009940	000240129	292	0.09433
61	013213	001102337	820	0.09934
62	019209	001102206	292	0.09981
63	001322	001101993	292	0.10280
64	018476	001102163	292	0.10535
65	017304	001101954	807	0.10932
66	017321	001101943	807	0.10968
67	022532	004800031	292	0.11020
68	007550	001102596	807	0.11332
69	003739	001101994	292	0.11449

70	013133	001102568	823	0.11821
71	008128	001102397	807	0.12218
72	001328	001102045	292	0.12241
73	018797	001102349	807	0.12322
74	001900	001102107	292	0.12382
75	018436	001102191	292	0.12427

Organic Setups Waste Stream

OBS	BAR CODE	CNTR_NUM	IDC	RANNUM
1	000789	074317018	003	0.000172
2	006851	074317257	003	0.000328
3	003645	074317459	003	0.003082
4	016910	074316802	003	0.003824
5	002264	074316698	003	0.004289
6	013929	074317352	003	0.004677
7	030453	074315217	003	0.004872
8	021338	074316754	003	0.005037
9	025597	074315606	003	0.005158
10	022199	074316288	003	0.005233
11	024240	074315997	003	0.005322
12	026684	074315120	003	0.005752
13	005474	074404153	003	0.006629
14	022765	074316306	003	0.007506
15	032744	074316493	003	0.010478
16	003869	074317428	003	0.011417
17	029109	074315386	003	0.012255
18	023809	074315700	003	0.014014
19	014531	074317100	003	0.014171
20	021942	074315973	003	0.015014
21	030711	074315044	003	0.016652
22	011032	074316236	003	0.017020
23	004538	074317174	003	0.017876
24	014983	074317261	003	0.018686
25	029121	074315297	003	0.018818
26	027683	074315750	003	0.019129
27	001881	074317330	003	0.020196
28	025475	074315812	003	0.020555
29	025575	074315447	003	0.021435
30	030484	074315084	003	0.021969
31	027599	074315760	003	0.022003
32	030982	074315004	003	0.023080
33	025015	074315507	003	0.023584
34	005267	074317237	003	0.024446
35	029061	074315353	003	0.025530
36	000960	074317322	003	0.025811
37	027768	074315892	003	0.026188
38	000649	074316948	003	0.026222
39	023677	074316084	003	0.026609
40	024140	074316263	003	0.026703
41	021550	074316703	003	0.027820
42	024788	074315843	003	0.028922
43	017460	074316801	003	0.028990
44	001738	074316962	003	0.029148
45	023795	074315693	003	0.030675

46	024335	074315690	003	0.030758
47	003222	074316935	003	0.030945
48	031532	074316502	003	0.031739
49	010489	074316237	003	0.032455
50	024828	074315438	003	0.032676
51	003506	074317468	003	0.033646
52	002040	074317447	003	0.035267
53	001748	074317108	003	0.036166
54	002326	074317197	003	0.036372
55	003416	074316734	003	0.036777
56	006472	074317101	003	0.037769
57	024680	074315817	003	0.037858
58	021379	074316674	003	0.038318
59	006789	001903870	003	0.038438
60	004542	074317048	003	0.040021
61	016370	074316821	003	0.040141
62	024051	074315602	003	0.040753
63	001419	074316997	003	0.041345
64	032803	074316454	003	0.041684
65	031547	074316563	003	0.041709
66	022987	074316332	003	0.041836
67	013769	074316940	003	0.042375
68	024799	074315429	003	0.044769
69	029740	074315041	003	0.044890
70	011003	074316234	003	0.045099
71	027624	074315728	003	0.045195
72	022601	074316095	003	0.046268
73	001562	074317126	003	0.046834
74	030383	074315088	003	0.047149
75	022866	074316290	003	0.047328

Solidified Organics Waste Stream

OBS	BAR CODE	CNTR_NUM	IDC	RANNUM
1	018707	074317722	801	0.000506
2	008442	074317771	801	0.002371
3	017631	074318007	801	0.002565
4	027139	074318328	801	0.003212
5	024367	074318270	801	0.003286
6	013500	074317954	801	0.005196
7	013102	074317943	801	0.006503
8	016944	074317618	700	0.008400
9	025256	074318301	801	0.008938
10	020822	074318198	801	0.009908
11	007529	074317889	801	0.010126
12	027204	074318344	801	0.012188
13	007313	074317868	801	0.012521
14	027278	074318355	801	0.014783
15	020349	074318153	801	0.018003
16	027261	074318372	801	0.018504
17	013501	074317959	801	0.021798
18	007562	074317601	801	0.027068
19	022729	074318258	801	0.029481
20	025186	074318253	801	0.029585
21	022721	074318200	801	0.030910

22	020068	074318144	801	0.031232
23	008653	074317985	801	0.031846
24	018826	074317668	801	0.031983
25	007294	074317855	801	0.033238
26	011864	074318006	801	0.035607
27	027275	074318353	801	0.036415
28	010164	074318037	801	0.038026
29	008331	074317787	801	0.039666
30	018631	074317756	801	0.039805
31	007311	074317842	801	0.040039
32	018924	074317699	801	0.040960
33	018893	074317634	801	0.042899
34	008444	074317779	801	0.043095
35	018909	074317665	801	0.043779
36	007940	074317841	801	0.045784
37	013067	074317902	801	0.047240
38	027164	074318338	801	0.047991
39	017057	002500189	801	0.048149
40	007501	074317895	801	0.049401
41	013065	074317903	801	0.051847
42	017573	001909696	801	0.052339
43	025195	074318242	801	0.053855
44	011829	074317998	801	0.056751
45	007474	074317890	801	0.057516
46	013004	074317941	801	0.057893
47	008193	074317647	801	0.057968
48	018022	074318029	801	0.058357
49	024400	074318276	801	0.058556
50	007325	074317861	801	0.058895
51	027269	002500526	801	0.059004
52	019574	074317707	801	0.059463
53	013164	074317913	801	0.061021
54	011986	074318010	801	0.061586
55	010134	074318025	801	0.062297
56	007255	074317768	801	0.064075
57	018586	074317728	801	0.065524
58	024484	074318286	801	0.067861
59	020084	074318138	801	0.068351
60	027272	074318359	801	0.070613
61	025288	074318329	801	0.073306
62	007264	074317831	801	0.074086
63	014794	074317551	700	0.076870
64	018853	074317721	801	0.077654
65	014715	074317995	801	0.078334
66	024397	074318273	801	0.078634
67	010047	074318021	801	0.080279
68	018021	074318042	801	0.082208
69	020820	074318175	801	0.083058
70	007817	074317840	801	0.085367
71	008370	074317761	801	0.085610
72	013492	074317934	801	0.089080
73	013100	074317939	801	0.090105
74	025286	074318332	801	0.092228
75	023074	074318209	801	0.092521

Special Setups Waste Stream

OBS	BAR CODE	CNTR_NUM	IDC	RANNUM
1	002031	074404375	004	0.00222
2	015426	074403924	004	0.00251
3	018612	074404439	802	0.00344
4	027900	074403679	004	0.00431
5	008463	074404502	802	0.00448
6	018731	074404438	802	0.00662
7	032862	074403859	004	0.00826
8	025560	074403611	004	0.00959
9	015609	074403989	004	0.01059
10	026779	074438980	004	0.01073
11	029801	074403546	004	0.01675
12	028763	074403566	004	0.01843
13	013959	074404241	004	0.02080
14	000647	074404072	004	0.02477
15	007972	074404543	802	0.02531
16	029164	074403600	004	0.02648
17	012133	074403647	004	0.03221
18	012526	074403751	004	0.03434
19	005475	002500407	004	0.03437
20	025014	074403613	004	0.03619
21	007948	074404531	802	0.03681
22	016188	074403998	004	0.03716
23	027899	074403683	004	0.04179
24	001211	074404297	004	0.04369
25	031524	074439050	004	0.04990
26	005370	074404303	004	0.05337
27	018704	074404431	802	0.06024
28	004518	074404223	004	0.06347
29	027930	074403698	004	0.06676
30	003320	074404137	004	0.06978
31	001429	074404104	004	0.07004
32	003436	074404089	004	0.07777
33	000431	074404211	004	0.07828
34	029754	074403529	004	0.08002
35	014548	074404081	004	0.08314
36	014081	074404108	004	0.08408
37	016935	074403922	004	0.08661
38	001336	074404317	004	0.09441
39	017052	002500195	802	0.09621
40	013041	074404540	802	0.09818
41	030480	074403832	004	0.10199
42	005459	074404117	004	0.10283
43	008169	074404493	802	0.10283
44	007419	074404518	802	0.10460
45	025586	074403670	004	0.10467
46	018729	074404456	802	0.10528
47	025554	074403604	004	0.10569
48	029163	074403560	004	0.11242
49	000441	074404205	004	0.11424
50	001128	074404329	004	0.11451
51	000852	074404287	004	0.12527
52	004470	074404363	004	0.12836
53	005315	074404250	004	0.13035
54	002209	074404184	004	0.13188
55	008104	074404410	802	0.13312
56	026658	074403551	004	0.14042
57	016912	074403961	004	0.15147
58	002510	074404248	004	0.15390
59	027868	074403661	004	0.15495

60	023336	074403821	004	0.15691
61	018803	074404418	802	0.15733
62	001079	074404311	004	0.16176
63	016913	074403957	004	0.16339
64	016693	074403970	004	0.16785
65	027882	074403681	004	0.16841
66	004745	074404221	004	0.16912
67	003141	074404181	004	0.16954
68	007492	074404420	802	0.17743
69	008358	074404509	802	0.17804
70	004401	074404407	004	0.18114
71	016220	074404003	004	0.18278
72	000838	074404283	004	0.18420
73	013064	074404533	802	0.18626
74	004286	074404379	004	0.19199
75	027066	074439200	004	0.19281

Cemented Resin, Hazardous Waste Stream

OBS	BAR CODE	CNTR_NUM	IDC	RANNUM
1	022442	000238549	432	0.02251
2	017148	003201043	432	0.03110
3	016146	000108005	432	0.04792
4	006879	003201578	432	0.07288
5	033860	RD9402124	432	0.07567
6	000568	000246054	432	0.10695
7	015440	003201039	432	0.11463
8	030430	000234845	432	0.14515
9	017758	003201115	432	0.16269
10	006880	003201570	432	0.23136
11	002799	005600179	432	0.23375
12	017763	003201034	432	0.23862
13	018499	003201323	432	0.26582
14	014339	003201582	432	0.27124
15	019328	003201319	432	0.28537
16	022539	000238511	432	0.30671
17	018751	002500284	432	0.34827
18	033854	RD9408464	432	0.34894
19	012084	000236837	432	0.35230
20	033856	RD9401161	432	0.35499
21	033859	RD9408781	432	0.37408
22	026972	000241016	432	0.37526
23	006886	002500471	432	0.37684
24	017724	003201037	432	0.39064
25	033858	RD9401042	432	0.39416
26	015777	001902364	432	0.41662
27	031552	000241046	432	0.43466
28	001692	003201577	432	0.44960
29	002797	000246173	432	0.46686
30	011162	000237777	432	0.46765
31	022517	000238512	432	0.48242
32	028189	000236385	432	0.49375

33	006859	003201579	432	0.54811
34	018468	001102122	432	0.55508
35	001763	002500480	432	0.57340
36	017000	003201141	432	0.57957
37	016786	003201044	432	0.62046
38	011021	000238515	432	0.62884
39	001786	003201321	432	0.64651
40	005231	003201573	432	0.65217
41	004973	003201464	432	0.67870
42	016566	000241098	432	0.68326
43	005535	000246798	432	0.70372
44	001663	002500456	432	0.70909
45	001633	002500451	432	0.71227
46	032061	000239982	432	0.72350
47	024742	000237040	432	0.73186
48	015433	003201026	432	0.73510
49	016614	005600142	432	0.78092
50	017147	003201035	432	0.80538
51	032281	000240507	432	0.84631
52	033857	RD9400447	432	0.86306
53	022542	000238779	432	0.87290
54	032100	000240674	432	0.87807
55	032058	000239977	432	0.87906
56	005235	003201576	432	0.89247
57	015434	003201253	432	0.99515

Cemented Resin, Nonhazardous Waste Stream

OBS	BAR CODE	CNTR_NUM	IDC	RANNUM
1	019329	003201460	822	0.01588
2	013166	001102547	822	0.05300
3	008170	001102613	822	0.06908
4	008275	003201463	822	0.07017
5	013173	001102545	822	0.07802
6	008224	001102610	822	0.09541
7	013048	001102541	822	0.13580
8	007800	001102611	822	0.14753
9	019327	003201452	822	0.17496
10	019253	003201454	822	0.21059
11	013054	001102542	822	0.27519
12	018422	003201465	822	0.30909
13	019576	001102123	822	0.33516
14	007540	003201458	822	0.47147
15	013167	001102546	822	0.50902
16	008261	001102437	822	0.51507
17	013143	001102544	822	0.60160
18	008381	001102434	822	0.60414
19	008266	003201462	822	0.62866
20	018582	003201461	822	0.63415
21	019256	003201453	822	0.65338
22	018330	003201455	822	0.69215
23	008476	001102433	822	0.93254
24	008250	001102612	822	0.93691
25	013153	001102549	822	0.97635

Salts Waste Stream

OBS	BAR CODE	CNTR_NUM	IDC	RANNUM
1	013224	000302751	409	0.00760
2	010487	000105316	414	0.02891
3	024185	000105315	409	0.04183
4	006250	000302719	409	0.07345
5	006175	000303017	409	0.13520
6	006873	000302871	409	0.15108
7	001014	000302999	409	0.17512
8	005013	007604337	411	0.18355
9	014313	000302788	409	0.18601
10	013325	007604308	411	0.27058
11	030586	005200073	412	0.27823
12	006048	000303207	409	0.29189
13	005914	000303166	409	0.32235
14	001480	002500314	409	0.35475
15	022901	000105391	409	0.39577
16	000375	000302726	409	0.43609
17	006951	000302908	409	0.47440
18	022807	000105378	414	0.48257
19	005623	000302776	409	0.50751
20	006697	000302721	409	0.51556
21	006887	000302958	409	0.51742
22	013222	000302800	409	0.55213
23	001376	000303165	409	0.58572
24	005824	002500458	409	0.61348
25	006204	000302725	409	0.61814
26	014356	000302863	409	0.67323
27	021945	000105219	411	0.67927
28	004195	007604376	411	0.68449
29	024295	000105303	414	0.71170
30	004990	007604307	411	0.72029
31	013223	000302735	409	0.74034
32	019698	007604378	411	0.75502
33	006225	000302729	409	0.75712
34	013331	007604344	411	0.75906
35	021712	000105223	411	0.79918
36	021721	000105224	411	0.88351
37	005011	007604304	411	0.89264
38	021941	000105218	411	0.89788
39	005898	007604379	411	0.89903
40	006015	007604380	411	0.98693
41	014487	000302736	409	0.99050
42	007667	002500239	411	0.99519
43	013990	000302774	409	0.99884

Misc. Fines Waste Stream

OBS	BAR CODE	CNTR_NUM	IDC	RANNUM
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1	010032	001212271	372	0.00006
2	023584	000105403	372	0.02609
3	016279	005200163	391	0.07692
4	021969	002800543	370	0.10960
5	029619	005400296	391	0.14596
6	031973	000105499	372	0.19798
7	022766	000105404	372	0.29333
8	030425	002900044	370	0.35363
9	031825	000105418	372	0.36768
10	023045	000105363	391	0.39039
11	031767	000105429	372	0.40244
12	031965	000105421	372	0.41737
13	026710	002800187	370	0.43906
14	032063	000105433	372	0.44556
15	023590	000105402	372	0.51540
16	028181	004000075	392	0.59265
17	031952	000105482	372	0.62860
18	032057	000105420	372	0.76284
19	021593	000105784	391	0.77314
20	016619	003201205	310	0.80629
21	031953	000105419	372	0.81408
22	031810	000105537	372	0.88896

Ash/Soot Waste Stream

OBS	BAR CODE	CNTR_NUM	IDC	RANNUM
1	033088	000105585	422	0.06883
2	021275	000105658	422	0.08306
3	002355	001102147	422	0.08868
4	016609	000105868	420	0.11528
5	032393	000105504	422	0.22181
6	021674	000105211	422	0.27382
7	006240	001006202	422	0.30798
8	002080	001102146	422	0.32673
9	018458	001102145	422	0.67193
10	032492	000105503	422	0.75003
11	002081	001102152	422	0.97774

Fluid Bed Ash Waste Stream

OBS	BAR CODE	CNTR_NUM	IDC	RANNUM
1	027763	007500132	425	0.04967

Appendix C. Initial Phase II Selected "Certified" and Precertified Drums

First/Second Stage Sludge Waste Stream

<u>DRUMID</u>	<u>BARCODE</u>	<u>IDC</u>
RF741202128	024148	001
RF741202134	023938	001
RF741204411	011761	001
RF001904233	006836	002
RF074221645	013672	002
RF741205902	018806	800
RF741206182	008355	800
RF741206243	013146	800
RF741206329	013423	800
RF741207001	020749	800

Building 374 Sludge Waste Stream

<u>DRUMID</u>	<u>BARCODE</u>	<u>IDC</u>
RF074701873	011404	007
RF074702375	013941	007
RF074702539	006276	007
RF074703656	002923	007
RF074703733	006439	007
RF074705466	005766	007
RF074705656	007832	007
RF074705221	019889	803
RF074705946	011960	807

2	027780	007500133	425	0.35151
3	027843	007500131	425	0.36231
4	028013	007500129	425	0.52055
5	027793	007500125	425	0.59403
6	027764	007500134	425	0.74449
7	028033	007500119	425	0.86225

Oil Dri Waste Stream

OBS	BAR CODE	CNTR_NUM	IDC	RANNUM
1	003996	002901347	375	0.11781
2	032012	000105540	375	0.17716
3	014337	002901352	375	0.34777
4	014351	002901363	375	0.84990

Appendix D. Phase II Year-Directed NOD Selected Drums

First/Second Stage Sludge Waste Stream

<u>DRUMID</u>	<u>BARCODE</u>	<u>IDC</u>
RF741200343	031237	001
RF741200628	030341	001
RF741200665	030362	001
RF741200837	028633	001
RF741201101	028018	001
RF741201215	027343	001
RF741201223	027455	001
RF741202714	031142	001
RF741204082	003344	001
RF741204312	003227	001
RF741204961	006729	001
RF741205140	000887	001
RF741205155	001080	001
RF741206046	008344	800
RF741206080	008371	800
RF741206622	017876	800
RF741206623	017917	800

Building 374 Sludge Waste Stream

<u>DRUMID</u>	<u>BARCODE</u>	<u>IDC</u>
RF074700490	031580	007
RF074700905	031163	007
RF074701937	016257	007
RF074702026	011359	007
RF074702682	000839	007
RF074702863	013887	007
RF074703085	002212	007
RF074703263	006435	007
RF074703370	003760	007
RF074703751	003042	007
RF074703840	014454	007
RF074704025	000513	007
RF074704722	003512	007
RF074704724	003546	007

RF074704808	004344	007
RF074705007	003963	007
RF074705099	004237	007
RF074705144	004456	007
RF074705163	003986	007
RF074706799	020370	807
RF074706934	020178	807
RF074706956	020377	807