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Initial Retrieval Sequence and Blending Strategy

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

Westinghouse
Hanford Company Richland, Washington

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Initial Retrieval Sequence and Blending Strategy

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Abstract: This report documents the initial retrieval sequence and the methodology used to select it. Waste retrieval, storage, pretreatment and vitrification were modeled for candidate single-shell tank retrieval sequences. Performance of the sequences was measured by a set of metrics (for example, high-level waste glass volume, relative risk and schedule).

Computer models were used to evaluate estimated glass volumes, process rates, retrieval dates, and blending strategy effects. The models were based on estimates of component inventories and concentrations, sludge wash factors and timing, retrieval annex limitations, etc.

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INITIAL RETRIEVAL SEQUENCE AND BLENDING STRATEGY

September 1996

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EXECUTIVE SUMMARY

This report documents the initial single-shell tank retrieval sequence and confirms the selection of the incidental blending strategy for limiting high-level waste glass volume.

The evaluation resulted in the following important conclusions.

- *The acceptability of incidental blending was confirmed. And, the sensitivity of high-level waste glass volume to minor random sequence changes is small when measured by the total volume of glass produced. However, the switch to a two-phased disposal strategy impacts blending for Phase I because the population of tanks available for blending is reduced. The high-level waste glass volume increased approximately 8 percent over that estimated during FY 1995 as a result of that change.*

- *The FY 1996 change in baseline to a two-phase disposal strategy has significantly altered the retrieval and processing requirements from the FY 1995 baseline. The table below shows that 92 percent of the waste volume is now retrieved during Phase II versus 64 percent during the same time-period for the FY 1995 baseline. Therefore, the overall retrieval rate must be increased about 50 percent over what would have been required to meet the retrieval completion milestone using the FY 1995 baseline. Phase II requires up to 16 simultaneous retrievals (four per quadrant), with a total of up to 46 lines transferring liquids (including two lines*

per sluicing retrieval operation) in the tank farms simultaneously. This is twice the maximum of the FY 1995 study. Retrieval rates of up to 34 Mgal per year, and the associated transfer complexity are an unprecedented scale for continuous operations at Hanford.

Comparison of Fiscal Year 1995 and Fiscal Year 1996 Baseline Retrieval Volumes for Phase II Time Period.

Study	*Waste retrieved (October 2011 to retrieval completion)*	
	Volume in Mgal at ~ 5M Na	*Percent of total retrieved waste*
FY 1995	*89*	*64%*
FY 1996	*128*	*92%*

- *The FY 1996 baseline high-level waste and low-level waste process rate assumptions must be increased to meet the September 30, 2018, Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) (Ecology et al. 1994) milestone for completion of single-shell tank retrieval. The ability to operate at and support these processing rates is highly unlikely. To put the size of the high-level waste plant in perspective, the high-level waste plant would need to operate at approximately 12 MT/day, which is 4.8 times the design capacity of Defense Waste Process Facility at Savannah River, and approximately 1.5 times the combined design capacity of all the existing high-level waste plants in the world (approximately 8.8 MT/day). The low-level waste processing rate as shown*

in the table below would need to be similar to a moderate size industrial glass plant. Extensive material handling capabilities would be required as approximately one container (assuming 10 MT/container) of low-level waste glass would be produced each hour.

Comparison of Fiscal Year 1995 and Fiscal Year 1996 Low-Level Waste Processing Rates.

Study	*Peak operating rate MT glass/day at 20 wt% Na_2O*
FY 1995	*178*
FY 1996	
Phase II baseline assumptions	*195*
Rate meeting 2018 Retrieval completion	*270*

- *All of the tested sequences, under both base case and other assumptions, meet the December 31, 2028, Tri-Party Agreement milestone for the completion of high-level waste vitrification, and the December 31, 2024, milestone for completion of low-level waste processing.*

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GLOSSARY

Abbreviation, acronym, or term	Corresponding term or definition
Annex	Same as Waste Retrieval Facility (See *WRF*).
Base Case	The set of assumptions around which most of the modeling is performed unless otherwise specified. Sometimes called an Operating Point.
Case	The definition (sequence, inventory, deviations from base case, etc.) and results associated with a specific computer simulation run.
CVS	Composition variation study
CY	Calendar Year (ending December 31).
Directed Blending	Using knowledge of waste composition at one or more points in the process to determine which wastes are blended.
EIS	Environmental Impact Statement
FY	Fiscal Year (ending September 30).
HLW	High-Level Waste
HLW-Input Blending	A blending strategy that directs washed sludge into one or more HLW staging tanks based on a set of rules.
HTCE	Historical Tank Contents Estimates
HWVP	Hanford Waste Vitrification Plant
Incidental Blending	Incidental blending is that blending that occurs during retrieval, pretreatment and storage activities without any special effort. This is sometimes called unavoidable blending.
Initial Retrieval Sequence	This refers to the retrieval sequence selected during the FY 1996 study.
Input Sequence	An SST retrieval sequence along with the earliest date that retrieval may begin for each tank. This sequence/schedule is one of the inputs to the simulation model. (See *Retrieval Sequence*)

GLOSSARY

Abbreviation, acronym, or term	Corresponding term or definition
ISSTRS	Initial Single-Shell Tank Retrieval System--The retrieval system for retrieving the first four single-shell tanks.
L	Liter
LLW	Low-Level Waste
Map	One method to test the robustness of a candidate retrieval sequence is to measure the sensitivity of the various metrics to slight scrambling of the sequence. The positions of tanks in the original sequence are changed based on a predefined set of rules. The list of numbers describing the new positions is called the map. (See *Retrieval Sequence* and *Metric*.)
Measure	An attribute describing how well a particular value is satisfied. For example, HLW glass volume is a measure related to the value of cost. Solutions are compared in terms of their measures. (See *Value*.)
Measure-of-Success	A go - no go criteria applied to a particular measure. Potential solutions that pass these criteria are considered successful. Potential solutions that fail these criteria are rejected. (See *Measure*.)
Metric	A number or a set of numbers that describes some feature of the potential solution. In practical terms, almost any simulation output. Metrics include *measures*, *measures-of-success* and *other metrics*.
ML	Million Liters
MT	Metric Ton
No Blend Case	Waste from each DST and SST is retrieved, pretreated and vitrified as a separate batch. No blending of waste between tanks is permitted. This theoretical case represents the maximum HLW glass volume for the assumed inventory, wash factors, and glass specifications.

GLOSSARY

Abbreviation, acronym, or term	Corresponding term or definition
Other Metric	Those metrics that were not used in the decision process. They provide information needed to manipulate the retrieval sequences and interpret the model results. (See *Metric.*)
OWVP	Operational Waste Volume Projection
PAS	Preliminary Aggregate Score
PCT	Product Consistency Test
Percent of Span	A relative scale of HLW (or LLW) glass volumes. Zero (0) percent corresponds to the Total Blend Case; One hundred (100) percent corresponds to the No Blend Case. (See *Total Blend Case* and *No Blend Case*)
Preliminary SST Retrieval Sequence	This refers to the SST Retrieval Sequence selected during the FY 1995 study (Certa 1995b).
PSA	Probabilistic safety assessment
PSI	Preliminary Scoring Index
Realized Sequence	During execution of the simulation model, the retrieval of certain tanks may be delayed from the early start dates provided by the input sequence due to constraints in the model. The actual order SSTs are processed along with the start and finish dates are called the realized sequence. This is one of the outputs from the simulation model.
Retrieval Project	A project that prepares one or more single-shell tanks for retrieval. May include upgrade of ancillary equipment (ventilation, transfer line, etc.)
Retrieval Sequence	The retrieval sequence is a listing of all tanks in the order that they will be retrieved (for SSTs) or processed (for DSTs). Sometimes the DSTs are omitted for convenience (since they are also used for processing activities) and the remaining sequence called the SST Retrieval Sequence. (See *Input Sequence* and *Realized Sequence*)

GLOSSARY

Abbreviation, acronym, or term	Corresponding term or definition
Sensitivity Study	a study performed to determine the sensitivity of retrieval and processing results to a certain parameter.
SORWT	Sort on Radioactive Waste Type
SY-Split Blending	A blending strategy that directs wasted retrieved from West Area into one or more of the three SY-Farm DSTs based on a set of rules.
Total Blend Case	Waste from each DST and SST blended together, then retrieved, pretreated and vitrified as a single uniform batch. This is sometimes called a uniform or superblend case. This theoretical case represents the minimum HLW glass volume for the assumed inventory, wash factors, and glass specifications.
TRAC	Track RAdioactive Components
TWRS	Tank Waste Remediation System
Undirected Blending	Blending that does not consider knowledge of waste composition in the process. For example, incidental blending.
Value	A value represents what is important to a decision maker. Examples are cost and schedule.
WRF	Waste Receiver Facility. A facility that supports the retrieval of waste from SSTs and conditions the waste for transfer to the DST system. Also called an Annex.
wt%	Weight Percent

INITIAL RETRIEVAL SEQUENCE AND BLENDING STRATEGY

1.0 INTRODUCTION

This report documents the selection of the initial single-shell tank (SST) retrieval sequence for the Tank Waste Remediation System (TWRS). The decision framework for selecting the retrieval sequence and blending strategy was documented in Certa (1995a) and Penwell (1996). Deviations from the framework were made when warranted.

The objective of this work for Fiscal Year (FY) 1996 is to update the TWRS Baseline Retrieval Sequence and prepare this report to satisfy *Hanford Federal Facility Agreement and Consent Order* (Tri-Party Agreement) (Ecology et al. 1994) Milestone M-45-02A, "Submit initial SST retrieval sequence document for Ecology approval" (September 30, 1996). Milestone M-45-02A is the first of a series of milestones that require submittal of an annual update of the SST retrieval sequence.

1.1 ORGANIZATION

This document is organized as follows:

Section 2.0 briefly discusses the methodology used to generate and evaluate sequences.

Section 3.0 summarizes the significant results of the retrieval studies performed during FY 1996. It describes briefly their significance and provides recommendations based upon those results and conclusions.

Section 4.0 defines the evaluation criteria (measures, measures-of-success, and other metrics) used to evaluate the alternative retrieval sequences and blending strategies. The range of values that various metrics assume are presented, along with observations about using the measure for decision purposes. These metrics are then used to compare the Initial Retrieval Sequence with other sequences from FY 1996 and selected sequences from FY 1995. Caveats with respect to application of the results of this study are also given in this section.

Plans for future work are presented in Section 5.0.

Appendix A provides an index to the cases. Appendix B describes the process model. The major programmatic and modeling assumptions affecting the results of this study are discussed in Appendix C. Appendixes D through J provide other supporting data to the report.

1.2 NAMING CONVENTIONS

In this report, certain conventions have been adopted to help organize results.

Each input retrieval sequence has been given an arbitrary three character name as shown in Appendix A. Examples of sequences are 1A1 or 2C3.

All sequences except sequences 2C3 and 2C5 are unique to the study. Sequences 2C3 and 2C5 are from the FY 1995 study and are used for comparison to output from the FY 1995 study. Sequences such as 1D1 were developed as part of this study and are not taken from earlier studies.

Each computer simulation is called a case. Cases are identified by whole numbers as shown in Appendix A. The case number is used to identify all results of a certain simulation run and keep the results together. The case specification includes the sequence, blending strategy, tank inventory, glass limits, map, and all other model assumptions. For brevity, only deviations from the base case are identified when specifying a case.

Examples of typical callouts in this report are given in Table 1.

Table 1. Report Callouts.

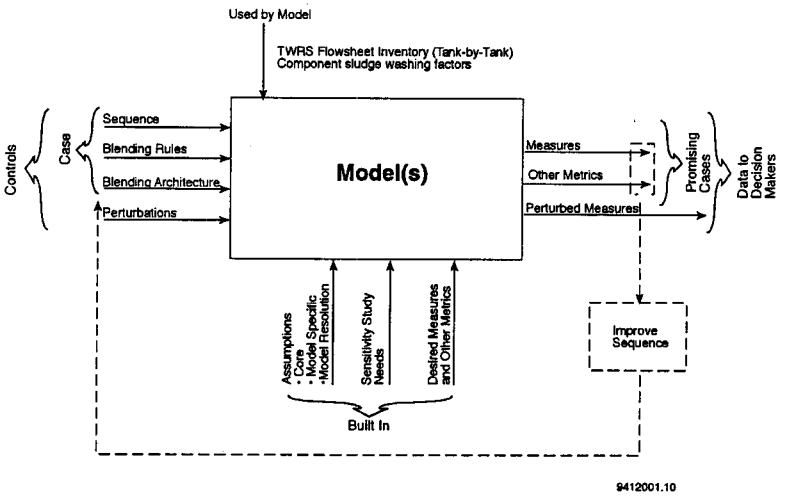
Example callout	Description
Sequence 2C3	This refers to the sequence.
Sequence 2C3 (Case 50)	This refers to the sequence and the specific computer modeling case.
Case 50	This refers to a specific computer modeling case.

2.0 METHODOLOGY

This section presents the overall methodology used during the study period (see Figure 1). The existing TWRS Baseline Simulation Model (ARENA/SIMAN[1]) and the TWRS Process Flowsheet (ASPEN[2]) were modified to simulate the high-level behavior of the TWRS (waste retrieval, storage, pretreatment and vitrification) in relation to programmatic and process assumptions (see Appendices B and C), and various alternative retrieval sequences. Alternative cases of different retrieval sequences and process assumptions were run through the models and various measures and other evaluative measures were estimated. The results were reviewed and a new (and hopefully better) retrieval sequence was generated. The new case, based on this tailored sequence, was then evaluated. Using this iterative technique, a set of sequences was produced.

Incidental Blending was picked as the preferred blending strategy during FY 1995. Therefore, it's effectiveness was evaluated using sequences generated to maximize HLW glass production. Since it performed well, it was used for all modeling cases this year.

Figure 1. Methodology.



[1]ARENA and SIMAN are trademarks of Systems Modeling Corporation.

[2]ASPEN is a trademark of Aspen Technology.

2.1 SEQUENCE GENERATION

Only the SST portion of the Retrieval Sequence was manipulated. Specification of the SST Retrieval Sequence requires providing the following information: tank name and the earliest date when that tank is available for retrieval.

2.1.1 Bounding Case Single-Shell Tank Sequences

The sequences developed for use as bounding cases were assembled using full or partial sorts or tank substitutions based on a subset of the following:

- Water insoluble chromium inventory
- Water insoluble phosphate inventory
- Chemical preliminary scoring index (PSI) developed by Pacific Northwest National Laboratory (PNNL) for fire/explosion scenario (risk related)
- Radionuclide PSI for fire/explosion scenario (risk related)
- Radionuclide fire/explosion risk developed by LANL.

2.1.2 General Single-Shell Tank Sequence Development

The SST retrieval sequences developed to determine the sequence selected as the Initial SST Retrieval Sequence were generated based upon the following bases.

1. The first four tanks assumed to be retrieved were the tanks tentatively selected for the Initial Single-Shell Tank Retrieval Project (ISSTRS) (Grenard 1996).

2. Tanks to be retrieved concurrent with privatization Phase I were constrained to the SE quadrant (A, AX, and C farms) and the SW quadrant (S, SX, and U farms). This is based on a recommendation in the *Initial SST Retrieval System - Preliminary Tank Selection* report (Grenard 1996). This will avoid the costs associated with construction of waste receiver facilities and major transfer lines necessary for retrieval of the northern quadrants.

3. The FY 1997 planning assumes that the M&I contractor will retrieve 35 tanks, including one complete farm, concurrent with privatization Phase I. This assumption is based on compliance with the retrieval Tri-Party Agreement target milestone October 2010 for which the M&I contractor will be responsible. Therefore, one of the goals is to initiate retrieval for 35 tanks, the requirement to initiate closure of an operable unit or tank farm by March 31, 2012. All subsequent tanks will be retrieved by private contractors as part of privatization Phase II.

   To achieve retrieval of 35 tanks without construction of additional tank space requires that the SSTs to be retrieved have small retrieval volumes. Therefore, the tanks to be retrieved during Phase I were also selected based upon the estimated cumulative solids retrieval volume and total retrieval volume.

4. The Phase II portions of the sequences were assembled using full or partial sorts or tank substitutions based on a subset of the following:

   - Chemical preliminary scoring index (PSI) developed by PNNL for fire/explosion scenario (risk related)
   - Radionuclide PSI for fire/explosion scenario (risk related)
   - Tank farm quadrant
   - Contribution to HLW glass batches limited in chromium
   - Contribution to HLW glass batches limited in phosphate

The sequences created as described above were used as input to the computer simulation models. The input sequence and the output (realized) sequence are not necessarily the same. Dates on the input sequence are considered as early start dates (the earliest possible date for starting retrieval of a particular tank). The date on which retrieval of a tank will begin is the early start date if space for retrieval is available and if the maximum number of tanks being simultaneously retrieved per quadrant will not be exceeded.

2.1.3 Double-Shell Tank Sequence

During Phase I, the HLW and LLW batches processed were taken from the LLW (Certa et al. 1996) and HLW (Manuel et al. 1996) feed staging studies for Phase I Privatization. This means that the DST sequence and dates for retrieval were specifically set to match the proposed Phase I baseline as it was set at the end of January 1996.

However, the rest of the DST portion of the retrieval sequence is less clearly defined. Other than Phase I processing, DSTs do not have clearly defined retrieval start and finish dates. Waste consolidation activities, reassignment of DSTs from storage to processing (e.g., enhanced sludge washing or lag storage), and transfer of other waste through partially full DSTs all blur the definition of DST retrieval. Consequently, DSTs are assigned an availability date, after which they may be emptied and used for their final purpose (e.g., processing, lag storage). The availability dates were held constant for all but special test cases. Waste from the DSTs is retrieved, blended, and processed on an as-needed, as-available basis.

3.0 SUMMARY OF RESULTS AND CONCLUSIONS

3.1 SUMMARY OF DIFFERENCES BETWEEN FISCAL YEAR 1995 AND FISCAL YEAR 1996 MODELS AND RESULTS

3.1.1 Model Differences

The main difference between the FY 1995 and FY 1996 models was incorporation of Phase I and Phase II privatization assumptions. These assumptions have very low rate low-level and high-level processing plants that operate during Phase I and large capacity plants that operate during Phase II. Since over 90 percent of the processing occurs during Phase II, the retrieval and processing rates must be large to be able to meet the existing retrieval end date milestone of September 30, 2018. (See appendices B and C for further details.)

3.1.2 Inventory Differences

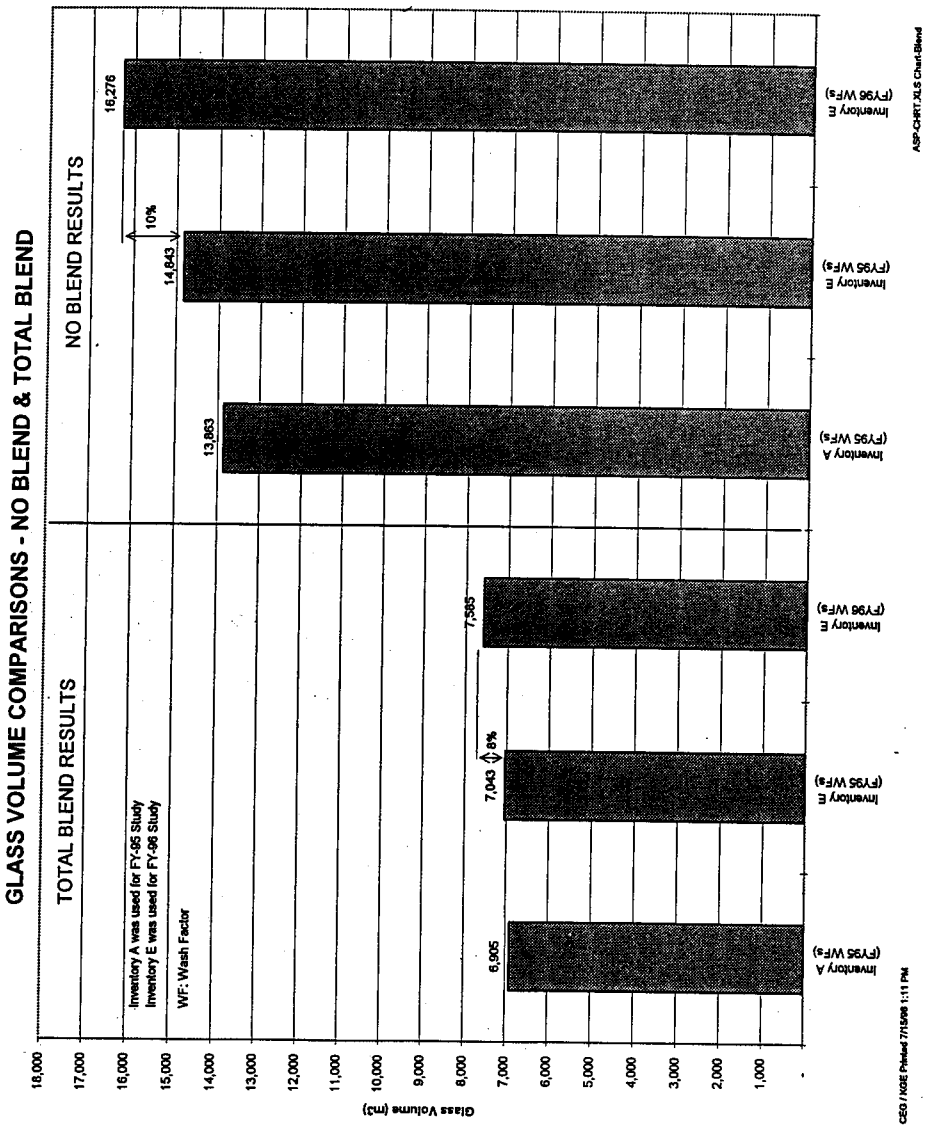
There is very little difference between the main components in the inventory used for FY 1995 (Inventory A) and the updated inventory used for FY 1996 (Inventory E). However, the changes in the estimated inventory do increase the estimated amount of HLW glass slightly. Figure 2 shows both the difference from inventory estimates and the difference caused by the switch to updated sludge wash factors.

The updated inventory had minor changes to the total inventory. Those changes resulted in a total blend HLW glass volume increase of 2 percent over the inventory used for the FY 1995 study. But, the no-blend HLW glass volume increased 7 percent over that associated with the FY 1995 study. The larger increase is because the components limiting HLW glass volume are estimated to be distributed less evenly in inventory E than they were estimated to be in the inventory used for the FY 1995 study, inventory A.

3.1.3 Sludge Wash Differences

The sludge wash factors and how they are incorporated have changed significantly between FY 1995 and FY 1996. Appendix C states the sludge wash assumptions for FY 1995 and FY 1996. Section B2.0 of Appendix B describes the modeled sludge wash process and how sludge wash factors were applied for both the FY 1995 and FY 1996 studies. The sludge wash factors came from the TWRS Process Flowsheet. The factors for the FY 1995 study were obtained from Orme (1994), and the factors for the FY 1995 study were taken from Orme (1995).

Figure 2. Glass Volume Comparisons--No-Blend and Total-Blend.



The main wash factor that had an effect on the HLW glass was the decrease in the chromium wash factor from 75 percent to 64 percent. This increased the number of batches that were at the chromium limit in the glass and increased the total HLW glass volume. Figure 2 shows a comparison between the total blend and no-blend estimated glass volumes using composition variation study (CVS) glass limits when FY 1995 and FY 1996 sludge wash factors are applied to the inventory used for this study. The change in sludge wash factors increased the estimated total blend glass volume by 8 percent and the estimated no-blend glass by 10 percent.

The change in sludge wash factors, mainly the decrease in chromium removal efficiency from 75 percent to 64 percent, increases the estimated HLW glass volume. It also increases the sensitivity of blending to chromium distribution.

3.1.4 Waste Retrieval Facility Changes

During the FY 1995 study, the model had four waste retrieval facilities (WRFs), one for each tank farm quadrant. This was changed for the FY 1996 study to be only two waste retrieval facilities. Based on the project W-320 design for retrieval of C-106, it was assumed that the tanks in the southeast (SE) and southwest (SW) quadrants would be retrieved directly to DSTs. This would eliminate the costs associated with construction of two waste retrieval facilities. (See Section 2.1.2 and appendices B and C for more details.)

It was further assumed that only the southeast and southwest quadrants would be retrieved during the Phase I portion of the retrieval. Constraint of Phase I retrieval to these two quadrants defers construction of the WRFs and transfers these costs to the private contractors that will perform the Phase II retrieval. This means that the blending of the batches retrieved during Phase I would have effects similar to that associated with quadrant blends for the SE and SW quadrants.

The change in sludge wash factors increased southeast quadrant blend HLW glass volume by 7 percent and the southwest quadrant blend by 40 percent. Since the tanks retrieved during Phase I were retrieved from the southeast and southwest quadrants, the HLW for that period approximated the quadrant blend for the southeast quadrant. Therefore, the change in waste retrieval facility assumptions had a significant impact on the HLW glass volume for all sequences using these quadrant restrictions.

3.1.5 Simultaneous Retrieval Changes

The maximum number of simultaneous retrievals was changed from two per quadrant (eight total) during FY 1995 to four per quadrant (16 total) for this study. It was assumed that maximum number per quadrant can be retrieved into the associated DST or one of the associated WRF tanks at the same time.

3.2 CONCLUSIONS

3.2.1 Retrieval Sequence

Sequence 1D1 was chosen as the initial SST retrieval sequence based on evaluation criteria and discussions presented in Section 4.0. Using base case assumptions, it did not meet the retrieval end date milestone (see Sections 3.2.6 and 4.1.2), but it performed better than other cases using baseline assumptions. It also did not meet the 15 percent of span measure of success for the HLW glass volume, but was at 18 percent of the total-blend/no-blend span when using baseline assumptions. (See Section 4.1.1 for more details.) Sequence 1D1 performed well with respect to the other measures-of-success, measures, and other evaluation criteria. It is also consistent with the tentative selection (circa June 1996) of the tanks selected for the Initial SST Retrieval System.

In comparison to the selected sequence from the FY 1995 study, at baseline conditions, the sequence this year finishes four months later (May 2020). This is because of the changes in timing associated with the incorporation of privatization. The selected sequence also had both a greater total HLW glass volume and was at a greater percent of span (18 versus 8 percent of the total/no-blend spans for the respective studies).

The following driver directly affects the viability of a retrieval sequence, and was one of the major assumptions used for setting up the retrieval model and sequences (see Appendix C).

- Select tanks that reduce capital cost outlays during the early years. This suggests that tanks from the southeast and southwest quadrants should be given preference due to the shorter transfer lines and the possibility of avoiding waste receiver facility costs. See Sections 2.1.2, 4.2.3, and Appendix C for discussion of facility requirements and cost data. Also, see Section 3.4.1 for recommendations associated with waste receiver facilities.

The following additional retrieval sequence drivers were determined or verified, and used for sequence generation. These drivers were used to a greater or lessor extent for all simulations other than bounding cases. The emphasis placed upon each of these drivers was balanced against the other drivers as they impacted achieving a certain goal.

- Select SSTs that contain small amounts of insoluble (after water and caustic washing) solids and small amounts of total retrieved waste for retrieval during the Phase I privatization period. This minimizes the downtime associated with the solids storage space, decreasing the problems encountered with LLW plant shutdown, and decreasing the capacity of the LLW plant needed to meet the retrieval milestone. A desirable secondary effect is that it also decreases the number of sluicers needed by maximizing the number of tanks retrieved during Phase I.

- Try to place the higher risk tanks near the front of the sequence. However during the Phase I privatization period, retrieval was restricted to tanks from the southeast (A/AX/C) and southwest (S/SX/U) quadrants and on retrieving tanks with small retrieval volumes.

- Space out tanks containing higher amounts of chromium or phosphate (also used during FY 1995).

3.2.2 Blending Strategy

During FY 1995, Incidental Blending was shown to be very effective at reducing HLW glass volumes (Certa 1995b). Since it is a form of undirected blending, it is indiscriminate; there is no precise control over blending. Small changes early in the sequence significantly affect the fraction of waste in a batch contributed from each tank.

Incidental Blending was used for the modeling work this year. Although this blending strategy reduced the HLW volume greatly, it did not have as great an impact on the HLW glass volume because the assumptions caused the batches of solids to the HLW glass plant to be smaller, and because more batches are limited by chromium content with the sludge wash factors used for the FY 1996 studies than with the factors used for the FY 1995 studies. (See the discussion in Sections 4.2.1, 4.7, and Appendix C.)

3.2.3 Sludge Wash and Waste Transfer Dynamics

The studies during FY 1995 determined that the model results are extremely sensitive to the assumed level of decant in the HLW staging tanks and underlying assumptions about the feasibility of reaching such high levels of sludge compression. Those conclusions were confirmed during the FY 1996 studies.

The sensitivity to the level of decant is important because better blending is obtained, and decreased HLW glass volumes are generated with the larger batches of HLW solids that can be obtained with greater levels of decant, and transfer of solids at greater concentrations.

During the FY 1995 study, the waste was simply diluted 1:1 on a volume basis at the end of sludge washing for transfer that resulted in waste being transferred at approximately 14 wt% solids. However, this year the waste dilution was modeled such that the solids in liquid being transferred was limited to 10 wt%. This increased the number of batches of HLW sent to the HLW glass plant, and decreased the blending, thereby increasing the glass volume.

3.2.4 Sludge Wash Factors

As demonstrated in Section 3.1.3, the change in estimated sludge wash factors from that used for the FY 1995 study, significantly affects the HLW glass volume. These results confirmed a statement from the FY 1995 report (Certa 1995b) that the model results would probably be sensitive to sludge wash factors.

The comparison for the total blend and no-blend glass volumes is not dependent upon the blending associated with tank space. Therefore, the differences in glass volumes associated with sludge wash factors is simply associated with differences in the amount of each component in the waste. As was discussed in Section 3.1.3 and shown in Figure 2, that difference can cause a significant change in HLW glass volume.

The accuracy of the wash factors is not currently well defined. The wash factors are being updated as further sludge wash studies are completed. Therefore, this is a high risk factor with regard to process rates and costs associated with HLW glass production and storage.

3.2.5 Processing End Dates for Low-Level Waste and High-Level Waste

All sequences met the recently updated LLW processing Tri-Party Agreement milestone (M-60-00) for completion of processing by December 31, 2024, and the HLW milestone (M-51-00) for completion of processing by December 31, 2028. These milestones can be met with facilities that process waste at the baseline process rates assumed for this study. Those rates and assumptions are given in Appendix C.

3.2.6 Single-Shell Tank Retrieval Completion Date

None of the SST retrieval sequences run at the baseline conditions (see Appendix C) met the September 30, 2018, Tri-Party Agreement milestone (M-45-05) for completing retrieval of all SSTs. If in-tank sludge washing is used, it is the limiting factor because of the time needed to settle the solids after each wash. If out-of-tank sludge washing is used at baseline process rates, the process rates combined with the lack of solids storage space cause the milestone to be missed.

There appear to be two general methods to achieve the retrieval completion date without construction of more HLW storage tanks. The rates for both LLW and HLW processing can be increased significantly above the baseline rates. Or, the HLW and LLW processing rates can be increased a smaller amount if the HLW start date is moved forward by one year, to October 2012. These results are discussed in greater detail in Section 4.1.2.

There is significant risk associated with using the very high processing and retrieval rates required to meet the retrieval completion milestone. The lack of contingency in the associated schedule and the high number of simultaneous transfers needed will make achieving the retrieval milestone extremely difficult. Any significant delays would result in the retrieval milestone being missed.

3.2.7 Retrieval End Date Versus Low-Level Waste and High-Level Waste Processing End Dates

There are many factors that affect the retrieval end date. The LLW and HLW processing rates both influence completion of SST retrieval. That is because both the LLW and HLW processing rates affect the amount of free space in the DSTs. (The assumption is that no additional storage tanks will be constructed.)

However, other factors also affect retrieval completion. During this study, a comparison of two of the cases with identical assumptions (cases 240 and 243), but with different sequences showed that the LLW process end dates can be within 60 days of each other, and the HLW process end dates can be within 70 days of each other, but the retrieval end date can have a much greater variation of at least 200 days.

This difference appears to be caused by a backlog of larger SSTs near the end of SST retrieval for which retrieval starts late due to quadrant sequencing. Therefore, care must be taken to ensure that sequencing of larger SSTs in a quadrant does not delay completion of SST retrieval.

3.3 COMPARISON TO FISCAL YEAR 1995 CONCLUSIONS

The conclusions from this study are similar to those from the FY 1995 study. (Certa 1995b) Discussion of each of these conclusions is found elsewhere in this document. The key similarities are:

- Incidental Blending performed well. Therefore, it continues to be the preferred method of blending.
- HLW glass volumes are relatively insensitive to slight variations in the order of tank retrieval.
- The September 30, 2018 Tri-Party Agreement milestone (M-45-05) for completing retrieval of all SSTs cannot be met using in-tank sludge washing.
- Relative tank storage risk is more sensitive to rate of retrieval than to small variations in the retrieval sequence.

3.4 RECOMMENDATIONS

3.4.1 Waste Receiver Facilities

The decision of whether waste receiver facilities for retrieval of the waste from the tanks in the southeast and southwest quadrants had not been finalized. The requirements to allow the decision need to be generated and the subsequent decision should be formalized to allow proper modeling of the retrieval sequence work, and to allow any required projects to be initiated.

3.4.2 Simultaneous Retrievals Per Quadrant

Using the baseline assumption of four simultaneous retrievals per quadrant (16 total), the maximum number of chemical additions, tank-to-tank transfers, and tank to processing facility transfers occurring during the same day are 14. This number of transfers includes both transfers that take place over a few hours and transfers that take several days to complete. The 16 sluicing operations plus 14 transfers occurring at the same time means that 46 lines in the tank farms would be transferring liquid at the same time during the peak transfer period. It is highly unlikely that the needed scale of operations to support 16 simultaneous retrievals will be possible. Therefore, the maximum number of simultaneous retrievals per quadrant that are feasible for SST retrieval needs to be evaluated as part of alternate retrieval technology evaluations.

3.4.3 Double-Shell Tank Sequence Integration

Several of the DSTs are high in components that will cause HLW glass batches with high glass volumes if the waste is not split so that it goes into several batches. The current model does not split waste from DSTs up to provide certain amounts into certain batches. Incorporation of that concept would be valuable to model for future work. That would allow certain volumes of waste from DSTs to be blended into various batches of HLW. This blending method is a form of "blending during enhanced sludge washing" called "metered blending" in the report for the FY 1995 study (Certa 1995b).

3.4.4 Double-Shell Tanks for Washed Solids Storage

As discussed in Section 4.6, the ability to transition use of three additional tanks for solids storage during Phase II out-of-tank sludge washing provides additional washed solids storage space required to minimize Phase II LLW plant shutdowns. It can also minimize or avoid retrieval shutdown while waiting for the Phase II HLW processing plant to start up. However, modeling of the transition is difficult to optimize. Therefore, it is recommended that effort be placed on optimizing the transition to determine if the LLW and retrieval

shutdown during Phase II before the HLW plant startup.

It is also recommended that the ability to use DSTs other than aging waste tanks for storing solids during Phase II privatization be verified, and a formally documented.

3.4.5 Feasibility of Meeting Proposed Retrieval and Processing Rates

The feasibility of meeting the retrieval rates (including the number of simultaneous retrievals that are required by the update from FY 1995 to FY 1996 baseline assumptions has not been evaluated in detail, and is outside the scope of this study. However, the model was used to determine what type of retrieval and processing rates would be required to meet the Tri-Party Agreement milestone for retrieval. The model output gives information that can be used for a general evaluation of the feasibility of being able to retrieve and process at those rates.

Figure 3 provides a comparison of the selected sequence from FY 1995 and the selected sequence from this study. As can be seen, even at baseline conditions, the retrieval rate for this study is significantly greater than the retrieval rate from FY 1995. Table 2 provides the retrieval rates for the time stated for each of the cases shown on Figure 3. If the retrieval milestone is to be met, the retrieval rate for Phase II must be approximately two times the rate used during FY 1995. The high retrieval rate is needed because approximately 92 percent of the waste is retrieved after 2011 versus about 64 percent for the FY 1995 study.

Table 2. Retrieval Rates.

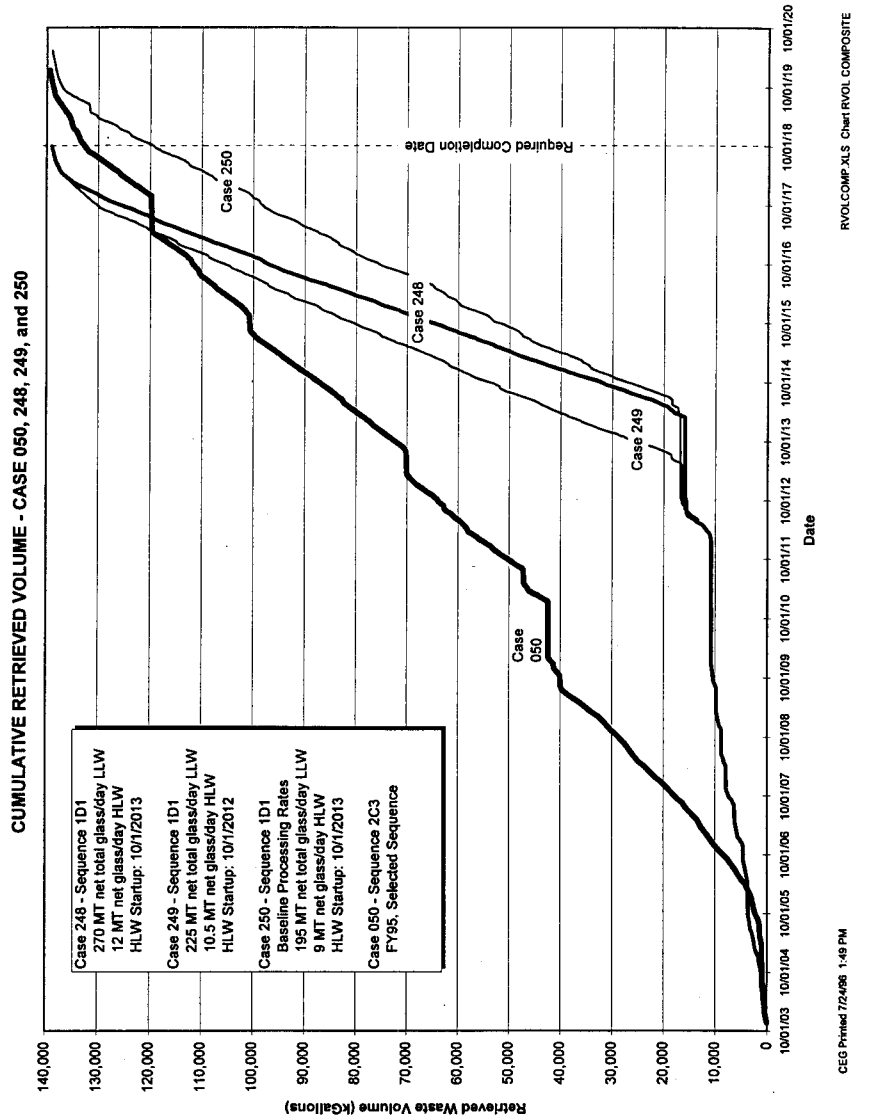
Sequence	Case	Average annual retrieval rate in Mgal/yr	Time period averaged[a]	
2C3	50[b]	15.5	8/30/2013	6/21/2015
1D1	248[c]	31.1	10/4/1014	10/8/2017
1D1	249[c]	26.2	10/9/2013	10/8/2017
1D1	250[c]	23.1	10/4/2014	10/3/2018

[a]For case 50, the time period averaged was the peak average rate. The time periods averaged for Sequence 1D1, cases 248, 249, and 250 was selected as a time when retrieval appears to be approximately steady throughout the time period.

[b]Sequence 2C3 Case 50 was the selected sequence for the FY 1995 study. Two simultaneous retrievals were assumed. (See Appendix B for a description of the differences in simultaneous retrievals for FY 1995 and FY 1996 studies).

[c]Four simultaneous retrievals were assumed. See Figure 3 for the processing rates.

Figure 3. Cumulative Retrieval Comparisons.



The complexity of tank farm operations involving up to 46 lines simultaneously transferring liquid at the same time, and retrieval rates up to 32 Mgal per year are an unprecedented scale for continuous operation at the Hanford Site.

The FY 1996 baseline HLW and LLW process rate assumptions must be increased to meet the September 30, 2018, Tri-Party Agreement milestone for completion of single-shell tank retrieval. The ability to operate at and support these processing rates is highly unlikely. To put the size of the HLW plant in perspective, the HLW plant would need to operate at approximately 12 MT/day, which is 4.8 times the design capacity of Defense Waste Processing Facility at Savannah River, and approximately 1.5 times the combined design capacity of all the existing HLW plants in the world (approximately 8.8 MT/day). The LLW processing rate as shown in the table below would need to be similar to a moderate size industrial glass plant. Extensive material handling capabilities would be required as approximately one container (assuming 10 MT/container) of LLW glass would be produced each hour.

3.4.6 Measures for Fiscal Year 1997 Retrieval Studies

During this study, the number of tank farms simultaneously retrieved was nondiscriminatory. Therefore, it should not be used as a separate evaluation criterion next year.

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4.0 DISCUSSION OF RESULTS

The decision analysis frame established in Penwell (1996) was used as the framework for comparison of alternative retrieval sequences on a uniform basis. Part of the framework includes measures, measures-of-success, and other metrics.

Unless stated otherwise, the measures, measures-of-success, and other metrics are based on simulation runs corresponding to the "base case" operating point (i.e., the set of assumptions used for this study). The base case operating point definition requires more extensive assumptions (see Appendix C) than the TWRS Baseline.

4.1 MEASURES OF SUCCESS

Measures of success are a defined go/no-go type of criteria for evaluation of the results of a study. If the results of a simulation do not meet the measure of success, the sequence with its associated assumptions is considered a failure, and is not acceptable. The decision frame for this study (Penwell 1996) designated several measures of success:

- The volume of immobilized HLW glass will be no more than the volume of the Total Blend case plus 15 percent of the span between the Total Blend and No Blend volumes.
- The SST retrieval completion will meet the December 31, 2018, Tri-Party Agreement Milestone M-45-05.
- The HLW process completion will meet the December 31, 2028, Tri-Party Agreement Milestone M-51-00.
- The LLW process completion will meet the December 31, 2024, Tri-Party Agreement Milestone M-60-00.

4.1.1 Glass Volume

The immobilized HLW glass volume is bounded by the Total Blend and No Blend cases. The Total Blend and No Blend values are a function of tank-by-tank waste inventory, HLW glass limits, and flowsheet assumptions (e.g., water and caustic wash factors). The values are independent of the retrieval sequence and blending strategy.

As discussed in Sections 3.1.2 and 3.1.3, and shown in Figure 2, the Total Blend and No Blend case HLW glass volumes for Inventory E, glass limits, and flowsheet assumptions used in this study were 7,585 m^3 and 16,276 m^3, respectively. The new sludge wash factors increased the total blend HLW glass volume by 8 percent and the no-blend HLW glass volume by 10 percent when compared to Inventory E with the FY 1995 sludge wash factors.

Figure 4 shows the estimated immobilized HLW glass volume for representative cases. The cases in the figure represent both in-tank, and in-facility sludge washing, and cases used to determine approximate LLW and HLW processing rates needed for achieving the retrieval completion Tri-Party Agreement milestone. Figure 5 displays the data shown on Figure 4 on a percent-of-span basis, where 0 percent corresponds to the Total Blend case and 100 percent corresponds to the No Blend case. The measure-of-success was that the HLW glass volume would be 15 percent or less of the span greater than the total blend volume. This corresponds to 8,889 m^3.

Sequence HG1 (cases 213 and 214) was tailored to produce a large glass volume by grouping all of the tanks containing large amounts of water-insoluble chromium (Cr) at the front of the sequence and all of the tanks containing large amounts of water-insoluble phosphorous (P) at the end. This sequence, using in-tank sludge washing and incidental blending (Case 213 on Figure 4), produced the highest glass volume seen in this study (12,468 m^3 or 56 percent of span).

The case developed for high glass volume during FY 1995 produced a greater percent reduction from the no-blend case than the high glass case this year (47 percent versus 56 percent of span). This is caused by several factors. Chromium content in the feed to the high-level glass plant and the HLW feed batch size are the factors that have the greatest impact on the HLW glass volume. The sludge wash factor change for chromium leaves more chromium in all of the feed batches to the HLW glass plant, the chromium portion of the inventory is estimated to be less evenly distributed than in the inventory used for the FY 1995 study. And, the decrease in feed batch size (see Appendix B) work together, decreasing the effectiveness of blending.

Although the impact of blending with the high glass case is less than during FY 1995, the conclusion that "the Incidental Blend strategy can provide significant reduction in glass volume relative to the No Blend case, even if the sequence is poor" (Certa 1995b) is still valid.

Figure 4. High-Level Waste Glass Volume Summary--Cubic Meters.

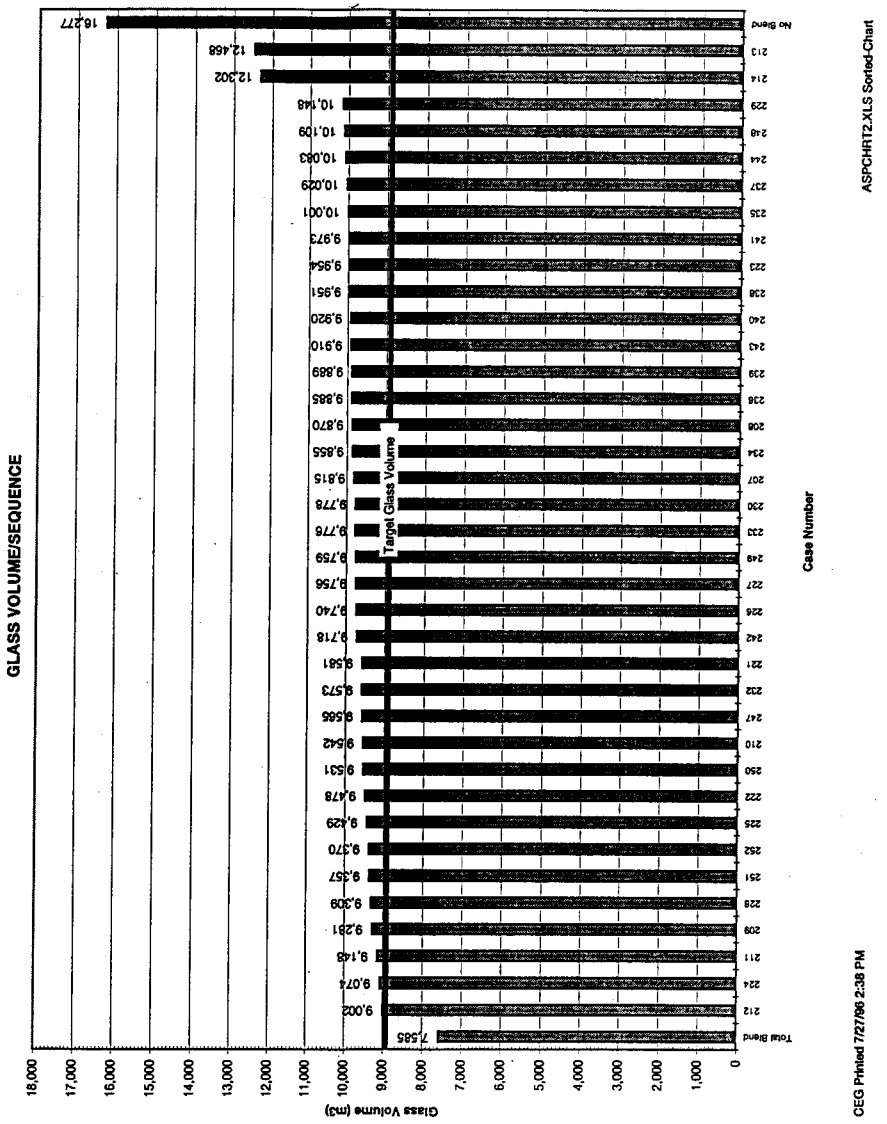
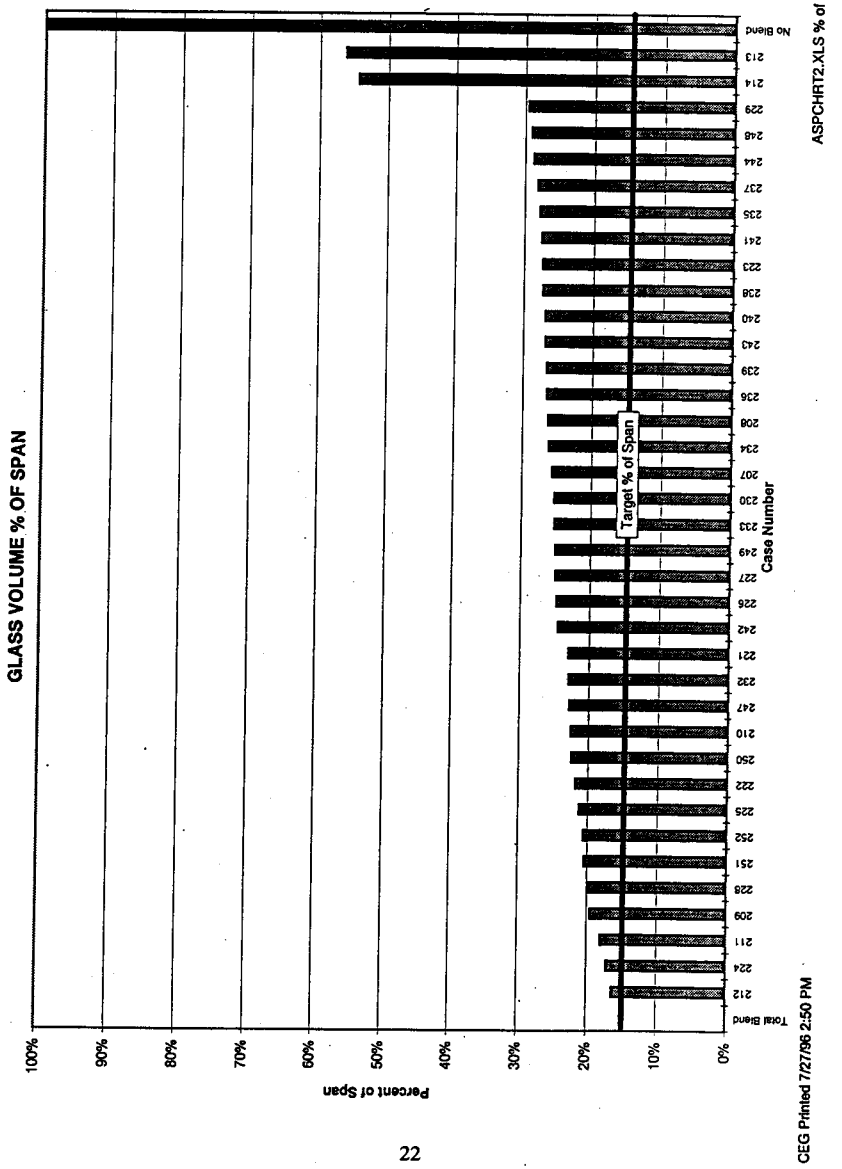


Figure 5. High-Level Waste Glass Volume Summary--Percent of Span.



The major factors contributing to the uncertainty in the glass volume are the estimated waste tank inventory and distribution, the flowsheet assumptions (i.e., efficiency of water wash and caustic leach), and the glass specifications. There are significant uncertainties remaining in the waste inventory, and in the distribution of it. The WHC TWRS Disposal Engineering group is developing an updated comprehensive best estimate inventory, which will be used for future retrieval studies after it has been developed. Both the updated inventory and updated sludge wash factors are being developed based upon the latest tank data. These uncertainties imply that the glass volume estimates are relative estimates subject to large uncertainties.

4.1.2 Completion Variances

Figure 6 compares the estimated SST retrieval completion dates as well as HLW and LLW Process Completion dates with the corresponding Tri-Party Agreement milestone dates and the measure-of-success for selected cases.

For all cases, the LLW and HLW vitrification were completed before the Tri-Party Agreement milestone dates of December 31, 2024, and December 31, 2028, respectively. Therefore, these measures-of-success were nondiscriminatory with regard to the sequences tested.

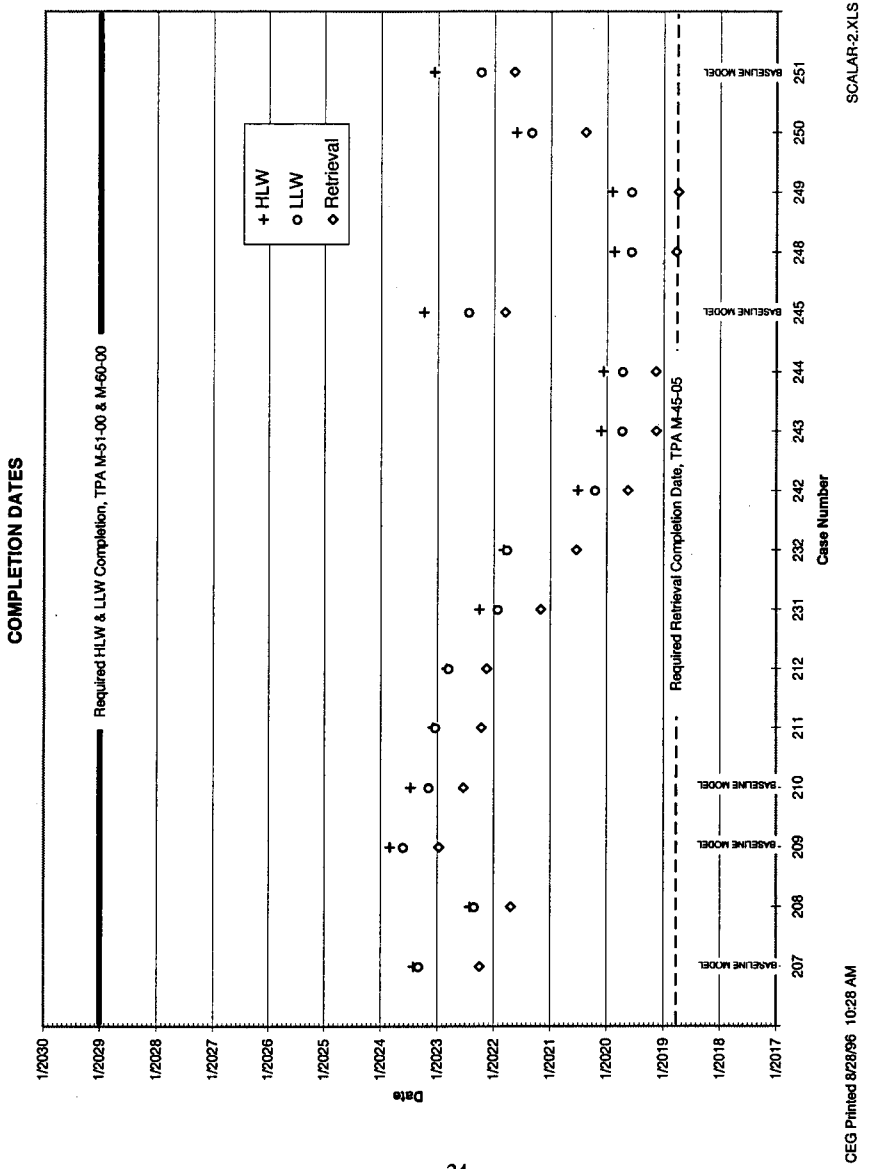
However, none of the baseline cases, met the SST retrieval completion milestone (M-45-05). Therefore, several cases were run to determine estimated retrieval rates and processing rates for meeting the retrieval milestone.

The rate limiting factors, such as retrieval, LLW processing, or HLW processing, are not easily determinable because of the system complexity and the dynamic interaction of the various components of the system. Therefore, the component rate changes are made on component at a time. The results are evaluated, and new rates for that, or another component tried.

In all cases, the Phase I baseline (see Appendices B and C) was used. Two different methods of achieving the retrieval completion milestone were determined. However, the feasibility of achieving those operating parameters has not been verified. They are described below.

In addition, even if the operating parameters described below can be achieved, the is a significant risk that continual support to meet those parameters will not be possible. The problems associated with trying to meet the retrieval rates and simultaneous transfers are discussed in many sections throughout this document.

Figure 6. Retrieval and Process Completion Variances.



Method 1

The net LLW processing rate was increased to 270 MT of glass/plant/day at a 20 wt% sodium oxide. The net HLW processing rate was increased to 12 MT glass/day (3 MT waste oxides exclusive of Na and Si/day).

Method 2

In all of the cases using standard Phase II plant startup timing, the LLW processing process started up and operated for approximately 6 months to a year, then retrieval and LLW processing shut down because the space allotted for solids storage was full. Retrieval and LLW processing remained down until Phase II HLW started processing. They restarted when the HLW plant generated space to put solids obtained during SST retrieval. Therefore, cases were run to determine the impact of starting up the HLW plant one year earlier, on October 1, 2012. This improved the retrieval completion date. But, LLW and HLW processing rates still needed to be increased so that the retrieval completion milestone could be met. The LLW processing rate was increased to 225 MT of glass/plant/day at a 20 wt% sodium oxide. The net HLW processing rate was increased to 10.5 MT glass/day (2.6 MT waste oxides exclusive of Na and Si/day).

4.2 MEASURES

4.2.1 Number of Tanks Being Retrieved

The number of tanks being simultaneously retrieved is related to the complexity of tank farm logistics and operations. The Phase I and Phase II assumptions for simultaneous retrievals are listed in Table 3.

Table 3. Phase I and Phase II Assumptions for Simultaneous Retrievals.

Assumption	Phase I	Phase II
Quadrants to be retrieved	SE/SW	SE/SW NE/NW
Maximum number of tanks simultaneously retrieved per quadrant	2	4
Minimum number of tanks simultaneously retrieved per quadrant	0	0

During FY 1995, two simultaneous retrievals per quadrant was modeled as no more than one SST being retrieved into a single WRF tank at a time and no more than two tanks in a quadrant being retrieved during the same time period. The SST that was being retrieved into a given tank to switch every 94.5 m^3 (25,000 gal) to improve blending.

For the FY 1996 studies, several cases were run using the same retrieval and blending pattern, but allowing up to four SSTs in a quadrant to be retrieved during the same time period. When that pattern limited the ability to increase retrieval and meet the retrieval completion milestone, the model was switched to allow up to four SSTs to be simultaneously retrieved into a single tank. See Appendices B and C for more information on the assumptions and modeling of the SST retrieval.

This measure for retrieval complexity is plotted for the selected sequence 1D1 (Case 250) in Figure 7.

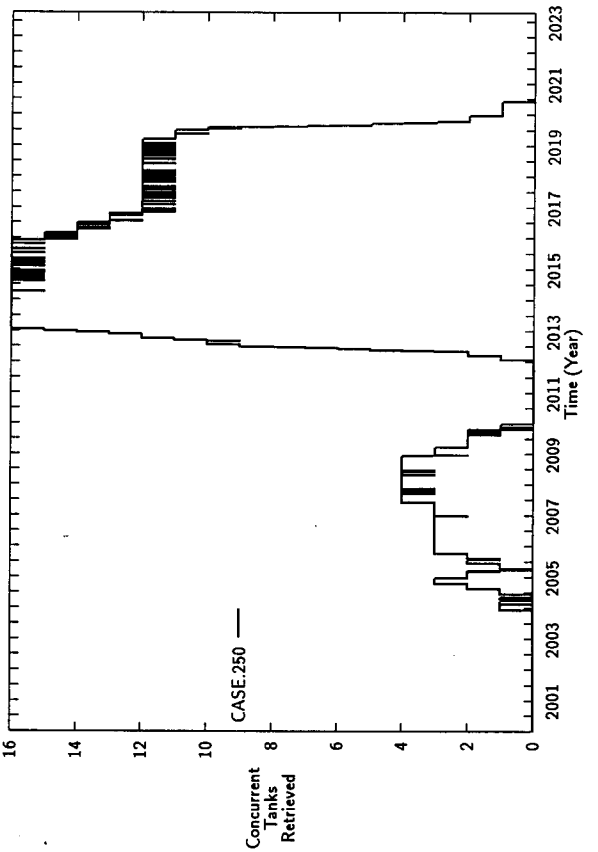
4.2.2 Relative Risk

The relative risk for interim storage of the waste in the tanks was estimated using two different methods. The method using PNL risk ranking was retained for this year as a comparison. However, the method using LANL risk ranking was added because it was based upon later inventory data. Both methods are based upon inventory data that are older than the actual chemical inventory used for this study. The methods used are described and the results given in the subsections below.

4.2.2.1 PNL Risk Ranking. The WHC Integrated Risk Assessment Program has prepared a draft report presenting the results of "applying a Preliminary Aggregate Scoring System to public health concerns for most of the individual components of the five major Hanford program areas" (Mahaffey et al. 1994). Mahaffey et al. (1994) qualitatively group individual tanks according to the risk presented by several scenarios as measured by the preliminary aggregate score (PAS). The PAS is the log of the PSI, which is roughly proportional to the annual risk for a given scenario. The PASs for the radionuclide and the chemical inventory are provided for both a fire/explosion pathway and a groundwater pathway (a total of four scenarios). The PASs (or PSIs) for different scenarios cannot be directly compared.

The relative risk measures were intended to estimate the cumulative risk of continued waste storage. Waste (from an SST or DST) is assumed to contribute to the relative risk until treatment (vitrification) is complete. The waste from a given tank was assumed to present a constant risk (the PSI was prorated according to the fraction of the waste remaining) until vitrified as HLW or LLW. The normalization date was changed to September 31, 2028, to correspond with the Tri-Party Agreement milestone for completion of waste processing. This is the same method used to estimate relative risk during retrieval and blending studies done during FY 1995.

Figure 7. Concurrent Retrieval of Single-Shell Tanks--(Sequence 1D1 case 250).



The risk of continued storage for alternative sequences cannot be compared with acceptable levels of risk for the overall TWRS mission using these measures.

Figures 8 and Figure 9 show the relative risk for selected sequences for the radionuclide and chemical inventories. Sequence PB1 (Case 215) was constructed to yield high relative risks for both chemical and radionuclide inventories. Sequence PR1 (Case 217) was constructed to yield low relative risk for the radionuclide inventory, and sequence PC1 (Case 216) was constructed to yield low relative risk for the chemical inventory.

The total relative risk range was about 10 percent of max for radiological risk and 16 percent of maximum for chemical risk. The relative risk for the FY 1996 selected sequence 1D1 using baseline assumptions was midway between the best and worst relative radiological risk, and was toward the upper end of the span of chemical risk. However, with most of the waste being retrieved within a 7 year period, the differences in relative risk between sequences is minimal. All of the numbers are greater than in the FY 1995 study because retrieval of most of the waste is delayed. (The amount of waste processed during Phase I is only about 10 percent of the total waste. Figure 3 shows that about 90 percent of the waste is processed during Phase II versus about 64 percent during the FY 1995 study.)

The uncertainty in relative risk has not been rigorously estimated. However, the contribution to the uncertainly due to not being able to adhere to the selected sequence does not appear to be significant. This observation is based on the degree of "scrambling" caused by the model changing order to allow maximum continuation of retrieval as process rates are increased. However, significant delay in the retrieval of the tanks with high PSI values will increase the relative risk.

4.2.2.2 Los Alamos National Laboratory Radiological Risk. A comprehensive probabilistic safety assessment (PSA) for the continued storage of radioactive waste (i.e., interim storage risk) in each storage tank at Hanford was performed by Los Alamos National Laboratory (LANL) and PLG, Inc. (MacFarlane 1995). This assessment evaluated the probability of potential accident scenarios, including external events, and the resultant radiation exposure to the public and onsite workers. Source term data used for the PSA came from the *Hanford Site Tank Farm Facilities Interim Safety Basis* (WHC 1993) and the *Historical Tank Content Estimate for the Northeast Quadrant of the Hanford 200 East Area* (WHC 1994a) and *Historical Tank Content Estimate for the Southwest Quadrant of the Hanford 200 East Area* (WHC 1994b) with decay corrections to March 1994.

Figure 8. Relative Risk: Fire/Explosion -- Chemical.

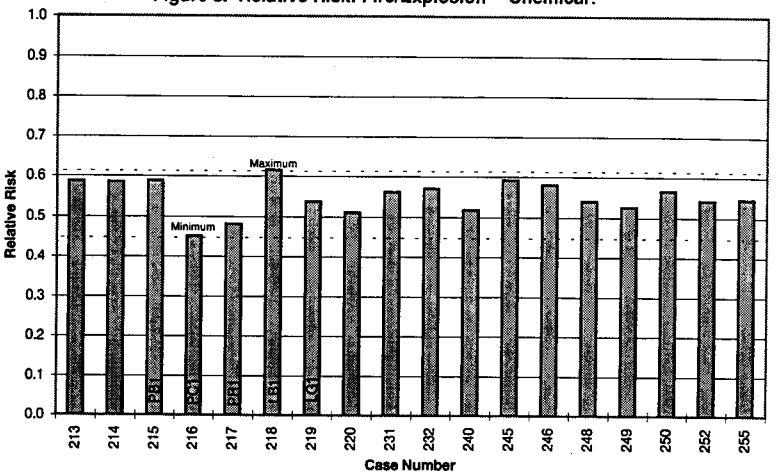
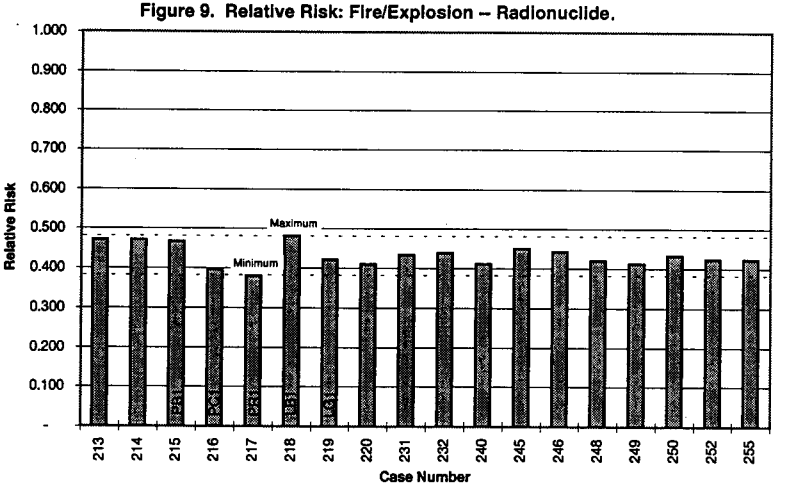


Figure 9. Relative Risk: Fire/Explosion -- Radionuclide.



The offsite health risk estimated by the LANL PSA for continued storage of the waste in each SST is listed in Appendix F. These data were used to calculate a total off-site interim storage risk for each retrieval case. For these calculations, it was assumed that the interim storage risk goes to zero as the corresponding fractions of SST and DST waste are immobilized in glass. It is recognized that the residual storage risk associated with the retrieved waste will be time or situation dependent. The maximum possible risk is calculated by assuming that all of the waste remains in the tanks until December 31, 2028, and is retrieved and processed on that date. At the present time, no methodology has been accepted for determining the residual risk. Assuming that the residual risk is weight proportional to the interim storage risk is acceptable for the comparative purpose of this study. Future safety analyses, however, may need to develop a methodology to account for the residual risk after retrieval. (Note: Estimating risk for SST waste between the time it is retrieved and the time it is processed will be very difficult. Portions of the waste are retrieved into various DSTs and blended with waste from other SSTs. Also, there are heels remaining in the DSTs after transfers, which are complicated mixtures of all the wastes that have been in that DST.)

The interim storage risk for selected cases is shown in Figure 10. The best case sequence (LG1), case 219, was generated by sorting the tanks to retrieve tanks with the highest interim storage risk first. Sequence LB1, Case 218, was designed for bad risk, and had a relative risk of 56 percent of the risk from storing the waste until December 31, 2028. Sequence LG1, Case 219, was designed for good risk, and had a relative risk of 49 percent of the risk from storing the waste until December 31, 2028. It was ordered based upon the risk ranking developed by LANL. However, it did not perform as well as several other sequences that were able to retrieve more tanks sooner. The selected sequence at baseline rates (case 250) had a relative risk of 45 percent of the maximum. The rate of retrieval appears have more impact on the interim storage risk than minor changes to the sequence in which the tanks are retrieved.

The interim storage risk for selected cases is shown in Figure 10.

4.2.3 Capital Cost Profile

"Capital" cost profiles were calculated for each retrieval sequence. For this discussion, "capital" costs are the costs associated with the design, procurement, fabrication/construction, and installation of sluicing systems, waste receiver facilities (WRFs), and major pipelines. Determination of the procurement strategies for these systems and equipment is outside the scope of this study.

The profiles were constructed using the estimated procurement of a new sluicing system, installation of a sluicing system into the tank, and retrieval annex and pipeline construction costs (Table 4). The costs were based on data from the W-320 project and are for comparison purposes only. Official cost estimates will be prepared during the project conceptual design.

Figure 10. Relative Risk: LANL Radiological.

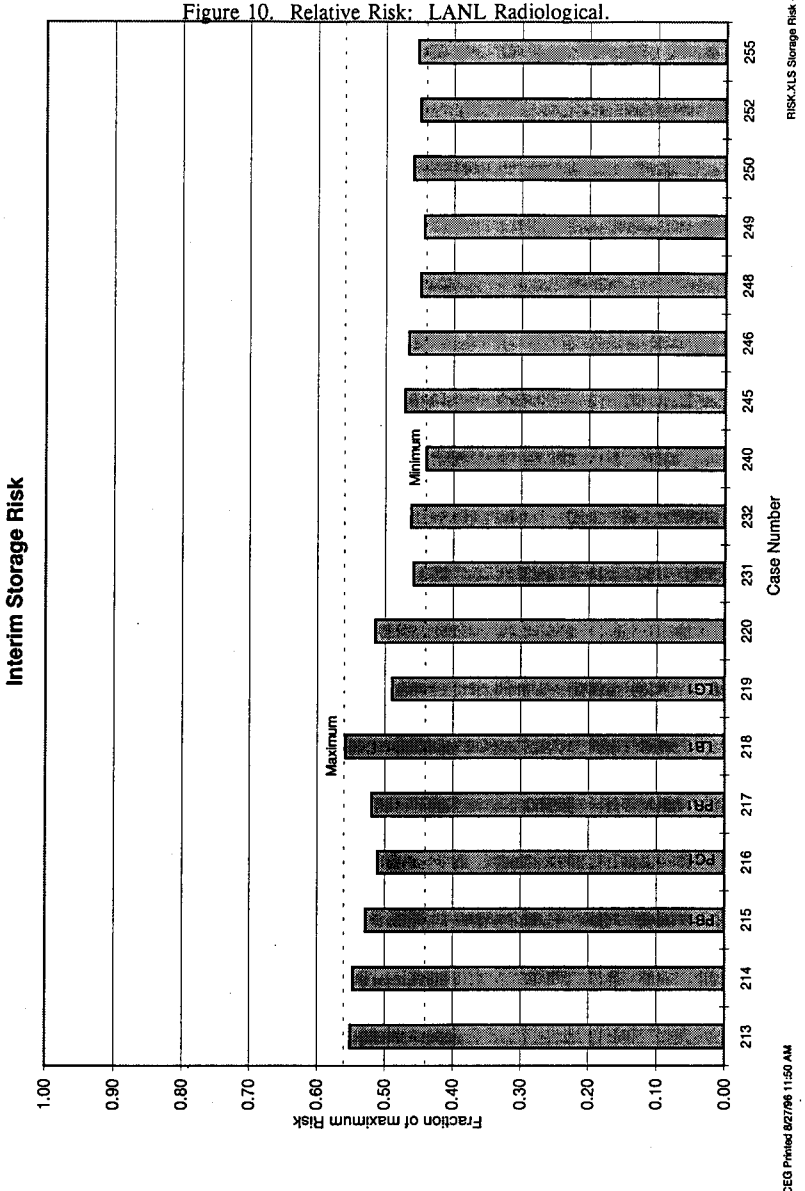


Table 4. Estimated Capital Costs.

"Capital" cost element	Cost ($ millions)	Total ($ millions)
Sluicing Systems (N systems)	$15 each	$15 * N
Sluicer Installation (148 each)	$5 each	$740
Waste Receiver Facility (NE and NW quad.)	$35 each	$70
Pipeline - NW quadrant to SY farm	$30	$30
Pipeline - NE quadrant to A farm complex	$20	$20
Total "capital" cost		$ 860 + (N * $15)

Total capital cost was not a discriminator in this study because it only varied approximately 6 percent. Because of the restrictions placed upon when the WRFs come online, the capital cost profiles are also similar although the timing for the later peaks varies.

The only change in total "capital" cost from last year is due to a reduction in the number of WRFs. Last year's model assumed four WRFs (one for every quadrant) would be required. This year's model reduced this to two. It was assumed that tanks in the SE and SW quadrants (i.e., the A, AX, C, S, SX, and U tank farms) could be retrieved directly to a nearby DST.

Each annex must begin hot operation when retrieval of the first tank in the quadrant supported by that annex is initiated. Capital costs will be allocated over the 7 years before operation of each project. The allocations will be based on the following schedule:

- 1 to 3 years prior: 22 percent per year
- 4 to 5 years prior: 10 percent per year
- 6 to 7 years prior: 7 percent per year.

It is assumed that sluicing systems will be reused. A new sluicer will cost $15 million, and the costs will be allocated over the 7 years before operation (see above schedule). New sluicing systems will be purchased as needed. Existing sluicers are available for reuse one year after its current tank has been emptied. One year is allocated for removal, maintenance, and installation of the sluicer.

In the context of this study, the total capital cost is dependent only on the number of sluicers required (each additional sluicer adds $15 million to the total cost). The cost ranges from $1,085 million for 15 sluicers, to $1,145 million for 19 sluicers. A single case was run assuming two simultaneous retrievals. The case used 10 sluicers and cost $1,010 million.

Figure 11 shows the cost profile for the selected sequence at the baseline rates (Case 250). The cost spike around 2010 is for the WRFs, major pipelines, and sluicing systems for the beginning of Phase II retrieval activities. Figure 12 shows the cost profile for the selected sequence at the faster processing rates needed to meet the retrieval milestone. It has an additional cost spike in 2017 associated with sluicer installation.

4.2.4 Single-Shell Tank Retrieval Schedule and Milestones

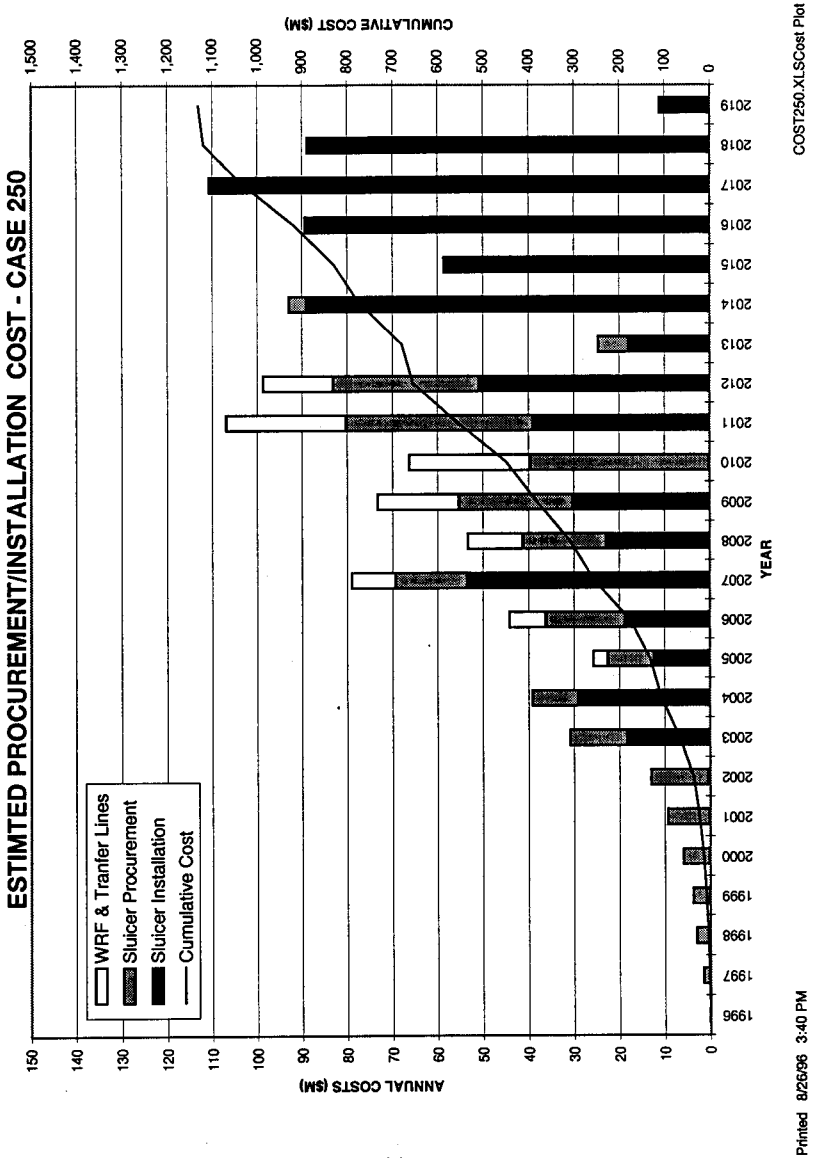
Tri-Party Agreement Milestones M-45-05-T01 through M-45-05-T15 specify the number of SSTs (additional) for which retrieval must be initiated. An SST retrieval schedule (not sequence) can be derived from these and other milestones (M-45-03-T01, M-45-03-T02, and M-45-03A related to demonstrating SST retrieval technology and tank 241-C-106). The schedule derived from Tri-Party Agreement retrieval milestones was considered tradeable and was not used as a modeling constraint.

Figure 13 corresponds to the selected sequence 1D1 at the baseline rates (Case 250). SST Retrieval during Phase I privatization meets the Tri-Party Agreement schedule of 35 tanks to be retrieved during that time period. However, the amount of space in the DSTs available for retrieval of SST waste during the Phase I time frame restricts that total amount of waste that can be retrieved during Phase I. Ramp-up of plants was not assumed.

Figure 14 corresponds to the selected sequence 1D1 at a Phase II net LLW processing rate of 270 MT glass/day and a net HLW processing rate of 12 MT glass/day (Case 248). Figure 15 corresponds to the selected sequence 1D1 at a Phase II net LLW processing rate of 225 MT glass/day, HLW plant Phase II startup one year early (October 1, 2012), and a net HLW processing rate of 10.5 MT glass/day (Case 249).

Earlier work (Raytheon/BNFL 1994 and Certa 1995b) concluded that system throughput was limited by the assumed configuration of the in-tank enhanced sludge wash process. In the Raytheon/BNFL study, the sludge wash end dates were determined for varying settling fractions, settling times, and number of settling tanks. The conclusions that in-tank sludge washing would not allow the Tri-Party Agreement to be met and that out-of-tank sludge washing uses less sodium were confirmed during the simulations run for both in-tank and out-of-tank sludge washing using the same sequence.

Figure 11. Yearly Capital Cost--Single-Shell Tank Retrieval--Case 250.



COST250.XLSCost Plot - Case 250

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Figure 12. Yearly Capital Cost--Single-Shell Tank Retrieval--Case 248.

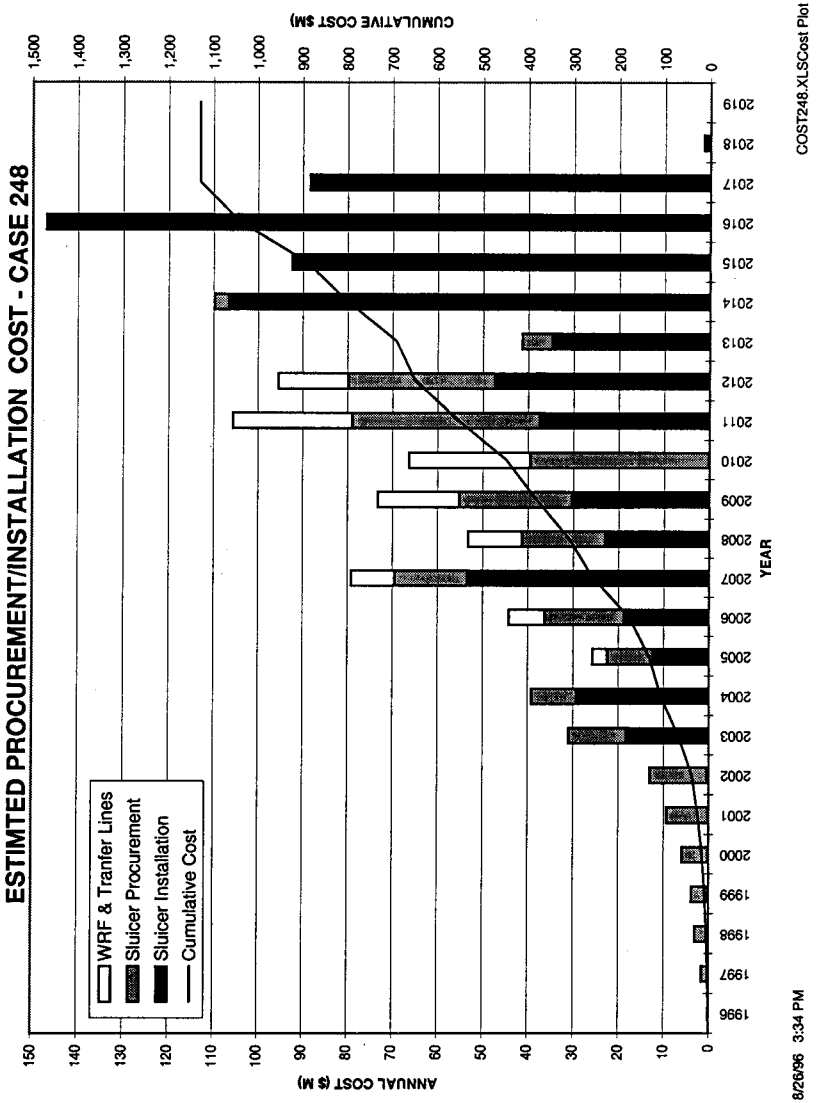


Figure 13. Cumulative Number of Single-Shell Tanks Initiated for Retrieval (Sequence 1D1 Case 250).

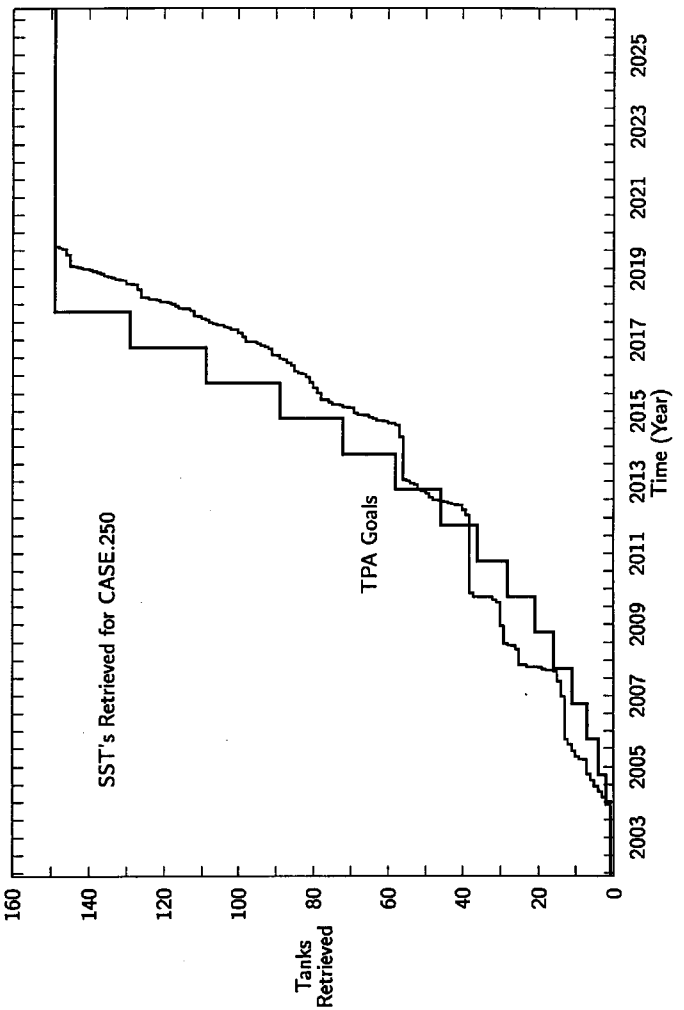


Figure 14. Cumulative Number of Single-Shell Tanks Initiated for Retrieval (Sequence 1D1 Case 248).

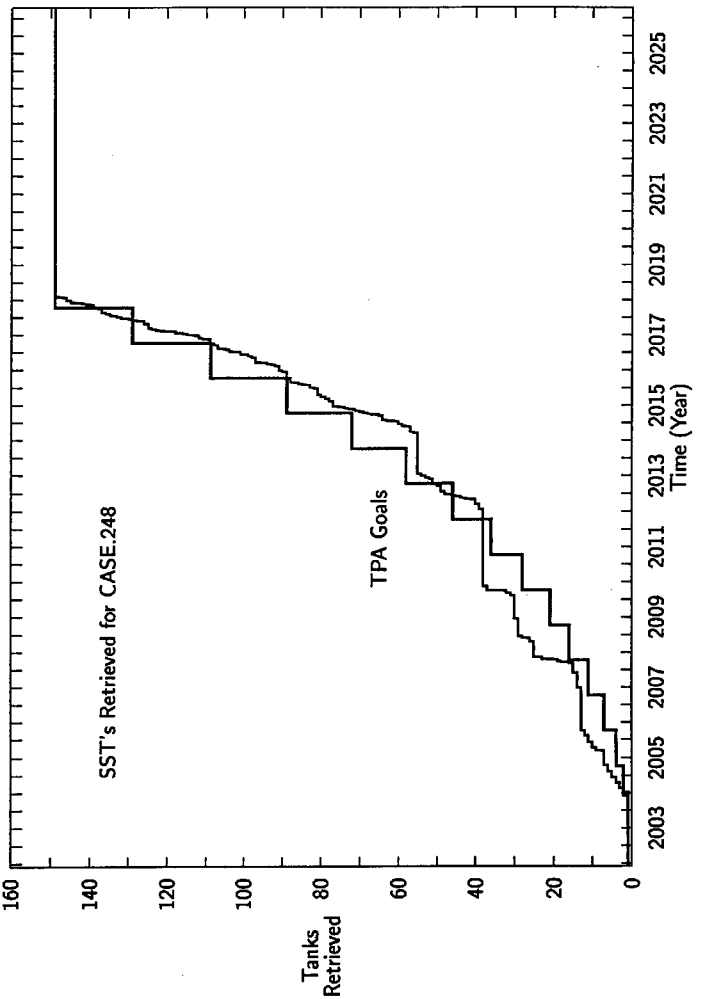


Figure 15. Cumulative Number of Single-Shell Tanks Initiated for Retrieval (Sequence 1D1 Case 249).

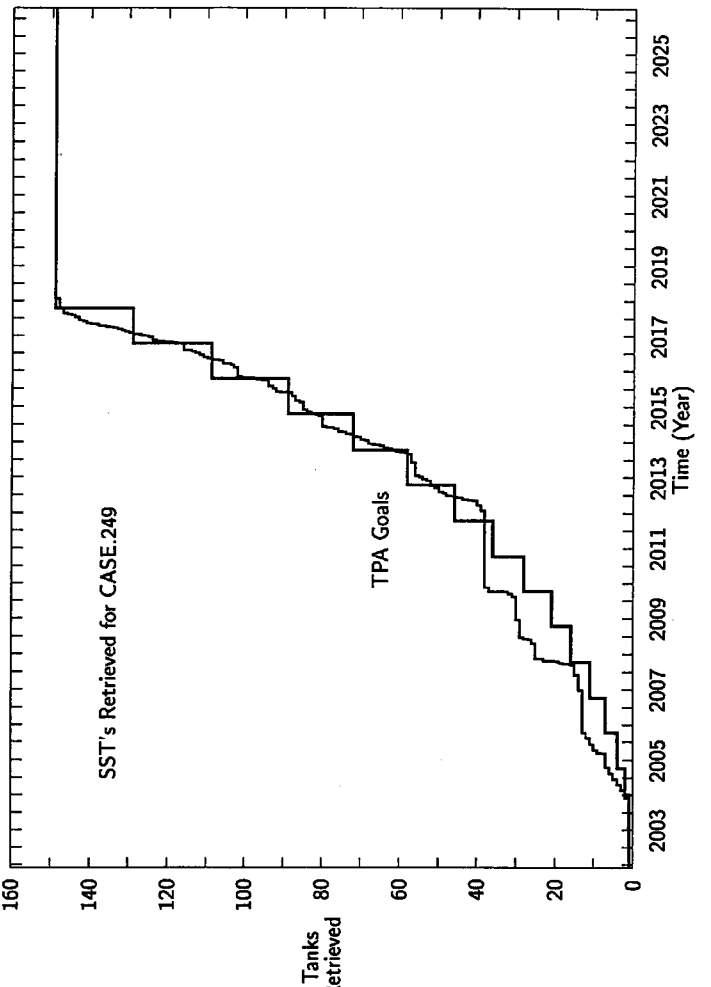


Figure 6 in Section 4.1.2 shows the dates SST retrieval is completed for various cases. As stated previously, no sequences run under base case assumptions met the September 30, 2018 Tri-Party Agreement milestone "Retrieve Waste from all remaining single-shell tanks" (M-45-05). Several cases tested the effect of increasing the LLW vitrification capacity and/or the HLW vitrification capacity in addition to using out-of-tank sludge washing. As discussed in Section 4.1.2, two (2) were determined for meeting the retrieval completion milestone, both of which used out-of-tank sludge washing. Based upon the modeling performed this year, it is suggested that out-of-tank sludge washing be used for Phase II processing. It should also be noted that the LLW and HLW vitrification plant capacities will would need be increased as discussed in Section 4.1.2 to achieve the space needed to allow completion of the SST retrieval by the end of 2018.

As stated previously, the feasibility of operating at those rates would need to be evaluated before they are considered for baseline use.

4.2.5 Cumulative Throughput High-Level Waste Vitrification

One of the schedule-related values is to keep the plants running. The cumulative throughput of waste through the HLW Vitrification Plant is one of these measures. The throughput is compared to the limiting production based on the maximum instantaneous processing rate modeled for the plant.

The computer model is an event-driven simulation. The throughput curve consists of a series of line segments where each line segment represents the average throughput for that event. When feed is available, the model creates an event with two attributes of interest: (1) the amount of material moved and (2) the event duration. The amount of material moved is the larger of the amount of material available and a minimum step size. The duration is calculated by dividing the amount of material by the limiting production rate. The event consists of the instantaneous movement of the appropriate amount of material followed by a delay corresponding to the duration. The step size (in terms of material moved not time) controls the resolution of the throughput curve.

Figure 16 shows the cumulative HLW vitrification throughput curve for the selected sequence 1D1 at baseline rates (Case 250). Figure 17 shows the cumulative HLW vitrification throughput curve for sequence 1D1 using method 1 conditions for meeting the Tri-Party Agreement retrieval milestone (Case 248). Figure 18 shows the cumulative HLW vitrification throughput curve for sequence 1D1 method 2 conditions for meeting the Tri-Party Agreement retrieval milestone (Case 249). (See Section 4.1.2 for more details.) The straight lines show cumulative amounts of waste processed, based on limiting net production rates of 0.82 MT glass per day for Phase I and 9 MT glass per day for Phase II with no shutdowns (see Appendix C).

Figure 16. Mass of Solids to High-Level Waste Vitrification (Sequence 1D1 Case 250--Baseline Rates).

Net LLW Rate--195 MT Glass/day at 20 wt% Na_2O Loading
Net HLW rate--9 MT Glass/day at 25 wt% waste oxides excluding Na and Si

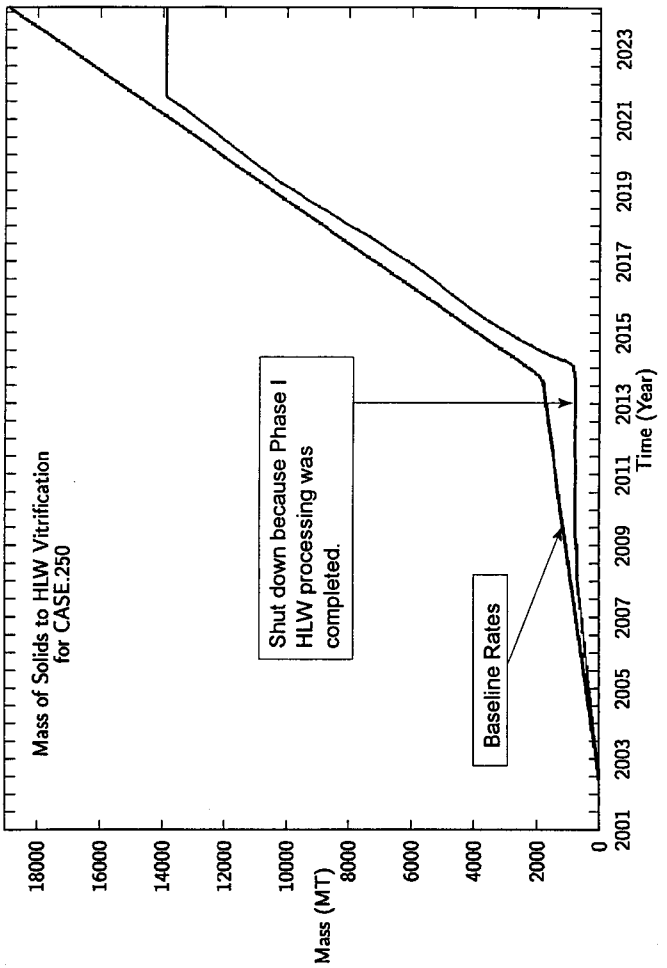


Figure 17. Mass of Solids to High-Level Waste Vitrification (Sequence 1D1 Case 248--Accelerated Processing).

Net LLW Rate--270 MT Glass/day at 20 wt% Na_2O Loading
Net HLW rate--12 MT Glass/day at 25 wt% waste oxides excluding Na and Si

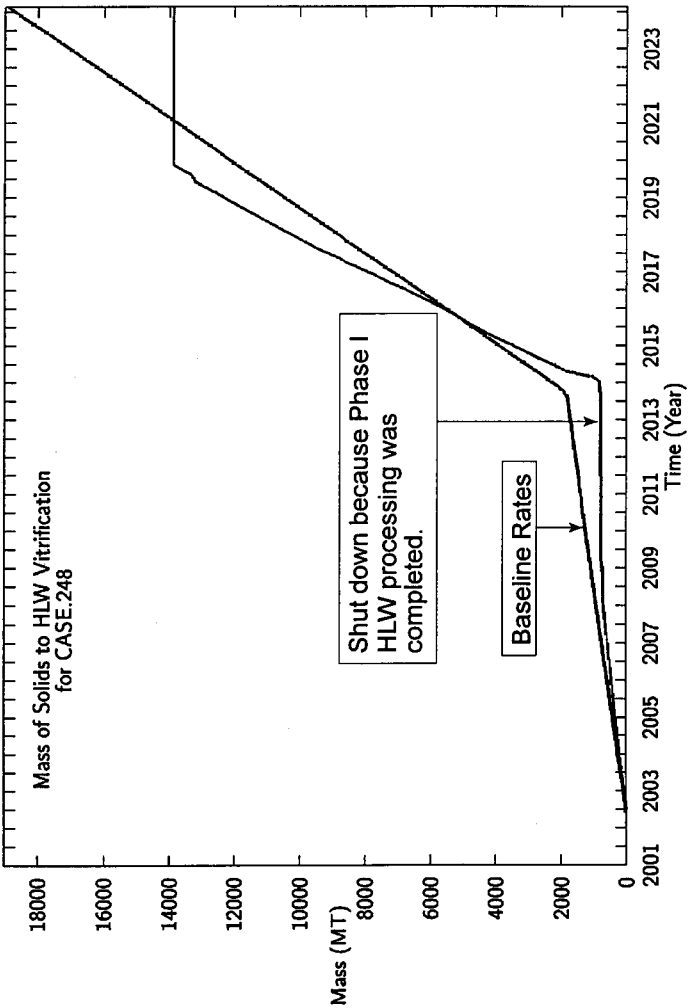
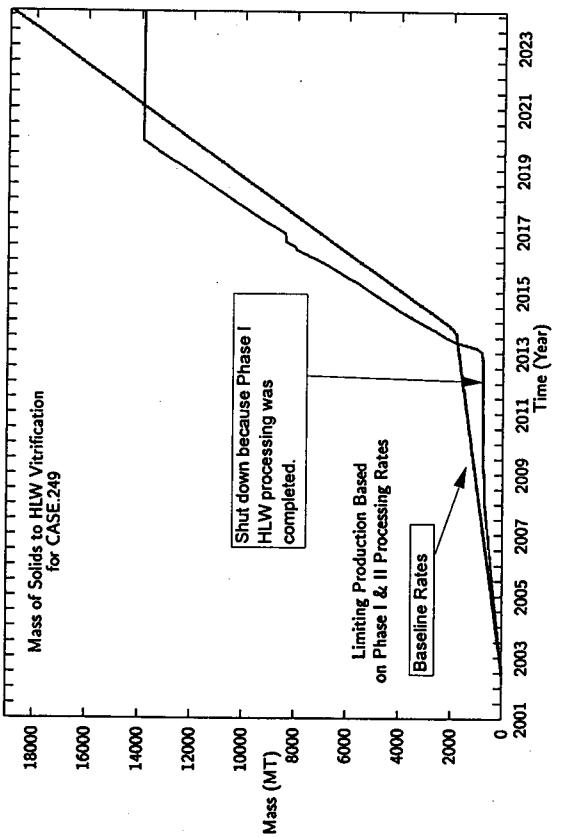


Figure 18. Mass of Solids to High-Level Waste Vitrification (Sequence 1D1 Case 249--Accelerated Processing, High-Level Vitrification Start Moved Forward).

Net LLW Rate--225 MT Glass/day at 20 wt% Na_2O Loading
Net HLW rate--10.5 MT Glass/day at 25 wt% waste oxides excluding Na and Si
HLW vitrification startup moved to October 1, 2012.



For the first few years of Phase II HLW processing, the HLW Vitrification Plant is fully utilized since there is a backlog of prewashed solids for HLW. If in-tank sludge washing is assumed, it becomes rate limiting when processing of the backlog of prewashed solids is completed. If baseline rates and out-of-tank sludge washing are assumed, the baseline LLW processing rate becomes the rate limiting process. (As discussed in Appendices B and C, out-of-tank sludge washing and pretreatment is modeled to occur at the same rate as LLW vitrification.)

This evaluation measure is sensitive to the HLW processing rate, but can be affected by the interactions associated with LLW processing. If the net LLW processing rate is increased to 225 MT of glass/day, the baseline HLW processing rate limits the overall system rate. (Note: If two simultaneous retrievals are assumed, retrieval may be limiting.) Also, this measure is sensitive to both the HLW plant startup time, and the amount of space available for washed solids storage. See the discussions in Sections 4.1.2 and 4.6 for more details.

Several simulation runs were performed to determine if the solid storage space bottleneck could be eliminated through testing continuation of Phase I processing until Phase II plant startup, modifying tank usage, modifying transition of the sludge wash tanks, and assigning more tanks to solids storage. Nothing conclusive has been determined. Further studies should be performed during FY 1997 to determine possible ways to avoid this bottleneck, including moving construction of the WRF and lines for the northwest quadrant and retrieval of the northwest quadrant to the Phase I time period.

4.2.6 Cumulative Throughput Low-Level Waste Pretreatment/ Low-Level Waste Vitrification

The other measure related to the value of keeping the plants running is the cumulative throughput of waste through the LLW Pretreatment Plant and the Vitrification Plant. These measures are effectively the same since LLW Pretreatment and LLW Vitrification are assumed to be close coupled. It was assumed that pretreatment operates at whatever rate the LLW vitrification facility operates. (See Appendices B and C for more details.) The mass of sodium fed into the LLW Pretreatment Plant was chosen for this measure. The throughput is compared to the total limiting net production rate modeled for the two plants combined.

Figure 19 shows the cumulative LLW vitrification throughput curve for the selected sequence 1D1 (Case 250). Figure 20 shows the cumulative LLW vitrification throughput curve for sequence 1D1 using method 1 conditions for meeting the Tri-Party Agreement retrieval milestone (Case 248). Figure 21 shows the cumulative LLW vitrification throughput curve for sequence 1D1 method 2 conditions for meeting the Tri-Party Agreement retrieval milestone (Case 249). (See Section 4.1.2 for more details.) The straight lines show the maximum cumulative amount of waste processed, based on baseline limiting production net rates of 27 MT glass per day for Phase I and 195 MT glass per day for Phase II (See Appendix C). During approximately the first year of Phase II, the LLW facilities operates at full capacity. Then it must shut down until space for solids storage is made available. The base case LLW facility later becomes the facility controlling the overall system capacity for waste retrieval and processing.

Several simulation runs were performed to determine if the shutdown could be eliminated through testing continuation of Phase I processing until Phase II plant startup, modifying tank usage, modifying transition of the sludge wash tanks, and assigning more tanks to solids storage. Nothing conclusive has been determined. Further studies should be performed during FY 1997 to determine possible ways to avoid this bottleneck, including moving construction of the WRF and lines for the northwest quadrant and retrieval of the northwest quadrant to the Phase I time period.

4.2.7 Number of Sluicers Required

This measure provides consistency between the capital cost profile (Section 4.2.3) and the retrieval planning basis (circa March 1996), which uses past-practice sluicing for both leakers and nonleakers. The reported value is the total number of sluicing systems needed.

The following assumptions are made.

- Sluicing systems will be reused and new sluicing systems will be purchased as needed.

- An existing sluicer becomes available for operation in a different tank one year after its current tank has been emptied. That interim year is allocated for removal, maintenance, and installation of the sluicer in its new tank location.

The measure does not account for units that are not repairable, spares that may be required to replace a unit that fails in service, or regulations prohibiting interfarm or interquadrant movement of sluicers.

Figure 19. Sodium Mass to Low-Level Waste Pretreatment.
(Sequence 1D1 Case 250--Baseline Rates).

Net LLW Rate--195 MT Glass/day at 20 wt% Na_2O Loading
Net HLW rate--9 MT Glass/day at 25 wt% waste oxides excluding Na and Si.

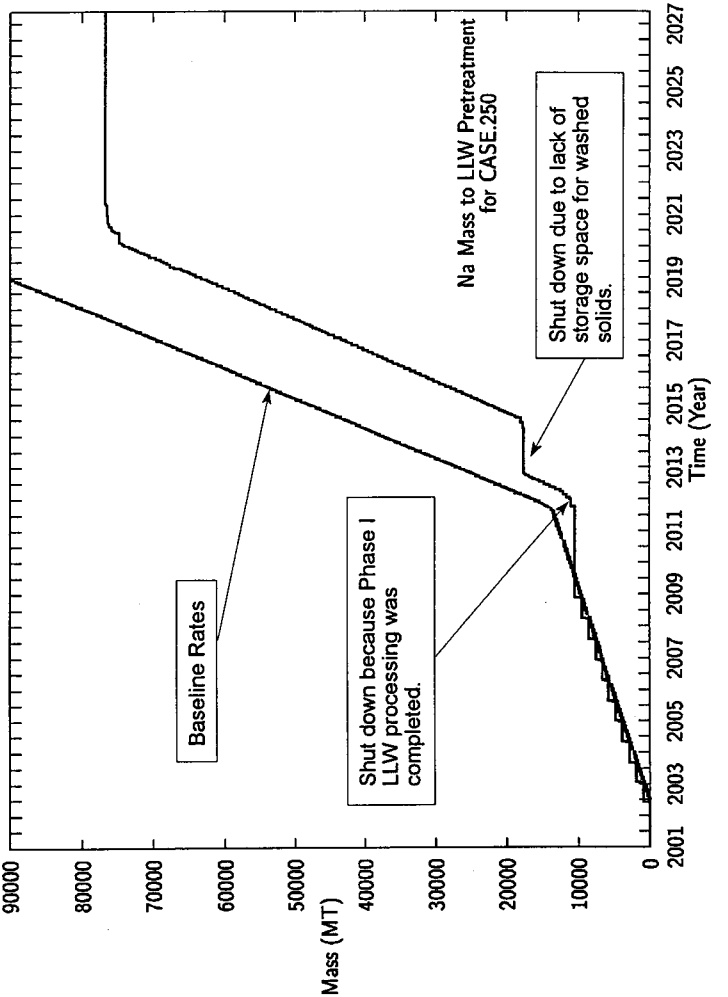


Figure 20. Sodium Mass to Low-Level Waste Pretreatment.
(Sequence 1D1 Case 248--Accelerated Processing).

Net LLW Rate--270 MT Glass/day at 20 wt% Na_2O Loading
Net HLW rate--12 MT Glass/day at 25 wt% waste oxides excluding Na and Si.

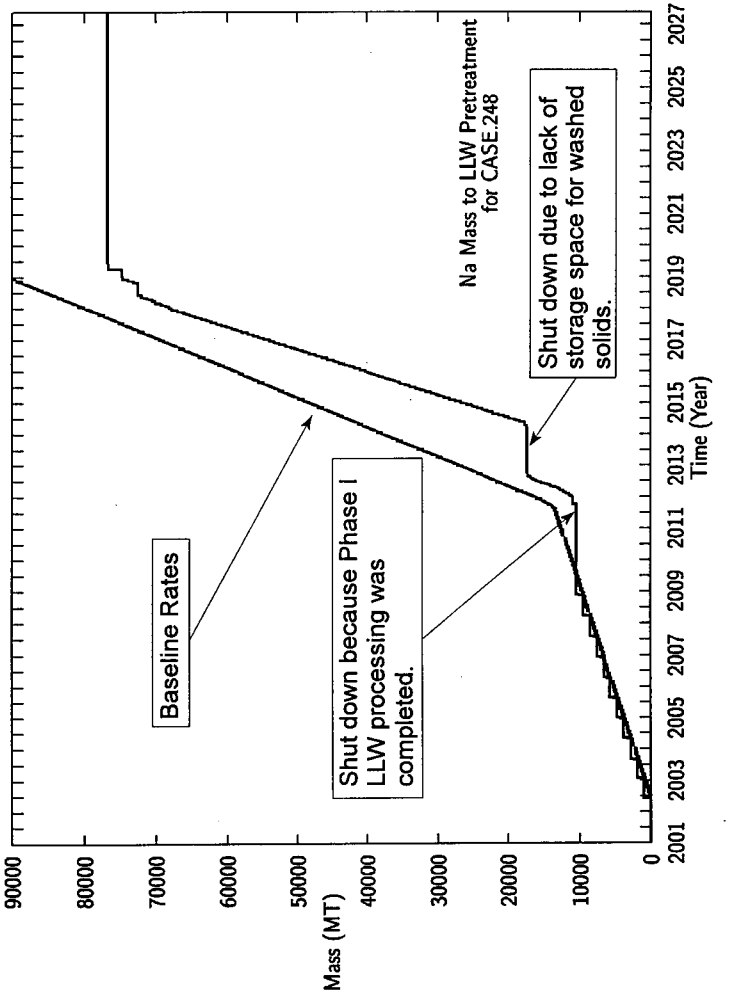


Figure 21. Sodium Mass to Low-Level Waste Pretreatment.
(Sequence 1D1 Case 249--Accelerated Processing, High-Level Vitrification Start Moved Forward).

Net LLW Rate--225 MT Glass/day at 20 wt% Na_2O Loading
Net HLW rate--10.5 MT Glass/day at 25 wt% waste oxides excluding Na and Si
HLW vitrification startup moved to October 1, 2012.

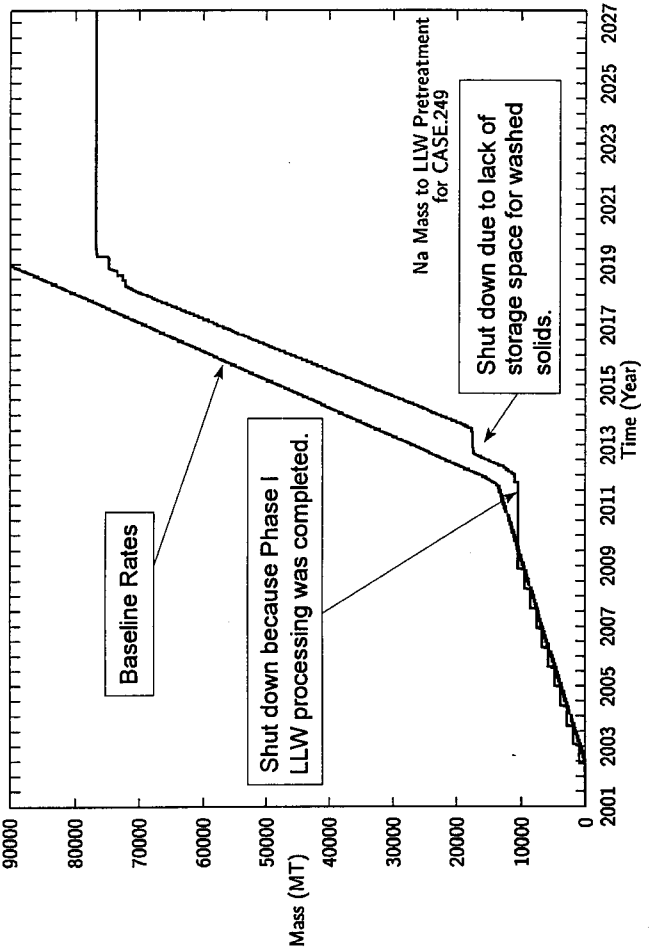


Figure 22 shows the number of sluicers required for several cases. The number of sluicers needed varies from 15 to 19. This is approximately 7 more sluicers than required for the FY 1995 work. This increase is required because of the changes to the assumptions for the maximum number of tanks per quadrant that can be simultaneously retrieved (see Appendices B and C). This was confirmed by performing one model run in where only two simultaneous retrievals per quadrant were allowed.

It is highly unlikely that simultaneous retrieval of four SSTs per quadrant (for a total of 16 simultaneous retrievals) resulting in up to 46 simultaneous liquid transfers can be met. A study should be performed to determine the feasible number of simultaneous retrievals. The results of that study will affect the number of sluicers needed. (See Sections 3.4.2 and 3.4.5 for more details.)

Each sluicer adds $15 million to the capital cost (Section 4.2.3). However, the small variation in the number of required sluicers will probably not be a major driver in selecting a retrieval sequence.

4.3 OTHER METRICS

The term "other metrics" refers to those metrics that were not used in the decision process. They provide information needed to manipulate the retrieval sequences and interpret the model results. In some cases, other metrics may provide a starting point for other studies requiring time varying process information.

Results are only provided for the selected sequence and blending strategy.

4.3.1 High-Level Waste Feed/Glass Composition and Variability

In general, HLW variability affects costs through glass volume, melter design, and glass formulation and qualification effects. In this study a single implicit blended waste composition was targeted. Therefore, reduction in the variability of components limiting the waste oxide loading in the glass would be expected to reduce the HLW glass volume. The HLW variability (at least for limiting components) is not independent of HLW glass volume.

Table 5 shows the composition on a dry oxide basis of several components in the HLW glass for each of the 36 glass batches for the selected sequence 1D1 at baseline rates (Case 250). Flags (e.g., chromium, sodium high, or sodium low) indicate which components are at their limits in that batch.

Figure 22. Sluicing System Needs Comparison.

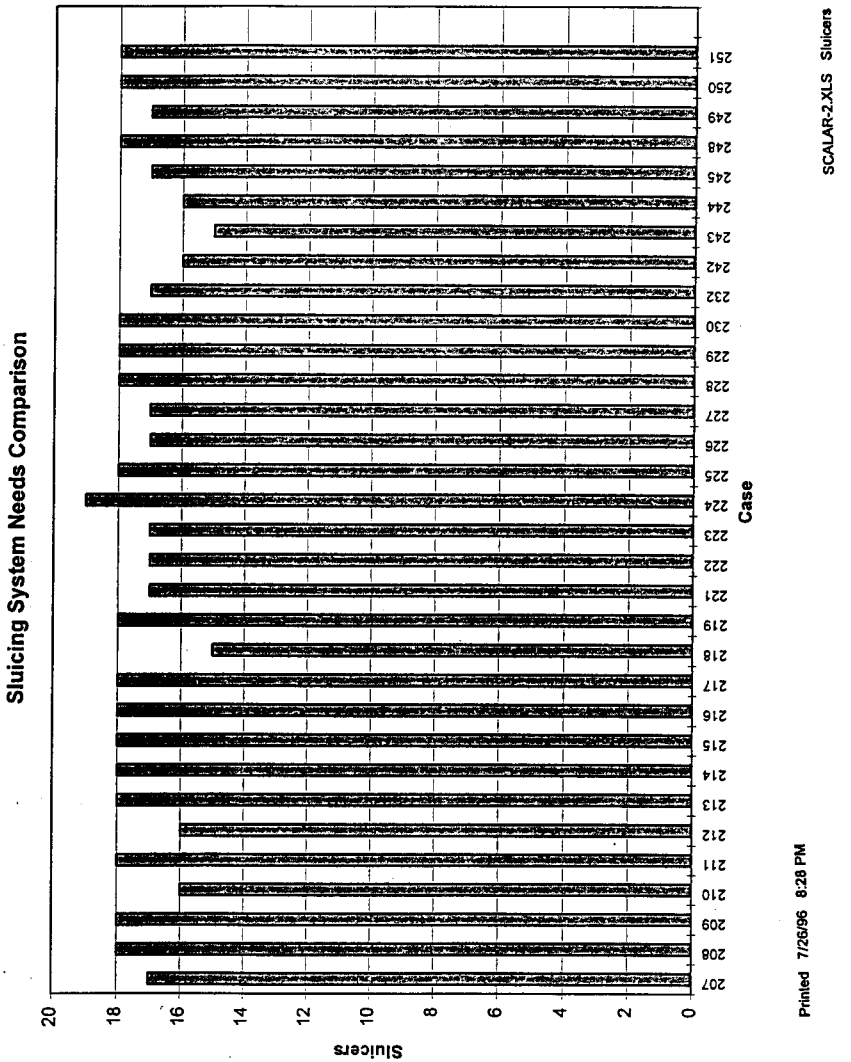


Table 5. High-Level Waste Oxide Composition for High-Level Waste Glass.

Batch	Al2O3	CaO	Cr2O3	Fe2O3	Cl-	Na2O	P2O5	UO3	ZrO2	B2O3	Li2O	SiO2	F-	SO3
1	1.08E-01	1.23E-02	1.93E-03	1.50E-01 Fe	0.00E+00	1.05E-01	3.57E-03	7.53E-03	2.37E-02	5.00E-02 B low	1.00E-02 Li low	4.81E-01	0.00E+00	0.00E+00
2	1.21E-01	2.75E-02	3.34E-03	1.32E-01	0.00E+00	1.78E-01	7.87E-03	3.75E-03	3.74E-03	5.00E-02 B low	1.00E-02 Li low	4.20E-01 Si low	0.00E+00	0.00E+00
3	8.72E-02	3.75E-03	1.43E-03	1.50E-01 Fe	0.00E+00	6.71E-02	5.36E-04	1.03E-02	3.13E-02	5.00E-02 B low	9.99E-03 Li low	5.43E-01	0.00E+00	0.00E+00
4	4.24E-03	8.58E-04	2.14E-04	2.00E-02	0.00E+00	6.52E-02	9.21E-05	1.29E-02	1.30E-01 Zr	1.69E-01	1.00E-02 Li low	5.70E-01 Si hi	0.00E+00	0.00E+00
5	4.24E-03	7.29E-04	2.14E-04	2.00E-02	0.00E+00	6.52E-02	9.22E-05	1.29E-02	1.30E-01 Zr	1.69E-01	1.00E-02 Li low	5.70E-01 Si hi	0.00E+00	0.00E+00
6	2.53E-02	1.07E-02	5.00E-03 Cr	1.00E-01	0.00E+00	5.07E-02	1.06E-02	3.27E-02	5.94E-03	9.79E-02	1.00E-02 Li low	5.70E-01 Si hi	0.00E+00	0.00E+00
7	4.16E-02	1.04E-02	5.00E-03 Cr	7.63E-02	0.00E+00	5.00E-02 Na low	1.50E-02	7.39E-02	6.30E-03	6.66E-02	1.00E-02 Li low	5.70E-01 Si hi	0.00E+00	0.00E+00
8	3.51E-02	2.78E-03	5.00E-03 Cr	2.00E-02	0.00E+00	5.00E-02 Na low	3.35E-03	4.33E-02	1.17E-03	2.00E-01 B hi	5.83E-02	5.70E-01 Si hi	0.00E+00	0.00E+00
9	9.96E-02	1.13E-02	5.00E-03 Cr	7.32E-02	0.00E+00	5.52E-02	1.48E-02	1.17E-01	5.21E-02	5.00E-02 B low	1.00E-02 Li low	4.69E-01	0.00E+00	0.00E+00
10	3.80E-02	4.77E-03	5.00E-03 Cr	2.00E-02	0.00E+00	5.00E-02 Na low	1.01E-02	2.42E-02	3.49E-03	2.00E-01 B hi	5.40E-02	5.70E-01 Si hi	0.00E+00	0.00E+00
11	4.60E-02	5.87E-03	5.00E-03 Cr	2.47E-02	0.00E+00	5.00E-02 Na low	7.49E-03	3.91E-02	8.36E-03	2.00E-01 B hi	2.25E-02	5.70E-01 Si hi	0.00E+00	0.00E+00
12	4.52E-02	6.60E-03	5.00E-03 Cr	3.69E-02	0.00E+00	5.00E-02 Na low	1.54E-02	4.51E-02	1.06E-02	1.81E-01	1.00E-02 Li low	5.70E-01 Si hi	0.00E+00	0.00E+00
13	7.37E-02	6.34E-03	1.70E-03	3.10E-02	0.00E+00	5.00E-02 Na low	3.00E-02 P	7.35E-02	3.91E-02	5.00E-02 B low	1.00E-02 Li low	5.67E-01	0.00E+00	0.00E+00
14	5.77E-02	7.57E-03	5.14E-04	3.65E-02	0.00E+00	5.00E-02 Na low	3.00E-02 P	1.34E-01	4.86E-02	5.00E-02 B low	1.00E-02 Li low	4.70E-01	0.00E+00	0.00E+00
15	5.13E-02	1.01E-02	5.90E-04	4.76E-02	0.00E+00	5.01E-02	1.90E-02	2.04E-01	5.06E-02	5.00E-02 B low	1.00E-02 Li low	4.20E-01 Si low	0.00E+00	0.00E+00
16	4.85E-02	6.09E-03	5.00E-03 Cr	2.78E-02	0.00E+00	5.00E-02 Na low	1.99E-02	1.07E-01	2.82E-02	7.46E-02	1.00E-02 Li low	5.70E-01 Si hi	0.00E+00	0.00E+00
17	1.18E-01	1.09E-02	1.18E-03	4.94E-02	0.00E+00	5.48E-02	8.47E-03	9.83E-02	1.00E-01	5.00E-02 B low	1.00E-02 Li low	4.20E-01 Si low	0.00E+00	0.00E+00
18	1.34E-01	1.02E-02	2.65E-03	4.93E-02	0.00E+00	6.73E-02	3.00E-02 P	6.71E-02	6.50E-02	5.00E-02 B low	1.00E-02 Li low	4.35E-01	0.00E+00	0.00E+00
19	9.24E-02	5.56E-03	5.00E-03 Cr	2.53E-02	0.00E+00	5.00E-02 Na low	1.11E-02	3.29E-02	2.41E-02	1.41E-01	1.00E-02 Li low	5.70E-01 Si hi	0.00E+00	0.00E+00
20	1.50E-01	1.16E-02	4.53E-03	5.81E-02	0.00E+00	5.54E-02	2.83E-02	7.55E-02	7.37E-02	5.00E-02 B low	1.00E-02 Li low	4.20E-01 Si low	0.00E+00	0.00E+00
21	4.46E-02	3.33E-03	5.00E-03 Cr	2.00E-02	0.00E+00	5.00E-02 Na low	3.40E-03	1.86E-02	6.92E-03	2.00E-01 B hi	5.94E-02	5.70E-01 Si hi	0.00E+00	0.00E+00
22	6.11E-02	6.90E-03	3.50E-03	2.97E-02	0.00E+00	5.20E-02	3.00E-02 P	1.06E-01	9.89E-03	5.00E-02 B low	1.00E-02 Li low	5.66E-01	0.00E+00	0.00E+00
23	4.84E-02	8.95E-03	1.60E-03	4.57E-02	0.00E+00	5.15E-02	3.00E-02 P	1.10E-01	9.87E-03	5.00E-02 B low	1.00E-02 Li low	5.23E-01	0.00E+00	0.00E+00
24	8.41E-02	8.46E-03	4.39E-03	4.16E-02	0.00E+00	5.58E-02	3.00E-02 P	6.57E-02	1.19E-02	5.00E-02 B low	1.00E-02 Li low	5.58E-01	0.00E+00	0.00E+00
25	3.89E-02	7.97E-03	7.23E-04	4.50E-02	0.00E+00	5.00E-02 Na low	3.00E-02 P	4.48E-02	9.95E-03	1.24E-01	1.00E-02 Li low	5.70E-01 Si hi	0.00E+00	0.00E+00
26	6.50E-02	1.07E-02	1.61E-03	6.16E-02	0.00E+00	5.00E-02 Na low	3.00E-02 P	1.15E-01	5.70E-02	5.00E-02 B low	1.00E-02 Li low	4.87E-01	0.00E+00	0.00E+00
27	6.19E-02	4.11E-03	5.00E-03 Cr	2.00E-02	0.00E+00	5.00E-02 Na low	4.95E-03	1.98E-02	8.54E-03	2.00E-01 B hi	2.87E-02	5.70E-01 Si hi	0.00E+00	0.00E+00
28	7.72E-02	1.65E-02	2.40E-03	1.03E-01	0.00E+00	5.42E-02	2.12E-02	1.09E-01	8.69E-02	5.00E-02 B low	1.00E-02 Li low	4.20E-01 Si low	0.00E+00	0.00E+00
29	9.22E-02	2.05E-02	3.44E-03	1.29E-01	0.00E+00	6.16E-02	1.76E-02	1.05E-01	3.04E-02	5.00E-02 B low	1.00E-02 Li low	4.20E-01 Si low	0.00E+00	0.00E+00
30	1.01E-01	1.55E-02	3.82E-03	9.39E-02	0.00E+00	5.50E-02	1.61E-02	8.37E-02	9.77E-02	5.00E-02 B low	1.00E-02 Li low	4.20E-01 Si low	0.00E+00	0.00E+00
31	9.75E-02	1.52E-02	3.69E-03	8.15E-02	0.00E+00	5.54E-02	2.97E-02	1.23E-01	3.29E-03	5.00E-02 B low	1.00E-02 Li low	4.20E-01 Si low	0.00E+00	0.00E+00
32	3.10E-02	1.22E-02	2.19E-03	5.58E-02	0.00E+00	1.01E-01	2.73E-02	1.01E-01	9.81E-02	5.00E-02 B low	1.00E-02 Li low	4.20E-01 Si low	0.00E+00	0.00E+00
33	1.65E-02	6.07E-03	2.49E-03	2.00E-02	0.00E+00	9.28E-02	2.63E-03	2.46E-02	1.30E-01 Zr	9.65E-02	1.00E-02 Li low	5.70E-01 Si hi	0.00E+00	0.00E+00
34	9.26E-02	1.35E-02	2.88E-03	7.73E-02	0.00E+00	5.43E-02	2.53E-02	1.05E-01	7.55E-02	5.00E-02 B low	1.00E-02 Li low	4.20E-01 Si low	0.00E+00	0.00E+00
35	1.22E-01	1.21E-02	5.00E-03 Cr	5.98E-02	0.00E+00	7.64E-02	2.40E-02	9.38E-02	5.61E-03	5.00E-02 B low	1.00E-02 Li low	4.54E-01	0.00E+00	0.00E+00
36	6.95E-02	1.31E-02	2.62E-03	6.40E-02	0.00E+00	8.12E-02	3.00E-02 P	1.13E-01	2.68E-03	5.00E-02 B low	1.00E-02 Li low	4.57E-01	0.00E+00	0.00E+00

Many of the early batches are limited by chromium because of the decrease in the chromium wash factor and because the retrieval during Phase I was limited to the southeast and southwest quadrants, which have greater chromium concentrations than the northern quadrants. Sodium is at the lower limit in all HLW batches because 25 percent of the sodium in the sludge is assumed to be removed during sludge washing. (During the FY 1995 study, no sodium was assumed to be removed. Some of the batches are limited in phosphorus although the sludge wash factor increased, decreasing the phosphorus remaining in the HLW sludge. This appears to be caused by having fewer tanks from the southeast and southwest quadrants to blend out the phosphorus remaining in the sludge.

4.3.2 Low-Level Waste Glass Composition and Variability

Appendix J lists the composition, on a dry oxide basis, of several components in the LLW glass for each of the 207 batches for the selected sequence 1D1 at baseline rates (Case 250). Sodium was the limiting component for all LLW glass batches.

These compositions should not be used for critical applications because of uncertainties in the modeling assumptions such as the inventory accuracy and sludge wash efficiencies.

4.3.3 Number of Farms with Tanks Being Retrieved

This measure was intended to provide an indication of the complexity of operations. This measure did not provide information of value for determining a recommended sequence. There were several reasons for this.

1. The simultaneous retrieval from several different types of waste at the same time is desired for maximizing blending and minimizing HLW glass volume.

2. The number of simultaneous retrievals per quadrant during Phase II needs to be close to the maximum per quadrant to allow the retrieval end date milestone to be met.

3. This measure followed the number of simultaneous retrievals very closely.

4.4 INITIAL SINGLE-SHELL TANK RETRIEVAL SYSTEM

A study (Grenard 1996) has been completed to select tanks to be retrieved by the initial SST Retrieval System (ISSTRS). Analyses for this study showed that 35 tanks could be retrieved from the SE and SW quadrants (i.e., the A, AX, C, S, SX, and U farms) during Phase I if retrieval is limited to tanks with small diluted (i.e., as-retrieved) waste volumes, and small sludge volumes. This would defer costs for the waste receiver facilities and major

transfer lines for the NE and NW quadrants (B, BX, BY, T, Tx, and TY farms) to the Phase II private contractors.

Limiting Phase I retrieval to 35 tanks in the SE and SW quadrants filled the washed solids storage tanks resulting in a shutdown of LLW processing until startup of HLW processing. Alternatives for relieving this storage problem such as retrieval of saltcake from the NW quadrant will be investigated during the FY 1997 study. Other alternatives such as reallocation of tanks and continuation of Phase I processing until Phase II startup will also be investigated more fully.

The tank selection study selected four tanks (AX-103, A-102, C-103, and C-105) to be retrieved by ISSTRS. AX-103 will be a salt cake retrieval demonstration tank. The other three are high interim storage (LANL 1995) and high long-term hazard (Boothe 1995) 100-series tanks that are not assumed to be leaking. The above preliminary recommendations will be the planning basis assumptions for ISSTRS until approved or revised by the decision maker.

4.5 WASHED SOLIDS STORAGE SPACE

The current baseline assumption for storing solids was that during Phase I, all washed solids were to be stored in three of the four aging waste tanks (AZ-101, AZ-102, AY-101, and AY-102). Additionally, one of the four aging waste tanks was to be maintained as a spare.

That same assumption was used for Phase II for in-tank sludge washing. The in-tank sludge wash baseline assumption for tank usage did not have enough space for storing all washed solids that may be generated during Phase II before the HLW plant startup. Therefore, the LLW processing plant and SST retrieval had to shut down until the HLW plant could start up and generate more space for storing washed solids.

The situation for out-of-tank sludge washing was somewhat different. During Phase II, three of the tanks used for sludge washing were transitioned to store solids. However, the difficulty is completing the sludge washing and transitioning the tanks in time to have the needed space available for storing solids to avoid a LLW plant shutdown.

Several simulation runs were performed to determine if this bottleneck could be eliminated through testing continuation of Phase I processing until Phase II plant startup, modifying tank usage, modifying transition of the sludge wash tanks, and assigning more tanks to solids storage. Nothing conclusive has been determined. Further studies should be performed during FY 1997 to determine possible ways to avoid this bottleneck, including moving construction of the WRF and lines for the northwest quadrant and retrieval of the northwest quadrant to the Phase I time period.

4.6 INITIAL RETRIEVAL SEQUENCE

4.6.1 Single-Shell Tanks

As stated in Section 3.2.1, sequence 1D1 was chosen as the initial retrieval sequence. It performed well for most measures, but did not meet the 15 percent of span measure of success for HLW glass volume. (No cases were run that meet that measure of success.) Using baseline processing rates, it did not meet the measure of success for completion of SST retrieval, but performed better than other sequences at baseline rates. Sequence 1D1 was also the only input sequence tested that achieved the retrieval milestone when the rates were increased as described in Section 4.1.2.

Figure 23 (case 250) shows retrieval schedule for the chosen sequence including durations for each SST. Superimposed are the requested start dates and the Tri-Party Agreement milestones for the initiation of retrieval of the appropriate number of SSTs. Figure 24 (case 248) provides similar information for the realized sequence when using method 1 for meeting the SST retrieval milestone. Figure 25 (case 249) provides similar information for the realized sequence when using method 2 for meeting the SST retrieval milestone.

Table 6 shows the data in Figure 23 (except for the milestone dates) for case 250, and includes the as-retrieved volumes of the waste from each tank. As-retrieved volumes include the minimum dilution water necessary to bring the sodium concentration down to $\leq 5M$ and the insoluble solids content down to ≤ 10 wt%. The data would be similar for cases 248 and 249.

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Figure 23. Initial Single-Shell Tank Retrieval Sequence Realized Plot Sequence 1D1 Case 250.

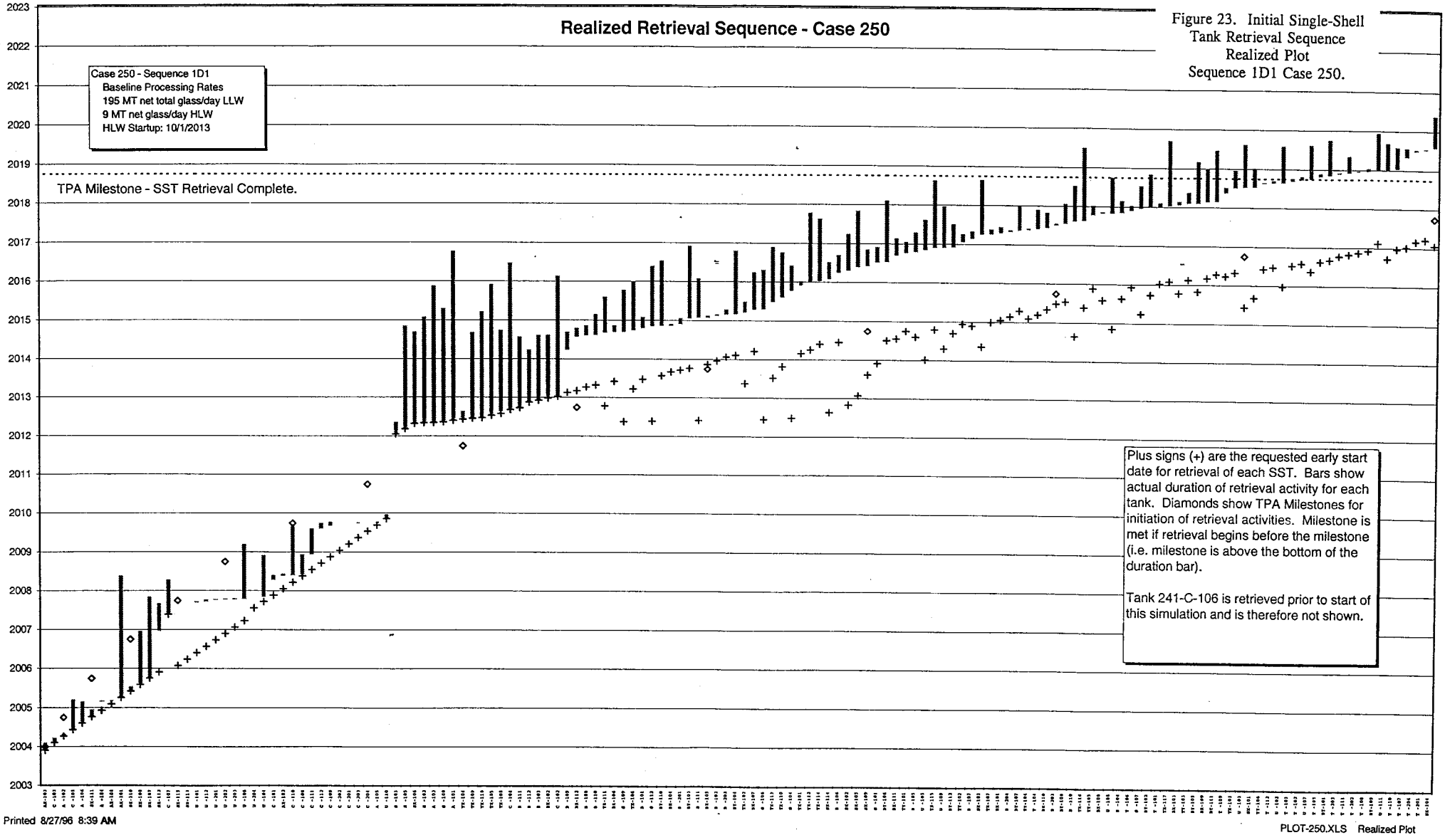
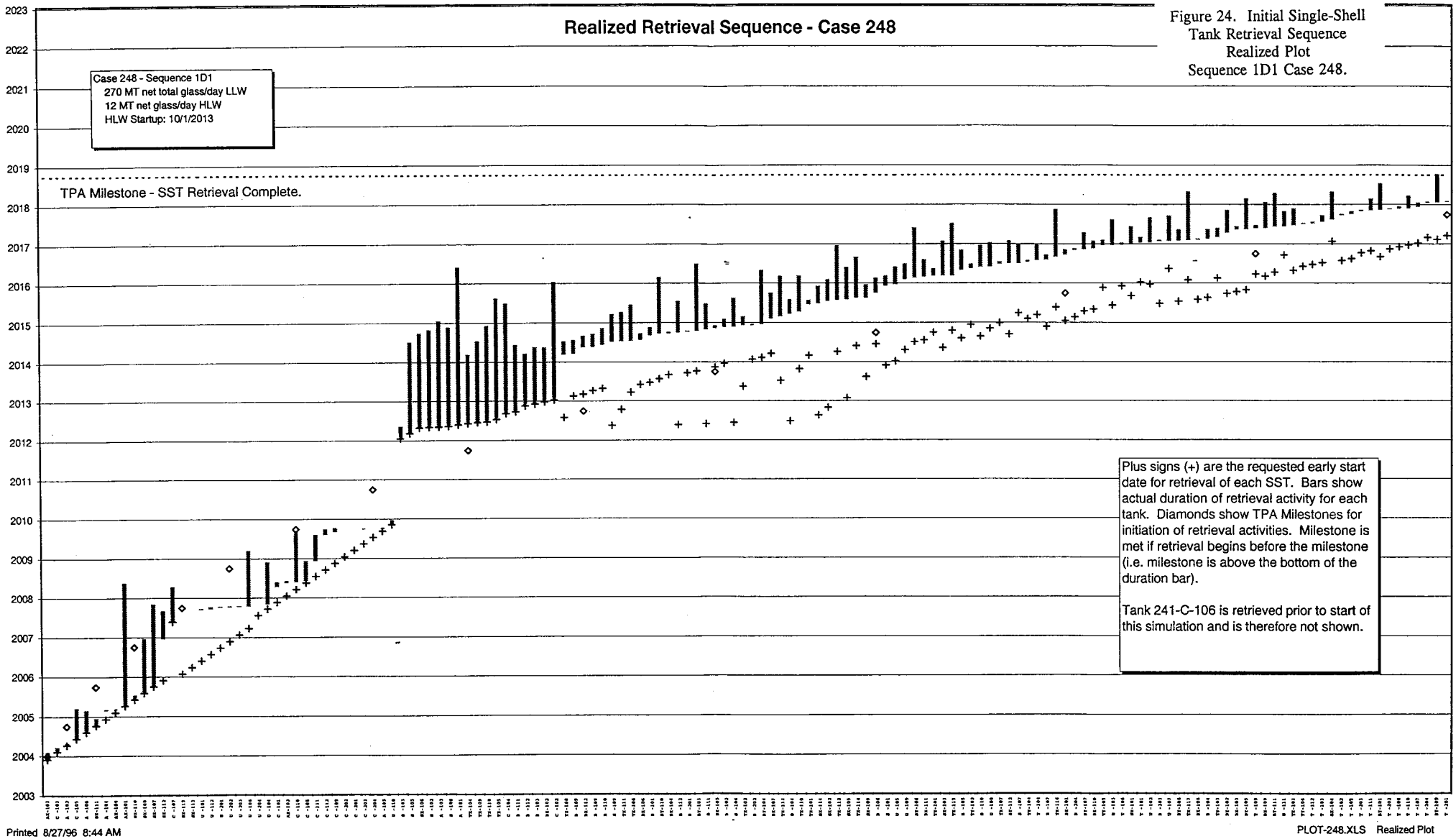


Figure 24. Initial Single-Shell Tank Retrieval Sequence Realized Plot Sequence 1D1 Case 248.



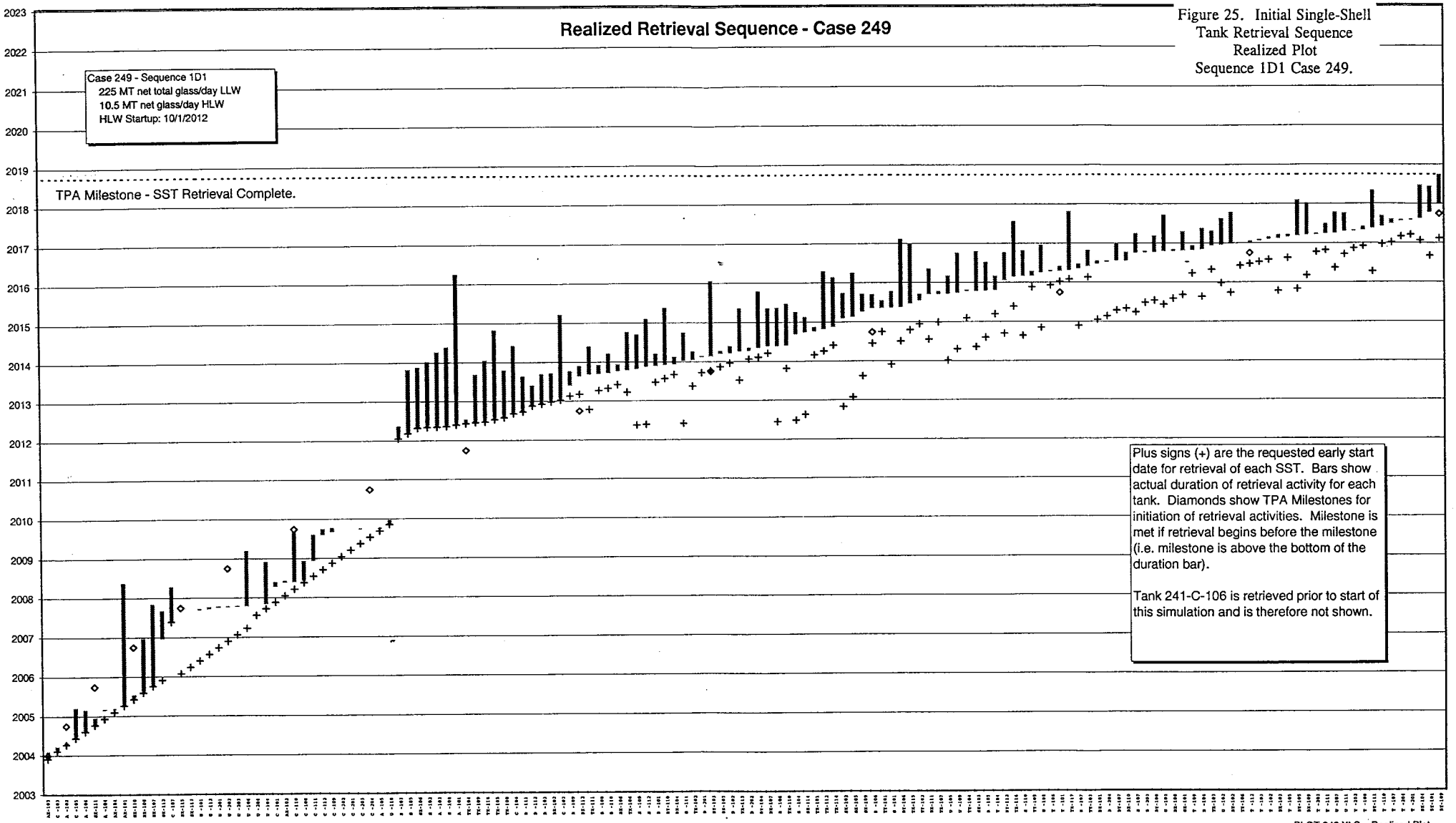


Figure 25. Initial Single-Shell Tank Retrieval Sequence Realized Plot Sequence 1D1 Case 249.

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PLOT-249.XLS Realized Plot

Table 6. Initial Retrieval Sequence with As-Retrieved Volumes--Case 250. (Sheet 1 of 4)

Requested Start Date	Tank	Start Date	End Date	Durat(d)	As-Retrieved Volume (Liters)
11/30/03	241-AX-103	11/30/03	2/5/04	67.589	1.66E+06
2/9/04	241-C -103	2/9/04	3/22/04	42.065	1.02E+06
4/9/04	241-A -102	4/9/04	4/30/04	21.098	5.39E+05
6/8/04	241-C -105	6/8/04	3/18/05	283.922	2.54E+06
8/7/04	241-A -106	8/7/04	2/27/05	204.658	1.39E+06
10/6/04	241-SX-111	10/6/04	12/13/04	68.309	1.72E+06
12/5/04	241-A -104	2/27/05	3/5/05	5.58	1.56E+05
2/3/05	241-AX-104	3/5/05	3/8/05	3.672	1.03E+05
4/4/05	241-AX-101	4/4/05	5/21/08	1142.995	1.14E+07
6/3/05	241-SX-110	6/3/05	7/17/05	44.689	1.15E+06
8/2/05	241-SX-108	8/2/05	12/18/06	503.616	1.97E+06
10/1/05	241-SX-107	10/1/05	11/5/07	765.197	1.82E+06
11/30/05	241-SX-112	12/18/06	9/4/07	259.679	1.21E+06
5/24/07	241-C -107	5/24/07	4/13/08	325.103	2.01E+06
1/29/06	241-SX-115	9/4/07	9/12/07	8.157	2.29E+05
3/30/06	241-SX-113	9/12/07	9/13/07	1.042	2.91E+04
5/29/06	241-U -101	9/13/07	9/21/07	8.457	2.37E+05
7/28/06	241-U -112	9/21/07	10/9/07	17.044	4.77E+05
9/26/06	241-U -201	10/9/07	10/12/07	3.11	8.71E+04
11/25/06	241-U -202	10/12/07	10/15/07	3.109	8.67E+04
1/24/07	241-U -203	10/15/07	10/16/07	1.586	4.43E+04
3/25/07	241-U -106	10/16/07	3/11/09	511.42	3.48E+06
7/23/07	241-U -204	11/5/07	11/6/07	1.302	3.63E+04
9/21/07	241-U -104	11/6/07	11/28/08	388.195	4.31E+05
11/20/07	241-C -101	4/13/08	5/28/08	44.882	9.03E+05
1/19/08	241-AX-102	5/21/08	6/8/08	18.587	4.67E+05
3/19/08	241-C -110	5/28/08	9/3/09	463.375	1.41E+06
5/18/08	241-C -108	6/8/08	12/7/08	182.176	4.54E+05
7/17/08	241-C -111	12/7/08	8/9/09	244.595	5.28E+05
9/15/08	241-C -112	8/9/09	9/27/09	49.068	9.56E+05
11/14/08	241-C -109	9/3/09	10/11/09	38.115	5.72E+05
1/13/09	241-C -202	9/27/09	9/27/09	0.387	1.06E+04
3/14/09	241-C -201	9/27/09	9/28/09	0.773	2.16E+04
5/13/09	241-C -203	9/28/09	9/30/09	1.928	5.37E+04
7/12/09	241-C -204	9/30/09	10/1/09	0.738	2.04E+04
9/10/09	241-A -105	10/1/09	10/11/09	9.992	2.80E+05
11/9/09	241-U -110	11/9/09	12/19/09	40.276	1.04E+06
1/18/12	241-S -103	1/18/12	5/11/12	114.602	3.78E+06
3/8/12	241-S -105	3/8/12	11/9/14	976.091	8.07E+06
4/27/12	241-SX-106	4/27/12	9/12/14	868.724	7.30E+06
5/2/12	241-S -102	5/2/12	1/29/15	1002.156	8.69E+06
5/7/12	241-A -103	5/7/12	11/20/15	1292.481	5.56E+06

Table 6. Initial Retrieval Sequence with As-Retrieved Volumes--Case 250. (Sheet 2 of 4)

Requested Start Date	Tank	Start Date	End Date	Durat(d)	As-Retrieved Volume (Liters)
5/12/12	241-S -108	5/12/12	4/19/15	1072.87	1.06E+07
5/27/12	241-A -101	5/27/12	10/8/16	1595.883	1.46E+07
6/6/12	241-TX-104	6/6/12	8/23/12	78.738	1.04E+06
6/16/12	241-TX-109	6/16/12	9/5/14	811.617	2.91E+06
6/21/12	241-TX-118	6/21/12	3/20/15	1002.639	6.36E+06
7/14/12	241-TX-105	7/14/12	12/1/15	1235.289	1.19E+07
8/1/12	241-TX-108	8/23/12	9/30/14	767.655	2.58E+06
9/6/12	241-C -104	9/6/12	6/24/16	1387.026	5.98E+06
9/24/12	241-B -111	9/24/12	7/28/14	672.863	1.85E+06
11/17/12	241-B -112	11/17/12	3/28/14	496.219	3.91E+05
12/5/12	241-B -103	12/5/12	8/12/14	615.259	8.38E+05
12/23/12	241-BX-102	12/23/12	8/13/14	598.629	4.94E+05
1/10/13	241-C -102	1/10/13	2/20/16	1135.965	8.37E+06
2/15/13	241-B -109	3/28/14	9/11/14	167.407	1.25E+06
3/5/13	241-BX-112	7/28/14	10/20/14	83.346	1.45E+06
4/10/13	241-B -108	8/12/14	11/11/14	91.072	1.12E+06
4/28/13	241-B -110	8/13/14	3/1/15	199.487	1.84E+06
10/12/12	241-TX-111	9/5/14	8/11/15	339.484	6.71E+06
6/3/13	241-BX-106	9/11/14	11/10/14	59.89	5.60E+05
5/17/12	241-S -109	9/12/14	10/11/15	393.43	9.85E+06
3/23/13	241-TX-106	9/30/14	1/2/16	459.045	8.88E+06
6/21/13	241-B -101	10/20/14	1/29/15	101.57	1.30E+06
5/22/12	241-S -112	11/9/14	5/25/16	563.502	1.12E+07
7/27/13	241-BY-110	11/10/14	7/15/16	613.394	5.55E+06
9/1/13	241-BX-104	11/11/14	11/27/14	16.306	4.43E+05
9/19/13	241-B -201	11/27/14	1/21/15	55.281	1.92E+05
10/7/13	241-BY-103	1/21/15	12/1/16	679.68	7.17E+06
6/1/12	241-S -111	1/29/15	1/31/16	366.953	8.23E+06
11/12/13	241-BX-105	1/29/15	2/16/15	18.007	5.04E+05
12/18/13	241-B -102	2/16/15	3/2/15	13.287	3.73E+05
1/23/14	241-B -202	3/1/15	4/16/15	45.9	1.86E+05
2/10/14	241-BY-104	3/2/15	10/17/16	595.017	6.15E+06
5/16/13	241-TX-102	3/20/15	6/27/15	98.359	2.21E+06
3/18/14	241-BX-107	4/16/15	4/1/16	351.315	2.59E+06
6/11/12	241-S -106	4/19/15	4/24/16	371.038	9.17E+06
7/9/13	241-TX-113	6/27/15	11/28/16	519.975	9.72E+06
10/25/13	241-TX-110	8/11/15	10/6/16	421.918	8.65E+06
6/26/12	241-S -104	10/11/15	6/5/16	238.056	4.92E+06
2/28/14	241-TX-101	12/1/15	1/10/16	40.475	1.04E+06
4/5/14	241-TX-112	1/2/16	10/13/17	649.568	1.27E+07
5/29/14	241-TX-114	1/10/16	8/20/17	587.626	1.03E+07
8/19/12	241-SX-114	1/31/16	7/8/16	159.57	4.57E+06

Table 6. Initial Retrieval Sequence with As-Retrieved Volumes--Case 250. (Sheet 3 of 4)

Requested Start Date	Tank	Start Date	End Date	Durat(d)	As-Retrieved Volume (Liters)
6/16/14	241-B -106	4/1/16	9/14/16	166.425	1.69E+06
10/30/12	241-SX-102	4/24/16	4/1/17	341.265	8.74E+06
1/28/13	241-SX-105	5/25/16	11/3/17	527.027	1.14E+07
8/14/13	241-SX-109	6/5/16	11/7/16	154.959	5.17E+06
11/30/13	241-S -101	7/8/16	11/29/16	143.413	4.21E+06
7/4/14	241-BY-106	7/15/16	2/8/18	572.87	1.08E+07
7/22/14	241-BX-111	9/14/16	2/22/17	160.325	3.52E+06
10/2/14	241-TY-101	10/6/16	1/20/17	106.073	1.76E+06
8/9/14	241-B -105	10/17/16	4/20/17	185.588	4.25E+06
1/5/14	241-U -105	11/7/16	8/13/17	279.692	5.78E+06
10/20/14	241-TX-115	11/28/16	8/20/18	630.771	1.25E+07
4/23/14	241-U -109	11/29/16	12/19/17	385.549	6.79E+06
9/14/14	241-BY-112	12/1/16	7/9/17	220.32	5.15E+06
12/13/14	241-TY-102	1/20/17	4/4/17	74.163	1.12E+06
11/25/14	241-B -107	2/22/17	4/30/17	67.664	1.24E+06
5/11/14	241-SX-103	4/1/17	8/26/18	512.716	9.98E+06
12/31/14	241-TX-107	4/4/17	5/21/17	46.917	6.00E+05
1/18/15	241-BX-101	4/20/17	6/12/17	52.413	6.95E+05
2/23/15	241-B -204	4/30/17	5/14/17	13.727	3.38E+05
4/18/15	241-BY-107	5/14/17	12/31/17	230.616	3.73E+06
2/5/15	241-TY-104	5/21/17	5/31/17	10.309	2.89E+05
3/13/15	241-T -104	5/31/17	11/28/17	181.057	2.91E+06
5/6/15	241-BX-110	6/12/17	10/31/17	141.508	1.94E+06
6/29/15	241-B -203	7/9/17	7/22/17	12.284	3.44E+05
7/17/15	241-BY-108	7/22/17	1/26/18	188.205	2.75E+06
8/27/14	241-S -110	8/13/17	7/13/18	334.094	5.33E+06
5/24/15	241-TX-116	8/20/17	7/4/19	682.946	1.05E+07
11/20/15	241-TY-105	10/13/17	1/9/18	88.197	1.06E+06
8/4/15	241-BX-108	10/31/17	11/7/17	7.088	1.96E+05
11/7/14	241-U -108	11/3/17	10/5/18	335.709	6.92E+06
8/22/15	241-B -104	11/7/17	2/26/18	110.679	2.49E+06
12/8/15	241-T -106	11/28/17	1/13/18	46.298	2.32E+05
3/31/15	241-S -107	12/19/17	7/15/18	207.706	4.35E+06
9/27/15	241-BY-102	12/31/17	11/6/18	310.394	5.84E+06
1/13/16	241-T -101	1/9/18	2/8/18	30.053	7.90E+05
1/31/16	241-TX-117	1/13/18	9/15/19	610.042	1.12E+07
10/15/15	241-BX-103	1/26/18	2/23/18	28.426	7.54E+05
2/18/16	241-TY-103	2/8/18	5/19/18	100.478	2.16E+06
11/2/15	241-BY-105	2/8/18	3/6/19	390.166	7.68E+06
3/7/16	241-BX-109	2/23/18	12/31/18	310.935	6.20E+06
4/12/16	241-BY-111	2/26/18	6/21/19	480.513	8.12E+06
3/25/16	241-T -109	5/19/18	7/7/18	49.159	8.65E+05

Table 6. Initial Retrieval Sequence with As-Retrieved Volumes--Case 250. (Sheet 4 of 4)

Requested Start Date	Tank	Start Date	End Date	Durat(d)	As-Retrieved Volume (Liters)
4/30/16	241-TX-103	7/7/18	12/14/18	159.087	3.08E+06
6/11/15	241-U -103	7/13/18	8/19/19	401.011	7.37E+06
9/9/15	241-SX-101	7/15/18	1/7/19	175.922	4.36E+06
6/5/16	241-TY-106	8/20/18	8/24/18	3.848	1.07E+05
6/23/16	241-T -112	8/24/18	9/13/18	20.221	1.82E+05
12/26/15	241-U -102	8/26/18	8/2/19	340.122	6.02E+06
7/11/16	241-T -103	9/13/18	9/26/18	12.396	3.47E+05
7/29/16	241-T -102	9/26/18	10/26/18	29.977	3.80E+05
5/18/16	241-U -107	10/5/18	8/13/19	312.134	4.99E+06
8/16/16	241-T -105	10/26/18	11/23/18	27.858	6.50E+05
9/3/16	241-BY-101	11/6/18	10/3/19	331.164	6.66E+06
10/9/16	241-T -203	11/23/18	12/3/18	10.031	2.41E+05
10/27/16	241-T -111	12/3/18	5/5/19	153.809	2.14E+06
11/14/16	241-T -202	12/14/18	12/19/18	5.182	1.45E+05
12/2/16	241-T -108	12/19/18	1/16/19	27.802	4.97E+05
2/12/17	241-BY-109	12/31/18	12/9/19	342.657	7.35E+06
9/21/16	241-U -111	1/7/19	9/9/19	245.315	4.93E+06
12/20/16	241-T -110	1/16/19	8/2/19	198.054	2.72E+06
1/7/17	241-T -107	5/5/19	7/26/19	81.537	9.84E+05
3/2/17	241-T -204	7/4/19	7/13/19	9.341	2.62E+05
3/20/17	241-T -201	7/13/19	7/20/19	6.878	1.92E+05
1/25/17	241-SX-104	8/2/19	5/21/20	293.768	8.52E+06

4.6.2 Double-Shell Tanks

Most of the sequence for the DSTs is not clearly defined similar to the SST sequence. The Phase I input from the LLW (Certa et al. 1996) and HLW (Manuel et al. 1996) feed staging studies were been incorporated into the baseline for this study.

Appendixes B and C describe the initial conditions and assignments for the DSTs. The waste from any DST that is assigned to receive SST waste or to perform sludge washing is mixed with the incoming waste and blends into the LLW and HLW feed batches. The waste from a DST will dominate the batch if it has a significant amount of waste in it when is designated as available for use.

4.7 BLENDING STRATEGY

During FY 1995, Incidental Blending was shown to be very effective at reducing HLW glass volumes (Certa 1995). Since it is a form of undirected blending, it is indiscriminate; there is no precise control over blending. Small changes early in the sequence significantly affect the fraction of waste in a batch contributed from each tank.

The highest glass volume seen in this study (12,468 m^3 or 56 percent of span). The high glass case during FY 1995 produced a greater percent reduction from the no-blend case than the high glass case this year (47 percent versus 56 percent of span). This is probably because of chromium, which appears to be the greatest factor affecting the high glass volume. The sludge wash factor change for chromium appears to have decreased the effectiveness of blending batches that have relatively large concentrations of chrome.

Although the impact of blending with the high glass case is less than during FY 1995, the conclusion that "the Incidental Blend strategy can provide significant reduction in glass volume relative to the No Blend case, even if the sequence is poor" (Certa 1995b) is still valid.

4.8 CASE ASSUMING NO PHASE II WITH RETRIEVAL BY ORDER OF LONG-TERM RISK

Because of the possibility that funding will not be available for support of Phase II, several cases were run to determine the effects of retrieval and operation using only the Phase I plants, and with building only the needed facilities for retrieval of the northeast and northwest quadrant tanks as additional costs.

Retrieval of the tanks was ordered per the annual limit on intake (ALI) ranking developed in *Remediation and Cleanout levels for Hanford Site Single-Shell Tanks* (Boothe 1995). Figure 26 shows the decrease in long term risk per tank if the tanks are retrieved totally in the order developed by Boothe. Figure 27 shows the decrease in long term risk as processing of various tanks is completed. The figures are on semi-log scale to facilitate the ability to determine order of magnitude long term risk reduction. At the Phase I processing rates, the long term risk can be reduced one order of magnitude by 2023 and two orders of magnitude (99 percent reduction) by 2036. The long-term risk given here does not correspond with the short term risk numbers discussed earlier in this document.

No effort was made to modify this sequence to determine the optimal sequence for combining system dynamics and minimizing HLW glass while retrieving the high long term risk tanks first. Future studies should consider evaluating the first 77 tanks of this list to determine the best order to process them for minimizing HLW glass, and possibly improving the processing dynamics.

4.9 CAVEATS

All HLW glass volume estimates are based on the assumed glass specifications, wash factors, and tank waste inventory. These assumptions must be considered when comparing these glass volumes with those from other sources.

The dynamic metrics are based upon the assumed system configuration such as annex limitations, DST tank allocations, facility startup dates, maximum instantaneous processing and retrieval rates, sample times and waste staging and queuing rules.

Findings that certain assumptions are rate limiting does not define the specific actions that need to be taken to remove a specific system rate limitation. The sensitivity studies did not consider all of the interactions between assumptions. The interaction of all assumptions is needed to remove rate limitations from the system or to properly balance the system. As an example, changing the tank assignment assumptions such as changing the feed tank and staging tank associated with a LLW vitrification plant to allow either tank to stage and to feed will have the same effect as increasing the processing rate. If only one tank can be used for feeding, there will need to be a shutdown to allow for transfer to the feed tank, or the plant will need to be able to have internal feed storage to allow for the 10 day transfer to occur.

Ramp-up of the Phase I and Phase II LLW and HLW vitrification plants was not assumed. Ramp-up should be included into future studies. Inclusion of ramp-up of the plants will influence the end dates and rate sensitivity.

The model used for this study does not factor in complete dynamics for operating interferences that may occur, such as those imposed by the waste transfer system. Interferences would cause delays that could cause milestones to be missed.

Figure 26. Long Term Risk Reduction by Number of Tanks Retrieved Boothe ALI Ranking (Boothe 1995).

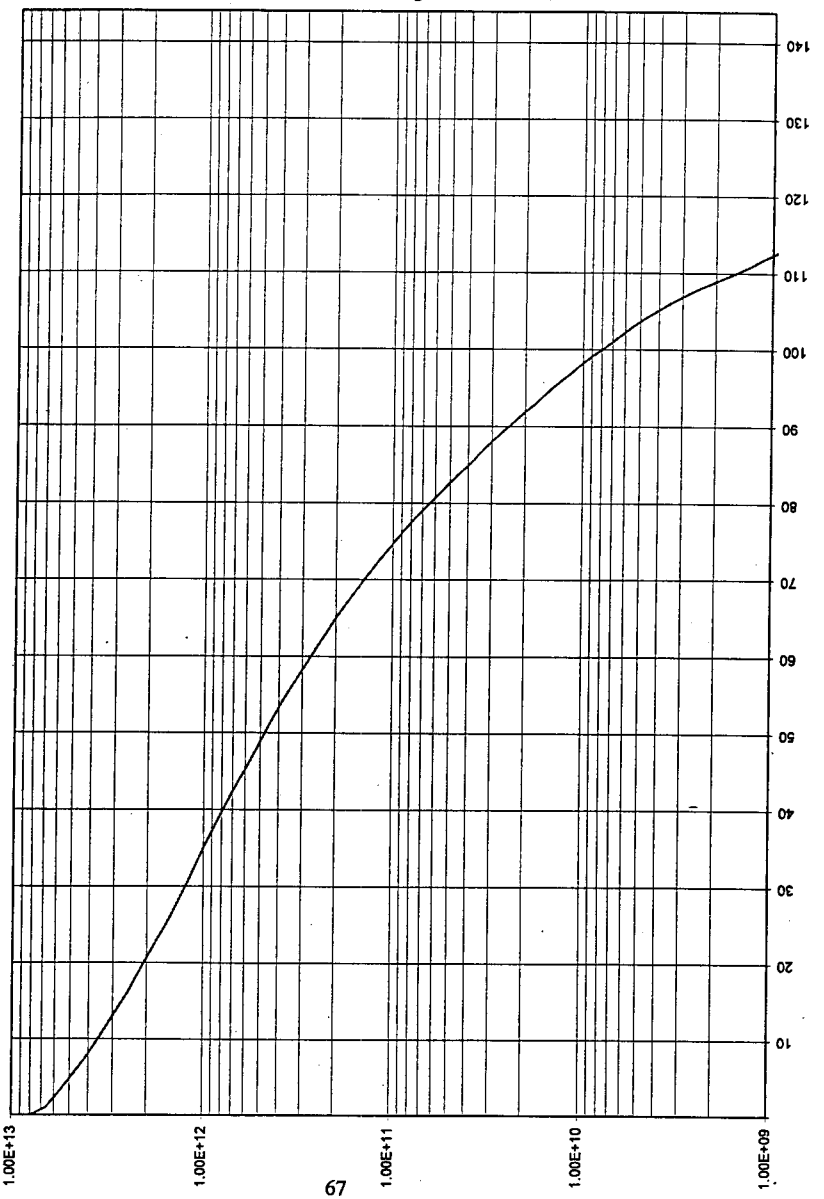
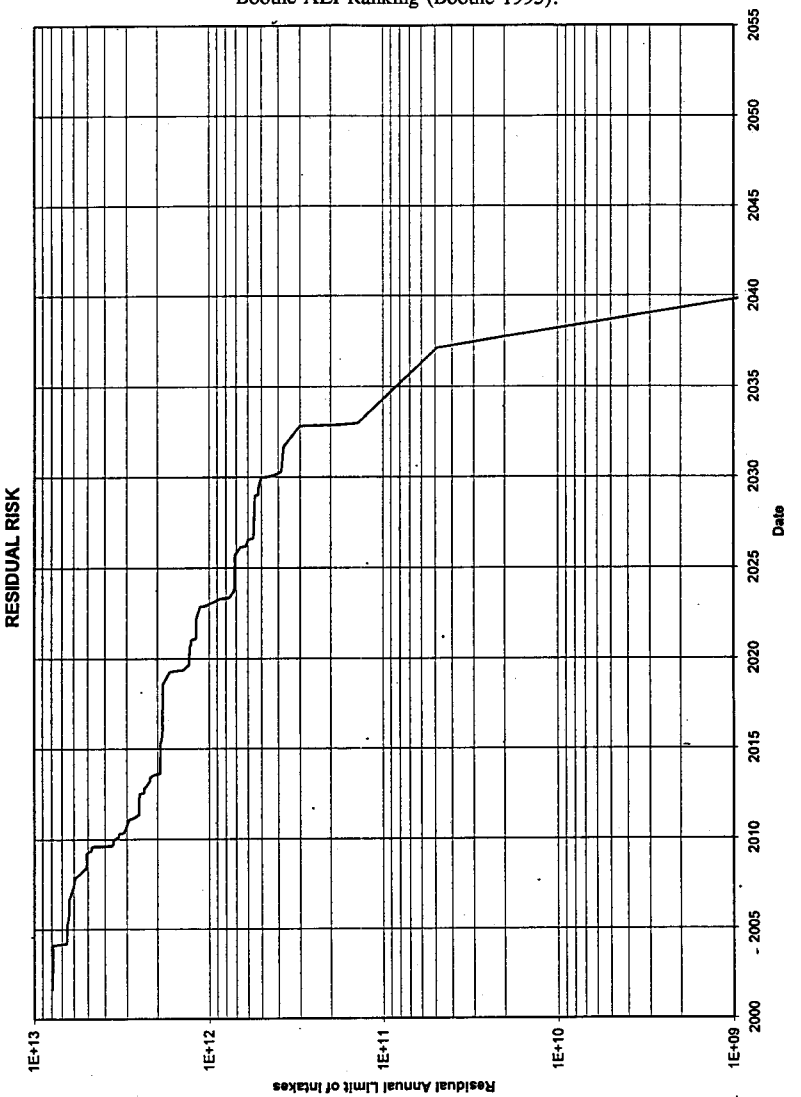


Figure 27. Long Term Risk Reduction
Boothe ALI Ranking (Boothe 1995).



Future changes to the business assumptions may impose further constraints upon the sequence (such as farm-by-farm retrieval), which would reduce the effectiveness of blending upon the HLW glass volume.

Vendor processing rates are not currently defined. Therefore, when they are incorporated, they will influence the system dynamics and the schedule.

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5.0 FUTURE WORK

The following work is proposed for FY 1997.

- Revise the decision analysis frame.
  The new context will include the Phase I and Phase II privatization effort updates, the TWRS Process Flowsheet, the updated baseline inventory, analytical data, and changes to tank baseline and emerging program element thinking. Update the values and measures to be consistent with that context. Revise the computer models to reflect this new context.

- Update the Retrieval Sequence for FY 1997.
  This update of the retrieval sequence supports Tri-Party Agreement Milestone M-45-02B (September 30, 1997).

- Update the retrieval model for sequence generation for FY 1997.
  This includes incorporation of the changes to the retrieval assumptions and incorporation of updated Phase I and Phase II privatization assumptions, and updated processing assumptions.

- Incorporate ramp-up of the LLW and HLW processing plants into the model.

- Incorporate the retrieval simulation into the G2 model.
  This would be done parallel to the SIMAN model update and the results would be compared to determine if the G2 model can be used for the retrieval sequence work. If so, it would integrate retrieval sequence, blending, Operational Waste Volume Projection (OWVP), and feed staging into a single computer mode.

- Test variations of the DST assignments to minimize or eliminate processing downtimes.

- Test starting retrieval of NW quadrant during Phase I time frame. This may eliminate the solids storage problem.

- Incorporate retrieval rampup into sequence generation.

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APPENDIX A

INDEX TO CASES

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Table A-1. Index to Cases. (Sheet 1 of 4)

CASE	SEQUENCE	BLEND	TANK INV	In-tank vs. Out-of-Tank Sludge Washing	GLASS LIMIT	SPARE TANKS	Cost Basis	No. of WRF's	Map	NOTES
201	5C1-0000	Incidental	E	In tank	A	2	C96A	2		This is sequence 2C3, but the timing is modified to account for Privatization
202	5C2-0000	Incidental	E	In tank	A	2	C96A	2		This is sequence 2C5, but the timing is modified to account for Privatization
203	5C1-0000	Incidental	E	out-of-tank	A	2	C96A	2		This is sequence 2C3, but the timing is modified to account for Privatization
204	5C2-0000	Incidental	E	out-of-tank	A	2	C96A	2		This is sequence 2C5, but the timing is modified to account for Privatization
205	5C1-0000	Incidental	E	In tank	A	2	C96A	2		This case is the same as case 201, but the sludge wash factors for FY-95 were used as a comparison
206	5C2-0000	Incidental	E	In tank	A	2	C96A	2		This case is the same as case 202, but the sludge wash factors for FY-95 were used as a comparison
207	2S5-0000	Incidental	E	In tank	A	2	C96A	2		Retrieves 35 smallest volume tanks in SE and SW quadrants plus AX-101 during Phase 1. Subsorted phases by hazard. Early starts set 1 day apart to avoid schedule delays.
208	2S5-0000	Incidental	E	out-of-tank	A	2	C96A	2		Retrieves 35 smallest volume tanks in SE and SW quadrants plus AX-101 during Phase 1. Subsorted phases by hazard. Early starts set 1 day apart to avoid schedule delays.
209	1D1-0000	Incidental	E	In tank	A	2	C96A	2		created by combining Phase 1 from sequence 2S5 and Phase 2 from sequence 5C2. Phase 1 tanks simply taken out of sequence
210	2D1-0000	Incidental	E	In tank	A	2	C96A	2		created by combining Phase 1 from sequence 2S5 and Phase 2 from sequence 5C2. Phase 1 tanks taken out of sequence, then sorted and tated to intersperse quadrats as evely as possible
211	1D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		created by combining Phase 1 from sequence 2S5 and Phase 2 from sequence 5C2. Phase 1 tanks simply taken out of sequence
212	2D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		created by combining Phase 1 from sequence 2S5 and Phase 2 from sequence 5C2. Phase 1 tanks taken out of sequence, then sorted and tated to intersperse quadrats as evely as possible
213	HG1-0000	Incidental	E	In tank	A	2	C96A	2		Tanks sorted to place high Cr tanks first and high P tanks last. Early start dates provide two year gaps to separate high Cr and high P tanks from other tanks. Early start dates set for constant rate per quadrant through 10/2017.
214	HG1-0000	Incidental	E	out-of-tank	A	2	C96A	2		High glass -- generated to determine an approximate worste case HL glass volume
215	PB1-0000	Incidental	E	In tank	A	2	C96A	2		Bad relative risk -- based upon PNL PAS data
216	PC1-0000	Incidental	E	In tank	A	2	C96A	2		Good chemical risk -- based upon PNL PAS data
217	PR1-0000	Incidental	E	In tank	A	2	C96A	2		Good radiological risk -- based upon PNL PAS data

Table A-1. Index to Cases. (Sheet 2 of 4)

CASE	SEQUENCE	BLEND	TANK INV	In-tank vs. Out-of-Tank Sludge Washing	GLASS LIMIT	SPARE TANKS	Cost Basis	No. of WRF's	Map	NOTES
218	LB1-0000	Incidental	E	In tank	A	2	C96A	2		Bad radiological risk -- based upon LANL radiological risk data
219	LG1-0000	Incidental	E	In tank	A	2	C96A	2		Good radiological risk -- based upon LANL radiological risk data
220	WL4-0000	Incidental	E	In tank	A	2	C96A	2		Retrieves watch list tanks first getting highest interim storage risk tanks during Phase 1. For Phase 2 each quadrant sorted to retrieve watch list tanks first. Early start dates set for constant retrieval rate per quadrant through 10/2017.
221	1D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		same as case 211, but the Phase 2 HLW startup was moved to 10/1/2012 to determine impact
222	1D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		Same as case 211, but the retrieval rate was increased from 7.2 m3/day to 9.7 m3/day/sluicer
223	1D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		same as case 211, but the Phase 2 HLW atartup was moved to 10/1/2012 to determine impact , and the retrieval rate was increase to 9.7 m3/day
224	1D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		Same as case 211, but the retrieval rate was increased from 7.2 m3/day to 11.6 m3/day/sluicer
225	1D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		same as 222, but with 3.5 Mt hlw solids/day
226	1D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		same as 222, but with LLw rate of 22.25 MT Na/day
227	1D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		same as 222, but with LLw rate of 22.25 MT Na/day and HLV+L28 at 3.5 MT solids oxides/day
228	1D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		Same as case 211, but the retrieval rate was increased from 7.2 m3/day to 11.6 m3/day/sluicer and HL vit rate of 3.5 MT solids oxides/day
229	1D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		same as 227, but with the retrieval rate increase to 11.6 m3/sluicer/day
230	2D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		same as case 212, but retrieval rate 11.6 m3/sluicer/day, HLW vit 3.5 MT waste oxides excluding Na & Si/day and LLW vit is 22.5 MT Na/day
231	1D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		2 truly simultaneous retrievals per quadrant
232	1D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		4 truly simultaneous retrievals per quadrant
233	1D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		4 truly simultaneous retrievals per quadrant // HLW increasted to 3.5 MT solids/day excluding Na & Si
234	1D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		4 truly simultaneous retrievals per quadrant // LLW increasted to 22.5 MT Na/day
235	1D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		4 truly simultaneous retrievals per quadrant // HLW increasted to 3.5 MT solids/day excluding Na & Si // LLW increased to 22.5 MT Na/day

Table A-1. Index to Cases. (Sheet 3 of 4)

CASE	SEQUENCE	BLEND	TANK INV	In-tank vs. Out-of-Tank Sludge Washing	GLASS LIMIT	SPARE TANKS	Cost Basis	No. of WRF's	Map	NOTES
236	1D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		4 truly simultaneous retrievals per quadrant // HLW increasted to 3.5 MT solids (14 MT glass)/day excluding Na & Si // LLW increased to 27.0 MT Na/day (180 MT glass/day)
237	1D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		4 truly simultaneous retrievals per quadrant // HLW increasted to 4 MT solids (16 MT glass)/day excluding Na & si // LLW increased to 27.0 MT Na/day (180 MT glass/day)
238	1D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		same as case 232, but Phase 2 HLW startup moved to 10/1/2012 to determine impact // 3.5 HLW
239	1D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		same as case 238, but LLV increased to 22.5 MT Na/day
240	1D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		same as case 238, but LLV increased to 22.5 MT Na/day and HLW at 3.5 MT oxides excl. Na & Si
241	1D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		Same as case 237, but HLV increased to 4.5 Mt waste oxides excl. Na & Si /day
242	2D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		same as case 237, but sequence changed to 2D1
243	2D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		same as case 240, but Phase 2 HLW startup moved to 10/1/2012 to determine impact
244	2D1-0100	Incidental	E	out-of-tank	A	2	C96A	2		same as case 243 with the NE quadrant start dates accelerated.
245	1D1-0000	Incidental	E	in-tank	A	2	C96A	2		4 truly simultaneous retrievals, otherwise same as case 209 (same as case 232, but in-tank)
246	1D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		4 truly simultaneous retrievals, 3.5 HLW and 22.5 LLW (case 235, but in-tank)
247	1D1-0010	Incidental	E	out-of-tank	A	2	C96A	2		Same as case 237 with relaxed decant storage (New Seq)
248	1D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		Same as case 237 with relaxed decant storage
249	1D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		Same as case 240 with relaxed decant storage
250	1D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		Same as case 232 with relaxed decant storage (Baseline operating conditions)
251	1D1-0000	Incidental	E	In tank	A	2	C96A	2		Same as case 245 with relaxed decant storage
252	1D3-0000	Incidental	E	out-of-tank	A	2	C96A	2		Same as case 237 with relaxed decant storage (New Seq)
253										NOT USED
254	1D4-0000	Incidental	E	out-of-Tank	A	2	C96A	2		Same as case 252 with first 4 tanks delayed to just meet TPA milestones. Baseline process rates
255	1D5-0000	Incidental	E	out-of-Tank	A	2	C96A	2		Same as case 254 with 4 HLW and 27 LLW
256	1H1-0000	Incidental	E	In-tank	A	2	C96A	2		Baseline Phase 1 assumptions to process all waste, Tank sequence ordered by hazard (Boothe Order)
257	1H2-0000	Incidental	E	In-tank	A	2	C96A	2		Baseline Phase 1 assumptions to process all waste, Tank sequence ordered by hazard (Boothe Order)
258	1D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		Same as case 248 with reduced Phs I rates
259	1D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		Same as case 249 with reduced Phs I rates

Table A-1. Index to Cases. (Sheet 4 of 4)

CASE	SEQUENCE	BLEND	TANK INV	In-tank vs. Out-of-Tank Sludge Washing	GLASS LIMIT	SPARE TANKS	Cost Basis	No. of WRF's	Map	NOTES
260	1D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		Same as case 250 with reduced Phs I rates
261	1H2-0000	Incidental	E	in tank	A	2	C96A	2		Same as case 257 with reduced Phs I rates
262										NOT USED
263	1D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		Same as case 250 without Ph-I LLW upper limit
264	1D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		Same as case 250 without Ph-I LLW or HLW upper limit
265	1D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		Same as case 250 without Phs-I LLW or HLW upper limit & with Reduced Phs-I Rates
266	1D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		Same as case 265, but with a settling tank and contractor return tank assigned to Washed Solids Storage
267	1D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		Same as case 265, but with 2 SW tanks assigned to Washed Solids Storage
268	1D1-0000	Incidental	E	out-of-tank	A	2	C96A	2		Same as case 250, but without delay for TRU processing

APPENDIX B

PROCESS MODEL DESCRIPTION

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APPENDIX B

PROCESS MODEL DESCRIPTION

This appendix describes both the dynamic and static process models used for this study. The interface between the computer models is also discussed.

B1.0 DYNAMIC SIMULATION MODEL (SIMAN)

The dynamic simulation model was developed using the SIMAN (SIMulation ANalysis) Discrete Event Simulation language from which process and/or event oriented models can be built. It is an event driven simulation of the retrieval and processing of the waste in the SSTs and DSTs. This means that the operation of the model is based upon start and completion of events rather than upon interim timing.

The SIMAN language is coded in two separate files: the experiment file, and the model file. The experiment file contains the variable and logic element declarations with their default (if any) values. The model file contains the logic structures directing the flow of abstract "entities" which control the occurrence of physical events (such as waste transfers) having associated time durations. The model is constructed in sets of command-lines called blocks, which can branch entities, assign values, seize resources, and delay entities based on process durations and logic.

Appendix C presents the assumptions for the dynamic simulation. Specific assumptions and parameter values used in the model are provided for waste retrieval, pretreatment, low-level waste (LLW) immobilization, and high-level waste (HLW) immobilization functions.

B1.1 WASTE RETRIEVAL (SINGLE-SHELL TANKS)

The retrieval model assumes past practice sluicing of all SSTs because it is the current baseline (Boomer et al. 1993). Although sluicing is assumed for this modeling effort, it is unlikely that all SSTs (especially tanks designated as leakers) will be retrieved using sluicing. However, no basis currently exists for assuming an alternative retrieval technology. Additionally, many of the dynamic aspects of this model are not retrieval method dependent. The waste will need to be diluted to approximately the same concentration for transfer no matter what retrieval method is assumed. Therefore, the waste volumes transferred to the DST's for sludge washing should be reasonable. And, the transfer rates should be similar for other retrieval methods.

The retrieval assumptions are given in Appendix C and the basics of the hydraulic retrieval process are described here. A minimum amount of retrieval water is added to each tank based on attaining *5M* sodium and ≤10 wt% solids in the diluted waste. Overall, the 1.36E8 L of SST waste is diluted to about 5.39E08 L.

It is assumed that waste in the SE and SW quadrants can be retrieved directly to DSTs (See Section 2.0), while retrieval operations in the NE and NW quadrants are assisted by waste receiver facility (WRF) annexes (Andersen 1994). The baseline assumed that the DSTs and WRFs assigned to SST waste retrieval can receive waste from as many as four simultaneous (concurrent) retrieval operations. This means that although there can only be four simultaneous retrieval operations per quadrant, all 4 of them can be retrieved to the same tank at the same time. Also, each WRF annex contains four 284 m^3 tanks to store and condition diluted waste before transferring to a DST receipt tank. Figure B-1 shows the waste flow and the DSTs assignments used for this study.

In the 200 West Area, waste is stored before cross-site transfer in previously retrieved DSTs in SY-Farm. When 3.785E06 L or more of retrieved waste is accumulated in any one tank, a cross-site transfer to 200 East Area is sought. Transfer is made at 757 L/m when the 200 East Area cross-site receiver tank becomes available. For 200 East Area, waste is transferred from the WRF directly to a dedicated waste receipt tank. However, retrieval into AN-101 is preempted as needed to perform transfer of liquids from the northeast quadrant into the DST system.

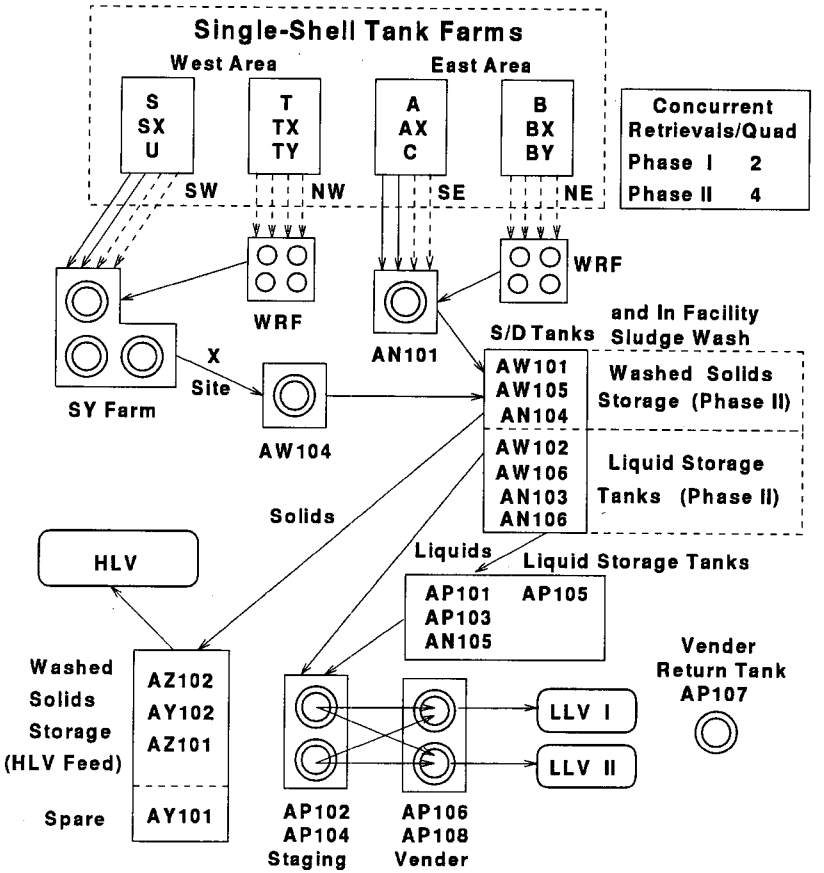
B1.2 INITIAL CONDITIONS AND DOUBLE-SHELL TANK ASSIGNMENTS

The start time of the simulation is assumed to be the beginning of calendar year (CY) 2000. Therefore, operations that involve evaporation, waste consolidation, and SST stabilization are assumed to have already occurred. For instance, tank 241-AZ-102 holds the solids from tank 241-C-106, which is to be retrieved before CY 2000 as a demonstration project. The consequences of this assumption for the simulation is that tanks 241-AZ-102 and 241-C-106 solids contribute to the same batch feeding HLW vitrification.

Last year the model assumed that four washed solids tanks were decanted to 100 wt% solids at the start of the simulation. That assumption greatly affects the blending associated with the selected sequence, and the resulting HLW glass volume and the early retrieval. Therefore, several cases were run that did not assume 100 percent solids. This year, all tanks were only decanted to 20 wt% solids. This assumption, decreases the initial blending, and affects the HLW glass volume, and decreases the amount of solids which can be stored before high-level waste vitrification startup.

During Phase I, in-tank sludge washing is always assumed. As stated in Appendix C, Section C3.0, 7 tanks are used to perform in-tank sludge washing. For cases with out-of-tank sludge washing, the tanks are transitioned to either washed solids storage tanks or liquid storage tanks. This occurs during the first 2 years of Phase II.

Figure B-1. Retrieval Model Configuration.



Waste Flow and Double-Shell Tank Assignments

At the current time, the method for processing complexed transuranic has not been determined. Therefore, other than quantities retrieved for Phase I testing, retrieval and processing of the waste contained in tanks 241-AN-102 and 241-AN-107 is delayed until CY 2019. This delay allows for the development and deployment of an appropriate method or process to precipitate the transuranics. Once emptied, tanks 241-AN-102 and 241-AN-107 are taken out of service. Tentatively, these tanks may be able to be processed any time after the Phase I testing of that waste is completed. Also, if processed earlier, those tanks may be able to be used for storing other solutions.

The solids returned to AP-107 are not modeled because their relative volumes are expected to be small (less than 1 percent) (Orme 1995) (Slaathaug 1996). Tank AP-107 is essentially modeled as a spare, that is held for whatever vendor return does occur.

The initial DST assignments are listed in Appendix C, and are also shown in Figure B-1.

B1.3 SIMULTANEOUS RETRIEVALS

During the fiscal year (FY) 1995 retrieval study, a maximum of two simultaneous retrievals per quadrant were assumed. Four waste retrieval facilities (WRF) were assumed, and the retrieval went to the WRF associated with the quadrant of the tank being retrieved. Each waste retrieval facility was assumed to contain four 284 m^3 (75,000-gal) tanks. Each tank was assumed to be able to receive waste from one SST at a time, but the SSTs were switched every 95 m^3 (25,000 gal). The waste was collected until 757 m^3 (200,000 gal) were available for transfer, then transferred to a DST. This meant that other than during the time of the transfer, the WRF should have been able to receive waste from two SSTs.

During this study, a maximum of two simultaneous retrievals per quadrant were assumed for Phase I and a maximum of four simultaneous retrievals per quadrant (16 total) were assumed for Phase II.

As mentioned in Section B-1.1 and stated in Appendix C, only two waste retrieval facilities were assumed this year. The SE and SW quadrants were assumed to be retrieved directly into DSTs. During some of the initial work for FY 1996, the simultaneous retrieval was simulated using the same type of pattern as was used for the FY 1995 studies. However, the change in the model dictated that the method of modeling simultaneous retrievals be modified to allow more than one SST to be concurrently sluicing into a single DST or WRF tank. This change was needed because the previous method of modeling simultaneous retrievals limited the retrieval rate by the number of tanks that were to be retrieved into at the same time.

B1.4 LIQUID-SOLID SEPARATION AND SLUDGE WASHING

In-tank sludge washing is the baseline assumption. It is the only type of sludge washing assumed for Phase I. Although the baseline assumption for Phase II is in-tank sludge washing, a proposed change to in-facility (out-of-tank) sludge washing has been submitted based upon Raytheon/BNFL trade Studies (Raytheon/BNFL 1994), but not approved. Therefore, in-facility sludge washing was also evaluated for Phase II. The assumptions for both in-tank and in-facility sludge washing are given in Appendix C.

The actual amount of solids dissolved is based on the chemical content of the solids being caustic washes. On average, approximately 30 percent of the solids are dissolved by caustic washing.

The in-tank sludge wash model uses a multi-tank settle/decant of retrieved waste slurry and sludge washing of dispersed solids to reduce the fraction of waste going to HLW vitrification. Effectively, a first wash has already occurred during retrieval as soluble solids are dissolved and insoluble solids are dispersed through the retrieved waste slurry. As stated, retrieved waste is stored in designated retrieved waste receipt tanks; these tanks supply feed to settle/decant tanks.

Table B-1 summarizes the processing steps and timings assumed for the simulation. This table matches with the sludge wash assumption data in Appendix C, but provides more details about the waste flow.

The details of a typical cycle are shown in Figure B-2 for the CASE.250 run. Before CY-2011, this tank was filled with SST waste that was retrieved in Phase I. Since the tank has already accumulated about a 3 m depth of sludge settled at 20 weight percent, no additional waste is added until the accumulated sludge can be washed and staged to washed sludge accumulation tanks for high level vitrification feed. In this case, the wash cannot occur until Phase II low level vitrification is on-line after 10/2011 when tank space becomes available for receiving the decanted liquid. The figure shows that the decant is made early in CY-2012 at which point a caustic wash and three water washes are performed. After the caustic wash the volume of the sludge decreases based on its chemical content. During the water washes, the interstitial liquid is diluted and then decanted to remove soluble material such as sodium, but no additional solids are removed. The effect of lowering the density of the interstitial liquid due to the water washes while keeping the settling fraction fixed is a mild increase in the sludge volume as seen in Figure B-2. After the last water wash, a transfer solution is added to reduce the solids weight fraction to 10 percent. The washed sludge awaits transfer to an available high level vitrification feed tank. For this case, the washed sludge is not transferred until the middle of 2014, since Phase II high level vitrification begins operation after 10/2013. Once the transfer is made the tank shown is reassigned to a washed sludge accumulation tank for feeding the high level vitrification plant. This case assumes that the sludge wash operation is performed in a facility (rather than in-tank) for Phase II. The six other sludge wash tanks independently function similar to the one shown in Figure B-2.

Figure B-2. Typical Settle/Decant Cycle for Sludge Washing.

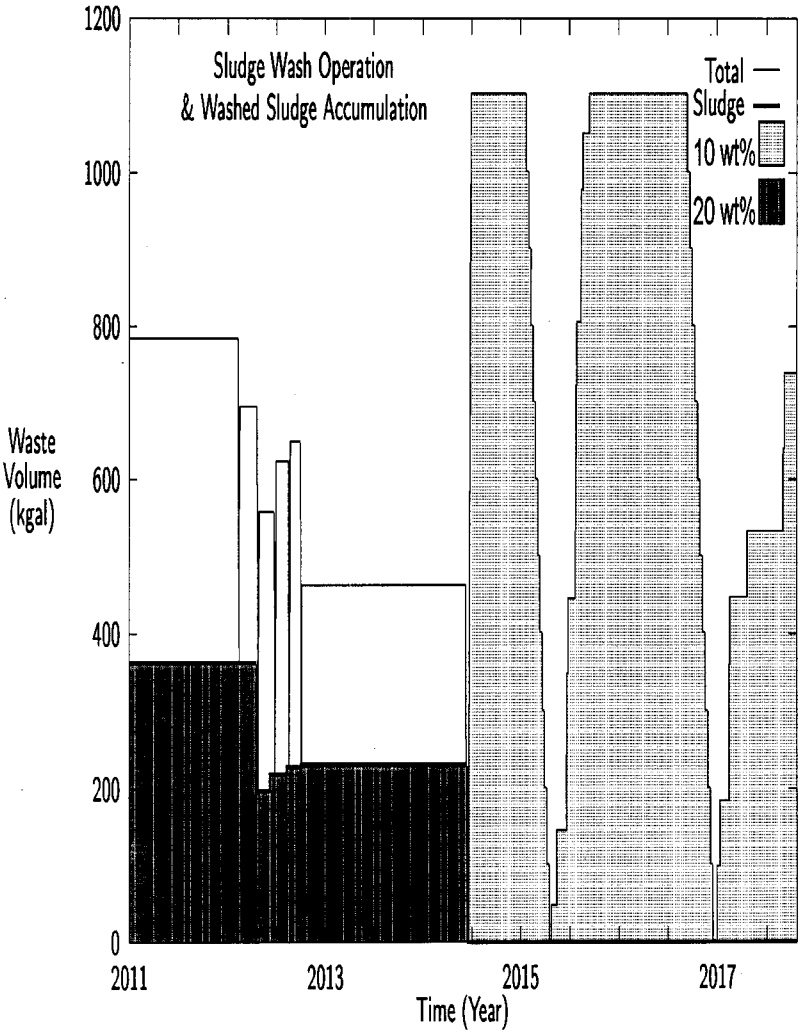


Table B-1. Processing Steps and Timings for a Settle Decant Tank.

Processing steps	Timing	
Filling tank with sludge	1. Transfer waste to processing tanks	379 kL/day
	2. Settle suspended solids	30 days
	3. Decant supernatant liquid to liquid storage tanks	379 kL/day
	4. Repeat steps 1-3 to obtain required level of sludge	As needed
Leaching sludge	5. Add 5M caustic 1:1 to waste	379 kL/day
	6. Leach solids by mixing with mixing pumps	30 days
	7. Settle suspended solids	30 days
	8. Decant supernatant liquid to liquid storage tanks	379 kL/day
Washing sludge	9. Add wash water 2:1 to waste	379 kL/day
	10. Mix waste with mixing pumps	7 days
	11. Settle suspended solids	30 days
	12. Decant supernatant liquid to liquid storage tanks	379 kL/day
	13. Repeat steps 9-12 three times	As needed
Transferring sludge	14. Add water to waste for slurry transfer at 10 wt% solids in solution	379 kL/day
	15. Transfer waste to sludge accumulation tank	379 kL/day

The wash is decanted and three additional water washes (2:1 by volume) are performed to remove interstitial sodium from the sludge. Because the density of the interstitial liquid is reduced by removal of sodium, the volume of the sludge increases slightly during the water washes. Finally, water is added to transfer the sludge to HLW accumulation tanks at a solids concentration of 10 wt% solids in solution.

B1.5 LOW-LEVEL WASTE PRETREATMENT AND IMMOBILIZATION

The assumptions associated with Low-Level Pretreatment and Immobilization are given in Appendix C. The LLW pretreatment and vitrification are modeled as close-coupled facilities. Therefore, the processes are treated as single unit within the model. The decanted liquid generated by sludge washing provides the feed into the unit. Two independent LLW processing facilities are assumed for each Phase I and Phase II.

The assumed average Phase I processing rate for each facility is 13.5 MT glass/day, which is based upon a design capacity of 18 MT glass/day operating at 75 percent efficiency. Therefore, the sodium processing rate at 20 wt% Na_2O glass loading is 2.0 MT Na/day. (Certa 1996) The Phase I LLW feed staging sequence and assumptions were obtained from the *Preliminary Low-Level Waste Feed Staging Plan* (Certa 1996).

The baseline Phase II LLW design capacity for each of the two facilities is 130 MT glass/day (preliminary Phase II input from John Holbrook dated November 1995). Therefore, the average processing rate for each facility is 97.5 MT glass per day (14.5 MT Na/day, assuming 20 wt% Na_2O in glass). This gives a total net processing rate of 195 MT of glass/day (29 MT Na/day). The rates given in the main report are total net processing rates unless otherwise noted.

The facilities are assumed to operate at the average capacity whenever feed is available for the facility to process. Batches of 3.785 ML are defined as they arrive from sludge washing. Approximately 215 batches are generated. The batch definitions in Appendix I provide information to construct the feed input to the chemical process flowsheet model for computing the actual volume of LLW glass for the selected sequence.

The Phase II processing rate was varied from the baseline rate in studies to determine an approximate rate needed to allow completion of the SST retrieval to meet the 2018 *Hanford Federal Facility Agreement and Consent Order* (Tri-Party Agreement) (Ecology et al. 1994) retrieval milestone.

B1.6 HIGH-LEVEL WASTE IMMOBILIZATION

The assumptions associated with High-Level waste vitrification are given in Appendix C. HLW vitrification facilities are assumed for both Phase I and Phase II. The DST assignments associated with HLW vitrification are given in the DST assignment section of Appendix C.

The Phase I HLW vitrification design capacity of 1.1 MT glass/day (0.27 MT waste oxides exclusive of Na and Si assuming as 25 wt% loading) is based upon values given in the *Privatization Request for Proposal* (DOE/RL 1996). The average (net) HLW processing rate based upon a 75 percent plant operating efficiency is 0.82 MT glass/day. The Phase I HLW feed staging is based upon data developed for the *Phase I High-Level Waste Pretreatment and Feed Staging Plan* (Manuel 1996).

The baseline Phase II HLW facility design capacity is 12 MT glass/day (preliminary Phase II input from John Holbrook dated November 1995). Therefore, the average (net) baseline processing rate for each facility is 9 MT glass/day assuming a 75 percent plant operating efficiency. Assuming the same waste loading as Phase I means that an average of 2.25 MT waste oxides exclusive of Na and Si is processed per day.

Approximately 35 batches of HLW solids are generated. The number of batches of HLW feed is about 50 percent greater than during FY 1995 because more stringent transfer constraints were added to account for current operating requirements (solids wt% in transfer decreased from 14 to 10 wt%. The batch definitions in Appendix H provide information to construct the feed input to the chemical process flowsheet model for computing the actual volume of HLW glass for the selected sequence.

B2.0 MODEL INTERFACE

The model interface between SIMAN and Aspen has changed significantly from the FY 1995 interface. During FY 1995, the SIMAN model calculated sludge wash results by using tank-by-tank sludge wash factors to determine the portion of sludge from each tanks which would dissolve during sludge washing. It also tracked the portions of each tank waste which were in each glass batch and provided a listing of the tanks and the portions of waste from those tanks in each glass batch. The Aspen model then used that data and the tank inventory to calculate the amount of each component in the glass feed by applying component sludge wash factors. (See Appendix C, Table C-4).

The SIMAN model was changed for the FY 1996 studies to allow it to perform sludge wash calculations based upon component sludge wash factors rather than tank-by-tank sludge wash factors. The output from SIMAN to Aspen is a list of components and the amount of each component in each batch. The batch data are then processed to estimate the amount of glass that would be produced.

B3.0 STATIC PROCESS FLOWSHEET MODEL (Aspen)

This section and Appendix C describe or reference the major assumptions and modeling methods associated used by the Aspen model. Aspen is a steady-state chemical process flowsheet simulator.

B3.1 GENERAL ASSUMPTIONS

Most of the flowsheet assumptions used in the Aspen model are the same as those used in the *Tank Waste Remediation System (TWRS) Flowsheet* (Orme 1994). As discussed in Appendix C, Sections C8.1 and C8.2, CVS glass limits were used for determining the component limits in the glass, while Orme (1995) used HWVP (lower temperature) limits. Also, some unit operation blocks extraneous to glass composition and glass volume calculations (offgas processing, concentration) were removed from the model to speed up convergence. Sludge washing/enhanced sludge washing was performed in the SIMAN model. Ion exchange was skipped so the HLW stream from ion exchange is dropped.

B3.2 GLASS SPECIFICATIONS

For each batch of waste, the ASPEN model adjusts the amount of glass formers to satisfy the glass specifications (see Appendix C). The glass volumes are minimized based upon the glass constraints given. The resulting glass compositions are used for modeling purposes and do not represent exact compositions or waste oxide loadings that might be obtained with optimization of the glass composition. (The CVS composition envelopes are typically valid for only one component at a time and should not be used to represent simultaneous bounding conditions for multiple components in the same HLW blend.)

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APPENDIX C

ASSUMPTIONS

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APPENDIX C

ASSUMPTIONS

C1.0 WASTE RETRIEVAL AND TRANSFER ASSUMPTIONS

C1.1 RETRIEVAL AND TRANSFER PROCESS ASSUMPTIONS

The retrieval model assumes past practice sluicing of all single-shell tanks (SSTs) because it is the current baseline (Boomer et al. 1993). Although sluicing is assumed for this modeling effort, it is unlikely that all SSTs (especially tanks designated as leakers) will be retrieved using sluicing. However, no basis currently exists for assuming an alternative retrieval technology. Additionally, many of the dynamic aspects of this model are not retrieval method dependent. The waste will need to be diluted to approximately the same concentration for transfer no matter which retrieval method is assumed. Therefore, the waste volumes transferred to the DST's for sludge washing should provide a reasonable representation.

Figure B-1 in Appendix B shows the waste flow and the DST assignments used for this study.

In the 200 West Area, waste is stored in previously retrieved DSTs in SY-Farm before cross-site transfer. When 3.785 E+06 L or more of retrieved waste is accumulated in any one tank, a cross-site transfer to 200 East Area is sought. Transfer is made at 757 L/m when the 200 East Area cross-site receiver tank becomes available. For 200 East Area, waste is transferred from the Waste Retrieval Facility (WRF) (NE quadrant) or SST (SE quadrant) directly to a dedicated waste receipt tank.

Table C-1 lists the major baseline retrieval and transfer assumptions used for this study.

Table C-1. Waste Retrieval and Transfer Assumptions.

Assumption	Value	Comment
Waste Transfer Rate	757 L/min diluted waste	
Average salt cake and Sludge Retrieval Rate/tank	7.2 m^3/day	The rate is estimated based upon the average historical instantaneous rate of 14.4 m^3/day in addition to sluicer availability and operating efficiency assumptions (Boomer et al. 1994) (Orme 1994).
Maximum wt% solids in Transfer Solution	10 wt% based upon the liquid density	The specific gravity of dry solids is assumed to be 3.0 During FY 1995, the liquid was transferred at approximately 14 wt% solids in solution.
Maximum Supernatant Na molarity during waste transfers	5*M*	
Maximum Simultaneous Retrievals per Quadrant Phase I Phase II	 2 4	Maximum number of simultaneous retrievals per DST is not separately restricted. See description in Appendix B, Section B1.3.

Table C-2 lists special retrieval assumptions which were used for development of the process model and retrieval sequences. These restrictions greatly affect sequence generation and modeling results (timing and glass results).

Table C-2. Special Retrieval Assumptions and Restrictions.

	Description
Phase I	During ISSTRS, retrieval can only occur from the Southeast quadrant (SE Tank Farms A, AX, and C). During the rest of Phase I, retrieval can only occur from the Southeast quadrant (A, AX, and C) and the Southwest quadrant (S, SX, and U)
Phase II	2 Waste Retrieval facilities for receiving the waste from the Northwest and Northeast quadrants. The Southeast and Southwest quadrants will be assumed to be retrieved directly.

C1.2 RETRIEVAL PROGRAM ASSUMPTIONS

The following retrieval program assumptions were used for this study.

1. Retrieval should be initiated for 35 single-shell tanks by September 30, 2010.

2. One tank farm should have complete closure by December 31, 2011.

3. Capital cost outlays during the early years should be reduced.

   - Tanks from the southeast and southwest quadrants should be given preference for early retrieval due to the shorter transfer lines and the possibility of avoiding waste receiver facility costs.

4. Phase II retrieval by private contractors begins January 18, 2012, to allow double-shell tank space for retrieval to become available.

C2.0 SLUDGE WASH ASSUMPTIONS

Table C-3 provides the sludge wash assumptions used for this study. Table C-4 lists the sludge wash efficiencies used for both the FY 1995 and FY 1996 studies. Section B1.3 of Appendix B describes how the sludge wash assumptions fit into the model interface between SIMAN and Aspen.

Table C-3. Sludge Wash Assumptions.

Assumption	Value	Comment
In-Tank Sludge Washing time for transfer in caustic wash time settling time water fill time water wash time settling time transfer out	 ~10 days (379 kL/day) 30 days 30 days 5 - 8 days (379 kL/day) 7 days 30 days 1 Mgal/10 days	Detailed cycle timing may be found in Appendix B, Table B-1. In-tank sludge washing is the baseline process for both Phase I and Phase II privatization. It is used for Phase I for all cases. Washing occurs when 27.5 wt% solids has been accumulated (Slaathaug et al. 1996)
Settled Solids Weight Percent	20%	
In-Facility Sludge Washing (Phase II only) start date 10/1/2011		Modeled as transfer in and remove at the rate needed to match LLW glass plant rate. Washing occurs at 27.5 wt% solids.

Table C-4. Component Sludge Wash Efficiencies.

Component	Wash efficiency for FY-1996[a b]	Wash efficiency for FY-1995[c d]
Aluminum	68%	85%
Chromium	64%	75%
Sodium	25%	0%
Phosphorus	74%	70%

[a]The SIMAN model used component sludge wash factors to calculate the amount of each component in the feed batches. That information was provided to the Aspen model for estimation of the glass oxides and glass volume.

[b]*TWRS Process Flowsheet*, WHC-SD-WM-TI-613, Rev. 0, (Orme 1994)

[c]During the FY 1995 studies, the SIMAN® model applied tank-by-tank sludge wash factors. Then, the SIMAN model output provided portions of tanks in each batch to the Aspen® model. The Aspen then used component sludge wash efficiencies and the tank inventory to calculate the amount of each component in the feed to the glass.

[d]*TWRS Process Flowsheet*, WHC-SD-WM-TI-613, Rev. 1, (Orme 1995)

During Phase I, in-tank sludge washing is always assumed. As stated in section C3.0 of this appendix, 7 tanks are used to perform in-tank sludge washing. For cases with out-of-tank sludge washing, the tanks are transitioned to either washed solids storage tanks or liquid storage tanks. This occurs during the first 2 years of Phase II.

Detailed information regarding the in-tank sludge wash process cycle timing is given in Appendix B, Table B-1.

C3.0 DOUBLE-SHELL TANK MODELING ASSUMPTIONS AND INITIAL TANK ASSIGNMENTS

The initial DST assignments and assumptions are provided in Table C-5. Figure B-1 in Appendix B shows the flow along with tanks assignments allowing easier visualization of the DST assumptions and assignments.

Table C-5. Double-Shell Tank Assumptions.

Tank assignment	In-tank sludge washing	In-facility sludge washing (Phase II only after)
200 East Sluicing Receiver	1 (AN-101)	1 (AN-101)
Cross-Site Transfer Receiver	1 (AW-104)	1 (AW-104)
200 West Sluicing Receivers	3 (All 3 West Area DSTs)	3 (All 3 West Area DSTs)
Sludge Wash	7	
Second Stage Settling	0[a]	0[a]
Washed Solids Storage	3	6[b]
Decanted Liquid Storage	4	
Liquid Storage		8[b]
LLW Vitrification Staging	2 (AP-102)[c] (AP-104)[c]	2 (AP-102)[c] (AP-104)[c]
LLW Vitrification Feed	2 (AP-106)[c] (AP-108)[c]	2 (AP-106)[c] (AP-108)[c]
HLW Vitrification Feed/Staging[d]	1	1
Delayed (Complexed TRU)	2	2
Spares	2	2

[a]During FY 1995 studies, 4 DSTs were assigned to be second stage settling tanks

[b]These numbers are correct only after completion of the transition of the sludge wash DSTs to liquid storage.

[c]The LLW feed staging information was obtained from the *Preliminary Low-Level Feed Staging Plan* (Certa et al. 1996)

[d]The HLW feed staging information was obtained from the *Phase I High-Level Waste Pretreatment and Feed Staging Plan* (Manuel et al. 1996).

C4.0 GLASS PLANT EFFICIENCIES

The results of the following discussion are already incorporated into the net operating rates given in the main report and in Section C5.0 of this appendix. The information is provided to give a complete picture of the assumptions used in this study.

The Privatization Request for Proposals (RFP) provided average operating capacity for both the HLW and LLW processing plants (DOE/RL 1996a). For performing modeling calculations, plant efficiencies must be assumed. The efficiencies were taken to match the assumptions provided in the *Preliminary Low-Level Waste Feed Staging Plan* (Certa et al. 1996) and the *Tank Waste Remediation Facility Configuration Study* (Boomer 1994). The total operating efficiency included both the Plant Operating Efficiency and the Feed Availability Factor. However, the SIMAN model determines when feed is available and models operation of the processing facilities accordingly. Therefore, the efficiencies were separated out and the plant operating efficiency is applied to the process facilities whenever they are operating.

Table C-6. Glass Plant Efficiencies.

	Value	Comments
Total Operating Efficiency (TOE)	60%*	
Plant Operating Efficiency (POE)	75%*	When feed is available, the plant operates at (design capacity * POE)
Feed Availability Efficiency (FAE)	80%*	Used for comparison only -- The feed availability in this model is determined through the modelling of waste transfers and processing

*These values match the values used in the *Preliminary Low-Level Waste Feed Staging Plan* (Certa et al. 1996).

C5.0 PRIVATIZATION LOW-LEVEL AND HIGH-LEVEL WASTE ASSUMPTIONS

The Phase I assumptions given in Table C-7 were developed from information given in the Privatization RFP (DOE/RL 1996a), the *Preliminary Low-Level Waste Feed Staging Plan* (Certa et al. 1996), and the *Phase I High-Level Waste Pretreatment and Feed Staging Plan* (Manuel et al. 1996).

Table C-7. Phase I Assumptions.

Assumption	Value	Comment
Phase I LAW Glass Plant		
Start Date	6/1/2002	Privatization RFP
Design capacity (each of 2 Plants)	2.7 MT Na/day	Calculated based on Privatization RFP and (Certa et al. 1996)
	18.0 MT glass/day	Calculated based on Na oxide loading given in RFP
Total net operating rate	27 MT glass/day	Design capacity * POE
Shutdown	Calculated based on each plant completing processing 5100 MT Na (Total of 10,200 MT Na)	Privatization RFP maximum quantity data
Phase I HLW Glass Plant		
Start Date	6/1/2002	Privatization RFP
Design Capacity (waste oxide exclusive of Na and Si)	0.27 MT waste oxides/day	Calculated based on Privatization RFP and efficiencies given above
(assuming 25 wt% waste oxide exclusive of Na and Si)	1.1 MT glass/day	Calculated based on waste oxide loading given in the Privatization RFP.
Net operating capacity	0.82 MT glass/day	Design capacity * POE
Shutdown	Calculated based on completion of processing 465 MT waste oxides exclusive of Na and Si	Privatization RFP Amendment 1 maximum quantity data

HLW = High-level waste
RFP = Request for Proposals.

The baseline Phase II privatization assumptions given in Table C-8 were developed from preliminary Phase II assumptions provided by John Holbrook of the Contract Support Team in November 1995.

Table C-8. Phase II Assumptions.

Assumption	Value	Comment
Phase II LAW Glass Plant		
Start Date	10/1/2011	(Penwell 1996)(Bader 1995)
Design capacity (each of 2 Plants)	19.3 MT Na/plant/day	Calculated based on 20 wt% sodium oxide loading
	130 MT glass/plant/day	Preliminary Phase II input from John Holbrook dated November 1995
total net rate for combined plants	195 MT glass/day	calculated using plant efficiency and 2 plants
Phase II HLW Glass Plant		
Start Date	10/1/2013	(Penwell 1996)(Bader 1995)
Design Capacity (waste oxide exclusive of Na and Si)	3 MT waste oxides/day	Calculated based upon waste oxide loading
(assuming 25 wt% waste oxide exclusive of Na and Si)	12 MT glass/day	Preliminary Phase II input from John Holbrook dated November 1995
Net Rate	9 MT glass/day	calculated using plant efficiency

HLW = High-level waste
LAW = Low-activity waste.

C6.0 WASTE COMPATIBILITY

Some of the waste transfer and storage compatibility rules identified in the waste transfer procedures were incorporated into the model. However, the inventory radionuclide values for inventory E, which were developed by TRAC, contained significant errors. Therefore, the rules had to be removed because they would not allow the model to work properly.

C7.0 TANK INVENTORY

Tank-by-tank inventory estimates for DSTs are derived primarily from analytical data as well as secondary information taken from process knowledge and fuel records. Sludge wash factors were obtained from the *TWRS Process Flowsheet* (Orme 1995).

The tank-by-tank inventory estimates for SSTs and DSTs used for this study were called Set E (Appendix E). However, the estimate was updated for projected transfers through 2002. In addition, the projected sludge consolidation and wash data as used by the *Phase I High-Level Waste Pretreatment and Feed Staging Plan* (Manuel et al. 1996) was incorporated.

C8.0 GLASS SPECIFICATIONS

For each batch of waste, the ASPEN model adjusts the amount of glass formers to satisfy the derived glass specifications. The resulting glass compositions are used for modeling purposes and do not represent exact compositions or waste oxide loadings that might be obtained with optimization of the glass composition. Additionally, CVS composition envelopes are typically valid for only one component at a time and should not be assumed to represent simultaneous bounding conditions for multiple components in the same HLW blend.

C8.1 HIGH-LEVEL WASTE GLASS

The HLW glass specifications (See Table C-9) used in this study are the same as those used during the FY 1995 study (Certa 1995). The specifications were derived from Table 14.4, "Constraints Defining the Qualified Composition Region (QCR)" of the *Composition Variation Study* (Hrma et al. 1994). The single-component constraints (i.e., those that define the region investigated) were adopted without change. The critical

solubility constraints were adopted with two modifications: (1) the P_2O_5 limit was changed from 0.01 to 0.03 wt% dry oxide basis and (2) the noble metals were ignored. The "statistical statement" property constraints (i.e., melt viscosity; melt electrical conductivity; PCT normalized B, Li, and Na Releases; and liquidus temperature) were ignored.

Table C-9. Derived High-Level Waste Glass Specifications (weight fraction, dry oxide basis).

Single-Component Constraints	Critical Solubility Constraints
$0.42 \leq SiO_2 \leq 0.57$	$Cr_2O_3 \leq 0.005$
$0.05 \leq B_2O_3 \leq 0.20$	$F \leq 0.017$
$0.05 \leq Na_2O \leq 0.20$	$P_2O_5 \leq 0.03$
$0.01 \leq Li_2O \leq 0.07$	$SO_3 \leq 0.005$
$0 \leq CaO \leq 0.10$	
$0 \leq MgO \leq 0.08$	
$0 \leq Fe_2O_3 \leq 0.15$	
$0 \leq Al_2O_3 \leq 0.17$	
$0 \leq ZrO_2 \leq 0.13$	

C8.2 LOW-LEVEL WASTE GLASS

As described in Penwell 1996, CVS individual component limits as modified by updated input from John Shade were used as the HLW glass component limits. The input was based on data listed in *Preliminary Low-Level Waste Feed Definition Guidance, Low-Level Waste Pretreatment Interface*, WHC-SD-WM-RD-052, Rev. 0. (Shade et al. 1995).

Table C-10. Derived Low-Level Waste Glass Specifications. (weight fraction, dry oxide basis)

Single-component constraints	Critical solubility constraints
$0.50 \leq SiO_2$	$Cr_2O_3 \leq 0.005$
$0.05 \leq Na_2O \leq 0.20$	$F \leq 0.017$
$0.10 = CaO$	$P_2O_5 \leq 0.03$
$0 \leq MgO \leq 0.08$	$SO_3 \leq 0.005$
$0.05 \leq Al_2O_3$	$Cl \leq 0.005$
$Na+K \leq 30$ wt%	

C9.0 REFERENCES

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APPENDIX D

HIGH-LEVEL WASTE BATCH DEFINITION FILE

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APPENDIX D

HIGH-LEVEL WASTE BATCH DEFINITION FILE

This is the High-Level Waste (HLW) Batch Definition File for sequence XXX (Case XXX). Section 5.1.5) contains additional details. On any given page, the batches are read from top left to bottom left then top right to bottom right.

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
1	1.553E+03	5.447E+02	3.262E+01	5.773E+02

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	1.660E+00	2.110E+02	2.127E+02	AG+
2	1.110E+03	0.000E+00	1.110E+03	AL(OH)4-
3	0.000E+00	3.800E+04	3.800E+04	AL+3
4	1.970E-03	1.060E+01	1.060E+01	AM+3
5	7.720E-02	2.400E+02	2.401E+02	AS+5
6	2.520E-01	1.740E+02	1.743E+02	B+3
7	2.470E-01	2.220E+03	2.220E+03	BA+2
8	3.670E-04	6.440E+00	6.440E+00	BE+2
9	6.470E-01	2.000E+02	2.006E+02	BI+3
10	2.790E+00	5.870E+03	5.873E+03	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	5.350E-01	4.690E+03	4.691E+03	CD+2
13	7.440E-02	4.100E+02	4.101E+02	CE+3
14	1.620E+02	5.530E+01	2.173E+02	CL-
15	1.670E-06	1.240E-02	1.240E-02	CM+3
16	5.600E-06	1.920E+00	1.920E+00	CO+3
17	2.050E+03	2.090E+04	2.295E+04	CO3-2
18	1.200E+02	0.000E+00	1.200E+02	CR(OH)4-
19	0.000E+00	6.340E+02	6.340E+02	CR+3
20	3.070E+00	1.940E+01	2.247E+01	CS+
21	1.050E+00	6.130E+00	7.180E+00	CS-137
22	6.370E-02	2.140E+02	2.141E+02	CU+2
23	1.270E+02	1.470E+02	2.740E+02	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.170E-01	7.030E+04	7.030E+04	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	2.060E+06	0.000E+00	2.160E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	3.620E-03	3.910E-01	3.946E-01	I-
31	2.570E+01	1.410E+03	1.436E+03	K+
32	2.040E-02	1.760E+03	1.760E+03	LA+3
33	7.330E-03	2.010E-01	2.011E-01	LI+
34	4.740E-01	2.950E+03	2.950E+03	MG+2
35	2.160E-01	1.990E+03	1.990E+03	MN+2
36	0.000E+00	0.000E+00	0.000E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	1.920E-01	1.590E+01	1.609E+01	MO+6
39	7.690E+03	4.420E+04	5.189E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.400E+00	3.280E+03	3.281E+03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.930E+03	2.220E+03	5.150E+03	NO2-
44	2.830E+03	1.350E+03	4.180E+03	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.410E+02	1.010E+05	1.017E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.920E+00	1.300E+03	1.302E+03	PB+4
49	7.910E+01	3.120E+03	3.199E+03	PO4-3
50	1.120E-03	3.270E-01	3.281E-01	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	4.670E-03	2.740E+01	2.740E+01	RE+7
53	5.080E-02	1.780E+02	1.781E+02	RH+3
54	1.520E-02	2.120E+02	2.120E+02	RU+3
55	1.460E-02	5.230E+02	5.230E+02	SB+5
56	7.560E-02	5.760E+02	5.761E+02	SE+6
57	1.330E+02	3.040E+04	3.053E+04	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.040E+03	5.330E+01	1.093E+03	SO4-2
61	1.010E-01	2.320E+02	2.321E+02	SR+2
62	1.170E+00	3.060E+01	3.177E+01	TCO4-
63	4.160E-02	4.480E+02	4.480E+02	TE+6
64	2.370E-02	2.370E+02	2.370E+02	TH+4
65	1.190E-02	1.440E+02	1.440E+02	TI+4
66	3.020E-01	1.280E+03	1.280E+03	TL+3
67	3.700E+02	2.250E+03	2.620E+03	TOC
68	1.660E+02	4.600E+03	4.766E+03	UO2+2
69	4.640E-03	1.220E+01	1.220E+01	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	3.470E-03	1.290E+02	1.290E+02	ZN+2
72	4.820E+00	8.350E+02	8.398E+02	ZR+4
73	4.750E-02	1.910E+04	1.910E+04	ZRO2:2H2O
74	1.615E-07	1.131E-06	1.292E-06	C14 (Ci)
75	1.201E-07	3.734E-04	3.735E-04	Sr90 (Ci)
76	0.000E+00	0.000E+00	0.000E+00	Y90 (Ci)
77	0.000E+00	0.000E+00	0.000E+00	Tc99 (Ci)
78	0.000E+00	0.000E+00	0.000E+00	Cs137 (Ci)
79	0.000E+00	0.000E+00	0.000E+00	Ba137 (Ci)
80	0.000E+00	0.000E+00	0.000E+00	U235 (Ci)
81	0.000E+00	0.000E+00	0.000E+00	U238 (Ci)
82	0.000E+00	0.000E+00	0.000E+00	Np237 (Ci)
83	0.000E+00	0.000E+00	0.000E+00	Pu238 (Ci)
84	0.000E+00	0.000E+00	0.000E+00	Pu239 (Ci)
85	0.000E+00	0.000E+00	0.000E+00	Pu240 (Ci)
86	0.000E+00	0.000E+00	0.000E+00	Pu241 (Ci)
87	0.000E+00	0.000E+00	0.000E+00	Am241 (Ci)
88	0.000E+00	0.000E+00	0.000E+00	Cm244 (Ci)
89	2.080E+06	3.704E+05	2.450E+06	Total
Tot	2.080E+06	3.704E+05	2.450E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
2	2.791E+03	3.044E+02	2.315E+01	3.276E+02

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	9.160E+00	1.390E+03	1.398E+03	AG+
2	1.980E+01	0.000E+00	1.980E+01	AL(OH)4-
3	0.000E+00	3.230E+04	3.230E+04	AL+3
4	8.330E-04	1.150E+00	1.151E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	9.340E-01	1.030E+01	1.123E+01	B+3
7	1.120E+00	3.490E+03	3.491E+03	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	2.840E+00	3.270E+02	3.298E+02	BI+3
10	1.180E+01	9.830E+03	9.842E+03	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	2.330E+00	2.970E+02	2.993E+02	CD+2
13	0.000E+00	0.000E+00	0.000E+00	CE+3
14	7.700E+02	1.570E+02	9.270E+02	CL-
15	4.910E-08	0.000E+00	4.910E-08	CM+3
16	0.000E+00	3.150E+00	3.150E+00	CO+3
17	0.000E+00	0.000E+00	0.000E+00	CO3-2
18	4.300E+01	0.000E+00	4.300E+01	CR(OH)4-
19	0.000E+00	1.130E+03	1.130E+03	CR+3
20	6.440E-01	9.690E+00	1.033E+01	CS+
21	1.510E-01	2.270E+00	2.421E+00	CS-137
22	2.810E-01	8.320E+01	8.348E+01	CU+2
23	1.850E+02	1.860E+02	3.710E+02	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	3.420E-01	4.630E+04	4.630E+04	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	1.160E+06	0.000E+00	1.160E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	8.050E+01	1.040E+03	1.120E+03	K+
32	4.640E-02	5.750E+02	5.750E+02	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	2.050E+00	4.300E+03	4.302E+03	MG+2
35	9.270E-01	2.500E+03	2.501E+03	MN+2
36	0.000E+00	0.000E+00	0.000E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	1.190E+04	5.450E+04	6.640E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	6.090E+00	1.060E+03	1.066E+03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	9.690E+02	3.490E+01	1.004E+03	NO2-
44	3.820E+02	2.720E+01	4.092E+02	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	2.100E+03	3.770E+04	3.980E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	8.310E+00	1.550E+03	1.558E+03	PB+4
49	3.550E+02	4.940E+03	5.295E+03	PO4-3
50	4.510E-01	4.250E+01	4.295E+01	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	5.220E+02	5.050E+04	5.102E+04	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.130E+03	9.410E+01	1.224E+03	SO4-2
61	1.660E-01	1.740E+02	1.742E+02	SR+2
62	1.350E+00	1.260E+01	1.395E+01	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.240E+03	5.650E+03	6.890E+03	TOC
68	5.110E+02	1.270E+03	1.781E+03	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	3.040E+01	3.040E+01	ZN+2
72	2.120E+01	1.370E+03	1.391E+03	ZR+4
73	1.460E-01	5.260E-03	1.513E-01	ZRO2:2H2O
74	0.000E+00	1.819E-08	1.819E-08	C14 (Ci)
75	5.475E-08	1.669E-04	1.670E-04	Sr90 (Ci)
76	0.000E+00	0.000E+00	0.000E+00	Y90 (Ci)
77	0.000E+00	0.000E+00	0.000E+00	Tc99 (Ci)
78	0.000E+00	0.000E+00	0.000E+00	Cs137 (Ci)
79	0.000E+00	0.000E+00	0.000E+00	Ba137 (Ci)
80	0.000E+00	0.000E+00	0.000E+00	U235 (Ci)
81	0.000E+00	0.000E+00	0.000E+00	U238 (Ci)
82	0.000E+00	0.000E+00	0.000E+00	Np237 (Ci)
83	0.000E+00	0.000E+00	0.000E+00	Pu238 (Ci)
84	0.000E+00	0.000E+00	0.000E+00	Pu239 (Ci)
85	0.000E+00	0.000E+00	0.000E+00	Pu240 (Ci)
86	0.000E+00	0.000E+00	0.000E+00	Pu241 (Ci)
87	0.000E+00	0.000E+00	0.000E+00	Am241 (Ci)
88	0.000E+00	0.000E+00	0.000E+00	Cm244 (Ci)
89	1.180E+06	2.629E+05	1.443E+06	Total
Tot	1.180E+06	2.629E+05	1.443E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
3	2.970E+03	1.321E+02	5.637E+00	1.377E+02

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	8.230E-01	0.000E+00	8.230E-01	AG+
2	2.100E+02	0.000E+00	2.100E+02	AL(OH)4-
3	0.000E+00	5.400E+03	5.400E+03	AL+3
4	5.440E-04	2.610E+00	2.611E+00	AM+3
5	8.360E-03	6.000E+01	6.001E+01	AS+5
6	1.770E-01	4.200E+01	4.218E+01	B+3
7	1.570E-01	6.680E+01	6.696E+01	BA+2
8	2.320E-05	1.610E+00	1.610E+00	BE+2
9	5.280E-01	0.000E+00	5.280E-01	BI+3
10	1.900E+00	2.790E+02	2.809E+02	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	4.250E-01	1.140E+03	1.140E+03	CD+2
13	7.510E-03	1.030E+02	1.030E+02	CE+3
14	7.630E+01	1.380E+01	9.010E+01	CL-
15	3.720E-07	3.110E-03	3.110E-03	CM+3
16	1.200E-06	1.780E-04	1.792E-04	CO+3
17	2.550E+02	5.210E+03	5.465E+03	CO3-2
18	1.280E+01	0.000E+00	1.280E+01	CR(OH)4-
19	0.000E+00	1.100E+02	1.100E+02	CR+3
20	5.360E-01	3.520E+00	4.056E+00	CS+
21	1.730E-01	1.220E+00	1.393E+00	CS-137
22	5.280E-02	4.080E+01	4.085E+01	CU+2
23	3.070E+01	3.670E+01	6.740E+01	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	3.730E-02	1.240E+04	1.240E+04	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	5.010E+05	0.000E+00	5.010E+05	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	6.190E-04	9.790E-02	9.852E-02	I-
31	1.180E+01	2.150E+02	2.268E+02	K+
32	5.690E-03	4.400E+02	4.400E+02	LA+3
33	1.000E-03	5.030E+00	5.031E+00	LI+
34	3.810E-01	8.400E+01	8.438E+01	MG+2
35	1.730E-01	3.120E+02	3.122E+02	MN+2
36	0.000E+00	0.000E+00	0.000E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	2.810E-02	3.970E+00	3.998E+00	MO+6
39	2.700E+03	3.160E+03	5.860E+03	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.120E+00	7.240E+02	7.251E+02	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	5.050E+02	5.560E+02	1.061E+03	NO2-
44	4.990E+02	3.360E+02	8.350E+02	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	2.620E+02	2.520E+04	2.546E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.550E+00	8.840E+01	8.995E+01	PB+4
49	5.640E+01	2.850E+01	8.490E+01	PO4-3
50	8.430E-02	3.290E+00	3.374E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	5.740E-04	6.840E+00	6.841E+00	RE+7
53	5.360E-03	4.460E+01	4.461E+01	RH+3
54	1.900E-03	5.290E+01	5.290E+01	RU+3
55	3.240E-03	1.310E+02	1.310E+02	SB+5
56	9.540E-03	1.440E+02	1.440E+02	SE+6
57	5.340E+01	5.120E+02	5.654E+02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	2.570E+02	2.030E+00	2.590E+02	SO4-2
61	2.950E-02	4.760E+01	4.763E+01	SR+2
62	3.230E-01	5.720E+00	6.043E+00	TCO4-
63	7.370E-03	1.120E+02	1.120E+02	TE+6
64	5.240E-03	5.920E+01	5.921E+01	TH+4
65	2.120E-03	3.600E+01	3.600E+01	TI+4
66	6.550E-02	3.190E+02	3.191E+02	TL+3
67	2.120E+02	5.620E+02	7.740E+02	TOC
68	5.620E+01	1.090E+03	1.146E+03	UO2+2
69	4.860E-04	3.040E+00	3.040E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	4.740E-04	2.760E+01	2.760E+01	ZN+2
72	3.930E+00	0.000E+00	3.930E+00	ZR+4
73	1.570E-02	4.780E+03	4.780E+03	ZRO2:2H2O
74	2.160E-08	2.804E-07	3.020E-07	C14 (Ci)
75	2.856E-08	8.345E-05	8.348E-05	Sr90 (Ci)
76	0.000E+00	0.000E+00	0.000E+00	Y90 (Ci)
77	0.000E+00	0.000E+00	0.000E+00	Tc99 (Ci)
78	0.000E+00	0.000E+00	0.000E+00	Cs137 (Ci)
79	0.000E+00	0.000E+00	0.000E+00	Ba137 (Ci)
80	0.000E+00	0.000E+00	0.000E+00	U235 (Ci)
81	0.000E+00	0.000E+00	0.000E+00	U238 (Ci)
82	0.000E+00	0.000E+00	0.000E+00	Np237 (Ci)
83	0.000E+00	0.000E+00	0.000E+00	Pu238 (Ci)
84	0.000E+00	0.000E+00	0.000E+00	Pu239 (Ci)
85	0.000E+00	0.000E+00	0.000E+00	Pu240 (Ci)
86	0.000E+00	0.000E+00	0.000E+00	Pu241 (Ci)
87	0.000E+00	0.000E+00	0.000E+00	Am241 (Ci)
88	0.000E+00	0.000E+00	0.000E+00	Cm244 (Ci)
89	5.062E+05	6.400E+04	5.702E+05	Total
Tot	5.062E+05	6.400E+04	5.702E+05	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
4	3.460E+03	1.777E+02	7.152E+00	1.849E+02

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	1.395E-02	8.857E-08	1.395E-02	AG+
2	1.846E+02	0.000E+00	1.846E+02	AL(OH)4-
3	0.000E+00	5.242E+02	5.242E+02	AL+3
4	1.865E-04	1.265E-02	1.284E-02	AM+3
5	4.919E-03	0.000E+00	4.919E-03	AS+5
6	5.286E-03	0.000E+00	5.286E-03	B+3
7	2.995E-03	1.151E+00	1.154E+00	BA+2
8	2.393E-05	0.000E+00	2.393E-05	BE+2
9	1.589E-02	1.176E-02	2.766E-02	BI+3
10	5.347E-02	1.219E+02	1.220E+02	CA+2
11	0.000E+00	2.193E+03	2.193E+03	CANCRINITE
12	7.561E-03	0.000E+00	7.561E-03	CD+2
13	7.922E-03	5.416E+01	5.417E+01	CE+3
14	2.287E+00	5.573E+00	7.859E+00	CL-
15	1.718E-07	0.000E+00	1.718E-07	CM+3
16	5.726E-07	0.000E+00	5.726E-07	CO+3
17	1.444E+02	7.568E+02	9.012E+02	CO3-2
18	8.874E+00	0.000E+00	8.874E+00	CR(OH)4-
19	0.000E+00	3.380E+01	3.380E+01	CR+3
20	2.261E-01	0.000E+00	2.261E-01	CS+
21	7.855E-02	3.170E-01	3.955E-01	CS-137
22	1.255E-03	0.000E+00	1.255E-03	CU+2
23	9.615E+00	2.237E+03	2.246E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	9.600E-02	3.703E+02	3.704E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	6.714E+05	0.000E+00	6.714E+05	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	3.113E-04	0.000E+00	3.113E-04	I-
31	3.342E+00	2.646E+03	2.649E+03	K+
32	6.857E-04	1.123E+02	1.123E+02	LA+3
33	5.403E-04	0.000E+00	5.403E-04	LI+
34	1.630E-02	0.000E+00	1.630E-02	MG+2
35	3.171E-03	0.000E+00	3.171E-03	MN+2
36	1.184E-03	3.963E+00	3.964E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	1.894E-02	0.000E+00	1.894E-02	MO+6
39	1.507E+03	1.089E+04	1.239E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.240E-02	7.734E+01	7.736E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.517E+02	1.558E+02	4.075E+02	NO2-
44	2.999E+02	1.110E+03	1.409E+03	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.942E+02	1.076E+04	1.156E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	3.430E-02	1.074E-02	4.504E-02	PB+4
49	3.987E+00	2.771E+01	3.170E+01	PO4-3
50	1.909E-03	1.690E+00	1.691E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	3.230E-04	0.000E+00	3.230E-04	RE+7
53	3.186E-03	0.000E+00	3.186E-03	RH+3
54	1.064E-03	0.000E+00	1.064E-03	RU+3
55	1.512E-03	0.000E+00	1.512E-03	SB+5
56	5.300E-03	6.464E+02	6.464E+02	SE+6
57	2.217E+00	7.038E+02	7.060E+02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	4.698E+01	3.189E+02	3.659E+02	SO4-2
61	6.595E-03	1.368E-01	1.434E-01	SR+2
62	7.224E-02	0.000E+00	7.224E-02	TCO4-
63	3.671E-03	0.000E+00	3.671E-03	TE+6
64	2.452E-03	0.000E+00	2.452E-03	TH+4
65	1.050E-03	0.000E+00	1.050E-03	TI+4
66	3.069E-02	0.000E+00	3.069E-02	TL+3
67	1.125E+01	1.153E+03	1.165E+03	TOC
68	5.227E+00	3.136E+03	3.141E+03	UO2+2
69	2.907E-04	0.000E+00	2.907E-04	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	2.555E-04	0.000E+00	2.555E-04	ZN+2
72	6.725E-02	0.000E+00	6.725E-02	ZR+4
73	1.189E-03	4.318E+04	4.318E+04	ZRO2:2H2O
74	7.316E-06	1.254E-05	1.986E-05	C14 (Ci)
75	7.525E-05	1.301E+00	1.301E+00	Sr90 (Ci)
76	1.926E-08	3.331E-04	3.331E-04	Y90 (Ci)
77	1.240E-03	2.107E-01	2.119E-01	Tc99 (Ci)
78	3.178E-04	3.275E-01	3.278E-01	Cs137 (Ci)
79	4.861E-11	5.031E-08	5.036E-08	Ba137 (Ci)
80	3.893E-03	5.951E+00	5.955E+00	U235 (Ci)
81	5.970E-01	8.314E+02	8.320E+02	U238 (Ci)
82	1.674E-05	2.377E-02	2.378E-02	Np237 (Ci)
83	2.264E-07	3.154E-04	3.156E-04	Pu238 (Ci)
84	3.917E-05	2.012E+00	2.012E+00	Pu239 (Ci)
85	2.338E-06	1.287E-01	1.287E-01	Pu240 (Ci)
86	4.639E-08	8.939E-03	8.939E-03	Pu241 (Ci)
87	1.549E-05	3.638E-02	3.640E-02	Am241 (Ci)
88	2.097E-10	3.530E-06	3.531E-06	Cm244 (Ci)
89	6.747E+05	8.121E+04	7.559E+05	Total
Tot	6.747E+05	8.121E+04	7.559E+05	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
5	5.178E+03	5.344E+02	2.151E+01	5.559E+02

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	4.194E-02	2.683E-07	4.194E-02	AG+
2	5.551E+02	0.000E+00	5.551E+02	AL(OH)4-
3	0.000E+00	1.576E+03	1.576E+03	AL+3
4	5.607E-04	3.805E-02	3.861E-02	AM+3
5	1.479E-02	0.000E+00	1.479E-02	AS+5
6	1.569E-02	0.000E+00	1.569E-02	B+3
7	9.006E-03	3.462E+00	3.471E+00	BA+2
8	7.136E-05	0.000E+00	7.136E-05	BE+2
9	4.779E-02	3.539E-02	8.317E-02	BI+3
10	1.503E-01	3.666E+02	3.668E+02	CA+2
11	0.000E+00	6.593E+03	6.593E+03	CANCRINITE
12	2.274E-02	0.000E+00	2.274E-02	CD+2
13	2.382E-02	1.629E+02	1.629E+02	CE+3
14	6.875E+00	1.676E+01	2.363E+01	CL-
15	5.165E-07	0.000E+00	5.165E-07	CM+3
16	1.722E-06	0.000E+00	1.722E-06	CO+3
17	4.343E+02	2.276E+03	2.710E+03	CO3-2
18	2.668E+01	0.000E+00	2.668E+01	CR(OH)4-
19	0.000E+00	1.016E+02	1.016E+02	CR+3
20	6.799E-01	0.000E+00	6.799E-01	CS+
21	2.362E-01	9.530E-01	1.189E+00	CS-137
22	3.775E-03	0.000E+00	3.775E-03	CU+2
23	2.891E+01	6.726E+03	6.755E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	2.887E-01	1.114E+03	1.114E+03	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	2.019E+06	0.000E+00	2.019E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	9.360E-04	0.000E+00	9.360E-04	I-
31	1.005E+01	7.955E+03	7.965E+03	K+
32	2.062E-01	3.377E+02	3.377E+02	LA+3
33	1.625E-03	0.000E+00	1.625E-03	LI+
34	4.901E-02	0.000E+00	4.901E-02	MG+2
35	9.536E-03	0.000E+00	9.536E-03	MN+2
36	3.560E-03	1.192E+01	1.192E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	5.695E-02	0.000E+00	5.695E-02	MO+6
39	4.531E+03	3.274E+04	3.727E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	6.735E-02	2.326E+02	2.326E+02	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	7.567E+02	4.686E+02	1.225E+03	NO2-
44	9.017E+02	3.337E+03	4.238E+03	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	2.388E+03	3.236E+04	3.475E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.032E-01	3.229E-02	1.354E-01	PB+4
49	3.199E+01	6.332E+01	9.531E+01	PO4-3
50	5.739E-03	5.360E+00	5.366E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	9.713E-04	0.000E+00	9.713E-04	RE+7
53	9.560E-03	0.000E+00	9.560E-03	RH+3
54	3.201E-03	0.000E+00	3.201E-03	RU+3
55	4.547E-03	0.000E+00	4.547E-03	SB+5
56	1.594E-02	1.944E+03	1.944E+03	SE+6
57	6.667E+00	2.116E+03	2.123E+03	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.413E+02	9.588E+02	1.100E+03	SO4-2
61	1.963E-02	4.113E-01	4.312E-01	SR+2
62	2.172E-01	0.000E+00	2.172E-01	TCO4-
63	1.104E-02	0.000E+00	1.104E-02	TE+6
64	7.373E-03	0.000E+00	7.373E-03	TH+4
65	3.157E-03	0.000E+00	3.157E-03	TI+4
66	9.227E-02	0.000E+00	9.227E-02	TL+3
67	3.364E+01	3.468E+03	3.502E+03	TOC
68	1.572E+01	9.429E+03	9.445E+03	UO2+2
69	8.742E-04	0.000E+00	8.742E-04	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	7.682E-04	0.000E+00	7.682E-04	ZN+2
72	2.022E-01	0.000E+00	2.022E-01	ZR+4
73	3.576E-03	1.298E+05	1.298E+05	ZRO2:2H2O
74	2.200E-05	3.771E-05	5.971E-05	C14 (Ci)
75	2.263E-04	3.913E+00	3.913E+00	Sr90 (Ci)
76	5.791E-08	1.002E-03	1.002E-03	Y90 (Ci)
77	3.727E-03	6.336E-01	6.373E-01	Tc99 (Ci)
78	9.557E-04	9.848E-01	9.857E-01	Cs137 (Ci)
79	1.462E-10	1.513E-07	1.514E-07	Ba137 (Ci)
80	1.170E-02	1.790E+01	1.791E+01	U235 (Ci)
81	1.795E+00	2.500E+03	2.502E+03	U238 (Ci)
82	5.034E-05	7.146E-02	7.151E-02	Np237 (Ci)
83	6.808E-07	9.483E-04	9.490E-04	Pu238 (Ci)
84	1.178E-04	6.051E+00	6.051E+00	Pu239 (Ci)
85	7.010E-06	3.669E-01	3.669E-01	Pu240 (Ci)
86	1.395E-07	2.688E-02	2.688E-02	Pu241 (Ci)
87	4.656E-05	1.094E-01	1.094E-01	Am241 (Ci)
88	6.335E-10	1.062E-05	1.062E-05	Cm244 (Ci)
89	2.029E+06	2.442E+05	2.273E+06	Total
Tot	2.029E+06	2.442E+05	2.273E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
6	5.218E+03	9.155E+02	3.451E+01	9.500E+02

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	5.198E-08	5.198E-08	AG+
2	1.001E+03	0.000E+00	1.001E+03	AL(OH)4-
3	0.000E+00	4.420E+03	4.420E+03	AL+3
4	0.000E+00	1.281E+00	1.281E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	2.865E-02	6.136E+02	6.136E+02	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	3.384E-02	9.066E+02	9.067E+02	BI+3
10	1.048E+00	2.656E+03	2.657E+03	CA+2
11	0.000E+00	7.233E+03	7.233E+03	CANCRINITE
12	0.000E+00	1.831E+02	1.831E+02	CD+2
13	1.579E-03	8.538E+02	8.538E+02	CE+3
14	5.650E+00	2.924E+01	3.489E+01	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	4.301E+02	2.543E+02	6.845E+02	CO3-2
18	1.014E+02	0.000E+00	1.014E+02	CR(OH)4-
19	0.000E+00	1.157E+03	1.157E+03	CR+3
20	0.000E+00	0.000E+00	0.000E+00	CS+
21	0.000E+00	3.515E-05	3.515E-05	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	2.532E+01	8.611E+01	1.114E+02	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.593E-01	2.460E+04	2.460E+04	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.459E+06	0.000E+00	3.459E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	4.567E+01	5.804E+00	5.147E+01	K+
32	3.068E-01	5.824E+03	5.824E+03	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	6.631E-02	0.000E+00	6.631E-02	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	6.698E-03	4.706E+03	4.706E+03	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.393E+03	9.785E+03	1.317E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.279E-01	4.229E+03	4.229E+03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	1.101E+03	2.836E+01	1.129E+03	NO2-
44	9.482E+02	2.569E+03	3.517E+03	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	2.325E+03	2.153E+05	2.176E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.053E+00	4.519E+03	4.520E+03	PB+4
49	2.693E+02	4.702E+03	4.971E+03	PO4-3
50	0.000E+00	1.638E+01	1.638E+01	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	0.000E+00	6.779E+04	6.779E+04	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	2.122E+02	7.245E+01	2.846E+02	SO4-2
61	1.114E-05	2.744E+01	2.744E+01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	7.385E+01	1.576E+04	1.584E+04	TOC
68	2.115E+00	1.083E+04	1.083E+04	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	5.393E-02	0.000E+00	5.393E-02	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	2.971E-02	2.697E+03	2.697E+03	ZRO2:2H2O
74	3.339E-07	1.196E-06	1.530E-06	C14 (Ci)
75	1.047E-03	1.324E+00	1.325E+00	Sr90 (Ci)
76	2.681E-07	3.389E-04	3.392E-04	Y90 (Ci)
77	4.002E-02	6.712E-02	1.271E-01	Tc99 (Ci)
78	2.033E-01	5.703E-01	7.736E-01	Cs137 (Ci)
79	3.109E-08	8.761E-08	1.187E-07	Ba137 (Ci)
80	1.667E-03	6.275E+01	6.275E+01	U235 (Ci)
81	2.476E-01	9.377E+03	9.377E+03	U238 (Ci)
82	7.920E-06	2.345E-02	2.345E-02	Np237 (Ci)
83	8.465E-09	2.901E-04	2.901E-04	Pu238 (Ci)
84	7.213E-04	1.707E+01	1.708E+01	Pu239 (Ci)
85	4.144E-05	9.688E-01	9.689E-01	Pu240 (Ci)
86	3.963E-07	2.308E-03	2.308E-03	Pu241 (Ci)
87	1.159E-04	1.287E+00	1.288E+00	Am241 (Ci)
88	2.953E-12	7.259E-08	7.260E-08	Cm244 (Ci)
89	3.469E+06	3.919E+05	3.861E+06	Total
Tot	3.469E+06	3.919E+05	3.861E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
7	5.271E+03	9.155E+02	3.454E+01	9.500E+02

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	1.171E-06	1.171E-06	AG+
2	1.467E+03	0.000E+00	1.467E+03	AL(OH)4-
3	0.000E+00	8.778E+03	8.778E+03	AL+3
4	0.000E+00	1.008E+00	1.008E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	2.281E-02	4.886E+02	4.886E+02	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	7.026E-02	1.748E+03	1.748E+03	BI+3
10	8.721E-01	3.061E+03	3.062E+03	CA+2
11	0.000E+00	2.082E+04	2.082E+04	CANCRINITE
12	0.000E+00	1.440E+02	1.440E+02	CD+2
13	1.021E-02	1.625E+03	1.625E+03	CE+3
14	8.078E+00	6.608E+01	7.416E+01	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	3.605E+02	5.960E+02	9.565E+02	CO3-2
18	1.121E+02	0.000E+00	1.121E+02	CR(OH)4-
19	0.000E+00	1.380E+03	1.380E+03	CR+3
20	0.000E+00	0.000E+00	0.000E+00	CS+
21	0.000E+00	1.898E-03	1.898E-03	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	2.284E+01	1.744E+02	1.973E+02	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	2.239E-01	2.229E+04	2.229E+04	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.459E+06	0.000E+00	3.459E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.706E+01	1.169E+01	4.875E+01	K+
32	2.442E-01	4.582E+03	4.582E+03	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	5.278E-02	0.000E+00	5.278E-02	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	4.844E-02	4.181E+03	4.181E+03	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.735E+03	1.059E+04	1.432E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.827E-01	5.804E+03	5.804E+03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	9.463E+02	4.117E+02	1.358E+03	NO2-
44	1.392E+03	6.730E+03	8.122E+03	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	2.187E+03	1.864E+05	1.886E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	6.462E-01	5.635E+03	5.636E+03	PB+4
49	4.143E+02	7.983E+03	8.398E+03	PO4-3
50	0.000E+00	1.288E+01	1.288E+01	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	0.000E+00	5.339E+04	5.339E+04	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.772E+02	1.686E+02	3.459E+02	SO4-2
61	3.772E-05	2.509E+01	2.509E+01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	6.140E+01	1.260E+04	1.266E+04	TOC
68	2.134E+00	2.913E+04	2.913E+04	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	4.293E-02	0.000E+00	4.293E-02	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	2.842E-02	3.402E+03	3.402E+03	ZRO2:2H2O
74	2.356E-06	2.396E-05	2.631E-05	C14 (Ci)
75	8.588E-04	3.814E+00	3.815E+00	Sr90 (Ci)
76	2.198E-07	9.763E-04	9.765E-04	Y90 (Ci)
77	3.384E-02	2.057E+00	2.091E+00	Tc99 (Ci)
78	1.627E-01	7.786E-01	9.413E-01	Cs137 (Ci)
79	2.487E-08	1.194E-07	1.442E-07	Ba137 (Ci)
80	1.514E-02	1.649E+02	1.649E+02	U235 (Ci)
81	2.194E+00	2.452E+04	2.452E+04	U238 (Ci)
82	4.356E-05	3.873E-01	3.874E-01	Np237 (Ci)
83	1.964E-08	8.927E-04	8.927E-04	Pu238 (Ci)
84	6.087E-04	1.554E+01	1.554E+01	Pu239 (Ci)
85	3.479E-05	8.740E-01	8.740E-01	Pu240 (Ci)
86	3.454E-07	3.662E-03	3.662E-03	Pu241 (Ci)
87	9.550E-05	1.040E+00	1.040E+00	Am241 (Ci)
88	4.060E-11	2.197E-06	2.198E-06	Cm244 (Ci)
89	3.470E+06	3.923E+05	3.862E+06	Total
Tot	3.470E+06	3.923E+05	3.862E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
8	5.343E+03	9.137E+02	3.625E+01	9.500E+02

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	2.683E-06	2.683E-06	AG+
2	2.896E+03	0.000E+00	2.896E+03	AL(OH)4-
3	0.000E+00	2.478E+04	2.478E+04	AL+3
4	0.000E+00	4.927E-01	4.927E-01	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	1.345E-02	2.596E+02	2.596E+02	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	9.409E-02	1.122E+03	1.122E+03	BI+3
10	5.703E-01	2.701E+03	2.702E+03	CA+2
11	0.000E+00	7.532E+04	7.532E+04	CANCRINITE
12	0.000E+00	7.035E+01	7.035E+01	CD+2
13	1.170E-01	2.660E+03	2.660E+03	CE+3
14	1.229E+01	2.066E+02	2.189E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	2.397E+02	1.097E+03	1.337E+03	CO3-2
18	3.026E+02	0.000E+00	3.026E+02	CR(OH)4-
19	0.000E+00	4.586E+03	4.586E+03	CR+3
20	0.000E+00	0.000E+00	0.000E+00	CS+
21	0.000E+00	3.433E-02	3.433E-02	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	1.907E+01	1.673E+02	1.863E+02	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	9.064E-01	1.834E+04	1.834E+04	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.451E+06	0.000E+00	3.451E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.073E+01	3.968E+01	6.041E+01	K+
32	1.302E-01	2.264E+03	2.264E+03	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	2.814E-02	0.000E+00	2.814E-02	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.194E-01	2.259E+03	2.259E+03	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	6.028E+03	1.149E+04	1.752E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.188E-01	2.840E+03	2.840E+03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	5.906E+02	1.224E+03	1.814E+03	NO2-
44	2.754E+03	1.535E+04	1.810E+04	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	3.091E+03	1.474E+05	1.505E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.097E-02	2.120E+02	2.121E+02	PB+4
49	3.202E+02	5.856E+03	6.177E+03	PO4-3
50	0.000E+00	6.297E+00	6.297E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	0.000E+00	2.638E+04	2.638E+04	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.220E+02	3.762E+02	4.982E+02	SO4-2
61	4.475E-04	1.972E+01	1.972E+01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	3.328E+01	6.194E+03	6.228E+03	TOC
68	1.346E+01	5.631E+04	5.632E+04	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	2.289E-02	0.000E+00	2.289E-02	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	5.527E-02	2.079E+03	2.079E+03	ZRO2:2H2O
74	2.678E-05	5.508E-05	8.186E-05	C14 (Ci)
75	1.083E-03	1.282E+01	1.283E+01	Sr90 (Ci)
76	2.772E-07	3.283E-03	3.283E-03	Y90 (Ci)
77	4.426E-02	4.565E+00	4.609E+00	Tc99 (Ci)
78	9.880E-02	1.059E+00	1.157E+00	Cs137 (Ci)
79	1.510E-08	1.620E-07	1.771E-07	Ba137 (Ci)
80	1.323E-01	1.794E+02	1.795E+02	U235 (Ci)
81	1.733E-01	2.589E+04	2.591E+04	U238 (Ci)
82	4.669E-04	8.563E-01	8.567E-01	Np237 (Ci)
83	1.705E-07	2.373E-03	2.373E-03	Pu238 (Ci)
84	9.269E-04	1.414E+01	1.414E+01	Pu239 (Ci)
85	5.039E-05	7.946E-01	7.947E-01	Pu240 (Ci)
86	7.498E-07	1.001E-02	1.001E-02	Pu241 (Ci)
87	1.220E-04	6.268E-01	6.269E-01	Am241 (Ci)
88	2.786E-11	5.592E-07	5.593E-07	Cm244 (Ci)
89	3.468E+06	4.116E+05	3.879E+06	Total
Tot	3.468E+06	4.116E+05	3.879E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
9	5.403E+03	9.136E+02	3.638E+01	9.500E+02

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	3.644E-06	3.644E-06	AG+
2	2.734E+03	0.000E+00	2.734E+03	AL(OH)4-
3	0.000E+00	2.002E+04	2.002E+04	AL+3
4	0.000E+00	5.162E-01	5.162E-01	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	1.922E-02	2.721E+02	2.721E+02	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	2.404E-01	1.651E+03	1.653E+03	BI+3
10	6.159E-01	3.140E+03	3.142E+03	CA+2
11	0.000E+00	7.467E+04	7.467E+04	CANCRINITE
12	0.000E+00	7.098E+01	7.098E+01	CD+2
13	4.487E-02	1.661E+03	1.661E+03	CE+3
14	1.792E-01	1.639E+02	1.819E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	2.610E+02	1.314E+03	1.575E+03	CO3-2
18	1.066E+02	0.000E+00	1.066E+02	CR(OH)4-
19	0.000E+00	1.304E+03	1.304E+03	CR+3
20	0.000E+00	0.000E+00	0.000E+00	CS+
21	0.000E+00	8.394E-01	8.394E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.166E+01	1.643E+04	1.646E+04	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	9.130E-01	2.020E+04	2.020E+04	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.451E+06	0.000E+00	3.451E+06	H2O
29	0.000E+00	6.176E+01	6.176E+01	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.421E+01	1.226E+03	1.260E+03	K+
32	1.398E-01	2.263E+03	2.263E+03	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	4.449E-02	0.000E+00	4.449E-02	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	9.395E-02	2.354E+03	2.354E+03	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	1.572E-02	0.000E+00	1.572E-02	MO+6
39	6.550E+03	9.538E+03	1.609E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.104E-01	3.112E+03	3.112E+03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	7.770E+02	1.156E+03	1.933E+03	NO2-
44	2.798E+03	1.439E+04	1.719E+04	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	3.897E-03	3.897E-03	NP+4
46	3.420E+03	1.269E+05	1.303E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.616E-01	2.137E+02	2.139E+02	PB+4
49	4.573E+02	7.363E+03	7.820E+03	PO4-3
50	0.000E+00	6.756E+00	6.756E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	9.001E-06	0.000E+00	9.001E-06	SE+6
57	0.000E+00	2.632E+04	2.632E+04	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.662E+02	3.814E+02	5.476E+02	SO4-2
61	9.349E-05	1.342E-01	1.342E-01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	1.268E-03	0.000E+00	1.268E-03	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	5.167E+01	6.231E+03	6.283E+03	TOC
68	6.322E+00	4.368E+04	4.369E+04	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	1.111E-01	0.000E+00	1.111E-01	ZN+2
72	1.378E-02	0.000E+00	1.378E-02	ZR+4
73	1.066E-01	2.658E+04	2.658E+04	ZRO2:2H2O
74	8.196E-05	2.835E-04	3.655E-04	C14 (Ci)
75	1.346E-03	2.973E+01	2.973E+01	Sr90 (Ci)
76	3.445E-07	7.611E-03	7.611E-03	Y90 (Ci)
77	4.628E-02	6.317E+00	6.363E+00	Tc99 (Ci)
78	9.631E-02	6.604E-01	7.567E-01	Cs137 (Ci)
79	1.501E-08	1.012E-07	1.162E-07	Ba137 (Ci)
80	9.535E-02	3.579E+02	3.580E+02	U235 (Ci)
81	1.401E-01	5.226E+04	5.227E+04	U238 (Ci)
82	2.178E-04	5.654E-01	5.656E-01	Np237 (Ci)
83	1.766E-07	2.757E-03	2.758E-03	Pu238 (Ci)
84	1.166E-03	1.913E+01	1.913E+01	Pu239 (Ci)
85	6.747E-05	1.106E+00	1.106E+00	Pu240 (Ci)
86	1.150E-06	1.551E-02	1.551E-02	Pu241 (Ci)
87	2.920E-04	1.237E+00	1.238E+00	Am241 (Ci)
88	4.618E-09	1.568E-04	1.588E-04	Cm244 (Ci)
89	3.468E+06	4.131E+05	3.881E+06	Total
Tot	3.468E+06	4.131E+05	3.881E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
10	5.499E+03	9.134E+02	3.658E+01	9.500E+02

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	7.693E-06	7.693E-06	AG+
2	3.517E+03	0.000E+00	3.517E+03	AL(OH)4-
3	0.000E+00	3.299E+04	3.299E+04	AL+3
4	0.000E+00	8.369E-04	8.369E-04	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	3.400E-03	2.155E+01	2.155E+01	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	2.791E-01	7.170E+03	7.171E+03	BI+3
10	1.904E-01	5.723E+03	5.723E+03	CA+2
11	0.000E+00	1.088E+05	1.088E+05	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	6.635E-03	8.556E+01	8.556E+01	CE+3
14	1.743E+01	2.775E+02	2.949E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	6.667E+01	1.302E+03	1.369E+03	CO3-2
18	3.281E+02	0.000E+00	3.281E+02	CR(OH)4-
19	0.000E+00	5.633E+03	5.633E+03	CR+3
20	0.000E+00	0.000E+00	0.000E+00	CS+
21	0.000E+00	8.635E-02	8.635E-02	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.457E+01	6.026E+02	6.372E+02	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.669E+00	2.151E+04	2.151E+04	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.450E+06	0.000E+00	3.450E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.958E+00	8.128E+01	8.324E+01	K+
32	0.000E+00	6.569E+01	6.569E+01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.757E-01	1.646E+02	1.648E+02	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	7.177E+03	1.598E+04	2.316E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.678E-01	1.182E+04	1.182E+04	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	1.783E+02	3.440E+02	5.224E+02	NO2-
44	3.709E+03	1.390E+04	1.761E+04	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	3.024E+03	1.098E+05	1.128E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	4.484E+00	7.999E+03	8.003E+03	PB+4
49	1.128E+03	2.166E+04	2.279E+04	PO4-3
50	0.000E+00	6.450E-03	6.450E-03	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	0.000E+00	1.412E+03	1.412E+03	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	5.454E+01	2.944E+02	3.489E+02	SO4-2
61	5.227E-05	9.367E-01	9.367E-01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	7.072E+01	1.478E+03	1.549E+03	TOC
68	1.359E+01	3.859E+04	3.861E+04	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	2.288E-01	7.625E+03	7.625E+03	ZRO2:2H2O
74	3.512E-05	2.462E-04	2.813E-04	C14 (Ci)
75	7.139E-04	1.275E+01	1.275E+01	Sr90 (Ci)
76	1.627E-07	3.264E-03	3.265E-03	Y90 (Ci)
77	3.222E-02	1.335E+01	1.338E+01	Tc99 (Ci)
78	2.574E-03	2.389E-01	2.415E-01	Cs137 (Ci)
79	3.927E-10	3.650E-08	3.689E-08	Ba137 (Ci)
80	1.810E-01	1.045E+02	1.047E+02	U235 (Ci)
81	2.254E-01	1.496E+04	1.498E+04	U238 (Ci)
82	7.046E-04	4.324E+00	4.325E+00	Np237 (Ci)
83	2.450E-07	2.552E-03	2.552E-03	Pu238 (Ci)
84	9.492E-04	1.088E+01	1.088E+01	Pu239 (Ci)
85	5.290E-05	6.170E-01	6.170E-01	Pu240 (Ci)
86	1.046E-06	1.250E-02	1.250E-02	Pu241 (Ci)
87	1.041E-04	1.908E-01	1.909E-01	Am241 (Ci)
88	5.266E-11	3.622E-06	3.622E-06	Cm244 (Ci)
89	3.469E+06	4.153E+05	3.885E+06	Total
Tot	3.469E+06	4.153E+05	3.885E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
11	5.590E+03	1.060E+03	4.229E+01	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	5.233E-06	5.233E-06	AG+
2	3.851E+03	0.000E+00	3.851E+03	AL(OH)4-
3	0.000E+00	3.213E+04	3.213E+04	AL+3
4	0.000E+00	1.137E-01	1.137E-01	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	2.770E-03	1.436E+02	1.436E+02	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	2.720E-01	3.665E+03	3.665E+03	BI+3
10	3.226E-01	5.695E+03	5.696E+03	CA+2
11	0.000E+00	1.516E+05	1.516E+05	CANCRINITE
12	0.000E+00	1.505E+01	1.505E+01	CD+2
13	2.705E-02	1.880E+03	1.880E+03	CE+3
14	1.948E+01	1.574E+02	1.769E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.118E+02	1.319E+03	1.431E+03	CO3-2
18	3.248E+02	0.000E+00	3.248E+02	CR(OH)4-
19	0.000E+00	4.532E+03	4.532E+03	CR+3
20	0.000E+00	0.000E+00	0.000E+00	CS+
21	0.000E+00	3.576E-01	3.576E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	2.770E+01	7.300E+03	7.328E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.425E+00	2.356E+04	2.357E+04	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	4.002E+06	0.000E+00	4.002E+06	H2O
29	0.000E+00	2.652E+01	2.652E+01	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.079E+01	5.339E+02	5.447E+02	K+
32	2.966E-02	4.789E+02	4.789E+02	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	1.253E-02	0.000E+00	1.253E-02	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	3.439E-02	1.001E+03	1.001E+03	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	6.746E-03	0.000E+00	6.746E-03	MO+6
39	8.383E+03	1.195E+04	2.033E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.858E-01	9.757E+03	9.757E+03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.200E+02	1.228E+03	1.548E+03	NO2-
44	5.483E+03	1.844E+04	2.393E+04	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	1.673E-03	1.673E-03	NP+4
46	3.604E+03	1.123E+05	1.159E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	2.564E+00	5.107E+03	5.112E+03	PB+4
49	7.055E+02	1.298E+04	1.369E+04	PO4-3
50	0.000E+00	1.522E+00	1.522E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	3.863E-06	0.000E+00	3.863E-06	SE+6
57	0.000E+00	6.171E+03	6.171E+03	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	8.727E+01	3.967E+02	4.840E+02	SO4-2
61	5.283E-05	4.288E+00	4.288E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	5.527E-04	0.000E+00	5.527E-04	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	6.343E+01	2.747E+03	2.811E+03	TOC
68	1.282E+01	5.037E+04	5.039E+04	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	4.236E-02	0.000E+00	4.236E-02	ZN+2
72	5.914E-03	0.000E+00	5.914E-03	ZR+4
73	1.444E-01	1.476E+04	1.476E+04	ZRO2:2H2O
74	6.199E-05	3.811E-04	4.431E-04	C14 (Ci)
75	1.322E-03	5.852E+01	5.853E+01	Sr90 (Ci)
76	3.385E-07	1.498E-02	1.498E-02	Y90 (Ci)
77	2.403E-02	1.219E+01	1.221E+01	Tc99 (Ci)
78	2.234E-02	4.193E-01	4.417E-01	Cs137 (Ci)
79	3.415E-09	6.422E-08	6.763E-08	Ba137 (Ci)
80	3.726E-01	2.593E+02	2.597E+02	U235 (Ci)
81	4.704E-01	3.805E+04	3.809E+04	U238 (Ci)
82	1.177E-04	4.974E-01	4.975E-01	Np237 (Ci)
83	3.421E-07	6.117E-03	6.118E-03	Pu238 (Ci)
84	1.728E-03	3.486E+01	3.488E+01	Pu239 (Ci)
85	1.007E-04	2.075E+00	2.075E+00	Pu240 (Ci)
86	2.164E-06	4.171E-02	4.171E-02	Pu241 (Ci)
87	3.310E-04	1.296E+00	1.296E+00	Am241 (Ci)
88	4.303E-09	2.822E-04	2.822E-04	Cm244 (Ci)
89	4.025E+06	4.802E+05	4.505E+06	Total
Tot	4.025E+06	4.802E+05	4.505E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
12	5.692E+03	1.061E+03	4.141E+01	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	5.042E-03	1.970E-05	5.062E-03	AG+
2	3.614E+03	0.000E+00	3.614E+03	AL(OH)4-
3	0.000E+00	3.084E+04	3.084E+04	AL+3
4	6.741E-05	1.915E-01	1.916E-01	AM+3
5	1.778E-03	0.000E+00	1.778E-03	AS+5
6	1.911E-03	0.000E+00	1.911E-03	B+3
7	4.404E-03	1.450E+02	1.450E+02	BA+2
8	5.839E-06	0.000E+00	5.839E-06	BE+2
9	5.030E-01	9.109E+03	9.110E+03	BI+3
10	3.941E-01	6.241E+03	6.241E+03	CA+2
11	0.000E+00	8.268E+04	8.268E+04	CANCRINITE
12	2.733E-03	1.954E+01	1.954E+01	CD+2
13	3.398E-02	2.933E+03	2.933E+03	CE+3
14	2.209E+01	4.653E+02	4.874E+02	CL-
15	6.210E-08	0.000E+00	6.210E-08	CM+3
16	2.070E-07	0.000E+00	2.070E-07	CO+3
17	1.760E+02	1.320E+03	1.496E+03	CO3-2
18	2.834E+02	0.000E+00	2.834E+02	CR(OH)4-
19	0.000E+00	4.430E+03	4.430E+03	CR+3
20	8.174E-02	0.000E+00	8.174E-02	CS+
21	2.840E-02	9.179E-02	1.202E-01	CS-137
22	4.538E-04	0.000E+00	4.538E-04	CU+2
23	5.619E+01	8.743E+02	9.305E+02	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.274E+00	3.439E+04	3.439E+04	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	4.008E+06	0.000E+00	4.008E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	1.125E-04	0.000E+00	1.125E-04	I-
31	8.335E+00	1.263E+02	1.347E+02	K+
32	3.592E-02	6.215E+02	6.215E+02	LA+3
33	1.953E-04	0.000E+00	1.953E-04	LI+
34	1.018E-02	0.000E+00	1.018E-02	MG+2
35	1.146E-03	0.000E+00	1.146E-03	MN+2
36	8.164E-02	1.638E+03	1.638E+03	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	5.361E-03	0.000E+00	5.361E-03	MO+6
39	7.293E+03	2.056E+04	2.785E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.511E-01	9.243E+03	9.243E+03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.771E+02	2.394E+03	2.871E+03	NO2-
44	3.011E+03	1.606E+04	1.907E+04	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	3.037E+03	1.320E+05	1.350E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.595E-01	1.004E+03	1.004E+03	PB+4
49	1.322E+03	2.607E+04	2.739E+04	PO4-3
50	6.900E-04	2.081E+00	2.081E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	1.168E-04	0.000E+00	1.168E-04	RE+7
53	1.152E-03	0.000E+00	1.152E-03	RH+3
54	3.848E-04	0.000E+00	3.848E-04	RU+3
55	5.467E-04	0.000E+00	5.467E-04	SB+5
56	1.916E-03	0.000E+00	1.916E-03	SE+6
57	8.143E-01	8.270E+03	8.271E+03	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.384E+02	7.524E+02	8.908E+02	SO4-2
61	2.433E-03	5.212E+00	5.215E+00	SR+2
62	2.611E-02	0.000E+00	2.611E-02	TCO4-
63	1.327E-03	0.000E+00	1.327E-03	TE+6
64	8.864E-04	0.000E+00	8.864E-04	TH+4
65	3.795E-04	0.000E+00	3.795E-04	TI+4
66	1.109E-02	0.000E+00	1.109E-02	TL+3
67	4.653E+01	3.099E+03	3.146E+03	TOC
68	9.078E+00	5.671E+04	5.672E+04	UO2+2
69	1.051E-04	0.000E+00	1.051E-04	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	6.364E-03	0.000E+00	6.364E-03	ZN+2
72	2.431E-02	0.000E+00	2.431E-02	ZR+4
73	4.258E-01	1.822E+04	1.822E+04	ZRO2:2H2O
74	5.412E-05	7.213E-04	7.754E-04	C14 (Ci)
75	3.711E-04	3.760E+01	3.760E+01	Sr90 (Ci)
76	9.500E-08	9.624E-03	9.624E-03	Y90 (Ci)
77	4.007E-02	3.684E+01	3.688E+01	Tc99 (Ci)
78	2.748E-02	9.183E-01	9.458E-01	Cs137 (Ci)
79	4.200E-09	1.405E-07	1.447E-07	Ba137 (Ci)
80	7.600E-02	2.182E+02	2.183E+02	U235 (Ci)
81	1.126E+01	3.295E+04	3.296E+04	U238 (Ci)
82	9.354E-04	9.312E+00	9.313E+00	Np237 (Ci)
83	1.499E-07	4.852E-03	4.852E-03	Pu238 (Ci)
84	8.847E-04	3.073E+01	3.073E+01	Pu239 (Ci)
85	5.342E-05	1.849E+00	1.849E+00	Pu240 (Ci)
86	1.136E-06	3.665E-02	3.665E-02	Pu241 (Ci)
87	6.470E-05	8.604E-01	8.605E-01	Am241 (Ci)
88	1.104E-09	1.970E-04	1.970E-04	Cm244 (Ci)
89	4.027E+06	4.702E+05	4.497E+06	Total
Tot	4.027E+06	4.702E+05	4.497E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
13	5.727E-03	9.152E+02	3.465E+01	9.500E+02

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	1.734E-05	1.734E-05	AG+
2	3.019E+03	0.000E+00	3.013E+03	AL(OH)4-
3	0.000E+00	2.744E+04	2.744E+04	AL+3
4	0.000E+00	8.340E-03	8.340E-03	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	1.691E-09	1.249E+01	1.249E+01	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	6.320E-01	8.578E+03	8.579E+03	BI+3
10	1.813E-01	3.250E+03	3.250E+03	CA+2
11	0.000E+00	6.589E+04	6.589E+04	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.552E-01	2.550E+04	2.550E+04	CE+3
14	1.195E+01	2.271E+02	2.390E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	4.813E+01	1.219E+03	1.267E+03	CO3-2
18	5.664E+01	0.000E+00	5.664E+01	CR(OH)4-
19	0.000E+00	8.204E+02	8.204E+02	CR+3
20	0.000E+00	0.000E+00	0.000E+00	CS+
21	0.000E+00	1.396E-02	1.396E-02	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	5.327E+01	1.066E+03	1.119E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	7.235E-01	1.575E+04	1.575E+04	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.460E+06	0.000E+00	3.460E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.363E+00	4.862E+01	4.998E+01	K+
32	0.000E+00	1.034E-03	1.034E-03	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	6.391E-02	2.319E+03	2.319E+03	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.773E+03	1.520E+04	1.998E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.125E-01	4.347E+03	4.347E+03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	1.790E+02	2.351E+03	2.530E+03	NO2-
44	2.100E+03	2.686E+04	2.896E+04	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.579E+03	7.668E+04	7.845E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	5.071E-02	1.573E+01	1.578E+01	PB+4
49	1.362E+03	2.775E+04	2.911E+04	PO4-3
50	0.000E+00	5.064E-02	5.064E-02	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	3.132E-02	2.410E+02	2.410E+02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	5.250E+01	5.119E+02	5.644E+02	SO4-2
61	2.001E-05	6.057E-01	6.058E-01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.405E+01	1.218E+02	1.359E+02	TOC
68	5.792E+00	5.031E+04	5.031E+04	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	7.550E-01	3.660E+04	3.660E+04	ZRO2:2H2O
74	8.433E-05	4.829E-04	5.672E-04	C14 (Ci)
75	6.084E-05	3.750E+00	3.750E+00	Sr90 (Ci)
76	1.557E-08	9.599E-04	9.599E-04	Y90 (Ci)
77	4.914E-02	3.088E+01	3.093E+01	Tc99 (Ci)
78	3.072E-03	1.039E+00	1.042E+00	Cs137 (Ci)
79	4.693E-10	1.589E-07	1.594E-07	Ba137 (Ci)
80	1.035E+00	1.142E+02	1.152E+02	U235 (Ci)
81	1.566E+02	1.696E+04	1.712E+04	U238 (Ci)
82	1.240E-03	6.700E+00	6.701E+00	Np237 (Ci)
83	5.599E-09	1.416E-03	1.418E-03	Pu238 (Ci)
84	4.154E-04	1.101E-01	1.101E-01	Pu239 (Ci)
85	2.574E-05	6.633E-01	6.633E-01	Pu240 (Ci)
86	6.444E-07	1.708E-02	1.708E-02	Pu241 (Ci)
87	3.752E-05	2.256E-01	2.257E-01	Am241 (Ci)
88	5.378E-10	3.266E-05	3.266E-05	Cm244 (Ci)
89	3.473E+06	3.935E+05	3.867E+06	Total
Tot	3.473E+06	3.935E+05	3.867E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
14	5.885E+03	9.154E+02	3.463E+01	9.500E+02

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	5.879E-05	5.879E-05	AG+
2	2.125E+03	0.000E+00	2.125E+03	AL(OH)4-
3	0.000E+00	1.672E+04	1.672E+04	AL+3
4	0.000E+00	9.074E-05	9.074E-05	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	3.660E-12	3.566E+01	3.566E+01	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	6.086E-01	7.879E+03	7.880E+03	BI+3
10	1.422E-01	3.033E+03	3.033E+03	CA+2
11	0.000E+00	6.183E+04	6.183E+04	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	5.504E-01	3.461E+04	3.461E+04	CE+3
14	1.067E+01	1.995E+02	2.102E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	5.103E+01	1.459E+03	1.510E+03	CO3-2
18	1.657E+01	0.000E+00	1.657E+01	CR(OH)4-
19	0.000E+00	1.923E+02	1.923E+02	CR+3
20	0.000E+00	0.000E+00	0.000E+00	CS+
21	0.000E+00	1.518E-04	1.518E-04	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	6.385E+01	9.932E+02	1.057E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	7.526E-01	1.445E+04	1.445E+04	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.461E+06	0.000E+00	3.461E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.085E+00	3.644E+01	3.753E+01	K+
32	0.000E+00	3.836E-06	3.836E-06	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	2.867E-02	2.518E+03	2.518E+03	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.734E+03	1.412E+04	1.885E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	9.299E-02	4.313E+03	4.313E+03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	1.360E+02	2.253E+03	2.389E+03	NO2-
44	1.738E+03	3.167E+04	3.341E+04	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.896E+03	6.670E+04	6.860E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	7.329E-02	6.718E-01	7.451E-01	PB+4
49	1.222E+03	2.153E+04	2.275E+04	PO4-3
50	0.000E+00	5.510E-04	5.510E-04	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	2.484E-03	4.526E+02	4.526E+02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	6.291E+01	5.592E+02	6.221E+02	SO4-2
61	4.686E-05	2.762E+00	2.762E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.856E+01	4.195E+02	4.380E+02	TOC
68	1.163E+01	7.147E+04	7.148E+04	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.052E+00	3.561E+04	3.561E+04	ZRO2:2H2O
74	3.301E-04	1.129E-03	1.459E-03	C14 (Ci)
75	2.873E-04	1.006E+01	1.006E+01	Sr90 (Ci)
76	7.355E-08	2.576E-03	2.576E-03	Y90 (Ci)
77	2.262E-01	7.584E-01	7.607E-01	Tc99 (Ci)
78	4.756E-02	5.441E-00	5.489E-00	Cs137 (Ci)
79	7.264E-09	8.317E-07	8.389E-07	Ba137 (Ci)
80	1.076E+00	1.577E+02	1.587E+02	U235 (Ci)
81	1.622E+02	2.281E+04	2.297E+04	U238 (Ci)
82	4.531E-03	1.360E+01	1.360E+01	Np237 (Ci)
83	9.606E-08	1.832E-03	1.832E-03	Pu238 (Ci)
84	4.925E-04	1.046E+01	1.046E+01	Pu239 (Ci)
85	2.930E-05	6.166E-01	6.167E-01	Pu240 (Ci)
86	7.940E-07	1.732E-02	1.732E-02	Pu241 (Ci)
87	1.777E-04	5.656E-01	5.658E-01	Am241 (Ci)
88	4.873E-09	1.542E-04	1.542E-04	Cm244 (Ci)
89	3.473E+06	3.933E+05	3.866E+06	Total
Tot	3.473E+06	3.933E+05	3.866E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
15	5.983E-03	9.154E+02	3.464E+01	9.500E+02

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	2.849E-05	2.849E-05	AG+
2	1.804E+03	0.000E+00	1.804E+03	AL(OH)4-
3	0.000E+00	1.276E+04	1.276E+04	AL+3
4	0.000E+00	6.559E-07	6.559E-07	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	3.417E+01	3.417E+01	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	6.234E-01	7.235E+03	7.235E+03	BI+3
10	1.800E-01	3.506E+03	3.506E+03	CA+2
11	0.000E+00	7.435E+04	7.435E+04	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	4.627E-02	7.337E+03	7.337E+03	CE+3
14	1.312E+01	2.110E+02	2.241E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	5.790E+01	1.580E+03	1.638E+03	CO3-2
18	1.858E+01	0.000E+00	1.858E+01	CR(OH)4-
19	0.000E+00	1.895E+02	1.895E+02	CR+3
20	0.000E+00	0.000E+00	0.000E+00	CS+
21	0.000E+00	1.098E-06	1.098E-06	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	7.433E+01	1.261E+03	1.335E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	8.828E-01	1.628E+04	1.628E+04	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.460E+06	0.000E+00	3.460E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.007E+00	1.863E+02	1.883E+02	K+
32	3.980E-03	1.595E+02	1.595E+02	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	3.489E-02	8.274E+03	8.274E+03	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.906E+03	1.317E+04	1.808E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.200E-01	6.241E+03	6.241E+03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	1.696E+02	1.995E+03	2.164E+03	NO2-
44	2.288E+03	3.653E+04	3.881E+04	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	2.148E+03	5.957E+04	6.171E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.061E-01	4.750E-01	5.811E-01	PB+4
49	7.846E+02	1.165E+04	1.243E+04	PO4-3
50	0.000E+00	3.983E-06	3.983E-06	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	3.692E-05	4.515E+02	4.515E+02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.589E+01	6.753E+02	7.512E+02	SO4-2
61	7.598E-02	3.036E+03	3.036E+03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.513E+01	6.257E+02	6.508E+02	TOC
68	1.269E+01	9.402E+04	9.403E+04	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	8.298E-01	3.199E+04	3.199E+04	ZRO2:2H2O
74	1.076E-04	6.071E-04	7.147E-04	C14 (Ci)
75	4.475E-04	1.903E+01	1.903E+01	Sr90 (Ci)
76	1.146E-07	4.872E-03	4.872E-03	Y90 (Ci)
77	1.039E-01	5.254E+01	5.265E+01	Tc99 (Ci)
78	4.474E-03	1.568E+00	1.573E+00	Cs137 (Ci)
79	6.835E-10	2.397E-07	2.404E-07	Ba137 (Ci)
80	2.122E-01	2.020E+02	2.023E+02	U235 (Ci)
81	3.003E+01	2.875E+04	2.878E+04	U238 (Ci)
82	1.469E-03	7.128E+00	7.130E+00	Np237 (Ci)
83	1.463E-07	3.022E-03	3.022E-03	Pu238 (Ci)
84	6.609E-04	1.492E+01	1.492E+01	Pu239 (Ci)
85	4.072E-05	9.123E-01	9.124E-01	Pu240 (Ci)
86	1.267E-06	2.864E-02	2.864E-02	Pu241 (Ci)
87	1.728E-04	6.902E-01	6.904E-01	Am241 (Ci)
88	4.014E-09	1.638E-04	1.638E-04	Cm244 (Ci)
89	3.473E+06	3.933E+05	3.866E+06	Total
Tot	3.473E+06	3.933E+05	3.866E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
16	6.295E+03	1.062E+03	4.019E+01	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	3.296E-05	3.296E-05	AG+
2	2.793E+03	0.000E+00	2.793E+03	AL(OH)4-
3	0.000E+00	2.283E+04	2.283E+04	AL+3
4	0.000E+00	3.656E-02	3.656E-02	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	1.472E-06	2.824E+01	2.824E+01	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	6.431E-01	8.530E+03	8.531E+03	BI+3
10	2.250E-01	3.970E+03	3.970E+03	CA+2
11	0.000E+00	7.647E+04	7.647E+04	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.476E-01	1.630E+04	1.630E+04	CE+3
14	1.519E+01	4.070E+02	4.221E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	6.478E+01	1.757E+03	1.822E+03	CO3-2
18	1.972E+02	0.000E+00	1.972E+02	CR(OH)4-
19	0.000E+00	3.060E+03	3.060E+03	CR+3
20	0.000E+00	0.000E+00	0.000E+00	CS+
21	0.000E+00	6.148E-02	6.148E-02	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	6.153E+01	1.124E+03	1.186E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	8.731E-01	1.790E+04	1.790E+04	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	4.014E+06	0.000E+00	4.014E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.163E+00	1.483E+02	1.505E+02	K+
32	1.497E-03	4.020E+01	4.020E+01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	7.562E-02	4.345E+03	4.345E+03	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	5.655E+03	1.892E+04	2.458E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.335E-01	7.050E+03	7.050E+03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.263E+02	3.167E+03	3.393E+03	NO2-
44	2.690E+03	3.380E+04	3.649E+04	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	2.132E+03	8.224E+04	8.437E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.060E-01	1.798E+03	1.799E+03	PB+4
49	1.244E+03	2.326E+04	2.450E+04	PO4-3
50	0.000E+00	2.220E-01	2.220E-01	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	2.799E-02	4.010E+02	4.010E+02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.440E+01	8.040E+02	8.784E+02	SO4-2
61	2.846E-02	7.636E+02	7.636E+02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.204E+01	9.089E+02	9.309E+02	TOC
68	9.745E+00	9.285E+04	9.286E+04	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	7.426E-01	3.353E+04	3.353E+04	ZRO2:2H2O
74	1.493E-04	7.192E-04	8.684E-04	C14 (Ci)
75	1.283E-04	8.973E+00	8.973E+00	Sr90 (Ci)
76	3.285E-06	2.297E-03	2.297E-03	Y90 (Ci)
77	1.237E-01	5.566E+01	5.579E+01	Tc99 (Ci)
78	8.717E-03	2.006E+00	2.015E+00	Cs137 (Ci)
79	1.331E-09	3.067E-07	3.080E-07	Ba137 (Ci)
80	5.523E-01	1.844E+02	1.850E+02	U235 (Ci)
81	8.291E+01	2.709E+04	2.717E+04	U238 (Ci)
82	3.058E-03	1.111E+01	1.111E+01	Np237 (Ci)
83	9.490E-08	2.415E-03	2.415E-03	Pu238 (Ci)
84	5.768E-04	1.479E+01	1.479E+01	Pu239 (Ci)
85	3.561E-05	8.931E-01	8.931E-01	Pu240 (Ci)
86	9.278E-07	2.306E-02	2.306E-02	Pu241 (Ci)
87	6.356E-05	4.213E-01	4.214E-01	Am241 (Ci)
88	1.480E-09	8.599E-05	8.599E-05	Cm244 (Ci)
89	4.029E+06	4.564E+05	4.465E+06	Total
Tot	4.029E+06	4.564E+05	4.485E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
17	6.196E+03	1.062E+03	4.019E+01	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	1.505E-05	1.505E-05	AG+
2	3.651E+03	0.000E+00	3.651E+03	AL(OH)4-
3	0.000E+00	3.065E+04	3.065E+04	AL+3
4	0.000E+00	6.157E-08	6.157E-08	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	2.419E+01	2.419E+01	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	3.245E-01	7.190E+03	7.191E+03	BI+3
10	2.293E-01	3.915E+03	3.916E+03	CA+2
11	0.000E+00	9.458E+04	9.458E+04	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	3.071E-02	7.040E+03	7.040E+03	CE+3
14	1.491E+01	2.609E+02	2.758E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	5.563E+01	1.623E+03	1.679E+03	CO3-2
18	3.491E+01	0.000E+00	3.491E+01	CR(OH)4-
19	0.000E+00	3.958E+02	3.958E+02	CR+3
20	0.000E+00	0.000E+00	0.000E+00	CS+
21	0.000E+00	1.030E-07	1.030E-07	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	5.060E+01	1.372E+03	1.422E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	9.365E-01	1.752E+04	1.752E+04	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	4.013E+06	0.000E+00	4.013E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.236E+00	1.748E+02	1.770E+02	K+
32	2.049E-09	1.161E-02	1.161E-02	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	5.224E-02	7.604E+03	7.604E+03	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	5.541E+03	1.497E+04	2.051E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.461E-01	6.098E+03	6.098E+03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.404E+02	2.925E+03	3.166E+03	NO2-
44	3.447E+03	5.647E+04	5.991E+04	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	2.237E+03	6.110E+04	6.333E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.349E-01	9.763E-01	1.111E+00	PB+4
49	2.973E+02	5.450E+03	5.748E+03	PO4-3
50	0.000E+00	3.739E-07	3.739E-07	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	2.620E-07	6.616E-01	6.616E-01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.157E+01	9.321E+02	1.004E+03	SO4-2
61	3.899E-02	2.262E+01	2.262E+01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.685E+01	9.445E+02	9.714E+02	TOC
68	4.602E+00	4.706E+04	4.707E+04	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.170E+00	6.560E+04	6.560E+04	ZRO2:2H2O
74	1.737E-05	3.431E-04	3.604E-04	C14 (Ci)
75	1.280E-04	1.095E+01	1.095E+01	Sr90 (Ci)
76	3.278E-08	2.802E-03	2.803E-03	Y90 (Ci)
77	1.613E-02	2.776E+01	2.778E+01	Tc99 (Ci)
78	2.355E-03	2.298E+00	2.301E+00	Cs137 (Ci)
79	3.600E-10	3.511E-07	3.514E-07	Ba137 (Ci)
80	2.646E-01	1.947E+02	1.950E+02	U235 (Ci)
81	4.272E+01	2.876E+04	2.880E+04	U238 (Ci)
82	2.263E-04	3.748E+00	3.749E+00	Np237 (Ci)
83	9.672E-08	2.995E-03	2.996E-03	Pu238 (Ci)
84	5.792E-04	1.832E+01	1.832E+01	Pu239 (Ci)
85	3.539E-05	1.112E+00	1.112E+00	Pu240 (Ci)
86	6.620E-07	2.774E-02	2.774E-02	Pu241 (Ci)
87	4.065E-05	3.062E-01	3.062E-01	Am241 (Ci)
88	5.788E-10	4.937E-05	4.938E-05	Cm244 (Ci)
89	4.029E+06	4.564E+05	4.485E+06	Total
Tot	4.029E+06	4.564E+05	4.485E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
16	6.274E+03	9.153E+02	3.467E+01	9.500E+02

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	9.176E-06	9.176E-06	AG+
2	3.351E+03	0.000E+00	3.351E+03	AL(OH)4-
3	0.000E+00	2.869E+04	2.869E+04	AL+3
4	0.000E+00	6.602E-11	6.602E-11	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	1.672E+01	1.672E+01	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	2.516E-01	9.414E+03	9.415E+03	BI+3
10	2.216E-01	3.019E+03	3.019E+03	CA+2
11	0.000E+00	9.894E+04	9.894E+04	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	7.457E-02	1.019E+04	1.019E+04	CE+3
14	1.388E+01	2.538E+02	2.677E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	5.803E+01	1.297E+03	1.355E+03	CO3-2
18	5.574E+01	0.000E+00	5.574E+01	CR(OH)4-
19	0.000E+00	7.355E+02	7.355E+02	CR+3
20	0.000E+00	0.000E+00	0.000E+00	CS+
21	0.000E+00	1.439E-10	1.439E-10	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	1.305E+01	8.918E+02	9.048E+02	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	8.418E-01	1.445E+04	1.445E+04	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.459E+06	0.000E+00	3.459E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.817E+00	4.061E+01	4.242E+01	K+
32	2.676E-07	6.264E-02	6.264E-02	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	6.377E-02	2.703E+03	2.703E+03	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	5.050E+03	1.577E+04	2.082E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.420E-01	4.645E+03	4.646E+03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.336E+02	2.674E+03	2.908E+03	NO2-
44	3.564E+03	5.375E+04	5.732E+04	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.663E+03	6.695E+04	6.861E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	6.759E-02	7.144E-01	7.820E-01	PB+4
49	7.427E+02	1.607E+04	1.682E+04	PO4-3
50	0.000E+00	5.223E-10	5.223E-10	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	3.421E-11	3.508E-02	3.508E-02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	5.149E+01	8.315E+02	8.830E+02	SO4-2
61	1.489E-04	2.195E+01	2.195E+01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.720E+01	6.199E+02	6.371E+02	TOC
68	1.837E+00	2.653E+04	2.653E+04	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	3.634E-01	3.520E+04	3.520E+04	ZRO2:2H2O
74	1.208E-05	1.905E-04	2.026E-04	C14 (Ci)
75	5.006E-05	5.826E+00	5.826E+00	Sr90 (Ci)
76	1.261E-08	1.491E-03	1.491E-03	Y90 (Ci)
77	1.157E-02	1.777E+01	1.778E+01	Tc99 (Ci)
78	3.339E-03	1.782E+00	1.786E+00	Cs137 (Ci)
79	5.115E-10	2.722E-07	2.727E-07	Ba137 (Ci)
80	1.649E-01	4.320E+02	4.322E+02	U235 (Ci)
81	2.485E+01	6.530E+04	6.532E+04	U238 (Ci)
82	2.018E-04	2.686E+00	2.686E+00	Np237 (Ci)
83	3.321E-08	1.619E-03	1.619E-03	Pu238 (Ci)
84	1.727E-04	8.262E+00	8.262E+00	Pu239 (Ci)
85	1.003E-05	4.815E-01	4.815E-01	Pu240 (Ci)
86	2.239E-07	1.082E-02	1.082E-02	Pu241 (Ci)
87	9.658E-06	1.057E-01	1.057E-01	Am241 (Ci)
88	1.317E-10	1.856E-05	1.858E-05	Cm244 (Ci)
89	3.474E+06	3.937E+05	3.868E+06	Total
Tot	3.474E+06	3.937E+05	3.868E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
19	6.359E+03	9.153E+02	3.467E+01	9.500E+02

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	6.453E-06	6.453E-06	AG+
2	4.134E+03	0.000E+00	4.134E+03	AL(OH)4-
3	0.000E+00	4.169E+04	4.169E+04	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	1.551E+01	1.551E+01	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	1.966E-01	6.483E+03	6.483E+03	BI+3
10	2.066E-01	3.446E+03	3.446E+03	CA+2
11	0.000E+00	8.646E+04	8.646E+04	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.019E-01	1.061E+04	1.061E+04	CE+3
14	1.214E+01	1.927E+02	2.049E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	4.750E+01	9.595E+02	1.007E+03	CO3-2
18	1.650E+02	0.000E+00	1.650E+02	CR(OH)4-
19	0.000E+00	2.926E+03	2.926E+03	CR+3
20	0.000E+00	0.000E+00	0.000E+00	CS+
21	0.000E+00	0.000E+00	0.000E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	1.879E+01	6.483E+02	6.671E+02	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	7.511E-01	1.552E+04	1.552E+04	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.459E+06	0.000E+00	3.459E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.328E+00	2.534E+01	2.666E+01	K+
32	2.451E-09	1.655E-04	1.656E-04	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	6.185E-02	1.387E+03	1.387E+03	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.847E+03	1.240E+04	1.725E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.297E-01	4.920E+03	4.921E+03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	1.887E+02	1.721E+03	1.910E+03	NO2-
44	3.524E+03	3.757E+04	4.110E+04	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.510E+03	9.885E+04	1.004E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	4.767E-02	4.819E-01	5.296E-01	PB+4
49	5.257E+02	1.247E+04	1.299E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	0.000E+00	9.271E-05	9.271E-05	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	4.012E+01	5.072E+02	5.473E+02	SO4-2
61	2.334E-04	2.440E+01	2.440E+01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.281E+01	4.011E+02	4.139E+02	TOC
68	2.150E+00	2.721E+04	2.721E+04	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	3.246E-01	2.727E+04	2.727E+04	ZRO2:2H2O
74	1.245E-05	1.380E-04	1.505E-04	C14 (Ci)
75	6.566E-05	6.422E+00	6.422E+00	Sr90 (Ci)
76	1.666E-08	1.644E-03	1.644E-03	Y90 (Ci)
77	1.154E-02	1.261E+01	1.263E+01	Tc99 (Ci)
78	3.253E-03	1.202E+00	1.205E+00	Cs137 (Ci)
79	4.990E-10	1.838E-07	1.843E-07	Ba137 (Ci)
80	1.402E-01	4.496E+02	4.497E+02	U235 (Ci)
81	2.084E+01	6.802E+04	6.804E+04	U238 (Ci)
82	1.907E-04	1.842E+00	1.842E+00	Np237 (Ci)
83	3.226E-08	1.442E-03	1.442E-03	Pu238 (Ci)
84	1.883E-04	8.309E+00	8.309E+00	Pu239 (Ci)
85	1.092E-05	4.748E-01	4.748E-01	Pu240 (Ci)
86	2.309E-07	9.873E-03	9.873E-03	Pu241 (Ci)
87	1.268E-05	1.096E-01	1.096E-01	Am241 (Ci)
88	1.134E-10	1.192E-05	1.192E-05	Cm244 (Ci)
89	3.474E+06	3.937E+05	3.867E+06	Total
Tot	3.474E+06	3.937E+05	3.867E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
20	6.457E+03	1.062E+03	4.020E+01	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	5.969E-06	5.969E-06	AG+
2	4.125E+03	0.000E+00	4.125E+03	AL(OH)4-
3	0.000E+00	3.867E+04	3.867E+04	AL+3
4	0.000E+00	9.077E-10	9.077E-10	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	1.647E+01	1.647E+01	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	3.563E-01	1.134E+04	1.134E+04	BI+3
10	2.103E-01	4.152E+03	4.152E+03	CA+2
11	0.000E+00	1.082E+05	1.082E+05	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	8.667E-02	7.169E+03	7.170E+03	CE+3
14	1.307E+01	2.118E+02	2.249E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	4.545E+01	1.150E+03	1.195E+03	CO3-2
18	9.152E+01	0.000E+00	9.152E+01	CR(OH)4-
19	0.000E+00	1.519E+03	1.519E+03	CR+3
20	0.000E+00	0.000E+00	0.000E+00	CS+
21	0.000E+00	1.519E-09	1.519E-09	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	4.268E+01	1.072E+03	1.115E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	9.310E-01	1.975E+04	1.975E+04	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	4.013E+06	0.000E+00	4.013E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.520E+00	3.888E+01	4.040E+01	K+
32	7.042E-06	3.107E-01	3.107E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	3.576E-02	1.569E+03	1.569E+03	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	5.511E+03	1.504E+04	2.055E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.360E-01	6.468E+03	6.468E+03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	1.998E+02	1.801E+03	2.001E+03	NO2-
44	3.276E+03	3.911E+04	4.239E+04	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.898E+03	9.569E+04	9.759E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.161E-01	7.806E-01	8.968E-01	PB+4
49	8.403E+02	1.823E+04	1.907E+04	PO4-3
50	0.000E+00	5.512E-09	5.512E-09	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.717E-04	1.983E-01	1.985E-01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	6.957E+01	7.838E+02	8.534E+02	SO4-2
61	3.262E-04	2.384E+01	2.384E+01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.092E+01	6.774E+02	6.983E+02	TOC
68	3.721E+00	3.585E+04	3.585E+04	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	9.307E-01	4.794E+04	4.794E+04	ZRO2:2H2O
74	7.999E-06	1.231E-04	1.311E-04	C14 (Ci)
75	8.415E-05	6.184E+00	6.184E+00	Sr90 (Ci)
76	2.154E-08	1.583E-03	1.583E-03	Y90 (Ci)
77	8.636E-03	1.164E+01	1.165E+01	Tc99 (Ci)
78	1.894E-03	1.080E+00	1.082E+00	Cs137 (Ci)
79	2.892E-10	1.650E-07	1.652E-07	Ba137 (Ci)
80	2.738E-01	2.449E+02	2.451E+02	U235 (Ci)
81	4.103E+01	3.669E+04	3.673E+04	U238 (Ci)
82	1.878E-04	1.915E+00	1.915E+00	Np237 (Ci)
83	7.455E-08	2.155E-03	2.155E-03	Pu238 (Ci)
84	4.210E-04	1.165E+01	1.165E+01	Pu239 (Ci)
85	2.497E-05	6.846E-01	6.847E-01	Pu240 (Ci)
86	5.879E-07	1.571E-02	1.571E-02	Pu241 (Ci)
87	2.000E-05	1.239E-01	1.239E-01	Am241 (Ci)
88	1.609E-10	1.426E-05	1.426E-05	Cm244 (Ci)
89	4.029E+06	4.565E+05	4.486E+06	Total
Tot	4.029E+06	4.565E+05	4.486E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
21	6.530E-03	9.153E+02	3.466E+01	9.500E+02

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	4.683E-06	4.683E-06	AG+
2	1.627E+03	0.000E+00	1.627E+03	AL(OH)4-
3	0.000E+00	3.391E+04	3.391E+04	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	2.023E+01	2.023E+01	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	2.567E-01	5.618E+03	5.618E+03	BI+3
10	2.429E-01	3.483E+03	3.483E+03	CA+2
11	0.000E+00	1.192E+05	1.192E+05	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	6.331E-02	1.048E+04	1.048E+04	CE+3
14	1.273E+01	1.973E+02	2.100E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	4.974E+01	9.471E+02	9.968E+02	CO3-2
18	3.054E+02	0.000E+00	3.054E+02	CR(OH)4-
19	0.000E+00	4.932E+03	4.932E+03	CR+3
20	0.000E+00	0.000E+00	0.000E+00	CS+
21	0.000E+00	0.000E+00	0.000E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	1.666E+01	4.461E+02	4.630E+02	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	8.413E-01	1.469E+04	1.469E+04	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.459E+06	0.000E+00	3.459E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.471E+00	2.026E+01	2.173E+01	K+
32	4.670E-11	5.060E-06	5.060E-06	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	6.514E-02	1.403E+03	1.403E+03	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	5.012E+03	1.210E+04	1.711E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.502E-01	4.917E+03	4.918E+03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	1.950E+02	1.796E+03	1.991E+03	NO2-
44	3.920E+03	4.711E+04	5.103E+04	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.700E+03	6.567E+04	6.737E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	6.076E-02	5.527E-01	6.135E-01	PB+4
49	3.244E+02	6.413E+03	6.738E+03	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.763E-02	2.408E-01	2.565E-01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	4.785E+01	6.012E+02	6.490E+02	SO4-2
61	1.653E-04	2.031E+01	2.031E+01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.436E+01	3.740E+02	3.884E+02	TOC
68	2.037E+00	2.600E+04	2.600E+04	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.760E-01	1.324E+04	1.324E+04	ZRO2:2H2O
74	7.926E-06	9.375E-05	1.016E-04	C14 (Ci)
75	5.739E-05	9.714E+00	9.714E+00	Sr90 (Ci)
76	2.237E-08	2.487E-03	2.487E-03	Y90 (Ci)
77	9.668E-03	9.895E+00	9.906E+00	Tc99 (Ci)
78	1.796E-03	7.355E-01	7.373E-01	Cs137 (Ci)
79	2.752E-10	1.126E-07	1.128E-07	Ba137 (Ci)
80	2.152E-01	3.348E+02	3.350E+02	U235 (Ci)
81	3.190E+01	5.066E+04	5.069E+04	U238 (Ci)
82	1.496E-04	1.497E+00	1.497E+00	Np237 (Ci)
83	4.006E-08	1.870E-03	1.870E-03	Pu238 (Ci)
84	1.894E-04	9.685E+00	9.686E+00	Pu239 (Ci)
85	1.056E-05	5.353E-01	5.354E-01	Pu240 (Ci)
86	2.013E-07	9.927E-03	9.927E-03	Pu241 (Ci)
87	1.521E-05	1.580E-01	1.580E-01	Am241 (Ci)
88	1.257E-10	1.272E-05	1.272E-05	Cm244 (Ci)
89	3.474E+06	3.937E+05	3.868E+06	Total
Tot	3.474E+06	3.937E+05	3.868E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
22	6.602E-03	9.153E+02	3.467E+01	9.500E+02

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	4.679E-06	4.679E-06	AG+
2	2.241E+03	0.000E+00	2.241E+03	AL(OH)4-
3	0.000E+00	1.726E+04	1.726E+04	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	7.251E+00	7.251E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	3.868E-01	8.769E+03	8.770E+03	BI+3
10	2.571E-01	2.690E+03	2.691E+03	CA+2
11	0.000E+00	1.155E+05	1.155E+05	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	6.706E-02	8.889E+03	8.889E+03	CE+3
14	1.453E+01	3.732E+02	3.877E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	5.646E+01	1.258E+03	1.315E+03	CO3-2
18	9.966E+01	0.000E+00	9.966E+01	CR(OH)4-
19	0.000E+00	1.281E+03	1.281E+03	CR+3
20	0.000E+00	0.000E+00	0.000E+00	CS+
21	0.000E+00	0.000E+00	0.000E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.960E+01	1.051E+03	1.090E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	8.761E-01	1.148E+04	1.148E+04	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.459E+06	0.000E+00	3.459E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.187E+00	1.343E+02	1.365E+02	K+
32	3.591E-03	1.177E+02	1.177E+02	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	8.619E-02	6.557E+03	6.557E+03	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	5.165E+03	1.603E+04	2.121E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.634E-01	5.256E+03	5.257E+03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.316E+02	2.725E+03	2.957E+03	NO2-
44	3.696E+03	4.685E+04	5.054E+04	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.699E+03	5.963E+04	6.133E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	4.670E-02	8.773E-01	9.240E-01	PB+4
49	1.111E+03	2.108E+04	2.219E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	6.772E-02	4.662E+02	4.663E+02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	5.266E+01	9.140E+02	9.667E+02	SO4-2
61	6.838E-02	2.251E+03	2.251E+03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.438E+01	4.571E+02	4.715E+02	TOC
68	4.912E+00	5.554E+04	5.555E+04	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	5.455E-02	7.067E+03	7.067E+03	ZRO2:2H2O
74	6.426E-06	8.450E-05	9.092E-05	C14 (Ci)
75	3.523E-05	4.836E+00	4.836E+00	Sr90 (Ci)
76	9.018E-09	1.238E-03	1.238E-03	Y90 (Ci)
77	7.876E-03	1.092E+01	1.092E+01	Tc99 (Ci)
78	9.276E-04	4.785E-01	4.794E-01	Cs137 (Ci)
79	1.419E-10	7.320E-08	7.335E-08	Ba137 (Ci)
80	2.202E-02	2.432E+02	2.432E+02	U235 (Ci)
81	2.903E+00	3.635E+04	3.635E+04	U238 (Ci)
82	1.313E-04	1.900E+00	1.900E+00	Np237 (Ci)
83	3.601E-08	1.696E-03	1.696E-03	Pu238 (Ci)
84	1.781E-04	5.517E+00	5.517E+00	Pu239 (Ci)
85	1.142E-05	3.271E-01	3.271E-01	Pu240 (Ci)
86	3.665E-07	8.939E-03	8.940E-03	Pu241 (Ci)
87	7.997E-06	6.918E-02	6.919E-02	Am241 (Ci)
88	1.303E-10	1.725E-05	1.725E-05	Cm244 (Ci)
89	3.474E+06	3.937E+05	3.867E+06	Total
Tot	3.474E+06	3.937E+05	3.867E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
23	6.687E-03	9.153E+02	3.467E+01	9.500E+02

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	5.502E-06	5.502E-06	AG+
2	1.904E+03	0.000E+00	1.904E+03	AL(OH)4-
3	0.000E+00	1.403E+04	1.403E+04	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	7.979E+00	7.979E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	3.950E-01	1.250E+04	1.250E+04	BI+3
10	2.512E-01	3.603E+03	3.603E+03	CA+2
11	0.000E+00	1.023E+05	1.023E+05	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	9.229E-02	9.497E+03	9.497E+03	CE+3
14	1.453E+01	3.589E+02	3.734E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	5.407E+01	1.407E+03	1.461E+03	CO3-2
18	5.539E+01	0.000E+00	5.539E+01	CR(OH)4-
19	0.000E+00	5.971E+02	5.971E+02	CR+3
20	0.000E+00	0.000E+00	0.000E+00	CS+
21	0.000E+00	0.000E+00	0.000E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	5.034E+01	1.567E+03	1.618E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	9.127E-01	1.817E+04	1.817E+04	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.459E+06	0.000E+00	3.459E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.473E+00	3.125E+02	3.150E+02	K+
32	5.290E-03	3.098E+02	3.098E+02	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	7.653E-02	1.366E+04	1.366E+04	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	5.249E+03	1.638E+04	2.163E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.605E-01	6.458E+03	6.458E+03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.323E+02	2.290E+03	2.522E+03	NO2-
44	3.771E+03	3.914E+04	4.291E+04	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.772E+03	5.550E+04	5.727E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	6.600E-02	6.672E-01	7.332E-01	PB+4
49	1.135E+03	2.171E+04	2.284E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	3.620E-02	1.495E+02	1.496E+02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.142E+01	9.403E+02	1.012E+03	SO4-2
61	1.006E-01	5.897E+03	5.897E+03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.799E+01	5.992E+02	6.172E+02	TOC
68	2.940E+00	5.905E+04	5.905E+04	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	6.519E-02	7.259E+03	7.260E+03	ZRO2:2H2O
74	1.132E-05	1.066E-04	1.179E-04	C14 (Ci)
75	3.220E-05	2.801E+00	2.801E+00	Sr90 (Ci)
76	8.242E-09	7.169E-04	7.169E-04	Y90 (Ci)
77	1.605E-02	1.498E+01	1.499E+01	Tc99 (Ci)
78	2.177E-03	6.411E-01	6.433E-01	Cs137 (Ci)
79	3.327E-10	9.799E-08	9.832E-08	Ba137 (Ci)
80	3.487E-02	1.141E+02	1.141E+02	U235 (Ci)
81	5.254E+00	1.670E+04	1.671E+04	U238 (Ci)
82	2.834E-04	1.937E+00	1.938E+00	Np237 (Ci)
83	1.795E-08	8.857E-04	8.857E-04	Pu238 (Ci)
84	4.251E-05	4.100E+00	4.100E+00	Pu239 (Ci)
85	2.329E-06	2.468E-01	2.468E-01	Pu240 (Ci)
86	5.583E-08	7.542E-03	7.542E-03	Pu241 (Ci)
87	1.170E-05	1.267E-01	1.267E-01	Am241 (Ci)
88	3.108E-10	3.020E-05	3.020E-05	Cm244 (Ci)
89	3.474E+06	3.936E+05	3.867E+06	Total
Tot	3.474E+06	3.936E+05	3.867E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
24	6.768E-03	1.062E+03	4.023E+01	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	6.833E-06	6.833E-06	AG+
2	3.272E+03	0.000E+00	3.272E+03	AL(OH)4-
3	0.000E+00	2.668E+04	2.668E+04	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	1.190E+01	1.190E+01	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	4.719E-01	1.174E+04	1.174E+04	BI+3
10	3.030E-01	3.711E+03	3.711E+03	CA+2
11	0.000E+00	1.311E+05	1.311E+05	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.230E-01	1.569E+04	1.569E+04	CE+3
14	1.699E+01	4.013E+02	4.182E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	6.402E+01	1.441E+03	1.505E+03	CO3-2
18	1.317E+02	0.000E+00	1.317E+02	CR(OH)4-
19	0.000E+00	1.807E+03	1.807E+03	CR+3
20	0.000E+00	0.000E+00	0.000E+00	CS+
21	0.000E+00	0.000E+00	0.000E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.093E+01	1.022E+03	1.052E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.042E+00	1.803E+04	1.803E+04	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	4.013E+06	0.000E+00	4.013E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.026E+00	8.750E+01	8.952E+01	K+
32	4.257E-04	6.385E+01	6.385E+01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	9.910E-02	4.991E+03	4.991E+03	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	6.051E+03	1.948E+04	2.553E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.907E-01	6.208E+03	6.209E+03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.666E+02	3.263E+03	3.530E+03	NO2-
44	4.407E+03	5.880E+04	6.321E+04	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.914E+03	7.744E+04	7.935E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	6.020E-02	9.364E-01	9.966E-01	PB+4
49	1.185E+03	2.370E+04	2.489E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	3.152E-02	2.687E+02	2.687E+02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.318E+01	1.129E+03	1.202E+03	SO4-2
61	8.171E-03	1.223E+03	1.223E+03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.593E+01	5.192E+02	5.351E+02	TOC
68	2.449E+00	3.844E+04	3.844E+04	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	8.700E-02	9.498E+03	9.499E+03	ZRO2:2H2O
74	1.010E-05	1.314E-04	1.415E-04	C14 (Ci)
75	4.413E-05	6.205E+00	6.205E+00	Sr90 (Ci)
76	1.130E-08	1.588E-03	1.588E-03	Y90 (Ci)
77	1.465E-02	1.877E+01	1.879E+01	Tc99 (Ci)
78	2.120E-03	8.915E-01	8.937E-01	Cs137 (Ci)
79	3.241E-10	1.363E-07	1.366E-07	Ba137 (Ci)
80	4.848E-02	2.708E+02	2.709E+02	U235 (Ci)
81	7.204E+00	4.103E+04	4.103E+04	U238 (Ci)
82	2.102E-04	2.394E+00	2.394E+00	Np237 (Ci)
83	2.013E-08	1.591E-03	1.591E-03	Pu238 (Ci)
84	5.799E-05	5.460E+00	5.460E+00	Pu239 (Ci)
85	2.684E-06	2.897E-01	2.897E-01	Pu240 (Ci)
86	3.700E-08	5.291E-03	5.291E-03	Pu241 (Ci)
87	1.455E-05	1.692E-01	1.692E-01	Am241 (Ci)
88	3.153E-10	3.865E-05	3.866E-05	Cm244 (Ci)
89	4.030E+06	4.568E+05	4.487E+06	Total
Tot	4.030E+06	4.568E+05	4.487E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
25	6.843E+03	9.153E+02	3.467E+01	9.500E-02

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	5.648E-06	5.648E-06	AG+
2	2.012E+03	0.000E+00	2.012E+03	AL(OH)4-
3	0.000E+00	1.541E+04	1.541E+04	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	6.798E+00	6.798E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	5.194E-01	2.169E+04	2.169E+04	BI+3
10	2.345E-01	4.381E+03	4.382E+03	CA+2
11	0.000E+00	1.225E+05	1.225E+05	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.297E-01	1.019E+04	1.019E+04	CE+3
14	1.400E+01	2.482E+02	2.622E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	4.985E+01	1.099E+03	1.149E+03	CO3-2
18	3.429E+01	0.000E+00	3.429E+01	CR(OH)4-
19	0.000E+00	3.686E+02	3.686E+02	CR+3
20	0.000E+00	0.000E+00	0.000E+00	CS+
21	0.000E+00	0.000E+00	0.000E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.800E+01	1.177E+03	1.215E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	9.797E-01	2.443E+04	2.443E+04	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.459E+06	0.000E+00	3.459E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.615E+00	5.276E+01	5.437E+01	K+
32	4.821E-06	4.137E+01	4.137E+01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	6.005E-02	2.730E+03	2.730E+03	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	5.247E+03	1.758E+04	2.283E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.518E-01	8.486E+03	8.486E+03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.041E+02	1.609E+03	1.813E+03	NO2-
44	5.422E+03	2.604E+04	3.146E+04	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.645E+03	5.832E+04	5.997E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	8.150E-02	6.020E-01	6.835E-01	PB+4
49	1.556E+03	2.957E+04	3.112E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.614E-02	1.274E+02	1.274E+02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.046E+02	1.216E+03	1.321E+03	SO4-2
61	8.626E-03	7.898E+02	7.898E+02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.911E+01	6.316E+02	6.507E+02	TOC
68	2.954E+00	3.279E+04	3.279E+04	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.299E-01	9.969E+03	9.969E+03	ZRO2:2H2O
74	1.356E-05	1.036E-04	1.172E-04	C14 (Ci)
75	3.323E-05	2.427E+00	2.427E+00	Sr90 (Ci)
76	6.505E-09	6.213E-04	6.213E-04	Y90 (Ci)
77	1.533E-02	1.404E+01	1.405E+01	Tc99 (Ci)
78	3.050E-03	7.613E-01	7.644E-01	Cs137 (Ci)
79	4.661E-10	1.164E-07	1.168E-07	Ba137 (Ci)
80	7.023E-02	7.478E+01	7.485E+01	U235 (Ci)
81	1.058E-01	1.127E+04	1.128E+04	U238 (Ci)
82	3.569E-04	2.331E+00	2.331E+00	Np237 (Ci)
83	1.772E-08	6.122E-04	6.122E-04	Pu238 (Ci)
84	4.777E-05	1.707E+00	1.707E+00	Pu239 (Ci)
85	1.819E-06	6.557E-02	6.557E-02	Pu240 (Ci)
86	1.617E-08	6.742E-04	6.743E-04	Pu241 (Ci)
87	1.267E-05	9.396E-02	9.397E-02	Am241 (Ci)
88	3.720E-10	2.879E-05	2.879E-05	Cm244 (Ci)
89	3.474E+06	3.937E+05	3.867E+06	Total
Tot	3.474E+06	3.937E+05	3.867E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
26	6.934E+03	9.153E+02	3.467E+01	9.500E-02

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	3.500E-06	3.500E-06	AG+
2	2.288E+03	0.000E+00	2.288E+03	AL(OH)4-
3	0.000E+00	1.835E+04	1.835E+04	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	5.770E+00	5.770E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	5.959E-01	1.337E+04	1.337E+04	BI+3
10	2.510E-01	4.206E+03	4.206E+03	CA+2
11	0.000E+00	8.779E+04	8.779E+04	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	8.177E-02	6.857E+03	6.857E+03	CE+3
14	1.308E+01	2.257E+02	2.387E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	5.052E+01	1.330E+03	1.381E+03	CO3-2
18	4.731E+01	0.000E+00	4.731E+01	CR(OH)4-
19	0.000E+00	5.869E+02	5.869E+02	CR+3
20	0.000E+00	0.000E+00	0.000E+00	CS+
21	0.000E+00	0.000E+00	0.000E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	4.879E+01	9.949E+02	1.044E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.038E+00	2.378E+04	2.378E+04	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.460E+06	0.000E+00	3.460E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.376E+00	1.140E+01	1.278E+01	K+
32	1.435E-05	6.714E-01	6.714E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	4.059E-02	9.226E+02	9.226E+02	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	5.147E+03	1.436E+04	1.951E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.626E-01	7.058E+03	7.058E+03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	1.739E+02	1.139E+03	1.312E+03	NO2-
44	3.216E+03	2.330E+04	2.652E+04	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.763E+03	6.636E+04	6.813E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	8.929E-02	4.370E-01	5.263E-01	PB+4
49	1.204E+03	2.096E+04	2.216E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.586E-02	8.099E+01	8.100E+01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.035E+02	9.896E+02	1.093E+03	SO4-2
61	4.603E-04	2.577E+01	2.577E+01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.482E+01	4.386E+02	4.534E+02	TOC
68	5.906E+00	5.977E+04	5.977E+04	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	5.956E-01	4.071E+04	4.071E+04	ZRO2:2H2O
74	1.347E-05	9.242E-05	1.059E-04	C14 (Ci)
75	4.400E-05	3.103E+00	3.103E+00	Sr90 (Ci)
76	1.126E-08	7.943E-04	7.943E-04	Y90 (Ci)
77	1.188E-02	9.086E+00	9.097E+00	Tc99 (Ci)
78	2.179E-03	5.445E-01	5.466E-01	Cs137 (Ci)
79	3.330E-10	8.325E-08	8.359E-08	Ba137 (Ci)
80	9.620E-02	1.090E+02	1.091E+02	U235 (Ci)
81	1.332E-01	1.627E+04	1.629E+04	U238 (Ci)
82	2.247E-04	1.194E+00	1.195E+00	Np237 (Ci)
83	2.562E-08	7.467E-04	7.467E-04	Pu238 (Ci)
84	1.207E-04	3.877E+00	3.878E+00	Pu239 (Ci)
85	5.156E-06	1.715E-01	1.715E-01	Pu240 (Ci)
86	7.640E-08	2.642E-03	2.642E-03	Pu241 (Ci)
87	1.021E-05	8.370E-02	8.371E-02	Am241 (Ci)
88	2.402E-10	1.684E-05	1.684E-05	Cm244 (Ci)
89	3.474E+06	3.936E+05	3.867E+06	Total
Tot	3.474E+06	3.936E+05	3.867E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
27	7.016E+03	1.062E+03	4.024E+01	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	5.012E-06	5.012E-06	AG+
2	4.438E+03	0.000E+00	4.438E+03	AL(OH)4-
3	0.000E+00	4.035E+04	4.035E+04	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	1.727E+01	1.727E+01	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	2.827E-01	6.484E+03	6.484E+03	BI+3
10	3.036E-01	3.700E+03	3.701E+03	CA+2
11	0.000E+00	1.340E+05	1.340E+05	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.149E-01	1.331E+04	1.331E+04	CE+3
14	1.658E+01	3.064E+02	3.230E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	6.526E+01	1.291E+03	1.356E+03	CO3-2
18	2.669E+02	0.000E+00	2.669E+02	CR(OH)4-
19	0.000E+00	4.230E+03	4.230E+03	CR+3
20	0.000E+00	0.000E+00	0.000E+00	CS+
21	0.000E+00	0.000E+00	0.000E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	1.606E+01	5.558E+02	5.719E+02	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.063E+00	1.705E+04	1.705E+04	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	4.012E+06	0.000E+00	4.012E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.839E+00	2.622E+01	2.806E+01	K+
32	5.275E-08	8.614E-04	8.615E-04	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	9.949E-02	2.470E+03	2.470E+03	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	5.982E+03	1.574E+04	2.172E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.886E-01	5.383E+03	5.383E+03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.581E+02	2.994E+03	3.253E+03	NO2-
44	4.892E+03	6.483E+04	6.972E+04	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.945E+03	9.705E+04	9.900E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	4.325E-02	8.278E-01	8.710E-01	PB+4
49	3.979E+02	8.023E+03	8.421E+03	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.320E-02	8.357E+00	8.370E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	5.881E+01	9.607E+02	1.020E+03	SO4-2
61	1.679E-04	1.984E+01	1.984E+01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.288E+01	3.586E+02	3.715E+02	TOC
68	2.267E+00	2.375E+04	2.376E+04	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	6.337E-02	1.403E+04	1.403E+04	ZRO2:2H2O
74	6.656E-06	9.430E-05	1.010E-04	C14 (Ci)
75	7.045E-05	1.029E+01	1.029E+01	Sr90 (Ci)
76	1.804E-08	2.633E-03	2.633E-03	Y90 (Ci)
77	9.573E-03	1.321E+01	1.322E+01	Tc99 (Ci)
78	1.214E-03	6.064E-01	6.076E-01	Cs137 (Ci)
79	1.856E-10	9.274E-08	9.293E-08	Ba137 (Ci)
80	1.395E-01	4.709E+02	4.710E+02	U235 (Ci)
81	2.064E+01	7.144E+04	7.146E+04	U238 (Ci)
82	1.292E-04	1.723E+00	1.723E+00	Np237 (Ci)
83	2.954E-08	2.641E-03	2.641E-03	Pu238 (Ci)
84	9.860E-05	9.730E+00	9.731E+00	Pu239 (Ci)
85	5.093E-06	5.225E-01	5.225E-01	Pu240 (Ci)
86	8.184E-08	9.311E-03	9.311E-03	Pu241 (Ci)
87	1.286E-05	1.645E-01	1.645E-01	Am241 (Ci)
88	1.995E-10	2.549E-05	2.549E-05	Cm244 (Ci)
89	4.030E+06	4.569E+05	4.487E+06	Total
Tot	4.030E+06	4.569E+05	4.487E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
28	7.115E+03	9.153E+02	3.467E+01	9.500E-02

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	5.134E-06	5.134E-06	AG+
2	2.502E+03	0.000E+00	2.502E+03	AL(OH)4-
3	0.000E+00	1.957E+04	1.957E+04	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	5.826E+00	5.826E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	3.726E-01	6.374E+03	6.375E+03	BI+3
10	2.557E-01	5.828E+03	5.828E+03	CA+2
11	0.000E+00	6.438E+04	6.438E+04	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	3.969E-02	3.045E+03	3.045E+03	CE+3
14	1.527E+01	2.996E+02	3.148E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	5.743E+01	1.684E+03	1.741E+03	CO3-2
18	6.430E+01	0.000E+00	6.430E+01	CR(OH)4-
19	0.000E+00	7.873E+02	7.873E+02	CR+3
20	0.000E+00	0.000E+00	0.000E+00	CS+
21	0.000E+00	0.000E+00	0.000E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.727E+01	7.765E+02	8.138E+02	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.100E+00	3.587E+04	3.587E+04	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.459E+06	0.000E+00	3.459E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.496E+00	1.203E+01	1.352E+01	K+
32	1.816E-07	2.047E-02	2.047E-02	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	6.209E-02	9.342E+02	9.343E+02	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	5.176E+03	1.464E+04	1.982E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.646E-01	8.768E+03	8.768E+03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	1.994E+02	1.176E+03	1.375E+03	NO2-
44	3.735E+03	2.589E+04	2.962E+04	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.828E+03	8.200E+04	8.383E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	5.921E-02	5.340E-01	5.932E-01	PB+4
49	7.641E+02	1.333E+04	1.410E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.874E-02	5.288E+00	5.307E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	8.730E+01	1.170E+03	1.258E+03	SO4-2
61	2.066E-04	1.646E+01	1.646E+01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.050E+01	2.233E+02	2.338E+02	TOC
68	3.577E+00	5.111E+04	5.111E+04	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	8.688E-01	5.576E+04	5.576E+04	ZRO2:2H2O
74	1.332E-05	1.038E-04	1.171E-04	C14 (Ci)
75	4.712E-05	3.644E+00	3.644E+00	Sr90 (Ci)
76	1.206E-08	9.329E-04	9.329E-04	Y90 (Ci)
77	1.540E-02	1.127E+01	1.128E+01	Tc99 (Ci)
78	2.720E-03	6.767E-01	6.794E-01	Cs137 (Ci)
79	4.159E-10	1.034E-07	1.039E-07	Ba137 (Ci)
80	1.372E-01	1.725E+02	1.727E+02	U235 (Ci)
81	1.880E-01	2.578E+04	2.580E+04	U238 (Ci)
82	2.510E-04	1.669E+00	1.669E+00	Np237 (Ci)
83	8.768E-08	2.821E-03	2.821E-03	Pu238 (Ci)
84	1.589E-04	5.288E+00	5.288E+00	Pu239 (Ci)
85	7.552E-06	2.471E-01	2.471E-01	Pu240 (Ci)
86	1.257E-07	4.036E-03	4.037E-03	Pu241 (Ci)
87	8.775E-06	5.864E-02	5.865E-02	Am241 (Ci)
88	1.634E-10	1.281E-05	1.281E-05	Cm244 (Ci)
89	3.474E+06	3.937E+05	3.867E+06	Total
Tot	3.474E+06	3.937E+05	3.867E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
29	7.206E+03	9.153E+02	3.467E+01	9.500E+02

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	3.723E-06	3.723E-06	AG+
2	2.643E+03	0.000E+00	2.643E+03	AL(OH)4-
3	0.000E+00	2.209E+04	2.209E+04	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	6.380E+00	6.380E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	3.466E-01	7.942E+03	7.942E+03	BI+3
10	2.676E-01	6.807E+03	6.808E+03	CA+2
11	0.000E+00	7.510E+04	7.510E+04	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	3.553E-02	3.122E+03	3.122E+03	CE+3
14	1.659E+01	3.764E+02	3.930E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	5.659E+01	1.959E+03	2.016E+03	CO3-2
18	7.701E+01	0.000E+00	7.701E+01	CR(OH)4-
19	0.000E+00	1.067E+03	1.067E+03	CR+3
20	0.000E+00	0.000E+00	0.000E+00	CS+
21	0.000E+00	0.000E+00	0.000E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	2.233E+01	5.164E+02	5.387E+02	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.391E+00	4.229E+04	4.229E+04	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.459E+06	0.000E+00	3.459E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.467E+00	1.435E+01	1.562E+01	K+
32	1.322E-10	2.896E-05	2.896E-05	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	2.954E-02	9.995E+02	9.995E+02	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	5.201E+03	1.602E+04	2.123E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.741E-01	9.931E+03	9.931E+03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	1.852E+02	1.465E+03	1.651E+03	NO2-
44	3.789E+03	3.254E+04	3.632E+04	NO3-

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45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.908E+03	9.431E+04	9.622E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.272E-01	8.163E-01	9.436E-01	PB+4
49	5.372E+02	1.041E+04	1.101E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	6.031E-03	2.360E+02	2.360E+02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.307E+02	1.419E+03	1.550E+03	SO4-2
61	2.492E-05	3.856E+00	3.856E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.058E+01	2.430E+02	2.536E+02	TOC
68	4.034E+00	4.641E+04	4.641E+04	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.621E-01	1.841E+04	1.841E+04	ZRO2:2H2O
74	8.407E-06	7.059E-05	7.900E-05	C14 (Ci)
75	3.968E-05	3.355E+00	3.355E+00	Sr90 (Ci)
76	1.000E-08	8.587E-04	8.587E-04	Y90 (Ci)
77	1.024E-02	8.860E+00	8.870E+00	Tc99 (Ci)
78	1.746E-03	4.835E-01	4.852E-01	Cs137 (Ci)
79	2.670E-10	7.387E-08	7.414E-08	Ba137 (Ci)
80	9.829E-02	1.999E+02	2.000E+02	U235 (Ci)
81	1.457E-01	3.012E+04	3.013E+04	U238 (Ci)
82	2.245E-04	1.463E+00	1.463E+00	Np237 (Ci)
83	2.872E-08	1.672E-03	1.672E-03	Pu238 (Ci)
84	6.179E-05	3.794E+00	3.794E+00	Pu239 (Ci)
85	2.869E-06	1.781E-01	1.781E-01	Pu240 (Ci)
86	3.695E-08	2.400E-03	2.400E-03	Pu241 (Ci)
87	5.610E-06	6.074E-02	6.074E-02	Am241 (Ci)
88	1.698E-10	1.510E-05	1.510E-05	Cm244 (Ci)
89	3.474E+06	3.937E+05	3.867E+06	Total
Tot	3.474E+06	3.937E+05	3.867E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
30	7.317E+03	1.062E+03	4.022E+01	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	5.678E-06	5.678E-06	AG+
2	3.352E+03	0.000E+00	3.352E+03	AL(OH)4-
3	0.000E+00	2.866E+04	2.866E+04	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	7.499E+00	7.499E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	4.676E-01	6.864E+03	6.864E+03	BI+3
10	3.006E-01	6.110E+03	6.111E+03	CA+2
11	0.000E+00	7.602E+04	7.602E+04	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	4.636E-02	4.184E+03	4.184E+03	CE+3
14	1.777E+01	3.922E+02	4.100E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	6.261E+01	1.743E+03	1.806E+03	CO3-2
18	1.010E+02	0.000E+00	1.010E+02	CR(OH)4-
19	0.000E+00	1.406E+03	1.406E+03	CR+3
20	0.000E+00	0.000E+00	0.000E+00	CS+
21	0.000E+00	0.000E+00	0.000E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	4.194E+01	9.726E+02	1.015E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.195E+00	3.637E+04	3.637E+04	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	4.013E+06	0.000E+00	4.013E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.841E+00	3.733E+01	3.917E+01	K+
32	8.542E-04	2.242E+01	2.242E+01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	7.799E-02	2.219E+03	2.219E+03	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	5.984E+03	1.644E+04	2.243E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.919E-01	9.145E+03	9.145E+03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.447E+02	1.636E+03	1.880E+03	NO2-
44	4.436E+03	3.615E+04	4.058E+04	NO3-

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45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	2.114E+03	1.012E+05	1.033E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	5.890E-02	6.149E-01	6.738E-01	PB+4
49	6.694E+02	1.126E+04	1.193E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	4.878E-02	1.178E+02	1.178E+02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	8.795E-01	1.282E+03	1.369E+03	SO4-2
61	1.635E-02	4.351E+02	4.351E+02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.271E+01	2.726E+02	2.853E+02	TOC
68	3.354E+00	4.375E+04	4.376E+04	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	6.905E-01	6.996E+04	6.996E+04	ZRO2:2H2O
74	9.680E-06	9.759E-05	1.073E-04	C14 (Ci)
75	4.469E-05	4.107E+00	4.107E+00	Sr90 (Ci)
76	1.144E-08	1.051E-03	1.051E-03	Y90 (Ci)
77	1.330E-02	1.316E+01	1.318E+01	Tc99 (Ci)
78	1.908E-03	6.392E-01	6.411E-01	Cs137 (Ci)
79	2.917E-10	9.772E-08	9.801E-08	Ba137 (Ci)
80	1.261E-01	2.279E+02	2.280E+02	U235 (Ci)
81	1.744E-01	3.410E+04	3.411E+04	U238 (Ci)
82	2.184E-04	1.968E+00	1.968E+00	Np237 (Ci)
83	8.461E-08	3.660E-03	3.660E-03	Pu238 (Ci)
84	1.593E-04	7.044E+00	7.044E+00	Pu239 (Ci)
85	7.598E-06	3.398E-01	3.398E-01	Pu240 (Ci)
86	1.197E-07	5.539E-03	5.539E-03	Pu241 (Ci)
87	1.055E-05	8.858E-02	8.859E-02	Am241 (Ci)
88	1.852E-10	1.798E-05	1.798E-05	Cm244 (Ci)
89	4.030E+06	4.567E+05	4.486E+06	Total
Tot	4.030E+06	4.567E+05	4.486E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
31	7.414E+03	9.153E+02	3.467E+01	9.500E+02

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	1.741E-06	1.741E-06	AG+
2	2.755E+03	0.000E+00	2.755E+03	AL(OH)4-
3	0.000E+00	2.517E+04	2.517E+04	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	5.035E+00	5.035E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	5.200E-01	1.449E+04	1.449E+04	BI+3
10	2.158E-01	5.431E+03	5.432E+03	CA+2
11	0.000E+00	6.005E+04	6.005E+04	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	3.934E-02	3.764E+03	3.764E+03	CE+3
14	1.498E+01	3.889E+02	4.039E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	5.152E+01	1.475E+03	1.526E+03	CO3-2
18	8.268E+01	0.000E+00	8.268E+01	CR(OH)4-
19	0.000E+00	1.234E+03	1.234E+03	CR+3
20	0.000E+00	0.000E+00	0.000E+00	CS+
21	0.000E+00	0.000E+00	0.000E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	5.128E+01	1.454E+03	1.505E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	8.919E-01	2.869E+04	2.869E+04	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.459E+06	0.000E+00	3.459E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.150E+00	2.593E+02	2.614E+02	K+
32	3.940E-03	2.587E+02	2.587E+02	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	9.232E-02	1.128E+04	1.128E+04	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	5.143E+03	1.544E+04	2.059E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.370E-01	7.588E+03	7.588E+03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.338E+02	1.749E+03	1.982E+03	NO2-
44	3.444E+03	2.903E+04	3.247E+04	NO3-

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45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.652E+03	9.818E+04	9.983E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	2.311E-02	4.546E-01	4.777E-01	PB+4
49	1.090E+03	1.892E+04	2.001E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	3.082E-04	2.330E+03	2.330E+03	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	4.734E+01	6.676E+02	7.149E+02	SO4-2
61	7.506E-02	4.921E+03	4.921E+03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.328E+01	2.594E+02	2.727E+02	TOC
68	3.594E+00	5.853E+04	5.854E+04	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	3.480E-02	2.140E+03	2.140E+03	ZRO2:2H2O
74	2.276E-06	3.329E-05	3.556E-05	C14 (Ci)
75	2.336E-05	2.386E+00	2.386E+00	Sr90 (Ci)
76	5.979E-09	6.107E-04	6.107E-04	Y90 (Ci)
77	3.060E-03	4.162E+00	4.165E+00	Tc99 (Ci)
78	5.950E-04	2.591E-01	2.597E-01	Cs137 (Ci)
79	9.101E-11	3.964E-08	3.973E-08	Ba137 (Ci)
80	2.366E-02	1.259E+02	1.259E+02	U235 (Ci)
81	3.492E+00	1.887E+04	1.888E+04	U238 (Ci)
82	6.296E-05	8.388E-01	8.388E-01	Np237 (Ci)
83	3.207E-08	1.396E-03	1.396E-03	Pu238 (Ci)
84	8.766E-05	3.638E+00	3.638E+00	Pu239 (Ci)
85	3.549E-06	1.516E-01	1.516E-01	Pu240 (Ci)
86	3.704E-08	1.617E-03	1.617E-03	Pu241 (Ci)
87	3.891E-06	3.307E-02	3.307E-02	Am241 (Ci)
88	5.018E-11	6.965E-06	6.965E-06	Cm244 (Ci)
89	3.474E+06	3.937E+05	3.867E+06	Total
Tot	3.474E+06	3.937E+05	3.867E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
32	7.528E+03	9.120E+02	3.801E+01	9.500E+02

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	4.156E+01	4.156E+01	AG+
2	3.563E+03	0.000E+00	3.563E+03	AL(OH)4-
3	0.000E+00	8.846E+03	8.846E+03	AL+3
4	0.000E+00	8.811E-01	8.811E-01	AM+3
5	0.000E+00	5.944E-01	5.944E-01	AS+5
6	3.700E-01	0.000E+00	3.700E-01	B+3
7	1.010E-02	1.985E+02	1.985E+02	BA+2
8	0.000E+00	8.101E-01	8.101E-01	BE+2
9	3.112E-01	1.297E+04	1.297E+04	BI+3
10	3.852E-01	5.211E+03	5.211E+03	CA+2
11	0.000E+00	4.802E+04	4.802E+04	CANCRINITE
12	0.000E+00	8.574E-01	8.574E-01	CD+2
13	2.669E-02	2.792E+03	2.792E+03	CE+3
14	3.545E+01	3.169E+02	3.524E+02	CL-
15	0.000E+00	9.284E-05	9.284E-05	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	6.181E+01	4.861E+03	4.922E+03	CO3-2
18	3.382E+02	0.000E+00	3.382E+02	CR(OH)4-
19	0.000E+00	7.518E+02	7.518E+02	CR+3
20	0.000E+00	0.000E+00	0.000E+00	CS+
21	0.000E+00	1.281E-01	1.281E-01	CS-137
22	0.000E+00	4.945E-01	4.945E-01	CU+2
23	5.478E+02	3.678E+03	4.225E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	9.321E-01	2.341E+04	2.341E+04	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.439E+06	0.000E+00	3.439E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	4.484E+02	3.585E+03	4.033E+03	K+
32	2.598E-03	4.648E+02	4.648E+02	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	1.237E-02	2.291E+02	2.291E+02	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	5.412E-02	9.781E+03	9.781E+03	MN+4
37	0.000E+00	1.994E+03	1.994E+03	MNO2
38	4.666E-02	8.443E+00	8.489E+00	MO+6
39	1.468E+04	3.029E+04	4.496E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.654E-01	5.021E+03	5.021E+03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	1.252E+03	1.889E+03	3.141E+03	NO2-
44	2.630E+03	2.402E+04	2.665E+04	NO3-

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45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	8.042E+03	7.645E+04	8.449E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	7.762E-02	3.583E+02	3.584E+02	PB+4
49	1.316E+03	2.064E+04	2.196E+04	PO4-3
50	0.000E+00	1.218E+01	1.218E+01	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	5.076E+01	5.076E+01	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	8.899E+00	5.755E+03	5.763E+03	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	6.598E+01	4.784E+02	5.443E+02	SO4-2
61	4.956E-02	4.108E+03	4.108E+03	SR+2
62	0.000E+00	7.154E-01	7.154E-01	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	7.338E+02	7.338E+02	TH+4
65	0.000E+00	4.050E+01	4.050E+01	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	5.418E+01	1.203E+03	1.258E+03	TOC
68	3.261E+00	5.704E+04	5.704E+04	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	8.299E-02	1.331E+02	1.332E+02	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	3.894E-02	7.612E+04	7.612E+04	ZRO2:2H2O
74	3.780E-06	4.536E-05	4.914E-05	C14 (Ci)
75	1.252E-05	1.224E+00	1.224E+00	Sr90 (Ci)
76	3.206E-09	3.133E-04	3.133E-04	Y90 (Ci)
77	4.378E-03	4.316E+00	4.320E+00	Tc99 (Ci)
78	1.776E-02	3.850E-01	4.027E-01	Cs137 (Ci)
79	2.709E-09	5.888E-08	6.159E-08	Ba137 (Ci)
80	4.822E-03	4.431E+01	4.432E+01	U235 (Ci)
81	7.197E-01	6.645E+03	6.646E+03	U238 (Ci)
82	8.063E-03	1.085E+00	1.093E+00	Np237 (Ci)
83	1.219E-04	1.623E-02	1.635E-02	Pu238 (Ci)
84	1.044E-04	1.365E+01	1.365E+01	Pu239 (Ci)
85	6.999E-06	9.868E-01	9.868E-01	Pu240 (Ci)
86	4.063E-07	6.441E-02	6.441E-02	Pu241 (Ci)
87	1.978E-06	9.011E-01	9.012E-01	Am241 (Ci)
88	8.177E-11	7.078E-06	7.078E-06	Cm244 (Ci)
89	3.471E+06	4.316E+05	3.903E+06	Total
Tot	3.471E+06	4.316E+05	3.903E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
33	7.640E+03	9.060E+02	4.405E+01	9.500E+02

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	1.164E+02	1.164E+02	AG+
2	7.590E+03	0.000E+00	7.590E+03	AL(OH)4-
3	0.000E+00	8.534E+03	8.534E+03	AL+3
4	0.000E+00	2.469E+00	2.469E+00	AM+3
5	0.000E+00	1.666E+00	1.666E+00	AS+5
6	1.037E+00	0.000E+00	1.037E+00	B+3
7	2.830E-02	5.478E+02	5.479E+02	BA+2
8	0.000E+00	2.270E+00	2.270E+00	BE+2
9	4.001E-02	1.478E+03	1.478E+03	BI+3
10	6.293E-01	5.288E+03	5.288E+03	CA+2
11	0.000E+00	1.297E+04	1.297E+04	CANCRINITE
12	0.000E+00	2.403E+02	2.403E+02	CD+2
13	5.651E-03	6.809E+02	6.809E+02	CE+3
14	7.265E+01	7.639E+01	1.490E+02	CL-
15	0.000E+00	2.602E-04	2.602E-04	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	7.697E+01	1.074E+04	1.081E+04	CO3-2
18	8.992E+02	0.000E+00	8.992E+02	CR(OH)4-
19	0.000E+00	1.703E+03	1.703E+03	CR+3
20	0.000E+00	0.000E+00	0.000E+00	CS+
21	0.000E+00	3.589E-01	3.589E-01	CS-137
22	0.000E+00	1.386E+02	1.386E+02	CU+2
23	1.442E+03	6.897E+03	8.338E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	9.350E-01	1.664E+04	1.664E+04	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.401E+06	0.000E+00	3.401E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.252E+03	9.471E+03	1.072E+04	K+
32	1.889E-04	7.379E+02	7.379E+02	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	3.465E-02	6.419E+02	6.420E+02	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	6.551E-03	2.330E+03	2.330E+03	MN+4
37	0.000E+00	5.586E+03	5.586E+03	MNO2
38	1.308E-01	2.366E+01	2.379E+01	MO+6
39	3.161E+04	5.282E+04	8.443E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.792E-01	1.255E+03	1.255E+03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	1.053E+03	7.359E+02	1.789E+03	NO2-
44	1.141E+03	9.688E+03	1.083E+04	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.952E+04	9.574E+04	1.153E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	2.670E-02	1.003E+03	1.003E+03	PB+4
49	6.472E+02	3.676E+03	4.323E+03	PO4-3
50	0.000E+00	3.412E-01	3.412E-01	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	1.422E+02	1.422E+02	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	2.494E+01	9.452E+03	9.477E+03	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.855E+01	1.449E+02	2.237E+02	SO4-2
61	3.606E-03	7.502E+02	7.502E+02	SR+2
62	0.000E+00	2.005E+00	2.005E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	2.056E+03	2.056E+03	TH+4
65	0.000E+00	1.135E+02	1.135E+02	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.252E+02	2.828E+03	2.953E+03	TOC
68	7.566E-01	2.851E+04	2.851E+04	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	2.326E-01	3.729E+02	3.731E+02	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	2.319E-03	2.060E+05	2.060E+05	ZRO2:2H2O
74	1.320E-06	4.656E-05	4.788E-05	C14 (Ci)
75	4.048E-06	7.163E-01	7.163E-01	Sr90 (Ci)
76	1.036E-09	1.834E-04	1.834E-04	Y90 (Ci)
77	1.722E-03	1.443E+00	1.444E+00	Tc99 (Ci)
78	4.761E-02	4.400E-01	4.876E-01	Cs137 (Ci)
79	7.262E-09	6.719E-08	7.445E-08	Ba137 (Ci)
80	1.784E-03	5.994E+00	5.996E+00	U235 (Ci)
81	2.626E-01	8.971E+02	8.974E+02	U238 (Ci)
82	2.229E-02	7.219E-01	7.442E-01	Np237 (Ci)
83	3.415E-04	4.526E-02	4.560E-02	Pu238 (Ci)
84	2.150E-04	3.444E+01	3.444E+01	Pu239 (Ci)
85	1.746E-05	2.647E+00	2.647E+00	Pu240 (Ci)
86	1.126E-06	1.797E-01	1.797E-01	Pu241 (Ci)
87	9.029E-07	2.477E+00	2.477E+00	Am241 (Ci)
88	3.274E-11	2.529E-06	2.529E-06	Cm244 (Ci)
89	3.468E+06	5.002E+05	3.968E+06	Total
Tot	3.468E+06	5.002E+05	3.968E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
34	7.751E+03	1.062E+03	4.022E+01	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	5.773E-06	5.773E-06	AG+
2	3.294E+03	0.000E+00	3.294E+03	AL(OH)4-
3	0.000E+00	2.697E+04	2.697E+04	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	7.734E+00	7.734E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	4.935E-01	1.014E+04	1.015E+04	BI+3
10	2.720E-01	5.469E+03	5.470E+03	CA+2
11	0.000E+00	7.721E+04	7.721E+04	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	5.730E-02	5.475E+03	5.475E+03	CE+3
14	1.695E-01	3.667E+02	3.857E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	6.759E+01	1.646E+03	1.714E+03	CO3-2
18	8.257E+01	0.000E+00	8.257E+01	CR(OH)4-
19	0.000E+00	1.085E+03	1.085E+03	CR+3
20	0.000E+00	0.000E+00	0.000E+00	CS+
21	0.000E+00	0.000E+00	0.000E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	5.063E+01	1.297E+03	1.347E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.098E+00	3.078E+04	3.078E+04	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	4.013E+06	0.000E+00	4.013E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.160E+00	1.245E+02	1.267E+02	K+
32	1.804E-03	1.130E+02	1.130E+02	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	9.495E-02	5.942E+03	5.942E+03	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	5.967E+03	1.683E+04	2.279E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.741E-01	8.267E+03	8.267E+03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.470E-02	1.838E+03	2.085E+03	NO2-
44	4.045E+03	3.426E+04	3.831E+04	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	2.037E+03	9.417E+04	9.620E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	5.096E-02	5.742E-01	6.251E-01	PB+4
49	1.003E+03	1.825E+04	1.925E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.866E-02	6.524E+02	6.524E+02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	8.437E+01	1.054E+03	1.138E+03	SO4-2
61	3.454E-02	2.169E+03	2.169E+03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.506E+01	3.396E+02	3.546E+02	TOC
68	4.848E+00	5.669E+04	5.670E+04	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	6.336E-01	5.554E+04	5.554E+04	ZRO2:2H2O
74	1.316E-05	1.160E-04	1.291E-04	C14 (Ci)
75	4.684E-05	3.870E+00	3.871E+00	Sr90 (Ci)
76	1.199E-08	9.908E-04	9.908E-04	Y90 (Ci)
77	1.424E-02	1.366E+01	1.369E+01	Tc99 (Ci)
78	2.384E-03	7.750E-01	7.774E-01	Cs137 (Ci)
79	3.645E-10	1.185E-07	1.189E-07	Ba137 (Ci)
80	1.071E-01	1.819E+02	1.820E+02	U235 (Ci)
81	1.479E+01	2.716E+04	2.717E+04	U238 (Ci)
82	2.226E-04	1.913E+00	1.914E+00	Np237 (Ci)
83	6.613E-08	2.677E-03	2.677E-03	Pu238 (Ci)
84	1.428E-04	5.747E+00	5.747E+00	Pu239 (Ci)
85	6.429E-06	2.665E-01	2.665E-01	Pu240 (Ci)
86	9.956E-08	4.252E-03	4.252E-03	Pu241 (Ci)
87	1.121E-05	9.242E-02	9.243E-02	Am241 (Ci)
88	2.154E-10	2.046E-05	2.048E-05	Cm244 (Ci)
89	4.030E+06	4.567E+05	4.486E+06	Total
Tot	4.030E+06	4.567E+05	4.486E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
35	7.832E+03	8.409E+02	3.289E+01	8.738E+02

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	2.957E-06	2.957E-06	AG+
2	3.026E+03	0.000E+00	3.026E+03	AL(OH)4-
3	0.000E+00	2.951E+04	2.951E+04	AL+3
4	0.000E+00	2.240E-02	2.240E-02	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	8.965E+00	8.965E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	5.783E-01	8.085E+03	8.086E+03	BI+3
10	2.491E-01	4.042E+03	4.042E+03	CA+2
11	0.000E+00	6.589E+04	6.589E+04	CANCRINITE
12	0.000E+00	1.910E+01	1.910E+01	CD+2
13	3.019E-02	2.981E+03	2.981E+03	CE+3
14	1.818E+01	4.511E+02	4.693E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	7.468E+01	3.553E+03	3.628E+03	CO3-2
18	9.307E+01	0.000E+00	9.307E+01	CR(OH)4-
19	0.000E+00	1.572E+03	1.572E+03	CR+3
20	0.000E+00	0.000E+00	0.000E+00	CS+
21	0.000E+00	1.010E-01	1.010E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	8.109E+01	1.113E+03	1.194E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.010E+00	1.964E+04	1.965E+04	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.177E+06	0.000E+00	3.177E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.605E+00	2.958E+02	2.994E+02	K+
32	7.555E-03	2.230E+02	2.230E+02	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.550E-01	1.009E+04	1.009E+04	MN+4
37	0.000E+00	-1.478E-12	-1.478E-12	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	6.273E+03	2.029E+04	2.657E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.598E-01	5.294E+03	5.294E+03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.998E+02	3.806E+03	4.106E+03	NO2-
44	3.808E+03	4.187E+04	4.567E+04	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	2.392E+03	8.720E+04	8.960E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	4.240E-02	1.957E+02	1.957E+02	PB+4
49	8.926E+02	1.424E+04	1.513E+04	PO4-3
50	0.000E+00	2.610E-01	2.610E-01	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	2.585E-04	8.143E+02	8.143E+02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	5.162E+01	1.170E+03	1.222E+03	SO4-2
61	1.440E-01	3.880E+03	3.880E+03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.991E+01	2.079E+03	2.098E+03	TOC
68	2.921E+00	4.172E+04	4.172E+04	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.120E-01	3.419E+03	3.419E+03	ZRO2:2H2O
74	3.175E-06	4.218E-01	4.218E-01	C14 (Ci)
75	2.787E-05	1.907E+00	1.907E+00	Sr90 (Ci)
76	7.134E-09	4.882E-04	4.882E-04	Y90 (Ci)
77	5.995E-03	8.382E+00	8.388E+00	Tc99 (Ci)
78	6.961E-04	4.379E-01	4.386E-01	Cs137 (Ci)
79	1.058E-10	6.699E-08	6.710E-08	Ba137 (Ci)
80	2.573E-02	8.716E+01	8.719E+01	U235 (Ci)
81	3.798E+00	1.309E+04	1.310E+04	U238 (Ci)
82	7.741E-05	1.193E+00	1.193E+00	Np237 (Ci)
83	3.392E-08	1.892E-03	1.892E-03	Pu238 (Ci)
84	1.164E-04	3.532E+00	3.532E+00	Pu239 (Ci)
85	4.144E-06	1.449E-01	1.450E-01	Pu240 (Ci)
86	3.495E-08	1.480E-03	1.480E-03	Pu241 (Ci)
87	9.878E-06	1.087E-01	1.087E-01	Am241 (Ci)
88	1.167E-10	1.833E-05	1.833E-05	Cm244 (Ci)
89	3.194E+06	3.735E+05	3.567E+06	Total
Tot	3.194E+06	3.735E+05	3.567E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
36	7.895E+03	6.455E+02	2.576E+01	6.712E+02

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	1.386E-06	1.386E-06	AG+
2	1.760E+03	0.000E+00	1.760E+03	AL(OH)4-
3	0.000E+00	1.373E+04	1.373E+04	AL+3
4	0.000E+00	3.650E-02	3.850E-02	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	6.892E+01	6.892E+01	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	4.160E-01	1.115E+04	1.115E+04	BI+3
10	2.011E-01	3.585E+03	3.585E+03	CA+2
11	0.000E+00	4.200E+04	4.200E+04	CANCRINITE
12	0.000E+00	2.430E+02	2.430E+02	CD+2
13	3.082E-02	2.604E+03	2.604E+03	CE+3
14	1.860E+01	5.824E+02	6.009E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	7.752E+01	3.004E+03	3.081E+03	CO3-2
18	5.319E+01	0.000E+00	5.319E+01	CR(OH)4-
19	0.000E+00	6.712E+02	6.712E+02	CR+3
20	0.000E+00	0.000E+00	0.000E+00	CS+
21	0.000E+00	1.330E-01	1.330E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	4.124E+01	1.171E+03	1.212E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	7.539E-01	1.730E+04	1.730E+04	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	2.438E+06	0.000E+00	2.438E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.503E+00	2.419E+02	2.454E+02	K+
32	2.768E-03	7.607E+02	7.607E+02	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.925E-01	8.110E+03	8.110E+03	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	5.619E+03	1.758E+04	2.320E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.260E-01	4.746E+03	4.746E+03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.514E+02	3.920E+03	4.272E+03	NO2-
44	3.427E+03	3.125E+04	3.467E+04	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	2.284E+03	6.222E+04	6.450E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	2.210E-02	8.254E+02	8.254E+02	PB+4
49	8.412E+02	1.466E+04	1.552E+04	PO4-3
50	0.000E+00	6.400E-01	6.400E-01	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	3.641E-06	3.749E+03	3.749E+03	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	4.721E+01	8.447E+02	8.919E+02	SO4-2
61	5.294E-02	3.081E+03	3.082E+03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.143E+01	1.770E+03	1.791E+03	TOC
68	3.671E+00	4.130E+04	4.130E+04	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	2.849E-02	1.340E+03	1.340E+03	ZRO2:2H2O
74	2.299E-06	1.959E-02	1.959E-02	C14 (Ci)
75	1.404E-05	1.225E+00	1.225E+00	Sr90 (Ci)
76	3.593E-09	3.135E-04	3.135E-04	Y90 (Ci)
77	4.584E-03	3.786E+00	3.791E+00	Tc99 (Ci)
78	6.028E-04	3.236E-01	3.242E-01	Cs137 (Ci)
79	9.201E-11	4.946E-08	4.955E-08	Ba137 (Ci)
80	1.791E-02	8.794E+01	8.796E+01	U235 (Ci)
81	2.665E+00	1.328E+04	1.328E+04	U238 (Ci)
82	6.639E-05	6.528E-01	6.529E-01	Np237 (Ci)
83	1.375E-08	5.905E-04	5.905E-04	Pu238 (Ci)
84	5.690E-05	2.462E+00	2.462E+00	Pu239 (Ci)
85	2.254E-06	1.071E-01	1.071E-01	Pu240 (Ci)
86	1.816E-08	7.103E-04	7.103E-04	Pu241 (Ci)
87	6.521E-06	7.235E-02	7.235E-02	Am241 (Ci)
88	8.789E-11	7.139E-06	7.139E-06	Cm244 (Ci)
89	2.453E+06	2.925E+05	2.745E+06	Total
Tot	2.453E+06	2.925E+05	2.745E+06	

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APPENDIX E

TANK INVENTORY DATA

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Revised Tank Inventory for Liquid Phase Constituents (A,AX)

		Mass (kg)									
	Chemical	101A	102A	103A	104A	105A	106A	101AX	102AX	103AX	104AX
1.	AG+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.	AL(OH)4-	8.97E+04	3.01E+03	2.81E+04	0.00E+00	0.00E+00	2.97E+03	6.47E+04	2.67E+03	6.06E+03	0.00E+00
3.	AL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4.	AN+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.	AS+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.	B+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.	BA+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8.	BE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9.	BI+3	3.01E+02	1.08E+01	9.45E+01	0.00E+00	0.00E+00	2.36E+01	2.21E+02	8.19E+00	2.55E+01	0.00E+00
10.	CA+2	1.27E+02	4.52E+00	6.09E+01	2.69E-01	1.84E-01	1.05E+01	1.06E+02	5.13E+00	1.65E+01	6.78E-02
11.	CANCRINITE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12.	CD+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13.	CE+3	0.00E+00	1.52E+01	5.61E-01	9.32E-24	1.06E-05	3.29E-08	8.74E-11	4.67E-22	1.77E+00	1.85E-02
14.	CL-	1.76E+04	6.56E+02	6.42E+03	7.03E+01	5.99E+00	1.69E+03	1.35E+04	5.51E+02	1.73E+03	2.21E+00
15.	CM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16.	CO+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17.	CO3-2	5.19E+04	1.97E+03	1.79E+04	4.16E+02	2.83E+02	5.51E+03	3.92E+04	2.05E+03	5.02E+03	1.05E+02
18.	CR(OH)4-	4.87E+03	1.75E+02	1.48E+03	5.78E+00	3.58E-01	3.87E+02	3.55E+03	1.30E+02	4.00E+02	1.32E-01
19.	CR+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20.	CS+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21.	CS-137	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22.	CU+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23.	F-	1.51E+04	5.41E+02	4.85E+03	0.00E+00	0.00E+00	1.18E+03	1.11E+04	4.18E+02	1.31E+03	0.00E+00
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25.	FE+3	3.54E+02	1.35E+01	1.67E+02	1.55E+01	3.88E+01	4.95E+01	3.09E+02	2.94E+01	7.34E+01	1.43E+01
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28.	H2O	1.34E+07	4.93E+05	5.04E+06	1.58E+05	2.82E+05	1.26E+06	1.05E+07	4.22E+05	1.51E+06	1.04E+05
29.	HG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30.	I-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31.	K+	2.87E+03	1.03E+02	9.37E+02	0.00E+00	0.00E+00	2.26E+02	2.13E+03	8.04E+01	2.53E+02	0.00E+00
32.	LA+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33.	LI+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34.	MG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35.	MN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36.	MN+4	4.74E+01	1.70E+00	1.69E+01	0.00E+00	0.00E+00	3.74E+00	3.50E+01	1.42E+00	4.55E+00	0.00E+00
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38.	MO+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39.	NA+	1.68E+06	6.17E+04	6.38E+05	1.77E+04	3.13E+04	1.57E+05	1.31E+06	5.34E+04	1.89E+05	1.15E+04
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41.	NI+3	7.85E+01	2.77E+00	3.76E+01	4.21E-01	2.85E-01	6.54E+00	6.52E+01	3.03E+00	1.03E+01	1.05E-01
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43.	NO2-	3.19E+05	1.15E+04	1.01E+05	1.50E+00	3.09E+00	2.51E+04	2.34E+05	8.76E+03	2.73E+04	1.14E+00
44.	NO3-	2.35E+06	8.40E+04	1.01E+06	8.71E+03	5.87E+02	1.93E+05	1.88E+06	8.30E+04	2.69E+05	2.17E+02
45.	NP+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46.	OH-	4.47E+05	1.91E+04	1.47E+05	1.04E+04	2.24E+04	4.77E+04	3.44E+05	1.23E+04	5.33E+04	8.26E+03
47.	P2O5:24WO2:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48.	PB+4	2.73E+02	9.81E+00	8.63E+01	0.00E+00	0.00E+00	2.14E+01	2.01E+02	7.48E+00	2.33E+01	0.00E+00
49.	PO4-3	4.77E+04	1.71E+03	1.50E+04	8.31E+01	0.00E+00	3.81E+03	3.50E+04	1.32E+03	4.05E+03	0.00E+00
50.	PU-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52.	RE+7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53.	RH+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54.	RU+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55.	SB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56.	SE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57.	SI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58.	SM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60.	SO4-2	5.06E+04	1.82E+03	2.44E+04	1.17E+02	8.18E+03	4.44E+03	4.63E+04	1.95E+03	1.26E+04	3.02E+03
61.	SR+2	2.36E-02	0.00E+00	0.00E+00	7.85E-03	1.57E-02	0.00E+00	8.27E-03	9.46E-03	1.16E-02	5.79E-03
62.	TCO4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63.	TE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64.	TH+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65.	TI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66.	TL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67.	TOC	3.68E+04	2.39E+03	1.16E+04	0.00E+00	0.00E+00	1.25E+04	2.82E+04	1.01E+03	3.24E+03	0.00E+00
68.	UO2+2	5.16E+02	1.62E+01	2.31E+02	1.88E+01	6.07E+02	3.66E+01	7.07E+02	1.80E+01	5.10E+02	2.24E+02
69.	V+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70.	W+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71.	ZN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72.	ZR+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73.	ZRO2:2H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total	1.86E+07	6.81E+05	7.05E+06	1.95E+05	3.46E+04	1.73E+06	1.45E+07	5.90E+05	2.09E+06	1.27E+05
	Diluted Vol (ML)	14608.7	536.5	5547.8	153.9	272.2	1365.2	11391.3	464.3	1643.5	100.0
74.	C14 (Ci)	0.00E+00	7.51E+01	5.35E+00	1.28E+02	9.57E-01	1.04E-02	2.41E-02	3.13E-16	1.61E+00	1.49E+01
75.	Sr90 (Ci)	1.98E+04	5.01E+04	1.36E+02	2.61E+04	1.98E-04	3.36E-05	2.22E-08	1.00E-12	1.39E+02	6.48E+04
76.	Y90 (Ci)	1.98E+04	5.01E+04	1.36E+02	2.61E+04	1.98E-04	3.36E-05	2.22E-08	1.00E-12	1.39E+02	6.48E+04
77.	Tc99 (Ci)	0.00E+00	6.91E+01	2.07E+01	1.89E-17	3.11E+00	6.37E-08	5.41E-09	4.76E-16	3.96E+00	9.05E+00
78.	Cs137 (Ci)	0.00E+00	7.35E+04	4.80E+03	3.50E-14	8.79E+03	6.80E-05	7.21E-07	1.01E-12	4.22E+03	2.85E+04
79.	Ba137 (Ci)	0.00E+00	6.99E+04	4.56E+03	3.30E-14	8.35E+03	6.46E-05	6.85E-07	9.61E-13	4.01E+03	2.71E+04
80.	U235 (Ci)	3.09E-01	4.11E-02	5.82E-02	3.83E-03	6.61E-12	1.53E-01	5.38E-02	1.93E-03	1.13E-13	2.93E-04
81.	U238 (Ci)	7.30E+00	9.82E-01	1.33E+00	9.20E-02	2.64E-10	3.63E+00	1.09E+00	3.75E-02	3.28E-09	6.44E-03
82.	Np237 (Ci)	1.79E-04	3.77E-02	9.52E-04	2.78E-04	4.52E-03	6.35E-05	1.52E-07	3.13E-07	2.35E-03	2.97E-03
83.	Pu238 (Ci)	1.54E+00	2.60E-01	3.73E-01	2.91E-01	8.23E-06	8.65E-01	4.64E-01	1.69E-01	8.72E-06	4.01E-01
84.	Pu239 (Ci)	3.89E+01	5.38E+00	5.54E+00	9.08E+00	3.04E-08	1.83E+01	4.43E+00	2.07E+00	2.81E-07	4.88E+00
85.	Pu240 (Ci)	9.95E+00	1.36E+00	1.50E+00	2.46E+00	1.82E-07	4.87E+00	1.35E+00	5.29E-01	4.48E-07	1.41E+00
86.	Pu241 (Ci)	6.84E+01	8.84E+00	1.25E+01	1.79E+01	2.81E-08	3.60E+01	1.76E+01	8.72E+00	1.07E-06	1.58E+01
87.	Am241 (Ci)	5.88E+01	2.02E+02	3.38E+01	5.03E+01	7.69E-07	1.58E+01	3.26E-01	3.33E-01	1.27E+00	5.11E+00
88.	Cm244 (Ci)	0.00E+00	3.59E-02	2.73E-02	1.63E-22	2.78E-05	5.54E-12	3.76E-12	1.03E-20	4.36E-04	1.27E-03

Revised Tank Inventory for Solid Phase Constituents (A,AX)

	Chemical	Mass (kg)										
		101A	102A	103A	104A	105A	106A	101AX	102AX	103AX	104AX
1.	AG+	0.00E+00	1.74E-06	4.96E-07	6.13E-25	1.10E-07	2.00E-15	7.00E-17	1.23E-23	8.99E-08	2.47E-07
2.	AL(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.	AL+3	2.57E+02	8.64E+00	8.07E+01	0.00E+00	0.00E+00	8.53E+00	1.86E+02	6.51E+02	1.74E+01	0.00E+00
4.	AM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.	AS+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.	B+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.	BA+2	7.00E+01	9.76E+00	1.20E+01	1.87E+01	1.96E-01	3.80E+01	1.44E+01	1.92E+00	1.04E-02	2.50E+01
8.	BE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9.	BI+3	3.04E+00	1.09E-01	9.54E-01	0.00E+00	0.00E+00	2.39E-01	2.23E+00	8.28E-02	2.57E-01	0.00E+00
10.	CA+2	1.12E+02	3.27E+01	5.01E+01	3.42E+02	2.33E+02	5.55E+02	1.98E+02	4.47E+02	1.79E+02	8.61E+01
11.	CANCRINITE	5.37E+04	5.05E+03	2.96E+04	0.00E+00	0.00E+00	6.44E+04	6.26E+04	1.98E+03	3.03E+04	0.00E+00
12.	CD+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13.	CE+3	0.00E+00	1.51E+03	5.56E+01	9.22E-22	1.05E-03	3.26E-06	8.65E-09	4.63E-20	1.75E+02	1.83E+00
14.	CL-	1.78E+02	7.72E+00	6.52E+01	3.70E+00	3.15E-01	3.00E+01	1.37E+02	6.26E+00	1.77E+01	1.16E-01
15.	CM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16.	CO+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17.	CO3-2	5.32E+02	3.17E+01	1.85E+02	4.62E+01	3.15E+01	2.00E+02	4.23E+02	7.53E+01	7.19E+01	1.16E+01
18.	CN(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19.	CR+3	2.23E+01	7.66E-01	7.72E+00	1.14E+01	7.07E-01	1.03E+01	1.59E+01	1.38E+00	2.27E+00	2.61E-01
20.	CS+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21.	CS-137	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22.	CU+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23.	F-	1.52E+02	5.47E+00	4.90E+01	0.00E+00	0.00E+00	1.20E+01	1.12E+02	4.22E+00	1.32E+01	0.00E+00
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25.	FE+3	6.83E+02	1.19E+02	1.47E+02	1.53E+03	3.84E+03	2.17E+03	2.15E+03	1.62E+03	2.84E+03	1.42E+03
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28.	H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29.	HG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30.	I-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31.	K+	2.90E+01	1.04E+00	9.46E+00	0.00E+00	0.00E+00	2.28E+00	2.15E+01	8.12E-01	2.55E+00	0.00E+00
32.	LA+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33.	LI+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34.	MG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35.	MN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36.	MN+4	9.34E+02	3.34E+01	3.34E+02	0.00E+00	0.00E+00	7.36E+01	7.09E+02	2.80E+01	8.99E+01	0.00E+00
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38.	MO+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39.	NA+	6.79E+03	3.46E+02	2.63E+03	7.39E+02	1.30E+03	1.98E+03	5.98E+03	2.46E+02	1.60E+03	4.81E+02
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41.	NI+3	1.14E+02	6.87E-01	8.22E+01	5.06E+02	3.42E+02	3.72E+02	1.97E+02	9.69E+01	2.55E+02	1.26E+02
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43.	NO2-	8.22E+02	1.15E+02	0.00E+00	1.51E-02	3.12E-02	2.53E+02	2.37E+03	8.84E+01	2.75E+02	1.15E-02
44.	NO3-	2.38E+04	8.48E+02	9.15E+03	8.80E+01	5.93E+00	1.94E+03	1.90E+04	8.39E+02	2.71E+03	2.19E+00
45.	NP+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46.	OH-	0.00E+00	6.26E+02	0.00E+00	3.95E+03	7.44E+03	3.01E+03	8.12E+02	2.75E+03	4.09E+03	2.75E+03
47.	P2O5:24WO2:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48.	PB+4	2.76E+00	9.91E-02	8.72E-01	0.00E+00	0.00E+00	2.17E-01	2.03E+00	1.66E-01	2.35E-01	0.00E+00
49.	PO4-3	4.81E+02	1.73E+01	1.66E+02	1.25E+02	0.00E+00	1.35E+02	3.54E+02	3.55E+01	4.09E+01	0.00E+00
50.	PU-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52.	RE+7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53.	RH+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54.	RU+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55.	SB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56.	SE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57.	SI+4	0.00E+00	0.00E+00	0.00E+00	6.91E+02	5.80E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+02
58.	SM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60.	SO4-2	5.12E+02	1.88E+01	2.47E+02	2.38E+00	1.67E+02	4.92E+01	5.13E+02	2.01E+01	1.90E+02	6.17E+01
61.	SR+2	2.34E+00	0.00E+00	0.00E+00	7.78E-01	1.55E+00	0.00E+00	8.19E-01	9.36E-01	1.15E+00	5.73E-01
62.	TCO4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63.	TE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64.	TH+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65.	TI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66.	TL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67.	TOC	3.72E+02	1.34E+02	1.17E+02	0.00E+00	0.00E+00	1.12E+03	3.97E+02	1.16E+01	3.27E+01	0.00E+00
68.	UO2+2	1.08E+03	1.64E-01	2.34E+00	3.57E+02	1.15E+04	3.69E-01	6.09E+03	1.82E-01	8.51E+03	4.26E+03
69.	V+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70.	W+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71.	ZN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72.	ZR+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73.	ZRO2:2H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total	9.06E+04	8.92E+03	4.30E+04	8.41E+03	2.54E+04	7.64E+04	1.02E+05	8.90E+03	5.10E+04	9.44E+03
	Vol (ML) spg=3	30.2	3.0	14.3	2.8	8.5	25.5	34.1	3.0	17.1	3.1
74.	C14 (Ci)	0.00E+00	7.58E-01	5.41E-02	1.30E+00	9.67E-03	1.05E-04	2.44E-04	3.17E-18	1.63E-02	1.50E-01
75.	Sr90 (Ci)	1.96E+06	4.96E+06	1.34E+04	2.59E+06	1.96E-02	3.32E-03	2.20E-06	9.94E-11	1.38E+04	6.41E+06
76.	Y90 (Ci)	1.96E+06	4.96E+06	1.34E+04	2.59E+06	1.96E-02	3.32E-03	2.20E-06	9.94E-11	1.38E+04	6.41E+06
77.	Tc99 (Ci)	0.00E+00	6.91E+01	2.07E+01	1.89E-17	3.11E+00	6.37E-08	5.41E-09	4.76E-16	3.96E+00	9.05E+00
78.	Cs137 (Ci)	0.00E+00	2.45E+04	1.60E+03	1.20E-14	2.93E+03	2.27E-05	2.40E-07	3.37E-13	1.41E+03	9.51E+03
79.	Ba137 (Ci)	0.00E+00	2.33E+04	1.52E+03	1.10E-14	2.78E+03	2.15E-05	2.28E-07	3.20E-13	1.34E+03	9.03E+03
80.	U235 (Ci)	3.36E-03	4.15E-04	5.86E-04	7.28E-02	1.26E-10	1.55E-03	1.25E-03	1.95E-05	5.50E-14	5.57E-03
81.	U238 (Ci)	7.94E-02	9.92E-03	1.34E-02	1.75E+00	5.01E-09	3.66E-02	2.52E-02	3.79E-04	1.61E-09	1.22E-01
82.	Np237 (Ci)	1.62E-03	3.40E-01	8.57E-03	2.50E-03	4.07E-02	5.72E-04	1.37E-06	2.82E-06	2.11E-02	2.67E-02
83.	Pu238 (Ci)	7.54E+01	1.28E+01	1.83E+01	1.43E+01	4.03E-04	4.24E+01	2.28E+01	8.27E+00	4.27E-04	1.97E+01
84.	Pu239 (Ci)	1.91E+03	2.63E+02	2.72E+02	4.45E+02	1.49E-06	8.97E+02	2.17E+02	1.02E+02	1.37E-05	2.39E+02
85.	Pu240 (Ci)	4.88E+02	6.68E+01	7.36E+01	1.21E+02	8.90E-06	2.38E+02	6.59E+01	3.08E+01	2.19E-05	6.91E+01
86.	Pu241 (Ci)	3.35E+03	4.33E+02	6.15E+02	8.79E+02	1.38E-06	1.76E+03	8.64E+02	4.27E+02	5.22E-05	7.73E+02
87.	Am241 (Ci)	5.29E+02	1.82E+03	3.04E+02	4.52E+02	6.92E-06	1.43E+02	2.93E+00	3.00E+00	1.14E+01	4.60E+01
88.	Cm244 (Ci)	0.00E+00	3.55E+00	2.70E+00	1.62E-20	2.75E-03	5.48E-10	3.72E-10	1.02E-18	4.32E-02	1.26E-01

Revised Tank Inventory for Liquid Phase Constituents (B)

	Chemical	Mass (kg)									
		101B	102B	103B	104B	105B	106B	107B	108B	109B	110B
1.	AG+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.	AL(OH)4-	9.16E+02	1.85E+02	0.00E+00	4.17E+03	2.29E+02	0.00E+00	6.91E+03	1.40E+03	2.58E+03	0.00E+00
3.	AL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4.	AM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.	AS+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.	B+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.	BA+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8.	BE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9.	BI+3	1.42E+02	4.54E+01	1.06E+02	1.89E+02	5.37E+02	2.19E+02	4.74E+01	1.23E+02	1.59E+02	9.54E+01
10.	CA+2	3.15E+01	9.87E+00	2.30E+01	2.61E+01	1.14E+02	4.76E+01	5.81E-01	2.47E+01	3.46E+01	1.49E+00
11.	CANCRINITE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12.	CD+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13.	CE+3	2.36E-31	2.65E-01	9.10E-01	2.02E+01	1.50E+00	1.75E-01	9.21E+00	1.85E+00	1.05E+00	0.00E+00
14.	CL-	9.77E+02	2.37E+02	5.48E+02	1.16E+03	2.80E+03	1.13E+03	1.88E+03	6.47E+02	8.41E+02	8.61E+02
15.	CM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16.	CO+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17.	CO3-2	4.68E+03	1.08E+03	2.09E+03	3.55E+03	9.17E+03	3.73E+03	8.97E+02	2.12E+03	2.95E+03	2.30E+03
18.	CR(OH)4-	1.51E+02	4.86E+01	1.12E+02	1.65E+02	5.64E+02	2.32E+02	3.21E+01	1.27E+02	1.71E+02	4.73E+01
19.	CR+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20.	CS+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21.	CS-137	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22.	CU+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23.	F-	6.59E+03	2.11E+03	4.92E+03	1.54E+04	2.58E+04	1.02E+04	6.84E+03	6.68E+03	7.38E+03	1.23E+04
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25.	FE+3	1.29E+02	2.80E+01	6.31E+01	1.46E+02	3.22E+02	1.30E+02	4.20E+01	7.58E+01	1.03E+02	1.18E+02
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28.	H2O	1.21E+06	3.57E+05	8.04E+05	2.42E+06	4.08E+06	1.62E+06	1.22E+06	1.08E+06	1.19E+06	1.82E+06
29.	HG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30.	I-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31.	K+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32.	LA+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33.	LI+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34.	MG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35.	MN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36.	MN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38.	MO+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39.	NA+	1.45E+05	4.26E+04	9.51E+04	2.80E+05	4.87E+05	1.94E+05	1.37E+05	1.28E+05	1.43E+05	2.08E+05
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41.	NI+3	2.16E+01	6.11E+00	1.42E+01	1.69E+01	7.07E+01	2.93E+01	7.57E-01	1.53E+01	2.15E+01	2.17E+00
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43.	NO2-	2.96E+03	9.72E+02	2.16E+03	5.21E+03	1.12E+04	4.48E+03	3.85E+03	3.12E+03	3.82E+03	3.25E-01
44.	NO3-	1.38E+05	3.87E+04	8.96E+04	1.72E+05	4.53E+05	1.85E+05	3.56E+04	1.03E+05	1.38E+05	1.27E+05
45.	NP+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46.	OH-	3.68E+04	9.77E+03	2.11E+04	9.45E+04	1.06E+05	4.07E+04	5.98E+04	3.33E+04	2.93E+04	7.99E+04
47.	P2O5:24WO2:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48.	PB+4	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49.	PO4-3	4.70E+04	1.52E+04	3.51E+04	8.74E+04	1.80E+05	7.22E+04	4.01E+04	4.57E+04	5.24E+04	4.85E+04
50.	PU-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52.	RE+7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53.	RH+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54.	RU+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55.	SB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56.	SE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57.	SI+4	0.00E+00	0.00E+00	3.70E+01	0.00E+00	0.00E+00	7.54E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58.	SM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60.	SO4-2	7.26E+03	2.45E+03	5.22E+03	6.52E+03	2.43E+04	1.00E+04	9.55E+02	5.39E+03	7.28E+03	2.13E+03
61.	SR+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-03
62.	TCO4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63.	TE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64.	TH+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65.	TI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66.	TL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67.	TOC	6.54E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
68.	UO2+2	2.34E+03	1.81E+02	1.72E+02	9.00E+00	2.70E+01	1.11E+01	3.85E+00	5.53E+00	1.55E+02	6.46E+01
69.	V+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70.	W+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71.	ZN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72.	ZR+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73.	ZRO2:2H2O	0.00E+00	0.00E+00	0.00E+00	3.89E+01	5.15E+00	0.00E+00	5.27E+01	1.09E+01	0.00E+00	0.00E+00
	Total	1.60E+06	4.70E+05	1.05E+06	3.09E+06	5.38E+06	2.14E+06	1.51E+06	1.41E+06	1.58E+06	2.30E+06
	Diluted Vol (ML)	1260.9	370.4	835.7	2434.8	4234.8	1687.0	1191.3	1113.0	1243.5	1808.7
74.	C14 (Ci)	8.52E-01	2.60E-01	6.20E-01	8.10E-02	2.02E+00	8.49E-02	2.41E+00	1.81E+00	1.27E+00	2.14E+01
75.	Sr90 (Ci)	3.92E-28	2.28E+00	6.84E+01	5.64E+01	8.47E+00	1.11E+00	1.67E+02	2.99E+02	3.89E+01	4.36E+02
76.	Y90 (Ci)	3.92E-28	2.28E+00	6.84E+01	5.64E+01	8.47E+00	1.11E+00	1.67E+02	2.99E+02	3.89E+01	4.36E+02
77.	Tc99 (Ci)	5.84E-29	2.86E-01	1.59E+00	5.57E-01	4.38E+00	2.07E-01	3.99E+00	8.36E+00	2.89E+00	9.27E+01
78.	Cs137 (Ci)	2.57E-26	6.03E+02	2.44E+03	1.14E+03	9.49E+03	4.29E+02	1.11E+04	7.77E+03	3.13E+03	1.56E+04
79.	Ba137 (Ci)	2.45E-26	5.73E+02	2.31E+03	1.08E+03	9.01E+03	4.08E+02	1.05E+04	7.38E+03	2.97E+03	1.48E+04
80.	U235 (Ci)	1.52E-01	9.73E-03	3.63E-02	3.72E-03	7.71E-03	1.21E-02	0.00E+00	3.61E-01	9.16E-02	1.62E-02
81.	U238 (Ci)	3.20E+00	2.05E-01	8.64E-01	8.36E-02	1.74E-01	2.73E-01	0.00E+00	8.31E+00	2.10E+00	3.61E-01
82.	Np237 (Ci)	1.89E-05	3.89E-04	1.89E-03	7.00E-04	5.47E-03	2.76E-04	6.86E-03	9.19E-03	3.23E-03	3.03E-03
83.	Pu238 (Ci)	6.35E-01	7.37E-02	9.79E-02	4.18E-03	4.52E-04	7.52E-05	1.61E-03	3.96E-04	2.52E-04	2.76E-01
84.	Pu239 (Ci)	8.72E+00	8.32E-01	2.85E+00	1.69E+00	1.69E-01	1.88E-02	6.67E-01	6.67E-02	7.40E-03	3.91E+00
85.	Pu240 (Ci)	2.55E+00	2.42E-01	8.26E-01	1.74E-01	1.74E-02	1.94E-03	5.63E-02	5.63E-03	6.28E-04	7.82E-01
86.	Pu241 (Ci)	3.91E+01	3.70E+00	7.18E+00	2.61E-01	2.61E-02	2.89E-03	6.11E-02	6.11E-03	6.80E-04	8.32E+00
87.	Am241 (Ci)	5.78E+00	5.47E-01	3.61E+00	2.56E-01	2.62E-02	1.48E-02	7.33E-02	3.28E-01	1.21E-01	8.20E+01
88.	Cm244 (Ci)	1.48E-32	1.13E-05	1.11E-04	3.22E-08	1.43E-06	8.59E-06	3.19E-05	6.95E-04	2.21E-04	1.02E-01

Revised Tank Inventory for Solid Phase Constituents (B)

	Chemical	Mass (kg)									
		101B	102B	103B	104B	105B	106B	107B	108B	109B	110B
1.	AG+	1.01E-36	9.58E-09	4.80E-08	1.65E-08	1.51E-07	6.89E-09	1.42E-07	2.34E-07	8.28E-08	2.44E-06
2.	AL(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.	AL+3	2.76E+03	4.64E+02	0.00E+00	1.33E+04	3.90E+02	0.00E+00	2.25E+04	4.19E+03	7.73E+03	0.00E+00
4.	AM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.	AS+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.	B+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.	BA+2	1.61E+01	1.23E+00	8.01E-01	1.16E-01	7.76E-01	6.62E-02	9.38E-01	7.00E-01	8.50E-01	1.65E+01
8.	BE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9.	BI+3	1.43E+00	4.59E-01	1.07E+00	7.30E+03	9.33E+02	2.22E+00	4.69E+03	9.73E+02	1.61E+00	9.45E+03
10.	CA+2	1.03E+03	3.45E+01	2.37E+01	1.31E+03	2.10E+02	1.89E+01	7.39E+02	1.63E+02	2.20E+02	1.90E+03
11.	CANCRINITE	3.83E+04	1.77E+03	2.07E+03	4.46E+04	2.56E+04	4.29E+03	2.23E+04	9.02E+03	6.17E+03	0.00E+00
12.	CD+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13.	CE+3	2.33E-29	2.62E+01	9.00E+01	2.00E+03	1.48E+02	1.73E+01	9.11E+02	1.83E+02	1.05E+02	0.00E+00
14.	CL-	2.02E+01	2.53E+00	5.59E+00	3.58E+01	3.13E+01	1.14E+01	9.89E+01	9.11E+00	9.32E+00	4.53E+01
15.	CM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16.	CO+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17.	CO3-2	2.78E+02	4.25E+01	5.07E+01	1.96E+02	0.00E+00	3.77E+01	9.96E+01	4.01E+01	5.51E+01	0.00E+00
18.	CR(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19.	CR+3	1.78E+00	1.29E+00	1.21E+00	8.52E+01	1.33E+01	1.02E+00	5.34E+01	1.36E+01	5.40E+00	9.32E+01
20.	CS+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21.	CS-137	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22.	CU+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23.	F-	6.66E+01	2.13E+01	4.97E+01	5.83E+02	3.15E+02	1.03E+02	3.60E+02	1.28E+02	7.46E+01	6.49E+02
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25.	FE+3	4.46E+03	1.16E+02	4.93E+01	7.65E+03	9.69E+02	1.31E+00	4.16E+03	8.63E+02	8.70E+02	1.17E+04
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28.	H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29.	HG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30.	I-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31.	K+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32.	LA+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33.	LI+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34.	MG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35.	MN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36.	MN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38.	MO+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39.	NA+	1.58E+03	2.68E+02	4.74E+02	7.95E+03	2.85E+03	7.80E+02	5.71E+03	1.60E+03	5.76E+02	8.05E+03
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41.	NI+3	3.16E+03	4.43E+01	2.22E+01	1.72E+03	2.34E+02	7.26E+00	9.09E+02	1.92E+02	3.19E+02	2.60E+03
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43.	NO2-	2.99E+01	9.82E+00	2.19E+01	5.27E+01	0.00E+00	0.00E+00	3.89E+01	3.15E+01	3.86E+01	0.00E+00
44.	NO3-	1.39E+03	3.91E+02	9.05E+02	1.73E+03	0.00E+00	7.13E+02	3.60E+02	1.04E+03	1.39E+03	0.00E+00
45.	NP+4	0.00E+00	0.00E+00	1.00E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46.	OH-	1.71E+04	1.21E+03	1.07E+02	8.14E+02	0.00E+00	0.00E+00	2.01E+04	3.01E+03	1.57E+04	0.00E+00
47.	P2O5:24WO2:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48.	PB+4	5.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49.	PO4-3	9.06E+02	5.22E+02	7.23E+02	7.44E+04	1.12E+04	7.30E+02	6.02E+04	1.28E+04	5.29E+02	7.27E+04
50.	PU-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52.	RE+7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53.	RH+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54.	RU+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55.	SB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56.	SE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57.	SI+4	0.00E+00	0.00E+00	4.24E-01	0.00E+00	0.00E+00	7.72E-01	0.00E+00	0.00E+00	0.00E+00	1.13E+03
58.	SM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60.	SO4-2	8.11E+01	2.85E+01	5.65E+01	7.84E+01	2.47E+02	1.01E+02	1.95E+01	5.65E+01	7.35E+01	4.34E+01
61.	SR+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-01
62.	TCO4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63.	TE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64.	TH+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65.	TI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66.	TL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67.	TOC	7.26E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
68.	UO2+2	4.44E+04	3.39E+03	3.18E+03	6.01E+01	8.15E+00	1.12E-01	7.31E+01	1.52E+01	2.79E+03	1.23E+03
69.	V+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70.	W+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71.	ZN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72.	ZR+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73.	ZRO2:2H2O	0.00E+00	0.00E+00	0.00E+00	3.85E+03	5.10E+02	0.00E+00	5.21E+03	1.06E+03	0.00E+00	0.00E+00
	Total	1.16E+05	8.34E+03	7.83E+03	1.68E+05	4.37E+04	6.82E+03	1.49E+05	3.54E+04	3.68E+04	1.10E+05
	Vol (ML) #pg-3	38.6	2.8	2.6	56.0	14.6	2.3	49.5	11.8	12.3	36.7
74.	C14 (Ci)	8.61E-03	2.63E-03	6.26E-03	8.19E-04	2.04E-02	8.57E-04	2.44E-02	1.83E-02	1.29E-02	2.16E-01
75.	Sr90 (Ci)	3.88E-26	2.26E+02	6.78E+03	5.58E+03	8.38E+02	1.10E+02	1.65E+04	2.96E+04	3.85E+03	4.32E+04
76.	Y90 (Ci)	3.88E-26	2.26E+02	6.78E+03	5.58E+03	8.38E+02	1.10E+02	1.65E+04	2.96E+04	3.85E+03	4.32E+04
77.	Tc99 (Ci)	5.84E-29	2.86E-01	1.59E+00	5.57E-01	4.38E+00	2.07E-01	3.99E+00	8.35E+00	2.89E+00	9.27E+01
78.	Cs137 (Ci)	8.58E-27	2.01E+02	8.12E+02	3.80E+02	3.16E+03	1.43E+02	3.70E+03	2.59E+03	1.04E+03	5.19E+03
79.	Ba137 (Ci)	8.15E-27	1.91E+02	7.71E+02	3.61E+02	3.00E+03	1.36E+02	3.52E+03	2.46E+03	9.92E+02	4.93E+03
80.	U235 (Ci)	1.93E-01	2.60E-02	4.54E-02	1.07E-02	7.73E-04	1.22E-04	8.64E-02	3.65E-03	9.25E-04	3.07E-01
81.	U238 (Ci)	4.07E+00	5.46E-01	1.08E+00	2.40E-01	1.74E-02	2.76E-03	1.97E+00	8.40E-02	2.12E-02	6.86E+00
82.	Np237 (Ci)	1.70E-04	3.50E-03	1.71E-02	6.30E-03	4.93E-02	2.48E-03	6.18E-02	8.27E-02	2.90E-02	2.73E-02
83.	Pu238 (Ci)	3.11E+01	3.61E+00	4.79E+00	2.05E-01	2.21E-02	3.68E-03	7.89E-02	1.94E-02	1.23E-02	1.35E+01
84.	Pu239 (Ci)	4.27E+02	4.08E+01	1.40E+02	8.30E+01	8.30E+00	9.22E-01	3.27E+01	3.27E+00	3.63E-01	1.92E+02
85.	Pu240 (Ci)	1.25E+02	1.19E+01	4.05E+01	8.54E+00	8.54E-01	9.48E-02	2.76E+00	2.76E-01	3.08E-02	3.83E+01
86.	Pu241 (Ci)	1.91E+03	1.81E+02	3.52E+02	1.28E+01	1.28E+00	1.42E-01	2.99E+00	2.99E-01	3.33E-02	4.07E+02
87.	Am241 (Ci)	5.20E+01	4.92E+00	3.25E+01	2.31E+00	2.35E-01	1.33E-01	6.59E-01	2.95E+00	1.09E+00	7.38E+02
88.	Cm244 (Ci)	1.47E-30	1.12E-03	1.10E-02	3.19E-06	1.42E-04	8.51E-04	3.16E-03	6.88E-02	2.18E-02	1.01E+01

Revised Tank Inventory for Liquid Phase Constituents (B,BX)

		Mass (kg)									
	Chemical	111B	112B	201B	202B	203B	204B	101BX	102BX	103BX	104BX
1.	AG+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.	AL(OH)4-	0.00E+00	6.35E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E+02	9.92E+02	1.59E+03	0.00E+00
3.	AL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4.	AM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.	AS+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.	B+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.	BA+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8.	BE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9.	BI+3	8.77E+01	9.68E+00	1.06E+01	1.03E+01	1.90E+01	1.86E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10.	CA+2	1.55E+00	6.37E+00	2.73E-01	2.64E-01	4.88E-01	4.78E-01	3.08E-01	1.97E-01	3.07E-01	1.57E-01
11.	CANCRINITE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12.	CD+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13.	CE+3	3.62E-02	1.25E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-20	7.71E+00	7.59E-18	4.48E-04
14.	CL-	7.96E+02	2.73E+02	1.12E+02	1.09E+02	2.01E+02	1.97E+02	1.13E+02	2.12E+01	3.33E+01	1.61E+01
15.	CM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16.	CO+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17.	CO3-2	2.39E+03	7.75E+02	4.21E+02	4.07E+02	7.52E+02	7.38E+02	3.46E+03	3.51E+03	5.43E+03	4.01E+03
18.	CR(OH)4-	4.37E+01	2.03E+02	6.18E+00	5.97E+00	1.10E+01	1.08E+01	3.52E+00	5.16E+00	8.03E+00	4.99E+00
19.	CR+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20.	CS+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21.	CS-137	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22.	CU+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23.	F-	1.13E+04	9.29E+02	8.71E+03	8.42E+03	1.56E+04	1.53E+04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25.	FE+3	1.34E+02	2.39E+01	1.40E+01	1.36E+01	2.51E+01	2.46E+01	1.75E+01	9.10E+00	1.43E+01	6.72E+00
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28.	H2O	1.83E+06	3.52E+05	1.81E+05	1.75E+05	3.23E+05	3.17E+05	6.71E+05	4.79E+05	7.32E+05	4.32E+05
29.	HG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30.	I-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31.	K+	0.00E+00	3.42E+01	2.39E+02	2.31E+02	4.27E+02	4.19E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32.	LA+3	0.00E+00	0.00E+00	1.63E+00	1.58E+00	2.92E+00	2.86E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33.	LI+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34.	MG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35.	MN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36.	MN+4	0.00E+00	0.00E+00	3.19E-02	3.08E-02	5.69E-02	5.59E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38.	MO+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39.	NA+	2.09E+05	4.46E+04	2.15E+04	2.08E+04	3.84E+04	3.77E+04	3.06E+04	2.86E+04	4.42E+04	3.23E+04
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41.	NI+3	2.17E+00	4.05E+00	4.21E-01	4.07E-01	7.51E-01	7.37E-01	1.26E+00	2.82E-01	4.42E-01	2.13E-01
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43.	NO2-	3.54E+00	3.84E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E+01	2.19E+02	3.51E+02	0.00E+00
44.	NO3-	1.17E+05	7.67E+04	2.12E+04	2.05E+04	3.79E+04	3.72E+04	9.55E+03	4.11E+03	6.45E+03	2.96E+03
45.	NP+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46.	OH-	8.65E+04	7.38E+03	3.03E+03	2.93E+03	5.41E+03	5.31E+03	1.82E+04	1.60E+04	2.61E+04	1.98E+04
47.	P2O5:24WO2:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48.	PB+4	7.06E-05	4.32E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49.	PD4-3	4.46E+04	3.62E+03	7.72E+02	7.46E+02	1.38E+03	1.35E+03	2.41E+03	2.88E+03	4.45E+03	3.38E+03
50.	PU-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52.	RE+7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53.	RH+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54.	RU+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55.	SB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56.	SE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57.	SI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58.	SN+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60.	SO4-2	6.80E+03	1.32E+03	1.29E+01	1.25E+01	2.30E+01	2.26E+01	3.73E+03	4.31E+03	6.66E+03	5.05E+03
61.	SR+2	1.08E-02	0.00E+00	3.11E+01	3.00E+01	5.55E+01	5.44E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62.	TCO4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63.	TE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64.	TH+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65.	TI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66.	TL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67.	TOC	2.45E+00	1.64E+02	7.64E+02	7.39E+02	1.36E+03	1.34E+03	2.76E+02	0.00E+00	0.00E+00	0.00E+00
68.	UO2+2	4.18E+02	2.26E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E+03	2.01E+03	3.10E+03	2.29E+03
69.	V+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70.	W+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71.	ZN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72.	ZR+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73.	ZRO2:2H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total	2.31E+06	4.93E+05	2.37E+05	2.30E+05	4.24E+05	4.16E+05	7.42E+05	5.43E+05	8.31E+05	5.02E+05
	Diluted Vol (ML)	1817.4	387.8	187.0	180.9	333.9	327.8	670.6	475.6	726.7	426.0
74.	C14 (Ci)	4.52E+02	1.40E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E+00	1.03E+02	1.61E+01	2.11E+02
75.	Sr90 (Ci)	8.03E-07	9.40E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-18	8.90E+02	1.74E+03	1.31E+02
76.	Y90 (Ci)	8.03E-07	9.40E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-18	8.90E+02	1.74E+03	1.31E+02
77.	Tc99 (Ci)	9.43E+02	6.37E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-17	1.99E+02	1.19E-16	1.02E+03
78.	Cs137 (Ci)	1.39E+05	5.71E+04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-15	6.43E+04	2.22E-13	1.54E+05
79.	Ba137 (Ci)	1.32E+05	5.42E+04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-15	6.10E+04	2.11E-13	1.46E+05
80.	U235 (Ci)	9.38E-04	8.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.38E-03	9.67E-05	9.90E-05	1.73E-03
81.	U238 (Ci)	2.16E-02	1.92E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-01	2.21E-03	2.10E-03	4.16E-02
82.	Np237 (Ci)	1.42E+00	6.86E-02	0.00E+00	1.50E-05	7.16E-08	7.16E-07	2.58E-05	1.05E-01	7.33E-10	1.13E+00
83.	Pu238 (Ci)	3.38E-03	2.75E-02	0.00E+00	6.73E-02	8.86E-05	8.86E-04	2.18E-01	2.00E-02	3.51E-03	3.20E-02
84.	Pu239 (Ci)	5.38E-01	5.59E-02	0.00E+00	3.11E+00	1.05E-02	1.05E-01	7.64E+00	4.31E-01	3.80E-06	1.00E+00
85.	Pu240 (Ci)	1.00E-01	1.03E-02	0.00E+00	8.64E-01	2.52E-03	2.52E-02	2.30E+00	1.47E-01	5.11E-06	2.90E-01
86.	Pu241 (Ci)	3.22E-01	3.26E-02	0.00E+00	6.31E+00	9.55E-03	9.55E-02	3.14E+01	2.19E+00	2.10E-05	2.47E+00
87.	Am241 (Ci)	2.48E-01	2.44E+00	0.00E+00	2.26E+00	6.71E-03	6.71E-02	6.14E+00	4.40E+01	9.60E-05	1.12E+00
88.	Cm244 (Ci)	7.95E-03	5.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-21	2.47E-02	5.19E-22	1.08E-02

Revised Tank Inventory for Solid Phase Constituents (B,BX)

	Chemical	Mass (kg)									
		111B	112B	201B	202B	203B	204B	101BX	102BX	103BX	104BX
1.	AG+	3.20E-05	1.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-25	5.64E-06	3.82E-24	3.45E-05
2.	AL(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.	AL+3	0.00E+00	1.82E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E+03	3.24E+03	5.20E+03	0.00E+00
4.	AM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.	AS+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.	B+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.	BA+2	2.55E+00	6.74E+00	0.00E+00	1.12E-01	0.00E+00	0.00E+00	4.64E-01	1.31E+00	6.30E-01	3.36E+00
8.	BE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9.	BI+3	8.69E+03	5.46E+02	1.05E+03	1.02E+03	1.88E+03	1.84E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10.	CA+2	1.97E+03	1.11E+02	3.47E+02	3.35E+02	5.20E+02	6.08E+02	3.91E+02	2.50E+02	3.91E+02	2.00E+02
11.	CANCRINITE	1.09E+03	4.98E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E+04	6.50E+01	1.00E+02	0.00E+00
12.	CD+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13.	CE+3	3.59E+00	1.24E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-18	7.64E+02	7.61E-16	4.43E-02
14.	CL-	4.19E+01	4.87E+00	5.92E+00	5.72E+00	1.06E+01	1.04E+01	5.97E+00	1.12E+00	1.75E+00	8.48E-01
15.	CM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16.	CO+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17.	CO3-2	0.00E+00	0.00E+00	4.68E+01	4.52E+01	8.36E+01	8.20E+01	3.85E+02	3.90E+02	6.04E+02	4.45E+02
18.	CN(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19.	CR+3	8.62E+01	5.26E+00	1.22E+01	1.18E+01	2.17E+01	2.13E+01	6.95E+00	1.02E+01	1.58E+01	9.84E+00
20.	CS+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21.	CS-137	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22.	CU+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23.	F-	5.96E+02	3.97E+01	4.58E+02	4.43E+02	8.19E+02	8.03E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25.	FE+3	1.33E+04	6.51E+02	1.39E+03	1.34E+03	2.48E+03	2.44E+03	1.74E+03	9.01E+02	1.41E+03	8.65E+02
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28.	H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29.	HG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30.	I-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31.	K+	0.00E+00	3.45E-01	1.53E+02	1.48E+02	2.73E+02	2.68E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32.	LA+3	0.00E+00	0.00E+00	1.62E+02	1.56E+02	2.89E+02	2.83E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33.	LI+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34.	MG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35.	MN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36.	MN+4	0.00E+00	0.00E+00	6.16E+03	5.95E+03	1.10E+04	1.08E+04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38.	MO+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39.	NA+	8.71E+03	6.12E+02	8.97E+02	8.67E+02	1.60E+03	1.57E+03	1.27E+03	1.19E+03	1.84E+03	1.35E+03
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41.	NI+3	2.61E+03	1.49E+02	5.05E+02	4.88E+02	9.02E+02	8.85E+02	1.51E+03	3.39E+02	5.30E+02	2.56E+02
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43.	NO2-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-01	2.21E+00	3.55E+00	0.00E+00
44.	NO3-	0.00E+00	0.00E+00	2.14E+02	2.07E+02	3.83E+02	3.76E+02	9.74E+01	4.15E+01	6.51E+01	2.99E+01
45.	NP+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46.	OH-	0.00E+00	0.00E+00	2.99E+03	2.89E+03	5.34E+03	5.23E+03	9.47E+03	1.08E+04	1.63E+04	4.22E+03
47.	P2O5:24W02:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48.	PB+4	1.11E-03	4.36E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49.	PO4-3	6.68E+04	4.21E+03	1.16E+03	1.12E+03	2.07E+03	2.03E+03	3.61E+03	4.32E+03	6.68E+03	5.07E+03
50.	PU-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52.	RE+7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53.	RH+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54.	RU+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55.	SB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56.	SE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57.	SI+4	1.36E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E+00
58.	SM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60.	SO4-2	1.39E+02	1.41E+01	2.63E-01	2.54E-01	4.70E-01	4.61E-01	7.60E+01	8.80E+01	1.36E+02	1.03E+02
61.	SR+2	1.07E+00	0.00E+00	3.08E+03	2.97E+03	5.49E+03	5.39E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62.	TCO4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63.	TE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64.	TH+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65.	TI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66.	TL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67.	TOC	2.72E-01	1.66E+00	8.49E+01	8.21E+01	1.52E+02	1.49E+02	3.07E+01	0.00E+00	0.00E+00	0.00E+00
68.	UO2+2	7.95E+03	1.09E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E+04	3.81E+04	5.90E+04	4.34E+04
69.	V+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70.	W+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71.	ZN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72.	ZR+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73.	ZRO2:2H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total	1.13E+05	1.26E+04	1.87E+04	1.81E+04	3.34E+04	3.28E+04	8.29E+04	6.03E+04	9.23E+04	5.58E+04
	Vol (ML) spg=3	37.8	4.2	6.2	6.0	11.1	10.9	27.5	20.1	30.8	18.6
74.	C14 (Ci)	4.57E+00	1.41E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-02	1.05E+00	1.63E-01	2.13E+00
75.	Sr90 (Ci)	7.95E-05	9.30E+04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-16	8.81E+04	1.72E+05	1.29E+04
76.	Y90 (Ci)	7.95E-05	9.30E+04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-16	8.81E+04	1.72E+05	1.29E+04
77.	Tc99 (Ci)	9.43E+02	6.37E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-17	1.99E+02	1.19E-16	1.02E+03
78.	Cs137 (Ci)	4.63E+04	1.90E+04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-16	2.14E+04	7.40E-14	5.12E+04
79.	Ba137 (Ci)	4.40E+04	1.81E+04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-16	2.03E+04	7.00E-14	4.86E+04
80.	U235 (Ci)	1.78E-02	1.70E-02	0.00E+00	1.11E-01	1.85E-08	1.85E-07	1.40E-01	1.84E-03	1.88E-03	3.29E-02
81.	U238 (Ci)	4.11E-01	3.91E-01	0.00E+00	2.68E+00	0.00E+00	0.00E+00	2.97E+00	4.20E-02	4.00E-02	7.90E-01
82.	Np237 (Ci)	1.27E+01	6.18E-01	0.00E+00	1.35E-04	6.44E-07	6.44E-06	2.32E-04	9.45E-01	5.60E-09	1.02E+01
83.	Pu238 (Ci)	1.66E-01	1.35E+00	0.00E+00	3.30E+00	4.34E-03	4.34E-02	1.07E+01	9.80E-01	1.72E-01	1.57E+00
84.	Pu239 (Ci)	2.63E+01	2.74E+00	0.00E+00	1.53E+02	5.13E-01	5.13E+00	3.74E+02	2.11E+01	1.86E-04	4.92E+01
85.	Pu240 (Ci)	4.92E+00	5.06E-01	0.00E+00	4.24E+01	1.23E-01	1.23E+00	1.13E+02	7.18E+00	2.50E-04	1.42E+01
86.	Pu241 (Ci)	1.58E+01	1.60E+00	0.00E+00	3.09E+02	4.68E-01	4.68E+00	1.54E+03	1.07E+02	1.03E-03	1.21E+02
87.	Am241 (Ci)	2.23E+00	2.19E+01	0.00E+00	2.03E+01	6.04E-02	6.04E-01	5.53E+01	3.96E+02	8.64E-04	1.01E+01
88.	Cm244 (Ci)	7.87E-01	5.18E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-19	2.44E+00	5.13E-20	1.07E+00

Revised Tank Inventory for Liquid Phase Constituents (BX,BY)

	Chemical	Mass (kg)									
		105BX	106BX	107BX	108BX	109BX	110BX	111BX	112BX	101BY	102BY
1.	AG+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.	AL(OH)4-	0.00E+00	0.00E+00	1.45E+04	1.10E+03	5.74E+03	8.82E+03	1.11E+04	5.55E+03	1.89E+04	1.69E+04
3.	AL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4.	AM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.	AS+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.	B+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.	BA+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8.	BE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9.	BI+3	0.00E+00	0.00E+00	9.94E+01	7.52E+00	4.62E+01	5.58E+01	5.60E+01	9.87E+01	9.10E+01	8.12E+01
10.	CA+2	1.76E-01	1.19E-01	1.22E+00	9.23E-02	1.09E+01	1.70E+01	7.07E+01	1.36E+01	1.37E+02	1.23E+02
11.	CANCRINITE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12.	CD+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13.	CE+3	6.33E+00	1.79E+02	3.23E+01	7.13E-02	4.73E-03	1.98E+01	2.03E+01	1.56E+01	2.61E+01	7.55E+00
14.	CL-	1.80E+01	1.22E+01	6.13E+02	4.64E+01	8.73E+03	8.61E+02	2.56E+03	5.48E+02	4.88E+03	4.36E+03
15.	CM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16.	CO+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17.	CO3-2	4.49E+03	3.03E+03	1.88E+03	1.42E+02	2.90E+04	2.53E+03	7.40E+03	1.75E+03	1.77E+04	1.43E+04
18.	CR(OH)4-	5.59E+00	3.77E+00	6.74E+01	5.10E+00	1.57E+02	5.54E+02	2.25E+03	9.00E+01	4.37E+03	3.90E+03
19.	CR+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20.	CS+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21.	CS-137	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22.	CU+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23.	F-	0.00E+00	0.00E+00	1.43E+04	1.09E+03	6.66E+03	7.05E+03	3.77E+03	8.31E+03	4.74E+03	4.23E+03
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25.	FE+3	7.53E+00	5.08E+00	8.82E+01	6.67E+00	9.75E+02	8.53E+01	2.03E+02	6.96E+01	3.85E+02	3.41E+02
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28.	H2O	4.92E+05	5.45E+05	2.55E+06	1.93E+05	5.70E+06	1.83E+06	3.10E+06	1.42E+06	5.84E+06	5.12E+06
29.	HG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30.	I-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31.	K+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E+01	3.84E+02	0.00E+00	7.47E+02	6.67E+02
32.	LA+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33.	LI+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34.	MG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35.	MN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36.	MN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38.	MO+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39.	NA+	3.62E+04	2.44E+04	2.87E+05	2.17E+04	5.97E+05	2.18E+05	4.03E+05	1.63E+05	7.62E+05	5.69E+05
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41.	NI+3	2.39E-01	1.61E-01	1.59E+00	1.20E-01	1.62E+01	1.10E+01	4.42E+01	8.70E+00	8.59E+01	7.66E+01
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43.	NO2-	0.00E+00	0.00E+00	8.08E+03	6.11E+02	3.75E+03	1.37E+04	4.38E+04	4.34E+03	8.38E+04	7.48E+04
44.	NO3-	3.32E+03	2.24E+03	7.47E+04	5.66E+03	8.78E+05	2.17E+05	7.91E+05	7.96E+04	1.53E+06	1.36E+06
45.	NP+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46.	OH-	2.21E+04	1.50E+04	1.27E+05	9.62E+03	2.10E+05	6.60E+04	4.90E+04	5.98E+04	9.03E+04	7.34E+04
47.	P2O5:24WO2:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48.	PB+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E+01	4.85E+01	0.00E+00	9.43E+01	8.42E+01
49.	PO4-3	3.78E+03	2.56E+03	8.42E+04	6.37E+03	5.13E+04	4.02E+04	1.70E+04	5.22E+04	2.08E+04	1.74E+04
50.	PU-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52.	RE+7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53.	RH+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54.	RU+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55.	SB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56.	SE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57.	SI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58.	SM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60.	SO4-2	5.66E+03	3.82E+03	2.00E+03	1.52E+02	1.01E+05	4.16E+03	1.42E+04	3.54E+03	3.17E+04	2.65E+04
61.	SR+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62.	TCO4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63.	TE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64.	TH+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65.	TI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66.	TL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67.	TOC	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E+02	1.98E+03	0.00E+00	3.93E+03	3.52E+03
68.	UO2+2	2.56E+03	1.73E+03	8.07E+00	6.11E-01	1.21E+03	6.27E+01	2.54E+02	6.15E+00	2.55E+03	1.44E+03
69.	V+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70.	W+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71.	ZN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72.	ZR+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73.	ZRO2:2H2O	0.00E+00	0.00E+00	1.10E+02	8.36E+00	5.13E+01	4.99E+01	1.03E+01	4.24E+01	0.00E+00	0.00E+00
	Total	5.70E+05	5.98E+05	3.17E+06	2.40E+05	7.70E+06	2.41E+06	4.45E+06	1.80E+06	8.42E+06	7.39E+06
	Diluted Vol (ML)	484.7	540.4	2495.7	188.7	6060.9	1895.7	3504.3	1417.4	6626.1	5817.4
74.	C14 (Ci)	1.43E+02	3.92E+02	4.55E-02	1.47E-02	1.24E+00	2.21E+01	2.28E+01	5.93E-01	2.91E+01	8.44E+00
75.	Sr90 (Ci)	2.81E+04	1.15E+04	3.10E+02	3.39E+01	2.74E+03	1.53E+03	1.52E+03	3.11E+01	2.38E+03	9.76E+02
76.	Y90 (Ci)	2.81E+04	1.15E+04	3.10E+02	3.39E+01	2.74E+03	1.53E+03	1.52E+03	3.11E+01	2.38E+03	9.76E+02
77.	Tc99 (Ci)	4.79E+02	7.44E+02	1.64E+00	3.81E-02	1.40E+00	1.01E+02	1.04E+02	6.27E-01	1.33E+02	3.86E+01
78.	Cs137 (Ci)	3.66E+04	1.37E+06	3.36E+03	1.10E+02	3.80E+03	9.05E+04	9.30E+04	1.68E+03	1.19E+05	3.46E+04
79.	Ba137 (Ci)	3.48E+04	1.30E+06	3.20E+03	1.05E+02	3.61E+03	8.59E+04	8.84E+04	1.60E+03	1.13E+05	3.28E+04
80.	U235 (Ci)	9.79E-05	1.05E-04	0.00E+00	0.00E+00	9.10E-03	1.04E-02	4.34E-03	1.63E+00	6.03E-04	7.02E-03
81.	U238 (Ci)	2.31E-03	1.96E-03	0.00E+00	0.00E+00	2.14E-01	2.40E-01	9.98E-02	3.86E+01	1.39E-02	1.63E-01
82.	Np237 (Ci)	1.22E-01	4.89E-01	2.11E-03	6.24E-05	2.87E-03	1.09E-01	1.12E-01	1.22E-03	1.43E-01	4.15E-02
83.	Pu238 (Ci)	8.58E-03	6.40E-03	1.87E-03	2.19E-04	8.65E-03	2.25E-03	7.23E-04	2.37E-03	2.42E-03	3.57E-03
84.	Pu239 (Ci)	1.93E-05	2.20E-05	7.40E-01	7.40E-02	9.29E-01	2.85E-01	2.85E-02	1.88E-01	6.20E-04	6.34E-05
85.	Pu240 (Ci)	3.16E-04	3.15E-04	7.59E-02	7.59E-03	1.25E-01	3.98E-02	4.01E-03	4.06E-02	1.42E-04	2.76E-05
86.	Pu241 (Ci)	2.31E-05	4.51E-05	1.19E-01	1.19E-02	2.61E-01	8.07E-02	8.07E-03	1.38E-01	2.10E-04	2.89E-05
87.	Am241 (Ci)	2.26E+02	1.59E+02	1.82E-01	1.82E-02	1.57E+00	3.92E+00	3.94E+00	1.50E-01	5.03E+00	1.45E+00
88.	Cm244 (Ci)	1.03E-01	8.58E-02	1.12E-07	3.44E-07	9.81E-06	8.29E-03	8.53E-03	5.34E-06	1.09E-02	3.17E-03

Revised Tank Inventory for Solid Phase Constituents (BX,BY)

		Mass (kg)									
	Chemical	105BX	106BX	107BX	108BX	109BX	110BX	111BX	112BX	101BY	102BY
1.	AG+	1.24E-05	4.27E-05	4.92E-08	1.33E-09	4.68E-08	2.78E-06	2.86E-06	2.14E-08	3.67E-06	1.06E-06
2.	AL(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.	AL+3	0.00E+00	0.00E+00	4.74E+04	3.58E+03	2.20E+04	2.14E+04	4.44E+03	1.79E+04	5.42E+01	4.84E+01
4.	AM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.	AS+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.	B+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.	BA+2	1.57E+00	1.63E+01	4.12E-01	2.47E-01	1.65E+00	1.58E+00	1.41E+00	2.36E-01	4.23E+00	1.40E+00
8.	BE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9.	BI+3	0.00E+00	0.00E+00	9.84E+03	7.45E+02	4.57E+03	4.45E+03	9.18E+02	3.78E+03	9.19E-01	8.21E-01
10.	CA+2	2.24E+02	1.51E+02	1.55E+03	1.17E+02	1.39E+04	7.07E+02	1.73E+02	8.00E+02	2.35E+02	1.36E+02
11.	CANCRINITE	0.00E+00	0.00E+00	4.67E+04	3.54E+03	2.17E+04	2.53E+04	2.21E+04	2.03E+04	3.47E+04	3.09E+04
12.	CD+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13.	CE+3	6.27E+02	1.77E+04	3.20E+03	7.06E+00	4.68E-01	1.96E+03	2.01E+03	1.55E+03	2.58E+03	7.47E+02
14.	CL-	9.49E-01	6.41E-01	3.23E+01	2.44E+00	4.60E+02	2.05E+01	2.83E+01	1.55E+01	5.00E+01	4.43E+01
15.	CM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16.	CO+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17.	CO3-2	4.99E+02	3.37E+02	2.09E+02	1.58E+01	3.22E+03	1.11E+02	9.24E+01	9.06E+01	5.43E+02	3.22E+02
18.	CR(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19.	CR+3	1.10E+01	7.44E+00	1.33E+02	1.01E+01	3.10E+02	6.23E+01	2.22E+01	5.13E+01	2.79E+01	2.14E+01
20.	CS+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21.	CS-137	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22.	CU+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23.	F-	0.00E+00	0.00E+00	7.54E+02	5.71E+01	3.51E+02	3.47E+02	9.50E+01	3.18E+02	4.78E+01	4.27E+01
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25.	FE+3	7.45E+02	5.03E+02	8.73E+03	6.61E+02	9.66E+04	3.95E+03	8.16E+02	3.35E+03	6.03E+02	2.95E+02
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28.	H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29.	HG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30.	I-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31.	K+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.04E-01	3.88E+00	0.00E+00	7.54E+00	6.74E+00
32.	LA+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33.	LI+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34.	MG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35.	MN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36.	MN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38.	MO+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39.	NA+	1.51E+03	1.02E+03	1.20E+04	9.08E+02	2.90E+04	5.81E+03	2.65E+03	4.84E+03	4.14E+03	3.21E+03
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41.	NI+3	2.87E+02	1.94E+02	1.91E+03	1.44E+02	1.95E+04	8.64E+02	1.89E+02	7.33E+02	2.52E+02	1.31E+02
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43.	NO2-	0.00E+00	0.00E+00	8.16E+01	6.18E+00	3.79E+01	1.38E+02	4.42E+02	4.38E+01	8.46E+02	5.75E+02
44.	NO3-	3.35E+01	2.27E+01	7.55E+02	5.71E+01	8.85E+03	2.19E+03	7.99E+03	8.04E+02	1.54E+04	1.38E+04
45.	NP+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46.	OH-	4.96E+03	9.64E+03	4.27E+04	3.15E+03	1.23E+05	1.92E+04	3.31E+03	1.59E+04	2.19E+03	0.00E+00
47.	P2O5:24WO2:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48.	PB+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-01	4.90E-01	0.00E+00	9.53E-01	8.51E-01
49.	PD4-3	5.68E+03	3.84E+03	1.26E+05	9.56E+03	7.69E+04	5.71E+04	1.19E+04	4.86E+04	4.74E+03	2.39E+03
50.	PU-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52.	RE+7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53.	RH+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54.	RU+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55.	SB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56.	SE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57.	SI+4	1.56E+00	1.05E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58.	SM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60.	SO4-2	1.15E+02	7.80E+01	4.09E+01	3.09E+00	2.05E+03	5.14E+01	1.45E+02	4.37E+01	3.68E+02	2.91E+02
61.	SR+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62.	TCO4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63.	TE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64.	TH+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65.	TI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66.	TL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67.	TOC	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E+00	2.00E+01	0.00E+00	3.97E+01	3.55E+01
68.	UO2+2	4.86E+04	3.29E+04	1.53E+02	1.16E+01	2.30E+04	6.99E+01	1.69E+01	5.88E+01	3.91E+04	1.91E+04
69.	V+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70.	W+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71.	ZN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72.	ZR+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73.	ZNO2:2H2O	0.00E+00	0.00E+00	1.09E+04	8.28E+02	5.08E+03	4.94E+03	1.42E+03	4.19E+03	0.00E+00	0.00E+00
	Total	6.33E+04	6.64E+04	3.13E+05	2.34E+04	4.51E+05	1.49E+05	5.84E+04	1.23E+05	1.06E+05	7.21E+04
	Vol (ML) spg=3	21.1	22.1	104.4	7.8	150.2	49.6	19.5	41.1	35.3	24.0
74.	C14 (Ci)	1.45E+00	3.96E+00	4.60E-04	1.48E-04	1.25E-02	2.23E-01	2.30E-01	5.99E-03	2.94E-01	8.53E-02
75.	Sr90 (Ci)	2.78E+06	1.14E+06	3.07E+04	3.36E+03	2.71E+05	1.51E+05	1.51E+05	3.08E+03	2.36E+05	9.66E+04
76.	Y90 (Ci)	2.78E+06	1.14E+06	3.07E+04	3.36E+03	2.71E+05	1.51E+05	1.51E+05	3.08E+03	2.36E+05	9.66E+04
77.	Tc99 (Ci)	4.79E+02	7.44E+02	1.64E+00	3.81E-02	1.40E+00	1.01E+02	1.04E+02	6.27E-01	1.33E+02	3.86E+01
78.	Cs137 (Ci)	1.22E+04	4.57E+05	1.12E+03	3.68E+01	1.27E+03	3.02E+04	3.10E+04	5.81E+02	3.97E+04	1.15E+04
79.	Ba137 (Ci)	1.16E+04	4.34E+05	1.07E+03	3.50E+01	1.20E+03	2.86E+04	2.95E+04	5.33E+02	3.78E+04	1.09E+04
80.	U235 (Ci)	1.86E-03	2.00E-03	3.38E-02	6.07E-03	1.73E-01	1.05E-04	4.38E-05	1.65E-02	1.67E-03	1.14E-02
81.	U238 (Ci)	4.38E-02	3.72E-02	7.75E-01	1.38E-01	4.06E+00	2.42E-03	1.01E-03	3.90E-01	3.85E-02	2.64E-01
82.	Np237 (Ci)	1.10E+00	4.40E+00	1.90E-02	5.61E-04	2.59E-02	9.78E-01	1.01E+00	1.10E-02	1.29E+00	3.73E-01
83.	Pu238 (Ci)	4.20E-01	3.14E-01	9.17E-02	1.07E-02	4.24E-01	1.10E-01	3.54E-02	1.16E-01	1.18E-01	1.75E-01
84.	Pu239 (Ci)	9.45E-04	1.08E-03	3.63E+01	3.63E+00	4.55E+01	1.40E+01	1.40E+00	9.22E+00	3.04E-02	3.11E-03
85.	Pu240 (Ci)	1.55E-02	1.54E-02	3.72E+00	3.72E-01	6.14E+00	1.95E+00	1.96E-01	1.99E+00	6.95E-03	1.35E-03
86.	Pu241 (Ci)	1.13E-03	2.21E-03	5.82E+00	5.82E-01	1.28E+01	3.96E+00	3.96E-01	6.74E+00	1.03E-02	1.42E-03
87.	Am241 (Ci)	2.04E+03	1.43E+03	1.63E+00	1.63E-01	1.42E+01	3.53E+01	3.54E+01	1.35E+00	4.53E+01	1.31E+01
88.	Cm244 (Ci)	1.02E+01	8.50E+00	1.11E-05	3.41E-05	9.71E-04	8.21E-01	8.45E-01	5.28E-04	1.08E+00	3.14E-01

Revised Tank Inventory for Liquid Phase Constituents (BY)

	Chemical	Mass (kg)									
		103BY	104BY	105BY	106BY	107BY	108BY	109BY	110BY	111BY	112BY
1.	AG+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.	AL(OH)4-	2.31E+04	9.38E+03	1.40E+04	2.67E+04	5.99E+03	0.00E+00	2.09E+04	9.06E+03	2.34E+04	1.46E+04
3.	AL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4.	AM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.	AS+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.	B+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.	BA+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8.	BE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9.	BI+3	1.02E+02	2.35E+02	2.48E+02	2.43E+02	1.19E+02	1.85E+02	1.01E+02	2.20E+02	1.13E+02	7.81E+01
10.	CA+2	1.54E+02	1.02E+02	1.34E+02	2.15E+02	5.99E+01	2.67E+01	1.52E+02	8.37E+01	1.70E+02	1.08E+02
11.	CANCRINITE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12.	CD+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13.	CE+3	1.35E+00	2.66E+01	2.07E+01	2.64E+01	9.65E+00	1.50E+01	8.46E+00	2.36E+01	2.67E+01	4.89E+00
14.	CL-	5.47E+03	4.42E+03	5.52E+03	8.18E+03	3.01E+03	1.93E+03	5.41E+03	3.96E+03	6.05E+03	3.91E+03
15.	CM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16.	CO+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17.	CO3-2	1.59E+04	1.31E+04	1.78E+04	2.36E+04	8.65E+03	5.42E+03	1.91E+04	1.12E+04	2.00E+04	1.19E+04
18.	CR(OH)4-	4.89E+03	3.21E+03	4.23E+03	5.80E+03	1.88E+03	8.08E+02	4.84E+03	2.63E+03	5.42E+03	3.43E+03
19.	CR+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20.	CS+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21.	CS-137	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22.	CU+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23.	F-	5.30E+03	1.14E+04	1.21E+04	1.23E+04	6.03E+03	9.09E+03	5.25E+03	1.20E+04	5.87E+03	4.03E+03
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25.	FE+3	4.30E+02	4.09E+02	4.93E+02	6.71E+02	2.69E+02	2.04E+02	4.26E+02	3.61E+02	4.75E+02	3.10E+02
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28.	H2O	6.26E+06	5.48E+06	6.83E+06	9.52E+06	3.31E+06	2.52E+06	5.44E+06	4.97E+06	7.11E+06	4.50E+06
29.	HG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30.	I-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31.	K+	8.36E+02	5.47E+02	7.21E+02	1.16E+03	3.18E+02	1.35E+02	8.28E+02	4.45E+02	9.27E+02	5.85E+02
32.	LA+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33.	LI+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34.	MG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35.	MN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36.	MN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38.	MO+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39.	NA+	8.22E+05	7.00E+05	8.75E+05	1.24E+06	4.25E+05	3.11E+05	8.41E+05	5.30E+05	9.30E+05	5.90E+05
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41.	NI+3	9.61E+01	6.67E+01	8.66E+01	1.36E+02	4.01E+01	2.08E+01	9.52E+01	5.62E+01	1.06E+02	6.75E+01
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43.	ND2-	9.42E+04	6.14E+04	8.09E+04	1.30E+05	3.57E+04	1.51E+04	9.28E+04	5.06E+04	1.04E+05	6.57E+04
44.	NO3-	1.71E+06	1.21E+06	1.56E+06	2.44E+06	7.51E+05	3.95E+05	1.59E+06	1.03E+06	1.89E+06	1.21E+06
45.	NP+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46.	OH-	8.13E+04	1.38E+05	1.58E+05	1.67E+05	8.33E+04	1.07E+05	9.77E+04	1.42E+05	1.02E+05	6.42E+04
47.	P2O5:24WO2:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48.	PB+4	1.06E+02	6.91E+01	9.11E+01	1.47E+02	4.02E+01	1.70E+01	1.05E+02	5.82E+01	1.17E+02	7.40E+01
49.	PO4-3	1.99E+04	2.40E+04	2.89E+04	3.44E+04	1.38E+04	1.45E+04	2.27E+04	3.01E+04	2.42E+04	1.50E+04
50.	PU-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52.	RE+7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53.	RH+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54.	RU+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55.	SB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56.	SE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57.	SI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58.	SM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60.	SO4-2	3.05E+04	6.27E+04	5.87E+04	6.82E+04	3.65E+04	4.79E+04	3.46E+04	5.60E+04	3.70E+04	2.45E+04
61.	SR+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62.	TCO4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63.	TE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64.	TH+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65.	TI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66.	TL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67.	TOC	4.42E+03	7.48E+03	8.15E+03	1.04E+04	5.98E+03	8.28E+03	4.35E+03	9.46E+03	4.89E+03	3.28E+03
68.	UO2+2	6.54E+02	1.37E+03	2.32E+03	1.38E+03	9.47E+02	1.10E+03	2.55E+03	1.22E+03	2.06E+03	8.00E+02
69.	V+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70.	W+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71.	ZN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72.	ZR+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73.	ZRO2:2H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-01	0.00E+00	0.00E+00	1.19E+01	0.00E+00	0.00E+00
	Total	9.08E+06	7.73E+06	9.65E+06	1.37E+07	4.69E+06	3.43E+06	9.29E+06	6.96E+06	1.03E+07	6.52E+06
	Diluted Vol (ML)	7147.8	6087.0	7608.7	10782.6	3695.7	2704.3	7313.0	5478.3	8087.0	5130.4
74.	C14 (Ci)	2.49E+00	3.04E+01	2.41E+01	2.95E+01	1.08E+01	1.11E+01	9.43E+00	2.64E+01	3.01E+01	5.48E+00
75.	Sr90 (Ci)	4.89E+03	1.99E+03	1.67E+03	2.54E+03	1.09E+03	3.53E+02	7.01E+02	2.32E+03	2.34E+03	5.29E+02
76.	Y90 (Ci)	4.89E+03	1.99E+03	1.67E+03	2.54E+03	1.09E+03	3.53E+02	7.01E+02	2.32E+03	2.34E+03	5.29E+02
77.	Tc99 (Ci)	6.27E+00	1.36E+02	1.05E+02	1.35E+02	4.92E+01	5.95E+01	4.32E+01	1.21E+02	1.37E+02	2.51E+01
78.	Cs137 (Ci)	5.73E+03	1.22E+05	9.44E+04	1.21E+05	4.41E+04	5.71E+04	3.85E+04	1.08E+05	1.22E+05	2.24E+04
79.	Ba137 (Ci)	5.44E+03	1.15E+05	8.97E+04	1.15E+05	4.19E+04	5.42E+04	3.66E+04	1.02E+05	1.16E+05	2.13E+04
80.	U235 (Ci)	2.12E-01	1.80E+00	3.17E-01	1.02E-02	1.51E-01	2.43E-02	4.14E-03	2.30E-03	1.78E-02	1.34E-03
81.	U238 (Ci)	4.56E+00	4.24E+01	7.49E+00	2.31E-01	3.56E+00	5.71E-01	9.47E-02	5.40E-02	4.21E-01	3.14E-02
82.	Np237 (Ci)	7.27E-03	1.46E-01	1.14E-01	1.45E-01	5.30E-02	8.45E-02	4.53E-02	1.30E-01	1.47E-01	2.70E-02
83.	Pu238 (Ci)	3.64E-01	7.30E-01	2.12E-01	1.94E-01	1.25E-01	1.91E-01	2.75E-03	2.32E-01	2.20E-03	2.43E-03
84.	Pu239 (Ci)	1.47E+01	2.38E+00	1.41E+00	5.26E-01	5.23E-01	5.40E-01	1.19E-06	8.09E-01	3.68E-03	2.32E-06
85.	Pu240 (Ci)	3.82E+00	4.24E-01	2.70E-01	1.01E-01	9.95E-02	1.07E-01	1.91E-05	1.62E-01	9.15E-04	2.24E-05
86.	Pu241 (Ci)	3.28E+01	1.62E+00	9.39E-01	4.61E-01	4.29E-01	4.98E-01	5.24E-06	7.00E-01	3.14E-03	9.83E-06
87.	Am241 (Ci)	1.02E+01	1.38E+01	9.44E+00	7.48E+00	3.86E+00	5.62E+00	1.63E+00	7.89E+00	5.16E+00	9.44E-01
88.	Cm244 (Ci)	5.52E-04	1.11E-02	8.66E-03	1.10E-02	4.04E-03	6.35E-03	3.54E-03	9.89E-03	1.12E-02	2.06E-03

Revised Tank Inventory for Solid Phase Constituents (BY)

		Mass (kg)									
	Chemical	103BY	104BY	105BY	106BY	107BY	108BY	109BY	110BY	111BY	112BY
1.	AG+	1.79E-07	3.74E-06	2.91E-06	3.71E-06	1.36E-06	1.96E-06	1.19E-06	3.32E-06	3.75E-06	6.89E-07
2.	AL(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.	AL+3	5.35E+03	2.69E+01	4.02E+01	7.65E+01	1.19E+02	0.00E+00	6.01E+01	3.62E+03	6.73E+01	4.20E+01
4.	AM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.	AS+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.	B+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.	BA+2	2.75E+00	3.68E+00	3.35E+00	2.76E+00	1.87E+00	1.81E+00	1.25E+00	2.75E+00	2.32E+00	1.58E+00
8.	BE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9.	BI+3	1.03E+00	1.67E+04	1.58E+04	1.01E+04	7.92E+03	1.67E+04	1.02E+00	1.64E+04	1.14E+00	6.69E+02
10.	CA+2	2.04E+02	2.39E+03	2.36E+03	1.52E+03	1.76E+03	2.39E+03	2.36E+02	2.39E+03	1.95E+02	2.54E+02
11.	CANCRINITE	3.87E+04	9.11E+04	9.58E+04	9.37E+04	4.62E+04	5.66E+04	3.84E+04	8.66E+04	4.30E+04	2.98E+04
12.	CD+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13.	CE+3	1.34E+02	2.63E+03	2.04E+03	2.62E+03	9.55E+02	1.48E+03	8.37E+02	2.34E+03	2.64E+03	4.84E+02
14.	CL-	5.58E+01	8.11E+01	9.05E+01	1.09E+02	7.03E+01	6.44E+01	5.53E+01	8.47E+01	6.16E+01	4.35E+01
15.	CM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16.	CO+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17.	CO3-2	1.78E+02	4.21E+02	6.12E+02	4.14E+02	3.55E+02	3.46E+02	5.48E+02	4.02E+02	4.59E+02	2.10E+02
18.	CR(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19.	CR+3	2.46E+01	4.49E+01	5.16E+01	5.18E+01	3.97E+01	4.16E+01	2.98E+01	6.13E+01	2.99E+01	1.93E+01
20.	CS+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21.	CS-137	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22.	CU+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23.	F-	5.35E+01	4.52E+02	4.41E+02	3.34E+02	2.32E+02	4.42E+02	5.30E+01	5.10E+02	5.93E+01	5.42E+01
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25.	FE+3	6.05E+02	1.30E+04	1.26E+04	8.05E+03	1.07E+04	1.34E+04	5.89E+02	1.33E+04	4.27E+02	1.24E+03
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28.	H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29.	HG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30.	I-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31.	K+	8.44E+00	5.53E+00	7.29E+00	1.17E+01	3.22E+00	1.36E+00	8.36E+00	4.50E+00	9.38E+00	5.92E+00
32.	LA+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33.	LI+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34.	MG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35.	MN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36.	MN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38.	MO+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39.	NA+	3.37E+03	9.33E+03	1.02E+04	9.20E+03	6.10E+03	8.14E+03	4.43E+03	1.01E+04	4.50E+03	2.92E+03
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41.	NI+3	2.41E+02	4.75E+03	4.61E+03	3.68E+03	4.30E+03	6.38E+03	2.48E+02	6.21E+03	1.89E+02	3.68E+02
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43.	NO2-	9.51E+02	6.20E+02	8.17E+02	1.32E+03	3.61E+02	1.53E+02	9.38E+02	5.13E+02	1.05E+03	6.64E+02
44.	NO3-	1.73E+04	1.22E+04	1.58E+04	2.46E+04	7.58E+03	3.99E+03	1.71E+04	1.04E+04	1.91E+04	1.22E+04
45.	NP+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46.	OH-	8.20E+03	1.58E+04	1.58E+04	7.76E+03	1.34E+04	1.87E+04	1.18E+03	1.77E+04	4.77E+02	2.34E+02
47.	P2O5:24WO2:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48.	PB+4	1.07E+00	6.98E-01	9.20E-01	1.48E+00	4.06E-01	1.72E-01	1.06E+00	5.68E-01	1.18E+00	7.48E-01
49.	PO4-3	2.01E+02	1.65E+04	1.77E+04	1.04E+04	9.42E+03	1.70E+04	4.65E+03	2.94E+04	3.44E+03	1.66E+03
50.	PU-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52.	RE+7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53.	RH+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54.	RU+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55.	SB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56.	SE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57.	SI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58.	SM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60.	SO4-2	3.08E+02	1.07E+03	1.13E+03	9.56E+02	6.26E+02	9.27E+02	3.95E+02	9.77E+02	4.06E+02	2.79E+02
61.	SR+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62.	TCO4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63.	TE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64.	TH+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65.	TI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66.	TL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67.	TOC	4.47E+01	5.41E+02	5.23E+02	5.39E+02	5.00E+02	8.49E+02	4.40E+01	8.20E+02	4.94E+01	5.18E+01
68.	UO2+2	1.94E+03	1.91E+04	3.51E+04	1.16E+04	1.40E+04	1.92E+04	3.82E+04	1.77E+04	2.76E+04	7.85E+03
69.	V+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70.	W+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71.	ZN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72.	ZR+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73.	ZRO2:2H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E+01	0.00E+00	0.00E+00	1.18E+03	0.00E+00	0.00E+00
	Total	7.79E+04	2.07E+05	2.32E+05	1.87E+05	1.25E+05	1.67E+05	1.08E+05	2.21E+05	1.04E+05	5.91E+04
	Vol (ML) spg=3	26.0	68.9	77.2	62.3	41.6	55.7	36.0	73.6	34.6	19.7
74.	C14 (Ci)	2.52E-02	3.07E-01	2.44E-01	2.98E-01	1.09E-01	1.12E-01	9.53E-02	2.66E-01	3.04E-01	5.53E-02
75.	Sr90 (Ci)	4.84E+05	1.97E+05	1.65E+05	2.51E+05	1.08E+05	3.49E+04	6.94E+04	2.30E+05	2.32E+05	5.24E+04
76.	Y90 (Ci)	4.84E+05	1.97E+05	1.65E+05	2.51E+05	1.08E+05	3.49E+04	6.94E+04	2.30E+05	2.32E+05	5.24E+04
77.	Tc99 (Ci)	6.27E+00	1.36E+02	1.06E+02	1.35E+02	4.92E+01	5.95E+01	4.32E+01	1.21E+02	1.37E+02	2.51E+01
78.	Cs137 (Ci)	1.91E+03	4.05E+04	3.15E+04	4.02E+04	1.47E+04	1.90E+04	1.28E+04	3.60E+04	4.07E+04	7.46E+03
79.	Ba137 (Ci)	1.81E+03	3.85E+04	2.99E+04	3.82E+04	1.40E+04	1.81E+04	1.22E+04	3.42E+04	3.86E+04	7.09E+03
80.	U235 (Ci)	2.14E-03	2.43E-01	4.54E-01	5.14E-04	6.48E-02	1.41E-02	1.03E-02	4.02E-04	2.99E-02	9.13E-04
81.	U238 (Ci)	4.70E-02	5.74E+00	1.07E+01	1.16E-02	1.53E+00	3.32E-01	2.35E-01	9.43E-03	7.07E-01	2.14E-02
82.	Np237 (Ci)	6.55E-02	1.31E+00	1.02E+00	1.31E+00	4.77E-01	7.60E-01	4.17E-01	1.17E+00	1.32E+00	2.43E-01
83.	Pu238 (Ci)	1.79E+01	3.58E+01	1.04E+01	9.52E+00	6.12E+00	9.38E+00	1.35E-01	1.14E+01	1.08E-01	1.19E-01
84.	Pu239 (Ci)	7.22E+02	1.17E+02	6.90E+01	2.58E+01	2.56E+01	2.65E+01	5.85E-05	3.96E+01	1.80E-01	1.14E-04
85.	Pu240 (Ci)	1.87E+02	2.08E+01	1.32E+01	4.97E+00	4.88E+00	5.24E+00	9.35E-04	7.95E+00	4.48E-02	1.10E-03
86.	Pu241 (Ci)	1.61E+03	7.92E+01	4.60E+01	2.26E+01	2.10E+01	2.44E+01	2.57E-04	3.43E+01	1.54E-01	4.82E-04
87.	Am241 (Ci)	9.19E+01	1.24E+02	8.50E+01	6.73E+01	3.47E+01	5.06E+01	1.47E+01	7.10E+01	4.54E+01	8.50E+00
88.	Cm244 (Ci)	5.46E-02	1.10E+00	8.57E-01	1.09E+00	4.00E-01	6.28E-01	3.50E-01	9.79E-01	1.11E+00	2.04E-01

Revised Tank Inventory for Liquid Phase Constituents (C)

		Mass (kg)									
	Chemical	101C	102C	103C	104C	105C	106C	107C	108C	109C	110C
1.	AG+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.	AL(OH)4-	5.77E+03	6.97E+04	6.33E+03	3.43E+04	2.49E+04	0.00E+00	9.14E+03	7.59E+02	4.22E+02	7.88E+03
3.	AL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4.	AM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.	AS+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.	B+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.	BA+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8.	BE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9.	BI+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E+01	5.20E+00	2.89E+00	5.40E+01
10.	CA+2	1.15E+00	4.84E+00	7.00E-01	3.12E+00	1.30E+00	0.00E+00	1.10E+00	7.96E-01	1.65E+00	6.63E-01
11.	CANCRINITE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12.	CD+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13.	CE+3	1.66E-03	7.66E-17	2.06E-09	3.00E-15	7.16E-05	0.00E+00	1.71E-01	3.57E-03	5.61E-01	2.88E-09
14.	CL-	6.51E+02	1.08E+03	1.18E+02	1.45E+03	3.36E+02	0.00E+00	6.86E+02	5.64E+02	4.08E+02	3.33E+02
15.	CM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16.	CO+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17.	CO3-2	2.75E+03	8.38E+03	1.08E+03	6.94E+03	2.25E+03	0.00E+00	2.46E+03	1.96E+03	2.55E+03	1.02E+03
18.	CR(OH)4-	1.52E+01	7.75E+01	1.19E+01	4.24E+01	2.85E+01	0.00E+00	4.81E+01	1.11E+01	3.34E+00	3.66E+01
19.	CR+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20.	CS+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21.	CS-137	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22.	CU+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23.	F-	0.00E+00	1.97E+04	0.00E+00	4.04E+04	0.00E+00	0.00E+00	1.02E+04	7.51E+02	4.17E+02	7.79E+03
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25.	FE+3	8.94E+01	2.79E+02	3.74E+01	1.74E+02	7.48E+01	0.00E+00	7.45E+01	6.15E+01	2.31E+01	4.79E+01
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28.	H2O	8.31E+05	7.95E+06	9.76E+05	5.69E+06	2.41E+06	0.00E+00	1.96E+06	4.18E+05	5.04E+05	1.39E+06
29.	HG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30.	I-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31.	K+	0.00E+00	8.04E+01	0.00E+00	1.51E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E+01	0.00E+00
32.	LA+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33.	LI+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34.	MG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35.	MN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36.	MN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38.	MO+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39.	NA+	4.79E+04	1.49E+05	1.58E+04	1.11E+05	4.98E+04	0.00E+00	2.23E+05	5.07E+04	3.66E+04	1.56E+05
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41.	NI+3	1.79E+00	7.67E+00	1.11E+00	4.32E+00	2.00E+00	0.00E+00	1.13E+00	1.47E+00	7.08E+00	8.62E-01
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43.	NO2-	1.49E+03	1.86E+04	1.67E+03	1.22E+04	1.32E+04	0.00E+00	5.81E+03	5.21E+02	1.71E+03	4.39E+03
44.	NO3-	7.06E+04	1.84E+05	1.46E+04	1.16E+05	6.22E+04	0.00E+00	5.74E+04	5.82E+04	5.99E+04	4.06E+04
45.	NP+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46.	OH-	1.18E+04	1.94E+04	5.57E+03	6.66E+04	9.30E+03	0.00E+00	1.18E+05	1.67E+04	1.87E+04	5.90E+04
47.	P2O5:24WO2:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48.	PB+4	0.00E+00	0.00E+00	0.00E+00	2.70E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E+03	0.00E+00
49.	PO4-3	9.43E+02	1.25E+03	7.41E+01	6.22E+02	2.44E+02	0.00E+00	6.00E+04	5.20E+03	3.41E+03	4.57E+04
50.	PU-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52.	RE+7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53.	RH+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54.	RU+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55.	SB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56.	SE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57.	SI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58.	SM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60.	SO4-2	7.20E+03	4.69E+03	8.57E+01	9.48E+02	2.06E+03	0.00E+00	1.79E+03	6.11E+03	2.29E+02	1.09E+03
61.	SR+2	0.00E+00	0.00E+00	0.00E+00	1.04E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62.	TCO4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63.	TE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64.	TH+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65.	TI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66.	TL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67.	TOC	0.00E+00	4.54E+00	0.00E+00	1.77E+04	0.00E+00	0.00E+00	9.39E+03	4.09E+02	6.99E+03	0.00E+00
68.	UO2+2	8.45E+02	4.26E+03	4.30E+02	2.14E+03	1.16E+03	0.00E+00	5.75E+00	3.89E+02	6.78E+02	4.38E+00
69.	V+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70.	W+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71.	ZN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72.	ZR+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73.	ZRO2:2H2O	0.00E+00	9.85E+02	0.00E+00	2.04E+03	0.00E+00	0.00E+00	7.88E+01	5.78E+00	3.21E+00	6.00E+01
	Total	9.82E+05	8.44E+06	1.02E+06	6.15E+06	2.57E+06	0.00E+00	2.46E+06	5.60E+05	6.37E+05	1.72E+06
	Diluted Vol (ML)	870.0	8088.3	984.2	5769.9	2456.9	2456.9	1939.1	440.9	551.2	1356.5
74.	C14 (Ci)	3.90E+00	2.14E-04	8.53E+01	5.33E-06	9.15E+01	0.00E+00	6.26E-01	5.07E-02	3.46E-01	1.43E-11
75.	Sr90 (Ci)	4.90E+02	7.32E+03	2.84E+03	2.63E+03	2.00E+04	0.00E+00	5.96E+02	1.60E+02	4.89E-01	8.68E+01
76.	Y90 (Ci)	4.90E+02	7.32E+03	2.84E+03	2.63E+03	2.00E+04	0.00E+00	5.96E+02	1.60E+02	4.89E-01	8.68E+01
77.	Tc99 (Ci)	1.48E+01	9.96E-09	7.98E-09	2.57E-09	3.45E+02	0.00E+00	6.69E-01	4.57E-04	4.61E-01	8.68E-11
78.	Cs137 (Ci)	4.18E+04	3.32E-05	3.20E-05	1.03E-05	6.40E+04	0.00E+00	1.95E+03	1.04E+00	1.25E+03	2.92E-07
79.	Ba137 (Ci)	3.97E+04	3.15E-05	3.04E-05	9.78E-06	6.08E+04	0.00E+00	1.86E+03	9.92E-01	1.19E+03	2.78E-07
80.	U235 (Ci)	4.14E-03	3.29E-02	0.00E+00	0.00E+00	3.01E-02	0.00E+00	0.00E+00	3.14E-03	0.00E+00	0.00E+00
81.	U238 (Ci)	9.92E-02	7.64E-01	0.00E+00	0.00E+00	7.08E-01	0.00E+00	0.00E+00	7.44E-02	0.00E+00	0.00E+00
82.	Np237 (Ci)	2.33E-02	4.89E-04	6.32E-05	3.09E-04	5.08E-03	0.00E+00	8.86E-04	2.03E-05	7.29E-04	9.19E-06
83.	Pu238 (Ci)	4.16E-02	1.00E+00	1.72E-01	9.50E-01	1.00E+00	0.00E+00	8.08E-02	3.58E-02	2.77E-03	2.18E-01
84.	Pu239 (Ci)	1.94E+00	3.23E+01	4.76E+00	1.11E+01	2.43E+01	0.00E+00	3.98E+00	1.41E+00	1.60E-02	1.89E+00
85.	Pu240 (Ci)	5.07E-01	8.98E+00	1.32E+00	3.12E+00	6.14E+00	0.00E+00	1.05E+00	3.69E-01	1.35E-03	4.29E-01
86.	Pu241 (Ci)	3.50E+00	8.86E+01	1.19E+01	4.11E+01	4.07E+01	0.00E+00	7.32E+00	2.53E+00	1.50E-03	2.29E+00
87.	Am241 (Ci)	2.98E+00	6.55E+01	8.31E+00	5.11E+01	6.24E+02	0.00E+00	7.12E+00	2.08E+00	8.25E-03	1.28E+00
88.	Cm244 (Ci)	1.12E-04	9.20E-12	6.30E-13	1.01E-13	4.81E-01	0.00E+00	4.76E-05	1.02E-09	4.60E-06	5.00E-15

Revised Tank Inventory for Solid Phase Constituents (C)

		Mass (kg)										
	Chemical	101C	102C	103C	104C	105C	106C	107C	108C	109C	110C
1.	AG+	5.34E-07	3.45E-16	2.24E-16	1.43E-16	8.32E-06	0.00E+00	2.21E-08	1.85E-11	1.70E-08	3.28E-18
2.	AL(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.	AL+3	2.21E+04	2.28E+05	2.07E+04	1.10E+05	8.13E+04	0.00E+00	2.99E+04	2.48E+03	1.38E+03	2.57E+04
4.	AM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.	AS+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.	B+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.	BA+2	1.50E+01	3.46E-01	1.48E+01	1.10E+00	4.53E+01	0.00E+00	2.31E-01	4.60E-01	6.15E-01	7.57E-02
8.	BE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9.	BI+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E+03	5.15E+02	2.86E+02	5.35E+03
10.	CA+2	1.48E+03	6.15E+03	8.90E+02	3.97E+03	1.65E+03	0.00E+00	1.40E+03	1.01E+03	2.09E+03	8.42E+02
11.	CANCRINITE	1.86E+00	6.41E+02	3.27E+04	5.57E+04	1.46E+03	0.00E+00	6.50E+04	2.45E+03	1.36E+03	2.54E+04
12.	CD+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13.	CE+3	1.64E-01	8.00E-15	2.04E-07	2.50E-13	7.09E-03	0.00E+00	1.69E+01	3.53E-01	5.56E+01	2.85E-07
14.	CL-	3.42E+01	5.67E+01	6.23E+00	5.71E+01	1.77E+01	0.00E+00	3.61E+01	2.97E+01	2.15E+01	1.75E+01
15.	CM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16.	CO+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17.	CO3-2	3.05E+02	9.32E+02	1.20E+02	6.93E+02	2.50E+02	0.00E+00	2.74E+02	2.18E+02	2.83E+02	1.14E+02
18.	CR(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19.	CR+3	3.01E+01	1.53E+02	2.35E+01	8.35E+01	5.62E+01	0.00E+00	9.48E+01	2.19E+01	5.58E+00	7.22E+01
20.	CS+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21.	CS-137	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22.	CU+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23.	F-	0.00E+00	1.04E+03	0.00E+00	2.13E+03	0.00E+00	0.00E+00	5.38E+02	3.95E+01	2.20E+01	4.10E+02
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25.	FE+3	8.85E+03	2.76E+04	3.70E+03	1.72E+04	7.41E+03	0.00E+00	7.38E+03	6.09E+03	2.29E+03	4.74E+03
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28.	H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29.	HG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30.	I-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31.	K+	0.00E+00	5.14E+01	0.00E+00	9.67E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E+01	0.00E+00
32.	LA+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33.	LI+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34.	MG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35.	MN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36.	MN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38.	MO+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39.	NA+	2.00E+03	6.21E+03	6.61E+02	6.34E+03	2.07E+03	0.00E+00	9.31E+03	2.11E+03	1.53E+03	6.50E+03
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41.	NI+3	2.15E+03	9.22E+03	1.34E+03	5.18E+03	2.40E+03	0.00E+00	1.36E+03	1.77E+03	8.51E+03	1.04E+03
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43.	NO2-	1.51E+01	1.88E+02	1.68E+01	1.23E+02	1.33E+02	0.00E+00	5.87E+01	5.26E+00	1.73E+01	4.43E+01
44.	NO3-	7.13E+02	1.85E+03	1.47E+03	1.17E+03	6.28E+02	0.00E+00	5.80E+02	5.88E+02	8.05E+02	4.10E+02
45.	NP+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46.	OH-	5.39E+04	4.75E+05	4.49E+04	2.35E+05	1.66E+05	0.00E+00	2.39E+04	9.58E+03	1.57E+04	2.26E+04
47.	P2O5:24WO2:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48.	PB+4	0.00E+00	0.00E+00	0.00E+00	4.22E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E+04	0.00E+00
49.	PO4-3	1.42E+03	1.88E+03	1.11E+02	6.60E+02	3.65E+02	0.00E+00	9.01E+04	7.81E+03	5.12E+03	6.86E+04
50.	PU-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52.	RE+7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53.	RH+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54.	RU+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55.	SB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56.	SE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57.	SI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58.	SM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60.	SO4-2	1.47E+02	9.57E+01	1.75E+00	1.92E+01	4.20E+01	0.00E+00	3.66E+01	1.25E+02	4.68E+00	2.22E+01
61.	SR+2	0.00E+00	0.00E+00	0.00E+00	1.03E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62.	TCO4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63.	TE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64.	TH+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65.	TI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66.	TL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67.	TOC	0.00E+00	5.05E-01	0.00E+00	1.97E+03	0.00E+00	0.00E+00	1.04E+03	4.55E+01	7.77E+02	0.00E+00
68.	UO2+2	1.60E+04	8.10E+04	8.17E+03	4.07E+04	2.21E+04	0.00E+00	1.09E+02	7.39E+03	1.29E+04	8.33E+01
69.	V+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70.	W+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71.	ZN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72.	ZR+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73.	ZRO2:2H2O	0.00E+00	9.75E+04	0.00E+00	2.02E+05	0.00E+00	0.00E+00	7.80E+03	5.73E+02	3.18E+02	5.94E+03
	Total	1.09E+05	9.38E+05	1.14E+05	6.83E+05	2.86E+05	0.00E+00	2.46E+05	4.29E+04	7.08E+04	1.68E+05
	Vol (ML) spg=3	36.4	312.5	37.8	227.7	95.3	95.3	82.0	14.3	23.6	56.0
74.	C14 (Ci)	3.94E-02	2.16E-06	8.62E-01	5.39E-08	9.25E-01	0.00E+00	6.32E-03	5.12E-04	3.50E-03	1.45E-13
75.	Sr90 (Ci)	4.85E+04	7.24E+05	2.81E+05	2.60E+05	1.98E+06	0.00E+00	5.90E+04	1.58E+04	4.84E+01	8.59E+03
76.	Y90 (Ci)	4.85E+04	7.24E+05	2.81E+05	2.60E+05	1.98E+06	0.00E+00	5.90E+04	1.58E+04	4.84E+01	8.59E+03
77.	Tc99 (Ci)	1.48E+01	9.96E-09	7.98E-09	2.57E-09	3.45E+02	0.00E+00	6.69E-01	4.57E-04	4.61E-01	8.68E-11
78.	Cs137 (Ci)	1.39E+04	1.11E-05	1.07E-05	3.43E-06	2.13E+04	0.00E+00	6.51E+02	3.48E-01	4.18E+02	9.74E-08
79.	Ba137 (Ci)	1.32E+04	1.05E-05	1.01E-05	3.26E-06	2.03E+04	0.00E+00	6.18E+02	3.31E-01	3.97E+02	9.26E-08
80.	U235 (Ci)	7.86E-02	6.25E-11	3.36E-01	4.29E-01	5.71E-01	0.00E+00	1.50E-01	5.96E-02	1.04E-02	5.66E-03
81.	U238 (Ci)	1.88E+00	1.45E+01	7.19E+00	9.28E+00	1.34E+01	0.00E+00	3.58E+00	1.41E+00	2.36E-01	1.27E-01
82.	Np237 (Ci)	2.09E-01	4.40E-03	5.68E-04	2.78E-03	4.58E-02	0.00E+00	7.97E-03	1.83E-04	6.56E-03	8.27E-05
83.	Pu238 (Ci)	2.04E+00	4.90E+01	8.41E+00	4.66E+01	4.90E+01	0.00E+00	3.96E+00	1.75E+00	1.36E-01	1.07E+01
84.	Pu239 (Ci)	9.49E+01	1.58E+03	2.33E+02	5.44E+02	1.19E+03	0.00E+00	1.95E+02	6.93E+01	7.82E-01	9.27E+01
85.	Pu240 (Ci)	2.48E+01	4.40E+02	6.46E+01	1.53E+02	3.01E+02	0.00E+00	5.15E+01	1.81E+01	6.64E-02	2.10E+01
86.	Pu241 (Ci)	1.72E+02	4.34E+03	5.81E+02	2.01E+03	1.99E+03	0.00E+00	3.59E+02	1.24E+02	7.37E-02	1.12E+02
87.	Am241 (Ci)	2.68E+01	5.90E+02	7.48E+01	4.60E+02	5.62E+03	0.00E+00	6.41E+01	1.87E+01	7.43E-02	1.16E+01
88.	Cm244 (Ci)	1.11E-02	9.10E-10	6.24E-11	1.00E-11	4.77E+01	0.00E+00	4.72E-03	1.01E-07	4.56E-04	5.05E-13

Revised Tank Inventory for Liquid Phase Constituents (C,S)

		Mass (kg)									
	Chemical	111C	112C	201C	202C	203C	204C	101S	102S	103S	104S
1.	AG+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.	AL(OH)4-	4.30E+03	3.81E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E+04	6.65E+04	2.77E+04	4.68E+04
3.	AL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4.	AM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.	AS+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.	B+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.	BA+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8.	BE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9.	BI+3	1.04E+01	4.33E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E+01	1.16E+02	4.56E+01	0.00E+00
10.	CA+2	3.89E-01	2.75E+00	7.67E-03	3.84E-03	1.92E-02	1.15E-02	3.44E+01	7.02E+01	3.57E+01	1.99E+00
11.	CANCRINITE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12.	CD+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13.	CE+3	3.46E-01	1.57E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E+00	4.40E-08	6.58E-08	0.00E+00
14.	CL-	1.19E+02	6.07E+02	7.85E-01	3.92E-01	1.96E+00	1.18E+00	4.67E+03	1.02E+04	4.12E+03	1.54E+03
15.	CM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16.	CO+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17.	CO3-2	6.00E+02	4.26E+03	1.95E+02	9.76E+01	4.88E+02	2.93E+02	1.90E+04	4.01E+04	1.90E+04	3.07E+03
18.	CR(OH)4-	1.02E+01	6.43E+00	2.43E-01	1.22E-01	6.08E-01	3.65E-01	4.23E+03	3.25E+03	1.92E+03	5.79E+03
19.	CR+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20.	CS+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21.	CS-137	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22.	CU+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23.	F-	1.50E+03	6.24E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E+03	5.40E+03	2.12E+03	0.00E+00
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25.	FE+3	1.40E+01	3.27E+01	3.28E-01	1.64E-01	8.19E-01	4.91E-01	1.46E+02	9.26E+01	9.74E+01	1.12E+02
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28.	H2O	5.04E+05	8.47E+05	2.11E+04	1.06E+04	5.28E+04	2.12E+04	3.66E+06	7.99E+06	3.46E+06	4.58E+06
29.	HG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30.	I-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31.	K+	0.00E+00	7.48E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E+02	2.11E+03	8.66E+02	0.00E+00
32.	LA+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33.	LI+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34.	MG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35.	MN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36.	MN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E+01	1.40E+02	5.76E+01	0.00E+00
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38.	MO+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39.	NA+	3.82E+04	5.74E+04	1.57E+03	7.87E+02	3.94E+03	2.36E+03	4.71E+05	9.98E+05	4.34E+05	1.15E+05
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41.	NI+3	1.04E+00	1.11E+01	1.04E-02	5.20E-03	2.60E-02	1.56E-02	2.20E+01	4.10E+01	2.20E+01	2.88E+00
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43.	NO2-	3.14E+03	3.33E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E+04	2.18E+05	8.62E+04	0.00E+00
44.	NO3-	1.94E+04	9.41E+04	1.44E+02	7.22E+01	3.61E+02	2.17E+02	7.94E+05	1.38E+06	6.32E+05	2.70E+05
45.	NP+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46.	OH-	1.57E+04	2.85E+04	9.64E+02	4.82E+02	2.41E+03	1.35E+03	2.58E+05	8.29E+04	2.56E+05	1.04E+03
47.	P2O5:24WO2:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48.	PB+4	0.00E+00	4.78E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-01	3.17E-01	1.30E-01	0.00E+00
49.	PO4-3	8.91E+03	5.16E+03	1.65E+02	8.23E+01	4.12E+02	2.47E+02	7.06E+03	2.06E+04	8.16E+03	0.00E+00
50.	PU-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52.	RE+7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53.	RH+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54.	RU+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55.	SB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56.	SE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57.	SI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58.	SM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60.	SO4-2	2.27E+02	2.72E+02	2.46E+02	1.23E+02	6.16E+02	3.69E+02	6.88E+03	1.68E+04	7.25E+03	5.62E+02
61.	SR+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-01	0.00E+00	0.00E+00	4.30E-01
62.	TCO4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63.	TE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64.	TH+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65.	TI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66.	TL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67.	TOC	6.69E+02	1.00E+04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E+03	1.39E+04	5.43E+03	0.00E+00
68.	UO2+2	1.62E+02	1.23E+03	1.11E+02	5.57E+01	2.79E+02	1.47E-01	4.45E+02	1.61E+02	6.17E+01	1.09E+03
69.	Y+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70.	W+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71.	ZN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72.	ZR+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73.	ZRO2:2H2O	1.15E+01	4.81E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total	5.97E+05	1.06E+06	2.45E+04	1.23E+04	6.12E+04	2.51E+04	5.20E+06	1.10E+07	4.79E+06	5.02E+06
	Diluted Vol (ML)	507.5	920.3	20.8	10.4	51.9	20.5	4095.7	8678.3	3773.9	4753.0
74.	C14 (Ci)	1.28E-01	3.69E-01	9.51E-06	4.90E-04	4.59E-05	4.11E-07	8.34E+00	1.40E-08	3.01E-07	9.67E-01
75.	Sr90 (Ci)	6.36E+02	2.67E+02	4.36E-02	3.80E-16	4.56E+00	1.88E-03	4.16E+03	3.80E+02	2.11E-06	3.45E+03
76.	Y90 (Ci)	6.36E+02	2.67E+02	4.36E-02	3.80E-16	4.56E+00	1.88E-03	4.16E+03	3.80E+02	2.11E-06	3.45E+03
77.	Tc99 (Ci)	3.52E-01	2.91E-01	2.05E-04	5.95E-17	5.84E-10	8.84E-06	6.21E+01	8.52E-08	1.27E-07	3.20E+00
78.	Cs137 (Ci)	9.74E+02	8.42E+02	4.22E-01	1.00E-13	1.33E-06	1.82E-02	2.18E+04	8.88E-05	6.84E-05	7.75E+03
79.	Ba137 (Ci)	9.26E+02	8.00E+02	4.01E-01	9.50E-14	1.26E-06	1.73E-02	2.07E+04	8.44E-05	6.50E-05	7.36E+03
80.	U235 (Ci)	0.00E+00	0.00E+00	5.19E-06	5.09E-04	5.09E-05	1.93E-07	7.53E-02	1.42E-02	1.08E-03	4.22E-03
81.	U238 (Ci)	0.00E+00	0.00E+00	1.16E-04	1.14E-02	1.14E-03	4.28E-06	1.75E+00	3.32E-01	2.52E-02	9.92E-02
82.	Np237 (Ci)	5.85E-04	4.89E-04	2.60E-07	3.89E-08	3.87E-09	1.10E-08	1.58E-02	1.03E-05	3.40E-07	4.46E-03
83.	Pu238 (Ci)	5.73E-02	2.30E-02	6.42E-07	1.87E-06	2.80E-07	6.72E-10	2.64E-01	2.91E-02	4.64E-03	1.69E-01
84.	Pu239 (Ci)	1.04E+00	9.76E-01	3.23E-04	8.87E-04	8.87E-05	3.35E-07	3.04E+00	3.04E-01	3.40E-02	2.88E+00
85.	Pu240 (Ci)	2.46E-01	2.53E-01	2.82E-05	7.75E-05	7.75E-06	2.94E-08	6.84E-01	6.84E-02	7.60E-03	6.47E-01
86.	Pu241 (Ci)	1.32E+00	1.62E+00	3.24E-05	8.90E-05	8.90E-06	3.38E-08	3.10E+00	3.10E-01	3.44E-02	2.69E+00
87.	Am241 (Ci)	1.26E+00	1.40E+00	6.86E-04	1.91E-03	1.91E-04	5.47E-07	2.49E+01	6.86E-01	7.64E-02	6.35E+00
88.	Cm244 (Ci)	3.56E-06	4.41E-06	2.97E-12	8.52E-25	8.79E-18	1.28E-13	8.10E-03	7.17E-12	1.12E-11	8.21E-06

Revised Tank Inventory for Solid Phase Constituents (C,S)

		Mass (kg)									
	Chemical	111C	112C	201C	202C	203C	204C	101S	102S	103S	104S
1.	AG+	1.33E-08	9.92E-09	5.58E-12	1.12E-24	1.37E-17	2.41E-13	9.56E-07	2.00E-15	8.46E-16	1.26E-07
2.	AL(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.	AL+3	1.41E+04	1.25E+04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E+05	1.99E+03	7.94E+01	1.53E+05
4.	AM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.	AS+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.	B+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.	BA+2	5.84E-01	3.06E-01	8.80E-04	1.08E-02	1.04E-02	1.66E-06	3.16E+00	3.05E+00	3.91E+00	2.68E+00
8.	BE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9.	BI+3	1.03E+03	4.29E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-01	1.17E+00	4.60E-01	0.00E+00
10.	CA+2	4.94E+02	3.50E+03	9.75E+00	4.87E+00	2.44E+01	1.46E+01	1.35E+03	1.12E+02	1.42E+01	2.53E+03
11.	CANCRINITE	5.17E+03	2.04E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E+04	1.60E+04	5.72E+03	2.96E+04
12.	CD+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13.	CE+3	3.42E+01	1.55E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E+02	4.35E-08	5.51E-06	0.00E+00
14.	CL-	6.28E+00	3.20E+01	4.13E-02	2.06E-02	1.03E-01	6.19E-02	9.31E+01	1.04E+02	4.16E+01	8.10E+01
15.	CM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16.	CO+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17.	CO3-2	6.67E+01	4.73E+02	2.17E+01	1.08E+01	5.42E+01	0.00E+00	3.57E+02	4.15E+02	1.92E+02	3.41E+02
18.	CR(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19.	CR+3	2.02E+01	1.27E+01	4.79E-01	2.40E-01	1.20E+00	7.19E-01	4.92E+03	5.95E+02	8.40E+00	1.14E+04
20.	CS+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21.	CS-137	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22.	CU+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23.	F-	7.89E+01	3.29E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E+01	5.45E+01	2.14E+01	0.00E+00
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25.	FE+3	1.39E+03	3.24E+03	3.24E+01	1.62E+01	8.11E+01	4.86E+01	5.46E+03	2.10E+02	9.84E-01	1.11E+04
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28.	H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29.	HG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30.	I-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31.	K+	0.00E+00	4.78E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E+00	2.13E+01	8.75E+00	0.00E+00
32.	LA+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33.	LI+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34.	MG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35.	MN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36.	MN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.95E+02	2.75E+03	1.13E+03	0.00E+00
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38.	MO+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39.	NA+	1.59E+03	2.39E+03	6.56E+01	3.28E+01	1.64E+02	9.84E+01	5.06E+03	4.12E+03	1.74E+03	4.78E+03
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41.	NI+3	1.25E+03	1.33E+04	1.25E+01	6.24E+00	3.12E+01	1.87E+01	1.76E+03	1.22E+02	5.45E+00	3.46E+03
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43.	NO2-	3.18E+01	3.36E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E+02	2.20E+03	0.00E+00	6.88E+01
44.	NO3-	1.96E+02	9.51E+02	1.46E+00	7.29E-01	3.65E+00	0.00E+00	8.02E+03	1.39E+04	5.84E+03	2.89E+03
45.	NP+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46.	OH-	2.32E+04	3.79E+04	2.06E+02	1.03E+02	5.14E+02	0.00E+00	2.24E+05	2.74E+03	0.00E+00	3.18E+05
47.	P2D5:24WO2:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48.	PB+4	0.00E+00	7.49E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	3.20E-03	1.31E-03	0.00E+00
49.	PO4-3	1.34E+04	7.74E+03	2.47E+02	1.24E+02	6.18E+02	3.71E+02	7.13E+01	2.08E+02	8.24E+01	0.00E+00
50.	PU-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52.	RE+7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53.	RH+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54.	RU+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55.	SB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56.	SE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57.	SI+4	0.00E+00	0.00E+00	6.78E-02	3.39E-02	1.70E-01	1.02E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58.	SM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60.	SO4-2	4.63E+00	5.54E+00	5.03E+00	2.51E+00	1.26E+01	7.54E+00	7.38E+01	1.70E+02	7.32E+01	1.15E+01
61.	SR+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E+01	0.00E+00	0.00E+00	4.26E+01
62.	TCO4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63.	TE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64.	TH+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65.	TI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66.	TL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67.	TOC	7.43E+01	1.12E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E+01	1.40E+02	5.48E+01	0.00E+00
68.	UO2+2	3.08E+03	2.34E+04	2.12E+03	1.06E+03	5.29E+03	2.80E+00	7.43E+03	7.54E+02	6.24E-01	2.08E+04
69.	V+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70.	W+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71.	ZN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72.	ZR+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73.	ZRO2:2H2O	1.14E+03	4.76E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total	6.64E+04	1.17E+05	2.72E+03	1.36E+03	6.79E+03	5.63E+02	3.84E+05	4.66E+04	1.60E+04	5.58E+05
	Vol (ML) spg=3	22.1	39.1	0.9	0.5	2.3	0.2	128.1	15.5	5.3	186.0
74.	C14 (Ci)	1.30E-03	3.72E-03	9.61E-08	4.95E-06	4.63E-07	4.16E-09	8.43E-02	1.41E-10	3.04E-09	9.77E-03
75.	Sr90 (Ci)	6.30E+04	2.64E+04	4.32E+00	3.80E-14	4.51E+02	1.86E-01	4.12E+05	3.76E+04	2.09E-04	3.42E+05
76.	Y90 (Ci)	6.30E+04	2.64E+04	4.32E+00	3.80E-14	4.51E+02	1.86E-01	4.12E+05	3.76E+04	2.09E-04	3.42E+05
77.	Tc99 (Ci)	3.52E-01	2.91E-01	2.05E-04	5.95E-17	5.84E-10	8.84E-06	6.21E+01	8.52E-08	1.27E-07	3.20E+00
78.	Cs137 (Ci)	3.25E+02	2.81E+02	1.41E-01	3.30E-14	4.43E-07	6.07E-03	7.25E+03	2.96E-05	2.28E-05	2.58E+03
79.	Ba137 (Ci)	3.09E+02	2.67E+02	1.34E-01	3.20E-14	4.21E-07	5.77E-03	6.89E+03	2.81E-05	2.17E-05	2.45E+03
80.	U235 (Ci)	4.43E-02	6.58E-02	9.87E-05	9.67E-03	9.67E-04	3.66E-06	2.29E-02	1.59E-04	1.09E-05	8.01E-02
81.	U238 (Ci)	1.04E+00	1.56E+00	2.20E-03	2.16E-01	2.16E-02	8.13E-05	5.32E-01	3.70E-03	2.54E-04	1.88E+00
82.	Np237 (Ci)	5.26E-03	4.40E-03	2.34E-06	3.50E-07	3.48E-08	9.94E-08	1.42E-01	9.24E-05	3.06E-06	4.01E-02
83.	Pu238 (Ci)	2.81E+00	1.13E+00	3.15E-05	9.17E-05	1.37E-05	3.29E-08	1.29E+01	1.43E+00	2.28E-01	8.27E+00
84.	Pu239 (Ci)	5.07E+01	4.78E+01	1.58E-02	4.34E-02	4.34E-03	1.64E-05	1.49E+02	1.49E+01	1.65E+00	1.41E+02
85.	Pu240 (Ci)	1.21E+01	1.24E+01	1.38E-03	3.80E-03	3.80E-04	1.44E-06	3.35E+01	3.35E+00	3.73E-01	3.17E+01
86.	Pu241 (Ci)	6.46E+01	7.93E+01	1.59E-03	4.36E-03	4.36E-04	1.66E-06	1.52E+02	1.52E+01	1.69E+00	1.32E+02
87.	Am241 (Ci)	1.14E+01	1.26E+01	6.18E-03	1.72E-02	1.72E-03	4.92E-06	2.24E+02	6.18E+00	6.87E-01	5.71E+01
88.	Cm244 (Ci)	3.52E-04	4.37E-04	2.94E-10	8.44E-23	8.70E-16	1.27E-11	8.02E-01	7.10E-10	1.11E-09	8.13E-04

Revised Tank Inventory for Liquid Phase Constituents (S,SX)

	Chemical	Mass (kg)									
		106S	106S	107S	108S	109S	110S	111S	112S	101SX	102SX
1.	AG+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.	AL(OH)4-	5.41E+04	6.65E+04	4.37E+04	7.17E+04	6.82E+04	5.04E+04	6.58E+04	7.57E+04	6.65E+04	6.41E+04
3.	AL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4.	AM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.	AS+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.	B+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.	BA+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8.	BE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9.	BI+3	5.97E+01	7.84E+01	2.05E+01	9.19E+01	8.52E+01	4.25E+01	5.85E+01	9.68E+01	2.38E+01	7.87E+01
10.	CA+2	1.01E+02	1.21E+02	4.10E+01	1.32E+02	1.27E+02	5.22E+01	9.64E+01	1.39E+02	2.15E+01	1.13E+02
11.	CANCRINITE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12.	CD+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13.	CE+3	0.00E+00	1.50E-03	8.24E-09	7.27E+00	1.01E+01	9.95E-01	1.10E+00	6.88E+01	1.77E-09	2.70E-02
14.	CL-	7.14E+03	8.08E+03	3.18E+03	9.42E+03	8.73E+03	4.98E+03	7.39E+03	9.92E+03	4.04E+03	8.25E+03
15.	CM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16.	CO+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17.	CO3-2	4.88E+04	5.55E+04	9.84E+03	6.43E+04	5.98E+04	3.06E+04	4.85E+04	6.78E+04	1.29E+04	5.06E+04
18.	CR(OH)4-	4.46E+03	4.98E+03	4.56E+03	4.51E+03	5.41E+03	4.21E+03	4.73E+03	5.21E+03	5.50E+03	1.56E+04
19.	CR+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20.	CS+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21.	CS-137	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22.	CU+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23.	F-	3.24E+03	3.64E+03	4.80E+04	4.27E+03	3.95E+03	1.97E+03	3.18E+03	4.49E+03	1.11E+03	3.65E+03
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25.	FE+3	2.77E+02	7.22E+02	1.96E+02	1.97E+02	6.32E+02	1.98E+02	2.23E+02	2.79E+02	1.42E+02	7.51E+02
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28.	H2O	7.29E+06	8.26E+06	3.77E+06	9.60E+06	8.88E+06	4.72E+06	7.38E+06	1.02E+07	3.78E+06	7.86E+06
29.	HG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30.	I-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31.	K+	1.56E+03	1.76E+03	5.13E+02	2.06E+03	1.91E+03	9.53E+02	1.54E+03	2.17E+03	4.59E+02	1.70E+03
32.	LA+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33.	LI+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34.	MG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35.	MN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36.	MN+4	1.04E+02	1.17E+02	1.68E+01	1.37E+02	1.27E+02	6.34E+01	1.02E+02	1.44E+02	3.05E+01	1.13E+02
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38.	MO+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39.	NA+	9.27E+05	1.05E+06	4.40E+05	1.22E+06	1.13E+06	6.06E+05	9.41E+05	1.29E+06	3.57E+05	9.99E+05
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41.	NI+3	6.24E+01	8.75E+01	2.95E+01	7.81E+01	8.39E+01	3.88E+01	5.56E+01	8.42E+01	1.45E+01	8.55E+01
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43.	NO2-	1.37E+05	1.55E+05	4.18E+04	1.80E+05	1.67E+05	8.32E+04	1.37E+05	1.90E+05	4.52E+04	1.53E+05
44.	NO3-	1.54E+06	1.74E+06	8.00E+05	2.03E+06	1.88E+06	1.06E+06	1.59E+06	2.13E+06	7.17E+05	1.63E+06
45.	NP+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46.	OH-	1.84E+05	2.07E+05	3.52E+04	2.42E+05	2.25E+05	1.04E+05	1.78E+05	2.55E+05	3.25E+04	2.03E+05
47.	P2O5:24WO2:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48.	PB+4	2.35E-01	2.64E-01	3.80E-02	3.10E-01	2.87E-01	1.43E-01	2.31E-01	3.26E-01	6.90E-02	2.55E-01
49.	PO4-3	1.31E+04	1.47E+04	3.33E+03	1.73E+04	1.60E+04	7.97E+03	1.29E+04	1.82E+04	4.28E+03	1.46E+04
50.	PU-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52.	RE+7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53.	RH+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54.	RU+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55.	SB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56.	SE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57.	SI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58.	SM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60.	SO4-2	1.52E+04	1.71E+04	5.07E+03	2.00E+04	1.86E+04	9.49E+03	1.51E+04	2.11E+04	4.61E+03	1.61E+04
61.	SR+2	0.00E+00	2.62E-01	1.04E-01	0.00E+00	1.07E-01	0.00E+00	1.04E-01	2.46E-02	0.00E+00	0.00E+00
62.	TCO4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63.	TE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64.	TH+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65.	TI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66.	TL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67.	TOC	8.09E+03	9.07E+03	1.74E+03	1.07E+04	9.87E+03	4.74E+03	7.81E+03	1.12E+04	2.60E+03	9.31E+03
68.	UO2+2	1.16E+02	5.58E+02	3.53E+02	1.65E+02	3.11E+02	1.49E+02	2.86E+02	2.08E+02	2.67E+02	4.67E+02
69.	V+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70.	W+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71.	ZN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72.	ZR+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73.	ZRO2:2H2O	0.00E+00	0.00E+00	2.35E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total	1.02E+07	1.16E+07	5.21E+06	1.35E+07	1.25E+07	6.69E+06	1.04E+07	1.42E+07	5.03E+06	1.10E+07
	Diluted Vol (ML)	8060.9	9130.4	4178.2	10608.7	9826.1	5269.6	8182.6	11217.4	4193.8	8687.0
74.	C14 (Ci)	2.62E+00	5.28E+00	2.10E-08	1.14E+01	5.35E+01	3.73E+01	3.48E+01	2.28E+02	1.13E-09	4.52E-02
75.	Sr90 (Ci)	3.42E+02	9.04E+01	4.70E+03	5.28E+02	6.04E+02	4.12E+03	5.18E+03	1.02E+04	5.18E+03	1.46E+04
76.	Y90 (Ci)	3.42E+02	9.04E+01	4.70E+03	5.28E+02	6.04E+02	4.12E+03	5.18E+03	1.02E+04	5.18E+03	1.46E+04
77.	Tc99 (Ci)	9.16E+00	1.78E+01	1.27E-07	5.19E+01	1.80E+02	1.19E+02	1.11E+02	7.77E+02	3.43E-09	3.57E-01
78.	Cs137 (Ci)	2.13E+04	4.20E+04	3.39E-05	5.68E+04	3.20E+05	3.57E+05	3.29E+05	1.11E+06	3.60E-06	9.86E+01
79.	Ba137 (Ci)	2.03E+04	3.99E+04	3.22E-05	5.40E+04	3.04E+05	3.39E+05	3.13E+05	1.06E+06	3.42E-06	9.37E+01
80.	U235 (Ci)	5.44E-03	6.06E-04	5.20E-01	1.11E-02	1.24E-03	3.42E-02	4.80E-03	6.61E-04	4.87E-02	7.49E-03
81.	U238 (Ci)	1.29E-01	1.43E-02	1.05E+01	2.32E-01	2.58E-02	8.11E-01	1.12E-01	1.54E-02	1.12E+00	1.73E-01
82.	Np237 (Ci)	1.26E-02	2.44E-02	2.46E-04	2.65E-02	1.46E-01	3.38E-02	3.32E-02	4.44E-01	1.37E-04	1.00E-04
83.	Pu238 (Ci)	4.95E-03	1.74E-03	9.15E-01	5.68E-02	7.59E-03	4.23E-02	5.79E-03	3.15E-03	6.69E-01	7.30E-02
84.	Pu239 (Ci)	2.11E-01	2.35E-02	1.77E+01	4.36E-01	4.83E-02	1.47E+00	1.47E-01	1.63E-02	3.11E+00	3.09E-01
85.	Pu240 (Ci)	4.93E-02	5.48E-03	4.14E+00	1.01E-01	1.12E-02	3.44E-01	3.44E-02	3.94E-03	6.41E-01	6.37E-02
86.	Pu241 (Ci)	1.94E-01	2.16E-02	3.01E+01	6.90E-01	7.67E-02	1.37E+00	1.37E-01	1.52E-02	3.01E+00	3.01E-01
87.	Am241 (Ci)	5.78E-01	9.49E-02	2.39E+01	9.80E+00	1.27E+01	3.82E+00	8.98E-01	6.60E+01	9.13E+00	1.02E+00
88.	Cm244 (Ci)	1.52E-05	7.01E-05	1.10E-11	4.08E-03	5.33E-03	1.58E-03	1.56E-03	3.64E-02	2.90E-13	4.76E-05

Revised Tank Inventory for Solid Phase Constituents (S,SX)

		Mass (kg)									
	Chemical	105S	106S	107S	108S	109S	110S	111S	112S	101SX	102SX
1.	AG+	3.73E-07	7.16E-07	3.00E-15	1.23E-06	5.86E-06	3.38E-06	3.17E-06	2.34E-05	8.88E-17	5.32E-09
2.	AL(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.	AL+3	1.16E+03	2.19E+04	9.90E+04	2.46E+03	9.05E+03	5.72E+04	4.11E+04	3.49E+03	1.69E+05	2.87E+04
4.	AM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.	AS+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.	B+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.	BA+2	2.06E+00	2.10E+00	1.11E+00	2.01E+00	5.03E+00	4.63E+00	4.53E+00	1.20E+01	4.22E+00	3.72E+00
8.	BE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9.	BI+3	7.04E-01	7.92E-01	2.07E-01	9.28E-01	8.60E-01	4.29E-01	5.92E-01	9.77E-01	2.41E-01	7.95E-01
10.	CA+2	5.28E+01	2.73E+02	1.35E+03	1.58E+02	1.38E+02	7.38E+02	5.68E+02	1.66E+02	2.11E+03	4.62E+02
11.	CANCRINITE	1.31E+04	1.47E+04	1.19E+04	1.73E+04	1.60E+04	9.21E+03	1.51E+04	1.82E+04	7.25E+03	4.37E+04
12.	CD+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13.	CE+3	0.00E+00	1.48E-01	8.16E-07	7.20E+02	1.00E+03	9.85E+01	1.09E+02	6.81E+03	1.75E-07	2.67E+00
14.	CL-	7.26E+01	8.36E+01	7.44E+01	9.71E+01	8.90E+01	7.73E+01	9.18E+01	1.02E+02	1.20E+02	9.75E+01
15.	CM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16.	CO+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17.	CO3-2	4.94E+02	5.87E+02	2.60E+02	6.63E+02	5.15E+02	3.96E+02	5.70E+02	6.98E+02	3.88E+02	5.58E+02
18.	CR(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19.	CR+3	7.24E+01	3.40E+01	4.77E+03	7.64E+02	2.85E+01	3.00E+03	1.99E+03	5.31E+02	8.80E+03	4.59E+03
20.	CS+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21.	CS-137	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22.	CU+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23.	F-	3.27E+01	3.68E+01	1.62E+03	4.31E+01	3.99E+01	1.99E+01	3.21E+01	4.54E+01	1.12E+01	3.69E+01
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25.	FE+3	5.51E+01	1.75E+03	6.52E+03	3.03E+02	5.86E+02	2.95E+03	2.08E+03	3.90E+02	8.68E+03	3.98E+03
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28.	H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29.	HG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30.	I-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31.	K+	1.58E+01	1.78E+01	5.18E+00	2.08E+01	1.93E+01	9.63E+00	1.55E+01	2.19E+01	4.54E+00	1.72E+01
32.	LA+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33.	LI+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34.	MG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35.	MN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36.	MN+4	2.05E+03	2.30E+03	3.31E+02	2.70E+03	2.50E+03	1.25E+03	2.01E+03	2.84E+03	6.01E+02	2.23E+03
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38.	MO+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39.	NA+	3.75E+03	4.90E+03	5.09E+03	5.05E+03	4.84E+03	4.03E+03	4.86E+03	5.28E+03	5.12E+03	4.55E+03
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41.	NI+3	3.19E+01	3.79E+02	1.98E+03	1.63E+02	1.49E+02	9.39E+02	8.18E+02	1.79E+02	2.74E+03	6.84E+02
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43.	NO2-	1.38E+03	1.57E+03	4.22E+02	1.82E+03	1.69E+03	8.41E+02	1.38E+03	1.92E+03	4.57E+02	1.54E+03
44.	NO3-	1.55E+04	1.76E+04	8.08E+03	2.05E+04	1.90E+04	1.07E+04	1.60E+04	2.16E+04	7.24E+03	1.65E+04
45.	NP+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46.	OH-	0.00E+00	4.20E+04	2.00E+05	3.10E+03	1.58E+04	1.14E+05	8.10E+04	7.00E+03	3.41E+05	6.13E+04
47.	P2O5:24WO2:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48.	PB+4	2.37E-03	2.67E-03	3.84E-04	3.13E-03	2.90E-03	1.45E-03	2.33E-03	3.30E-03	6.97E-04	2.58E-03
49.	PO4-3	1.32E+02	1.49E+02	3.37E+01	1.74E+02	1.61E+02	8.05E+01	1.30E+02	1.83E+02	4.33E+01	1.47E+02
50.	PU-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52.	RE+7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53.	RH+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54.	RU+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55.	SB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56.	SE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57.	SI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58.	SM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60.	SO4-2	1.54E+02	1.73E+02	5.50E+01	2.02E+02	1.87E+02	9.84E+01	1.54E+02	2.13E+02	5.40E+01	1.64E+02
61.	SR+2	0.00E+00	2.60E+01	1.03E+01	0.00E+00	1.05E+01	0.00E+00	1.03E+01	2.43E+00	0.00E+00	0.00E+00
62.	TCO4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63.	TE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64.	TH+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65.	TI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66.	TL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67.	TOC	8.17E+01	9.16E+01	1.75E+01	1.08E+02	9.97E+01	4.78E+01	7.89E+01	1.13E+02	2.63E+01	9.40E+01
68.	UO2+2	2.80E+01	7.56E+03	4.51E+03	9.03E+02	2.85E+03	1.51E+03	3.74E+03	1.30E+03	4.45E+03	2.24E+03
69.	V+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70.	W+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71.	ZN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72.	ZR+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73.	ZRO2:2H2O	0.00E+00	0.00E+00	2.33E+05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total	3.82E+04	1.16E+05	5.79E+05	5.73E+04	7.49E+04	2.07E+05	1.72E+05	7.11E+04	5.59E+05	1.72E+05
	Vol (ML) spg=3	12.7	38.7	193.0	19.1	25.0	69.1	57.3	23.7	186.4	57.3
74.	C14 (Ci)	2.64E-02	5.33E-02	2.12E-10	1.15E-01	5.41E-01	3.77E-01	3.52E-01	2.30E+00	1.14E-11	4.57E-04
75.	Sr90 (Ci)	3.39E+04	8.95E+03	4.65E+05	5.23E+04	5.98E+04	4.08E+05	5.13E+05	1.01E+06	5.13E+05	1.45E+06
76.	Y90 (Ci)	3.39E+04	8.95E+03	4.65E+05	5.23E+04	5.98E+04	4.08E+05	5.13E+05	1.01E+06	5.13E+05	1.45E+06
77.	Tc99 (Ci)	9.16E+00	1.78E+01	1.27E-07	5.19E+01	1.80E+02	1.19E+02	1.11E+02	7.77E+02	3.43E-09	3.57E-01
78.	Cs137 (Ci)	7.11E+03	1.40E+04	1.13E-05	1.89E+04	1.07E+05	1.19E+05	1.10E+05	3.70E+05	1.20E-06	3.29E+01
79.	Ba137 (Ci)	6.76E+03	1.33E+04	1.07E-05	1.80E+04	1.01E+05	1.13E+05	1.04E+05	3.52E+05	1.14E-06	3.12E+01
80.	U235 (Ci)	5.77E-05	6.12E-06	8.13E-02	1.30E-04	1.25E-05	1.90E-03	1.30E-04	7.26E-06	1.25E-02	1.73E-04
81.	U238 (Ci)	1.37E-03	1.45E-04	1.64E+00	2.71E-03	2.61E-04	4.51E-02	3.04E-03	1.69E-04	2.85E-01	3.99E-03
82.	Np237 (Ci)	1.13E-01	2.20E-01	2.22E-03	2.39E-01	1.31E+00	3.04E-01	2.99E-01	3.99E+00	1.24E-03	9.01E-04
83.	Pu238 (Ci)	2.43E-01	8.51E-02	4.48E+01	2.78E+00	3.72E-01	2.07E+00	2.84E-01	1.54E-01	3.28E+01	3.58E+00
84.	Pu239 (Ci)	1.03E+01	1.15E+00	8.68E+02	2.14E+01	2.37E+00	7.19E+01	7.19E+00	7.98E-01	1.53E+02	1.51E+01
85.	Pu240 (Ci)	2.42E+00	2.69E-01	2.03E+02	4.97E+00	5.51E-01	1.68E+01	1.68E+00	1.93E-01	3.14E+01	3.12E+00
86.	Pu241 (Ci)	9.51E+00	1.06E+00	1.48E+03	3.38E+01	3.76E+00	6.71E+01	6.71E+00	7.47E-01	1.48E+02	1.48E+01
87.	Am241 (Ci)	5.20E+00	8.54E-01	2.15E+02	8.82E+01	1.15E+02	3.44E+01	8.08E+00	5.94E+02	8.22E+01	9.19E+00
88.	Cm244 (Ci)	1.51E-03	6.94E-03	1.09E-09	4.04E-01	5.27E-01	1.57E-01	1.55E-01	3.60E+00	2.87E-11	4.72E-03

Revised Tank Inventory for Liquid Phase Constituents (SX)

		Mass (kg)									
	Chemical	103SX	104SX	105SX	106SX	107SX	108SX	109SX	110SX	111SX	112SX
1.	AG+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.	AL(OH)4-	8.14E+04	7.90E+04	8.11E+04	5.80E+04	1.49E+04	1.66E+04	1.83E+04	3.84E+03	1.19E+04	1.06E+04
3.	AL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4.	AM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.	AS+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.	B+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.	BA+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8.	BE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9.	BI+3	8.27E+01	6.82E+01	9.57E+01	1.10E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10.	CA+2	1.21E+02	9.98E+01	1.42E+02	4.87E+01	8.37E-01	8.91E-01	8.54E+01	1.34E+01	1.79E+01	7.99E+00
11.	CANCRINITE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12.	CD+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13.	CE+3	4.67E+01	9.65E+00	1.60E+01	2.95E+01	0.00E+00	0.00E+00	0.00E+00	3.29E-08	0.00E+00	0.00E+00
14.	CL-	9.09E+03	7.92E+03	1.02E+04	9.29E+03	6.69E+02	7.31E+02	1.09E+03	3.73E+02	7.31E+02	5.50E+02
15.	CM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16.	CO+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17.	CO3-2	5.87E+04	4.90E+04	6.66E+04	3.00E+04	1.29E+03	1.38E+03	5.95E+03	1.81E+03	2.74E+03	1.84E+03
18.	CR(OH)4-	6.76E+03	6.60E+03	8.16E+03	3.11E+03	3.92E+03	4.06E+03	8.66E+03	4.40E+03	5.30E+03	3.93E+03
19.	CR+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20.	CS+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21.	CS-137	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22.	CU+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23.	F-	3.84E+03	3.17E+03	4.44E+03	5.11E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25.	FE+3	3.57E+02	3.14E+02	4.11E+02	8.75E+01	5.11E+01	5.40E+01	1.69E+02	6.19E+01	9.29E+01	5.73E+01
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28.	H2O	8.92E+06	7.56E+06	1.03E+07	6.74E+06	1.69E+06	1.83E+06	4.30E+06	9.45E+05	1.40E+06	1.02E+06
29.	HG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30.	I-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31.	K+	1.86E+03	1.53E+03	2.10E+03	1.90E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32.	LA+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33.	LI+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34.	MG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35.	MN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36.	MN+4	1.23E+02	1.02E+02	1.40E+02	1.26E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38.	MO+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39.	NA+	1.14E+06	9.69E+05	1.31E+06	8.38E+05	4.33E+04	4.74E+04	5.87E+05	1.29E+05	1.91E+05	1.02E+05
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41.	NI+3	7.48E+01	6.22E+01	8.78E+01	2.94E+01	1.21E+00	1.28E+00	4.15E+01	7.35E+00	1.01E+01	4.89E+00
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43.	NO2-	1.62E+05	1.34E+05	1.87E+05	2.04E+05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
44.	NO3-	1.95E+06	1.69E+06	2.22E+06	1.08E+06	1.02E+05	1.12E+05	1.56E+06	3.40E+05	4.99E+05	2.63E+05
45.	NP+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46.	OH-	2.10E+05	1.68E+05	2.46E+05	2.33E+05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
47.	P2O5:24WO2:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48.	PB+4	2.79E-01	2.30E-01	3.16E-01	2.86E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49.	PO4-3	1.55E+04	1.28E+04	1.78E+04	1.92E+04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
50.	PU-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52.	RE+7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53.	RH+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54.	RU+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55.	SB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56.	SE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57.	SI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58.	SM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60.	SO4-2	1.83E+04	1.52E+04	2.12E+04	1.42E+04	2.39E+02	2.62E+02	3.82E+02	1.15E+02	2.44E+02	1.90E+02
61.	SR+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62.	TCO4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63.	TE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64.	TH+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65.	TI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66.	TL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67.	TOC	9.38E+03	7.62E+03	1.09E+04	1.32E+04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
68.	UO2+2	2.15E+02	2.31E+02	3.53E+02	1.37E+02	3.82E+02	3.89E+02	7.00E+02	4.87E+02	6.63E+02	4.00E+02
69.	V+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70.	W+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71.	ZN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72.	ZR+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73.	ZRO2:2H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total	1.26E+07	1.07E+07	1.45E+07	9.25E+06	1.98E+06	2.02E+06	6.48E+06	1.42E+05	2.11E+06	1.40E+06
	Diluted Vol (ML)	9913.0	8426.1	11391.3	7287.0	1753.6	1905.0	5104.3	1121.7	1660.9	1159.9
74.	C14 (Ci)	1.10E+02	1.23E+01	2.68E+01	4.04E+00	3.36E-07	6.71E-07	3.36E-07	2.58E-07	1.00E-14	7.28E-02
75.	Sr90 (Ci)	5.04E+03	5.19E+02	2.65E+03	1.16E+03	1.29E+04	8.03E+03	2.42E+03	5.28E+03	7.39E+03	8.54E+03
76.	Y90 (Ci)	5.04E+03	5.19E+02	2.65E+03	1.16E+03	1.29E+04	8.03E+03	2.42E+03	5.28E+03	7.39E+03	8.54E+03
77.	Tc99 (Ci)	6.75E+02	9.43E+01	2.12E+02	7.98E+01	1.02E-06	2.04E-06	1.02E-06	6.37E-08	3.00E-14	2.31E-01
78.	Cs137 (Ci)	4.15E+05	2.83E+04	5.85E+04	5.71E+04	1.65E-03	3.18E-03	3.39E-03	6.12E-05	1.12E-10	6.89E+02
79.	Ba137 (Ci)	3.94E+05	2.69E+04	5.55E+04	5.42E+04	1.57E-03	3.02E-03	3.22E-03	5.82E-05	1.07E-10	6.54E+02
80.	U235 (Ci)	2.34E-03	4.82E-02	4.21E-03	9.06E-03	4.01E-03	4.42E-03	5.44E-02	7.30E-02	7.84E-02	3.56E-02
81.	U238 (Ci)	5.44E-02	1.10E+00	9.63E-02	2.11E-01	8.24E-02	8.84E-02	1.08E+00	1.30E+00	1.51E+00	7.13E-01
82.	Np237 (Ci)	1.96E-01	2.37E-02	5.14E-02	5.49E-02	2.87E-04	3.17E-04	1.14E-04	2.74E-04	5.32E-04	2.33E-04
83.	Pu238 (Ci)	1.65E-02	6.53E-01	6.65E-02	3.09E-04	3.79E-01	3.12E-01	3.08E-01	1.11E-01	5.80E-01	3.45E-01
84.	Pu239 (Ci)	3.44E-02	3.07E+00	2.59E-01	4.08E-06	4.29E+00	4.64E+00	2.83E+00	4.39E+00	5.61E+00	3.21E+00
85.	Pu240 (Ci)	7.29E-03	5.91E-01	5.21E-02	1.35E-05	1.00E+00	1.06E+00	6.03E-01	1.11E+00	1.39E+00	7.47E-01
86.	Pu241 (Ci)	3.34E-02	2.79E+00	2.49E-01	1.27E-05	6.56E+00	7.02E+00	3.72E+00	9.69E+00	1.40E+01	4.71E+00
87.	Am241 (Ci)	1.77E+02	3.60E+01	6.29E+01	2.70E+01	2.96E+01	3.19E+01	1.31E+01	4.57E+01	5.88E+01	1.84E+01
88.	Cm244 (Ci)	8.02E-02	1.24E-02	2.83E-02	5.49E-03	7.02E-12	2.65E-11	7.29E-12	4.66E-12	5.21E-19	2.22E-06

Revised Tank Inventory for Solid Phase Constituents (SX)

		Mass (kg)										
	Chemical	103SX	104SX	105SX	106SX	107SX	108SX	109SX	110SX	111SX	112SX	
1.	AG+	1.14E-05	1.41E-06	3.16E-06	6.61E-07	2.20E-14	4.80E-14	2.70E-14	2.00E-15	6.30E-22	6.80E-09	
2.	AL(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3.	AL+3	5.67E+04	8.55E+04	2.70E+04	6.16E+02	4.85E+04	5.41E+04	3.70E+04	8.70E+03	3.19E+04	3.10E+04	
4.	AM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
5.	AS+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
6.	B+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
7.	BA+2	1.90E+01	4.33E+00	3.71E+00	2.35E-01	6.19E+00	6.04E+00	4.82E+00	1.32E+01	9.34E+00	4.28E+00	
8.	BE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
9.	BI+3	8.36E-01	6.89E-01	9.67E-01	1.11E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
10.	CA+2	7.56E+02	1.11E+03	5.85E+02	4.05E+01	1.06E+03	1.13E+03	1.31E+03	9.48E+02	1.53E+03	1.04E+03	
11.	CANCRINITE	1.67E+04	1.46E+04	3.04E+04	1.40E+04	2.50E+04	2.51E+04	4.59E+04	3.49E+04	4.57E+04	2.69E+04	
12.	CD+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
13.	CE+3	4.63E+03	9.55E+02	1.58E+03	2.93E+03	0.00E+00	0.00E+00	0.00E+00	3.25E-06	0.00E+00	0.00E+00	
14.	CL-	1.19E+02	1.20E+02	1.17E+02	9.42E+01	3.52E+01	3.85E+01	1.85E+01	1.02E+01	2.35E+01	2.09E+01	
15.	CM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
16.	CO+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
17.	CO3-2	6.80E+02	6.26E+02	7.37E+02	3.05E+02	1.43E+02	1.53E+02	1.56E+02	1.16E+02	1.90E+02	1.31E+02	
18.	CR(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
19.	CR+3	2.99E+03	4.49E+03	3.70E+03	1.97E+02	7.72E+03	8.01E+03	8.59E+03	7.41E+03	1.07E+04	6.97E+03	
20.	CS+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
21.	CS-137	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
22.	CU+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
23.	F-	3.88E+01	3.20E+01	4.49E+01	5.16E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
25.	FE+3	2.93E+03	4.41E+03	2.49E+03	7.40E+01	5.06E+03	5.35E+03	4.27E+03	3.64E+03	5.79E+03	4.10E+03	
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
28.	H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
29.	HG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
30.	I-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
31.	K+	1.88E+01	1.55E+01	2.12E+01	1.92E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
32.	LA+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
33.	LI+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
34.	MG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
35.	MN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
36.	MN+4	2.43E+03	2.00E+03	2.75E+03	2.49E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
38.	MO+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
39.	NA+	6.16E+03	6.27E+03	6.19E+03	3.39E+03	1.80E+03	1.97E+03	2.42E+03	1.76E+03	3.14E+03	2.16E+03	
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
41.	NI+3	9.41E+02	1.40E+03	7.39E+02	3.66E+01	1.45E+03	1.54E+03	1.66E+03	1.10E+03	1.78E+03	1.24E+03	
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
43.	NO2-	1.64E+03	1.35E+03	1.89E+03	2.07E+03	0.00E+00	0.00E+00	5.68E+01	1.17E+01	1.60E+01	7.43E+00	
44.	NO3-	1.97E+04	1.71E+04	2.24E+04	1.09E+04	1.11E+03	1.23E+03	1.84E+04	3.84E+03	5.71E+03	3.02E+03	
45.	NP+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
46.	OH-	1.14E+05	1.71E+05	5.58E+04	9.87E+02	1.07E+05	1.18E+05	8.12E+04	2.22E+04	7.87E+04	7.18E+04	
47.	P2O5:24WO2:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
48.	PB+4	2.82E-03	2.32E-03	3.19E-03	2.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
49.	PO4-3	1.57E+02	1.29E+02	1.80E+02	1.94E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
50.	PU-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
52.	RE+7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
53.	RH+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
54.	RU+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
55.	SB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
56.	SE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
57.	SI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
58.	SM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
60.	SO4-2	1.87E+02	1.57E+02	2.15E+02	1.44E+02	4.87E+00	5.35E+00	3.46E+00	1.25E+00	2.77E+00	2.32E+00	
61.	SR+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
62.	TCO4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
63.	TE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
64.	TH+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
65.	TI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
66.	TL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
67.	TOC	9.47E+01	7.69E+01	1.10E+02	1.33E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
68.	UO2+2	1.50E+03	2.26E+03	3.35E+03	2.18E+02	7.25E+03	7.40E+03	7.25E+03	8.41E+03	1.15E+04	7.09E+03	
69.	V+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
70.	W+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
71.	ZN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
72.	ZR+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
73.	ZRO2:2H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
	Total	2.32E+05	3.14E+05	1.60E+05	3.89E+04	2.06E+05	2.24E+05	2.08E+05	1.00E+05	1.98E+05	1.55E+05	
	Vol (ML) spg=3	77.5	104.5	53.4	13.0	68.7	74.7	69.4	33.4	65.9	51.8	
74.	C14 (Ci)	1.11E+00	1.24E-01	2.71E-01	4.08E-02	3.39E-09	6.77E-09	3.39E-09	2.61E-09	1.01E-16	7.36E-04	
75.	Sr90 (Ci)	4.99E+05	5.13E+04	2.62E+05	1.15E+05	1.28E+06	7.95E+05	2.39E+05	5.23E+05	7.32E+05	8.45E+05	
76.	Y90 (Ci)	4.99E+05	5.13E+04	2.62E+05	1.15E+05	1.28E+06	7.95E+05	2.39E+05	5.23E+05	7.32E+05	8.45E+05	
77.	Tc99 (Ci)	6.75E+02	9.43E+01	2.12E+02	7.98E+01	1.02E-06	2.04E-06	1.02E-06	6.37E-08	3.00E-14	2.31E-01	
78.	Cs137 (Ci)	1.38E+05	9.43E+03	1.95E+04	1.90E+04	5.50E-04	1.06E-03	1.13E-03	2.04E-05	3.74E-11	2.30E+02	
79.	Ba137 (Ci)	1.31E+05	8.96E+03	1.85E+04	1.81E+04	5.22E-04	1.01E-03	1.07E-03	1.94E-05	3.56E-11	2.18E+02	
80.	U235 (Ci)	7.80E-05	2.53E-03	8.99E-05	9.40E-05	7.62E-02	8.40E-02	1.12E-04	2.06E-02	3.32E-02	2.55E-02	
81.	U238 (Ci)	1.81E-03	5.78E-02	2.06E-03	2.19E-03	1.57E+00	1.68E+00	2.23E-03	3.67E-01	6.37E-01	5.11E-01	
82.	Np237 (Ci)	1.76E+00	2.13E-01	4.63E-01	4.94E-01	2.59E-03	2.85E-03	1.03E-03	2.46E-03	4.79E-03	2.09E-03	
83.	Pu238 (Ci)	8.06E-01	3.20E+01	3.26E+00	1.51E-02	1.86E+01	1.53E+01	1.51E+01	5.46E+00	2.84E+01	1.69E+01	
84.	Pu239 (Ci)	1.69E+00	1.50E+02	1.27E+01	2.00E-04	2.10E+02	2.28E+02	1.39E+02	2.15E+02	2.75E+02	1.57E+02	
85.	Pu240 (Ci)	3.57E-01	2.89E+01	2.55E+00	6.64E-04	4.92E+01	5.19E+01	2.95E+01	5.42E+01	6.82E+01	3.66E+01	
86.	Pu241 (Ci)	1.64E+00	1.37E+02	1.22E+01	6.21E-04	3.21E+02	3.44E+02	1.82E+02	4.75E+02	6.86E+02	2.31E+02	
87.	Am241 (Ci)	1.60E+03	3.24E+02	5.66E+02	2.43E+02	2.67E+02	2.87E+02	1.18E+02	4.11E+02	5.29E+02	1.65E+02	
88.	Cm244 (Ci)	7.94E+00	1.23E+00	2.80E+00	5.43E-01	6.95E-10	2.62E-09	7.22E-10	4.62E-10	5.15E-17	2.19E-04	

Revised Tank Inventory for Liquid Phase Constituents (SX,T)

		Mass (kg)									
	Chemical	113SX	114SX	115SX	101T	102T	103T	104T	105T	106T	107T
1.	AG+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.	AL(OH)4-	3.12E+02	7.05E+03	7.16E+02	6.98E+03	3.37E+03	3.71E+03	1.52E+04	1.89E+01	2.11K+03	5.52E+03
3.	AL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4.	AM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.	AS+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.	B+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.	BA+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8.	BE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9.	BI+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-03	1.01E+02	3.25E+01	1.61E+00	3.78E+01
10.	CA+2	9.97E-03	7.11E+01	4.77E+00	4.47E-01	2.19E-01	1.74E+00	1.34E+00	5.01E-01	8.60E-02	4.64E-01
11.	CANCRINITE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12.	CD+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13.	CE+3	0.00E+00	0.00E+00	0.00E+00	8.02E+00	1.36E-01	2.76E-03	1.17E+02	1.05E-16	4.51E-01	5.42E-17
14.	CL-	1.13E+01	7.86E+02	7.15E+01	7.24E+01	2.62E+01	9.45E+01	8.63E+02	3.11E+02	3.59E+01	2.33E+02
15.	CM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16.	CO+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17.	CO3-2	1.54E+01	5.44E+03	3.62E+02	8.74E+02	5.20E+02	5.46E+02	2.06E+03	7.73E+02	1.33E+02	7.16E+02
18.	CR(OH)4-	2.69E+01	8.96E+03	1.42E+03	5.62E+00	3.32E+00	1.00E+02	9.62E+01	2.03E+01	4.14E+00	2.57E+01
19.	CR+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20.	CS+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21.	CS-137	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22.	CU+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23.	F-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E+01	1.64E+04	4.50E+03	3.22E+02	5.46E+03
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25.	FE+3	5.29E-01	1.60E+02	2.80E+01	2.40E+01	1.17E+01	1.58E+01	8.90E+01	3.75E+01	4.46E+00	3.36E+01
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28.	H2O	2.70E+04	3.81E+06	1.88E+05	7.51E+05	3.62E+05	3.14E+05	2.86E+06	5.35E+05	2.21E+05	9.70E+05
29.	HG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30.	I-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31.	K+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32.	LA+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33.	LI+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34.	MG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35.	MN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36.	MN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38.	MO+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39.	NA+	7.49E+02	5.20E+05	2.57E+04	9.89E+03	5.14E+03	1.58E+04	3.23E+05	7.27E+04	1.00E+04	1.09E+05
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41.	NI+3	1.37E-02	3.58E+01	3.65E+00	7.14E-01	3.50E-01	1.29E+00	1.65E+00	7.06E-01	1.20E-01	6.04E-01
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43.	NO2-	0.00E+00	0.00E+00	0.00E+00	1.54E+03	7.42E+02	1.83E+03	1.15E+04	7.52E+02	2.02E+03	3.08E+03
44.	NO3-	1.75E+03	1.39E+06	6.78E+04	1.43E+04	5.55E+03	3.37E+04	1.09E+05	4.24E+04	6.49E+03	2.84E+04
45.	NP+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46.	OH-	0.00E+00	0.00E+00	0.00E+00	1.30E+03	1.17E+03	7.83E+02	1.37E+05	2.73E+04	3.68E+03	4.84E+04
47.	P2O5:24WO2:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48.	PB+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49.	PO4-3	0.00E+00	0.00E+00	0.00E+00	1.65E+02	1.64E+02	1.58E+02	9.01E+04	1.85E+04	1.59E+03	3.21E+04
50.	PU-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52.	RE+7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53.	RH+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54.	RU+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55.	SB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56.	SE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57.	SI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58.	SM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60.	SO4-2	4.35E+00	2.54E+02	2.20E+01	2.62E+02	2.52E+02	3.09E+02	2.86E+03	5.63E+02	7.57E+01	7.62E+02
61.	SR+2	0.00E+00	0.00E+00	0.00E+00	2.87E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-02	0.00E+00
62.	TCO4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63.	TE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64.	TH+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65.	TI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66.	TL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67.	TOC	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
68.	UO2+2	1.41E+00	8.80E+02	7.85E+01	5.93E+02	3.02E+02	2.54E+02	2.42E+01	2.54E+00	9.85E+01	3.07E+00
69.	V+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70.	W+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71.	ZN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72.	ZR+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73.	ZRO2:2H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-01	1.86E+02	8.80E+00	3.39E+00	6.51E+01
	Total	2.99E+04	5.74E+06	2.84E+05	7.87E+05	3.79E+05	3.72E+05	3.57E+06	8.03E+05	2.48E+05	1.20E+06
	Diluted Vol (ML)	28.2	4521.7	223.5	763.9	366.9	334.4	2808.7	632.2	223.8	947.8
74.	C14 (Ci)	1.19E+01	1.00E-14	2.32E+01	1.34E+01	2.27E-01	1.27E+00	3.02E-02	3.35E-17	1.87E-02	6.10E-04
75.	Sr90 (Ci)	2.25E+03	7.75E+03	5.55E+03	1.80E+01	3.06E-01	1.51E+02	2.86E+02	3.48E+01	1.78E+00	2.52E+02
76.	Y90 (Ci)	2.25E+03	7.75E+03	5.55E+03	1.80E+01	3.06E-01	1.51E+02	2.86E+02	3.48E+01	1.78E+00	2.52E+02
77.	Tc99 (Ci)	3.82E+01	3.00E-14	7.44E+01	2.39E+01	4.05E-01	2.24E+00	1.08E+00	1.02E-16	5.62E-02	5.26E-17
78.	Cs137 (Ci)	1.03E+05	1.08E-10	2.09E+05	6.19E+03	1.05E+02	5.03E+02	2.62E+03	1.88E-13	1.48E+02	1.89E-13
79.	Ba137 (Ci)	9.78E+04	1.02E-10	1.98E+05	5.88E+03	9.96E+01	4.78E+02	2.49E+03	1.78E-13	1.41E+02	1.80E-13
80.	U235 (Ci)	8.23E-04	1.23E-01	2.93E-02	1.04E-04	1.16E-05	4.19E-05	2.01E-03	5.22E-03	2.72E-03	6.94E-04
81.	U238 (Ci)	1.93E-02	2.48E+00	5.97E-01	2.39E-03	2.66E-04	9.56E-04	4.64E-02	1.19E-01	6.28E-02	1.56E-02
82.	Np237 (Ci)	5.46E-02	3.48E-04	2.91E-02	8.86E-03	1.50E-04	7.39E-04	1.56E-03	1.46E-05	7.66E-05	1.88E-06
83.	Pu238 (Ci)	1.51E-02	2.34E-01	4.79E-02	3.33E-04	5.10E-06	1.50E-03	3.50E-02	4.25E-01	4.77E-02	1.65E-03
84.	Pu239 (Ci)	1.02E+00	7.10E+00	1.82E+00	8.58E-07	1.66E-08	1.76E-03	2.12E+00	2.76E+00	3.07E-01	7.38E-01
85.	Pu240 (Ci)	2.10E-01	1.70E+00	4.43E-01	1.34E-05	3.59E-07	2.53E-04	3.94E-01	4.66E-01	5.18E-02	5.94E-02
86.	Pu241 (Ci)	9.37E-01	1.16E+01	2.79E+00	2.14E-06	2.23E-08	9.93E-04	1.46E+00	1.95E+00	2.16E-01	6.23E-02
87.	Am241 (Ci)	2.49E+00	4.90E+01	1.01E+01	5.88E+00	1.00E-01	5.62E-01	1.33E+00	1.38E+00	1.54E-01	1.19E-01
88.	Cm244 (Ci)	9.33E-05	2.44E-19	5.93E-04	3.19E-03	5.41E-05	3.04E-04	8.79E-06	8.71E-22	4.25E-07	4.32E-22

Revised Tank Inventory for Solid Phase Constituents (SX,T)

		Mass (kg)									
	Chemical	113SX	114SX	115SX	101T	102T	103T	104T	105T	106T	107T
1.	AG+	1.31E-06	6.97E-22	2.48E-06	6.56E-07	1.11E-08	6.16E-08	4.13E-08	2.10E-24	1.84E-09	1.78E-24
2.	AL(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.	AL+3	1.02E+03	1.02E+04	1.65E+03	2.28E+04	1.10E+04	1.10E+04	4.98E+04	6.17E+01	6.91E+03	1.80E+04
4.	AM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.	AS+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.	B+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.	BA+2	4.34E+00	1.16E+01	8.25E+00	4.50E-01	2.36E-03	9.27E-02	1.77E-01	1.52E-01	6.12E-01	3.71E-01
8.	BE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9.	BI+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-01	9.97E+03	3.22E+03	1.59E+02	3.75E+03
10.	CA+2	1.27E+01	1.51E+03	9.89E+01	5.68E+02	2.78E+02	2.75E+02	1.70E+03	6.37E+02	1.09E+02	5.90E+02
11.	CANCRINITE	2.22E+01	5.11E+04	6.62E+03	3.72E+00	3.70E+00	1.32E+02	4.89E+04	1.95E+04	1.73E+03	1.78E+04
12.	CD+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13.	CE+3	0.00E+00	0.00E+00	0.00E+00	7.94E+02	1.35E+01	2.74E+01	1.15E+04	1.00E-14	4.46E+01	5.00E-15
14.	CL-	5.93E-01	1.38E+01	1.61E+03	3.81E+00	1.38E+00	2.06E+00	4.54E+01	1.64E+01	1.89E+00	1.23E+01
15.	CM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16.	CO+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17.	CO3-2	1.71E+00	1.90E+02	1.25E+01	9.71E+01	5.78E+01	4.84E+01	2.29E+02	0.00E+00	1.47E+01	7.96E+01
18.	CR(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19.	CR+3	5.31E+01	1.09E+04	1.15E+03	1.31E+01	6.55E+00	6.77E+00	1.90E+02	4.00E+01	8.16E+00	5.06E+01
20.	CS+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21.	CS-137	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22.	CU+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23.	F-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E+00	8.64E+02	2.37E+02	1.70E+01	2.87E+02
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25.	FE+3	5.24E+01	4.59E+03	6.67E+02	2.37E+03	1.16E+03	1.15E+03	8.82E+03	3.71E+03	4.42E+02	3.32E+03
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28.	H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29.	HG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30.	I-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31.	K+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32.	LA+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33.	LI+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34.	MG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35.	MN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36.	MN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38.	MO+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39.	NA+	3.12E+01	3.93E+03	2.39E+02	4.12E+02	2.14E+02	2.28E+02	1.35E+04	3.03E+03	4.37E+02	4.56E+03
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41.	NI+3	1.65E+01	1.67E+03	1.55E+02	8.58E+02	4.20E+02	4.16E+02	1.98E+03	8.48E+02	1.44E+02	7.26E+02
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43.	NO2-	0.00E+00	5.20E+01	2.35E+00	1.55E+01	7.50E+00	1.85E+01	1.16E+02	0.00E+00	2.04E+01	3.11E+01
44.	NO3-	2.27E+01	1.62E+04	7.65E+02	1.44E+02	5.60E+01	3.41E+02	1.11E+03	0.00E+00	6.56E+01	2.87E+02
45.	NP+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46.	OH-	2.08E+03	3.53E+04	5.00E+03	4.78E+04	2.29E+04	2.28E+04	4.68E+04	0.00E+00	1.29E+04	1.58E+04
47.	P2O5:24WO2:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48.	PB+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49.	PO4-3	0.00E+00	0.00E+00	0.00E+00	2.48E+02	2.46E+02	1.24E+02	1.35E+05	2.78E+04	2.39E+03	4.81E+04
50.	PU-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52.	RE+7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53.	RH+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54.	RU+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55.	SB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56.	SE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57.	SI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58.	SM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60.	SO4-2	8.88E-02	2.63E+00	2.35E-01	5.34E+00	5.15E+00	4.47E+00	5.83E+01	1.15E+01	1.55E+00	1.56E+01
61.	SR+2	0.00E+00	0.00E+00	0.00E+00	2.84E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E+00	0.00E+00
62.	TCO4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63.	TE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64.	TH+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65.	TI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66.	TL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67.	TOC	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
68.	UO2+2	2.69E+01	1.22E+04	5.30E+02	1.13E+04	5.74E+03	4.71E+03	4.50E+02	4.83E+01	1.87E+03	5.84E+01
69.	V+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70.	W+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71.	ZN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72.	ZR+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73.	ZRO2:2H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E+01	1.84E+04	8.71E+02	3.35E+02	5.45E+03
	Total	3.32E+03	1.58E+05	1.69E+04	8.75E+04	4.21E+04	4.13E+04	3.49E+05	6.01E+04	2.76E+04	1.20E+05
	Vol (ML) sp.g=3	1.1	52.6	5.6	29.2	14.0	13.8	116.5	20.0	9.2	40.0
74.	C14 (Ci)	1.21E-01	1.01E-16	2.35E-01	1.35E-01	2.29E-03	1.29E-02	3.05E-04	3.38E-19	1.89E-04	6.19E-06
75.	Sr90 (Ci)	2.23E+05	7.67E+05	5.50E+05	1.78E+03	3.03E+01	1.50E+04	2.83E+04	3.44E+03	1.76E+02	2.49E+04
76.	Y90 (Ci)	2.23E+05	7.67E+05	5.50E+05	1.78E+03	3.03E+01	1.50E+04	2.83E+04	3.44E+03	1.76E+02	2.49E+04
77.	Tc99 (Ci)	3.82E+01	3.00E-14	7.44E+01	2.39E+01	4.05E-01	2.24E+00	1.08E+00	1.02E-16	5.62E-02	5.26E-17
78.	Cs137 (Ci)	3.43E+04	3.60E-11	6.95E+04	2.06E+03	3.49E+01	1.68E+02	8.74E+02	6.30E-14	4.93E+01	6.30E-14
79.	Ba137 (Ci)	3.26E+04	3.42E-11	6.60E+04	1.96E+03	3.32E+01	1.59E+02	8.30E+02	5.90E-14	4.69E+01	6.00E-14
80.	U235 (Ci)	1.56E-02	1.16E-02	4.83E-03	1.98E-03	2.20E-04	7.96E-04	3.82E-02	9.92E-02	5.18E-02	1.32E-02
81.	U238 (Ci)	3.67E-01	2.34E-01	9.84E-02	4.54E-02	5.05E-03	1.82E-02	8.81E-01	2.26E+00	1.19E+00	2.96E-01
82.	Np237 (Ci)	4.91E-01	3.13E-03	2.62E-01	7.97E-02	1.35E-03	6.65E-03	1.40E-02	1.31E-04	6.90E-04	1.70E-05
83.	Pu238 (Ci)	7.40E-01	1.15E+01	2.35E+00	1.63E-02	2.50E-04	7.37E-02	1.71E+00	2.08E+01	2.34E+00	8.10E-02
84.	Pu239 (Ci)	4.99E+01	3.48E+02	8.91E+01	4.21E-05	8.16E-07	8.62E-02	1.04E+02	1.35E+02	1.50E+01	3.62E+01
85.	Pu240 (Ci)	1.03E+01	8.31E+01	2.17E+01	6.55E-04	1.76E-05	1.24E-02	1.93E+01	2.29E+01	2.54E+00	2.91E+00
86.	Pu241 (Ci)	4.59E+01	5.67E+02	1.37E+02	1.05E-04	1.09E-06	4.87E-02	7.17E+01	9.56E+01	1.06E+01	3.05E+00
87.	Am241 (Ci)	2.24E+01	4.41E+02	9.05E+01	5.29E+01	9.01E-01	5.06E+00	1.19E+01	1.24E+01	1.38E+00	1.07E+00
88.	Cm244 (Ci)	9.23E-03	2.41E-17	5.87E-02	3.16E-01	5.35E-03	3.01E-02	8.70E-04	8.62E-20	4.21E-05	4.28E-20

Revised Tank Inventory for Liquid Phase Constituents (T,TX)

		Mass (kg)									
	Chemical	108T	109T	110T	111T	112T	201T	202T	203T	204T	101TX
1.	AG+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.	AL(OH)4-	8.69E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E+04
3.	AL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4.	AM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.	AS+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.	B+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.	BA+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8.	BE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9.	BI+3	5.06E+01	1.13E+02	1.51E+02	2.12E+02	3.06E+01	1.06E+01	7.99E+00	1.33E+01	1.44E+01	9.25E-01
10.	CA+2	9.75E+00	2.45E+01	2.42E+00	4.27E+00	6.56E-01	2.73E-01	2.05E-01	3.41E-01	3.70E-01	2.82E+00
11.	CANCRINITE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12.	CD+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13.	CE+3	1.24E-01	6.83E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E-09
14.	CL-	2.57E+02	5.56E+02	1.34E+03	1.62E+03	2.10E+02	1.12E+02	8.45E+01	1.40E+02	1.52E+02	5.50E+02
15.	CM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16.	CO+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17.	CO3-2	8.61E+02	1.89E+03	3.74E+03	6.58E+03	1.01E+03	4.21E+02	3.17E+02	5.26E+02	5.71E+02	1.11E+03
18.	CR(OH)4-	4.91E+01	1.14E+02	7.75E+01	1.43E+02	2.31E+01	6.18E+00	4.64E+00	7.71E+00	8.37E+00	1.09E+03
19.	CR+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20.	CS+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21.	CS-137	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22.	CU+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23.	F-	2.94E+03	5.23E+03	2.10E+04	2.24E+04	8.74E+02	8.71E+03	8.55E+03	1.09E+04	1.18E+04	4.29E+01
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25.	FE+3	3.18E+01	6.68E+01	1.84E+02	3.17E+02	4.98E+01	1.40E+01	1.06E+01	1.75E+01	1.90E+01	2.64E+01
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28.	H2O	4.82E+05	8.30E+05	2.67E+06	2.03E+06	1.64E+05	1.81E+05	1.36E+05	2.26E+05	2.45E+05	9.31E+05
29.	HG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30.	I-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31.	K+	0.00E+00	0.00E+00	8.56E+01	3.07E+02	0.00E+00	2.39E+02	1.80E+02	2.99E+02	3.24E+02	0.00E+00
32.	LA+3	0.00E+00	0.00E+00	5.84E-01	2.10E+00	0.00E+00	1.63E+00	1.23E+00	2.04E+00	2.21E+00	0.00E+00
33.	LI+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34.	MG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35.	MN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36.	MN+4	0.00E+00	0.00E+00	1.14E-02	4.10E-02	0.00E+00	3.19E-02	2.40E-02	3.98E-02	4.32E-02	0.00E+00
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38.	MO+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39.	NA+	5.65E+04	9.93E+04	3.07E+05	2.40E+05	2.02E+04	2.15E+04	1.62E+04	2.69E+04	2.92E+04	4.82E+04
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41.	NI+3	6.06E+00	1.51E+01	3.55E+00	6.59E+00	1.03E+00	4.21E-01	3.16E-01	5.25E-01	5.70E-01	2.02E+00
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43.	NO2-	1.36E+03	2.20E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
44.	NO3-	4.16E+04	9.42E+04	1.99E+05	2.36E+05	2.89E+04	2.12E+04	1.60E+04	2.65E+04	2.88E+04	1.18E+05
45.	NP+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46.	OH-	1.59E+04	2.10E+04	1.13E+05	6.63E+04	3.86E+03	3.03E+03	2.28E+03	3.78E+03	4.11E+03	0.00E+00
47.	P2O5:24WO2:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48.	PB+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49.	PO4-3	1.98E+04	3.71E+04	7.07E+04	4.44E+04	3.32E+03	7.72E+02	5.80E+02	9.64E+02	1.05E+03	3.88E+02
50.	PU-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52.	RE+7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53.	RH+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54.	RU+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55.	SB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56.	SE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57.	SI+4	0.00E+00	1.11E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58.	SM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60.	SO4-2	2.16E+03	5.16E+03	1.91E+03	2.07E+03	2.82E+02	1.29E+01	9.69E+00	1.61E+01	1.75E+01	8.10E+02
61.	SR+2	0.00E+00	0.00E+00	1.11E+01	3.99E+01	0.00E+00	3.11E+01	2.34E+01	3.88E+01	4.21E+01	0.00E+00
62.	TCO4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63.	TE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64.	TH+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65.	TI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66.	TL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67.	TOC	0.00E+00	0.00E+00	2.52E+02	8.87E+02	0.00E+00	7.64E+02	5.75E+02	9.54E+02	1.04E+03	3.21E+01
68.	UO2+2	2.64E+00	5.43E+00	1.17E+00	1.24E+00	1.68E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E+02
69.	V+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70.	W+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71.	ZN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72.	ZR+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73.	ZRO2:2H2O	1.04E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total	6.24E+05	1.10E+06	3.39E+06	2.65E+06	2.23E+05	2.37E+05	1.79E+05	2.97E+05	3.22E+05	1.11E+06
	Diluted Vol (ML)	491.3	863.5	2669.6	2087.0	175.7	187.0	140.9	233.9	253.9	999.9
74.	C14 (Ci)	2.49E-02	2.23E-02	3.20E-13	0.00E+00	6.62E-38	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E+00
75.	Sr90 (Ci)	2.53E+01	5.09E-01	2.59E+01	2.20E+01	3.26E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E+01
76.	Y90 (Ci)	2.53E+01	5.09E-01	2.59E+01	2.20E+01	3.26E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E+01
77.	Tc99 (Ci)	9.98E-02	6.21E-01	3.12E-11	0.00E+00	1.61E-36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-08
78.	Cs137 (Ci)	3.06E+02	1.29E+03	5.75E-08	0.00E+00	2.32E-32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
79.	Ba137 (Ci)	2.91E+02	1.22E+03	5.47E-08	0.00E+00	2.20E-32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
80.	U235 (Ci)	2.83E-04	8.84E-05	5.14E-04	1.33E-03	4.45E-03	0.00E+00	3.98E-10	3.98E-09	0.00E+00	9.92E-11
81.	U238 (Ci)	6.36E-03	1.98E-03	1.16E-02	3.07E-02	1.05E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-09
82.	Np237 (Ci)	2.44E-04	8.11E-04	5.61E-06	1.05E-05	1.96E-05	0.00E+00	3.09E-08	3.09E-07	0.00E+00	6.10E-10
83.	Pu238 (Ci)	1.46E-04	2.95E-05	7.52E-03	1.24E-02	1.84E-01	0.00E+00	3.75E-05	3.75E-04	0.00E+00	6.35E-06
84.	Pu239 (Ci)	7.38E-02	8.18E-03	2.81E+00	1.88E+00	3.11E+00	0.00E+00	4.46E-03	4.46E-02	0.00E+00	4.69E-07
85.	Pu240 (Ci)	5.94E-03	6.59E-04	3.06E-01	3.78E-01	6.81E-01	0.00E+00	1.07E-03	1.07E-02	0.00E+00	8.77E-06
86.	Pu241 (Ci)	6.23E-03	6.94E-04	5.14E-01	1.26E+00	2.93E+00	0.00E+00	4.01E-03	4.01E-02	0.00E+00	1.73E-06
87.	Am241 (Ci)	1.20E-02	1.34E-03	4.52E-01	9.39E-01	1.92E+00	0.00E+00	2.85E-03	2.85E-02	0.00E+00	6.29E-05
88.	Cm244 (Ci)	7.28E-07	1.09E-07	4.16E-18	0.00E+00	6.89E-36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-12

Revised Tank Inventory for Solid Phase Constituents (T,TX)

	Chemical	Mass (kg)									
		108T	109T	110T	111T	112T	201T	202T	203T	204T	101TX
1.	AG+	2.51E-09	1.81E-08	1.63E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-16
2.	AL(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.	AL+3	2.69E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E+04
4.	AM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.	AS+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.	B+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.	BA+2	3.46E-01	3.32E-01	2.47E-04	0.00E+00	7.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E+00
8.	BE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9.	BI+3	6.00E+02	1.14E+00	1.49E+04	2.10E+04	3.03E+03	1.05E+03	7.91E+02	1.31E+03	1.43E+03	9.34E-03
10.	CA+2	9.82E+01	9.71E+00	3.08E+03	5.42E+03	8.33E+02	3.47E+02	2.61E+02	4.33E+02	4.70E+02	4.78E+02
11.	CANCRINITE	4.58E+03	2.10E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E+02
12.	CD+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13.	CE+3	1.23E+01	6.76E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-07
14.	CL-	4.18E+00	5.81E+00	7.05E+01	8.54E+01	1.11E+01	5.92E+00	4.45E+00	7.39E+00	8.02E+00	2.43E+01
15.	CM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16.	CO+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17.	CO3-2	2.03E+01	1.91E+01	0.00E+00	7.32E+02	1.12E+02	4.68E+01	3.52E+01	5.84E+01	6.35E+01	1.04E+02
18.	CR(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19.	CR+3	8.29E+00	4.98E-01	1.53E+02	2.82E+02	4.55E+01	1.22E+01	9.15E+00	1.52E+01	1.65E+01	1.85E+03
20.	CS+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21.	CS-137	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22.	CU+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23.	F-	6.68E+01	5.28E+01	1.11E+03	1.18E+03	4.60E+01	4.58E+02	3.45E+02	5.72E+02	6.22E+02	4.34E-01
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25.	FE+3	5.32E+02	6.74E-01	1.83E+04	3.13E+04	4.93E+03	1.39E+03	1.05E+03	1.74E+03	1.89E+03	1.95E+03
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28.	H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29.	HG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30.	I-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31.	K+	0.00E+00	0.00E+00	5.47E+01	1.97E+02	0.00E+00	1.53E+02	1.15E+02	1.91E+02	2.07E+02	0.00E+00
32.	LA+3	0.00E+00	0.00E+00	5.78E+01	2.08E+02	0.00E+00	1.62E+02	1.22E+02	2.02E+02	2.19E+02	0.00E+00
33.	LI+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34.	MG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35.	MN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36.	MN+4	0.00E+00	0.00E+00	2.20E+03	7.92E+03	0.00E+00	6.16E+03	4.63E+03	7.69E+03	8.35E+03	0.00E+00
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38.	MO+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39.	NA+	8.97E+02	3.99E+02	1.28E+04	9.98E+03	8.43E+02	8.97E+02	6.74E+02	1.12E+03	1.22E+03	1.32E+03
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41.	NI+3	1.18E+02	3.74E+00	4.26E+03	7.91E+03	1.24E+03	5.05E+02	3.80E+02	6.31E+02	6.85E+02	6.22E+02
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43.	NO2-	1.37E+01	2.22E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E+01
44.	NO3-	4.21E+02	9.51E+02	0.00E+00	2.38E+03	2.92E+02	2.14E+02	1.61E+02	2.68E+02	2.91E+02	1.29E+03
45.	NP+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46.	OH-	2.08E+03	4.63E-01	0.00E+00	2.16E+04	5.26E+03	2.99E+03	2.26E+03	3.73E+03	4.06E+03	7.48E+04
47.	P2O5:24WO2:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48.	PB+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49.	PO4-3	7.84E+03	3.75E+02	1.06E+05	6.65E+04	4.99E+03	1.16E+03	8.70E+02	1.45E+03	1.57E+03	3.72E+02
50.	PU-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52.	RE+7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53.	RH+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54.	RU+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55.	SB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56.	SE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57.	SI+4	0.00E+00	1.12E+00	4.33E+03	4.11E+03	5.22E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58.	SM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60.	SO4-2	2.31E+01	5.21E+01	3.90E+01	4.22E+01	5.76E+00	2.63E-01	1.98E-01	3.28E-01	3.57E-01	1.36E+01
61.	SR+2	0.00E+00	0.00E+00	1.10E+03	3.95E+03	0.00E+00	3.08E+03	2.31E+03	3.84E+03	4.17E+03	0.00E+00
62.	TCO4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63.	TE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64.	TH+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65.	TI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66.	TL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67.	TOC	0.00E+00	0.00E+00	2.84E+01	9.86E+01	0.00E+00	8.49E+01	6.39E+01	1.06E+02	1.15E+02	3.24E-01
68.	UO2+2	9.36E+00	5.49E-02	2.23E+01	2.35E+01	3.20E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E+03
69.	V+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70.	W+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71.	ZN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72.	ZR+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73.	ZNO2:2H2O	1.03E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total	2.10E+04	4.67E+03	1.59E+05	1.85E+05	2.22E+04	1.67E+04	1.41E+04	2.34E+04	2.54E+04	1.24E+05
	Vol (ML) spg=3	7.0	1.6	56.2	61.6	7.4	6.2	4.7	7.8	8.5	41.2
74.	C14 (Ci)	2.52E-04	2.25E-04	3.00E-15	0.00E+00	6.68E-40	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-02
75.	Sr90 (Ci)	2.50E+03	5.04E+01	2.56E+03	2.17E+03	3.23E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E+03
76.	Y90 (Ci)	2.50E+03	5.04E+01	2.56E+03	2.17E+03	3.23E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E+03
77.	Tc99 (Ci)	9.96E-02	6.21E-01	3.12E-11	0.00E+00	1.61E-36	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-08
78.	Cs137 (Ci)	1.02E+02	4.28E+02	1.92E-08	0.00E+00	7.73E-33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-06
79.	Ba137 (Ci)	9.70E+01	4.07E+02	1.82E-08	0.00E+00	7.35E-33	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-06
80.	U235 (Ci)	5.37E-03	1.68E-03	9.77E-03	2.53E-02	8.45E-02	0.00E+00	7.57E-09	7.57E-08	0.00E+00	1.89E-09
81.	U238 (Ci)	1.21E-01	3.77E-02	2.20E-01	5.84E-01	1.99E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.51E-08
82.	Np237 (Ci)	2.20E-03	7.30E-03	5.05E-05	9.41E-05	1.76E-04	0.00E+00	2.78E-07	2.78E-06	0.00E+00	5.49E-09
83.	Pu238 (Ci)	7.16E-03	1.45E-03	3.68E-01	6.08E-01	9.03E+00	0.00E+00	1.84E-02	1.84E-02	0.00E+00	3.11E-04
84.	Pu239 (Ci)	3.62E+00	4.01E-01	1.37E+02	9.22E+01	1.53E+02	0.00E+00	2.18E-01	2.18E+00	0.00E+00	2.30E-05
85.	Pu240 (Ci)	2.91E-01	3.23E-02	1.50E+01	1.85E+01	3.34E+01	0.00E+00	5.24E-02	5.24E-01	0.00E+00	4.30E-04
86.	Pu241 (Ci)	3.05E-01	3.40E-02	2.52E+01	6.18E+01	1.44E+02	0.00E+00	1.96E-01	1.96E+00	0.00E+00	8.47E-05
87.	Am241 (Ci)	1.08E-01	1.21E-02	4.07E+00	8.45E+00	1.73E+01	0.00E+00	2.57E-02	2.57E-01	0.00E+00	5.66E-04
88.	Cm244 (Ci)	7.21E-05	1.08E-05	4.12E-16	0.00E+00	6.82E-34	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-10

Revised Tank Inventory for Liquid Phase Constituents (TX)

	Chemical	Mass (kg)									
		102TX	103TX	104TX	105TX	106TX	107TX	108TX	109TX	110TX	111TX
1.	AG+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.	AL(OH)4-	7.14E+03	9.95E+03	2.96E+03	3.87E+04	2.95E+04	1.74E+03	8.24E+03	1.52E+04	2.84E+04	2.21E+04
3.	AL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4.	AM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.	AS+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.	B+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.	BA+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8.	BE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9.	BI+3	1.28E+01	1.79E+01	5.32E+00	8.95E+01	5.18E+01	3.12E+00	1.48E+01	1.11E+02	5.63E+01	4.47E+01
10.	CA+2	3.39E+01	4.72E+01	1.41E+01	1.84E+02	1.37E+02	8.28E+00	3.34E+01	1.36E+00	1.30E+02	9.99E+01
11.	CANCRINITE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12.	CD+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13.	CE+3	4.29E-02	4.15E-01	6.58E-08	5.03E-01	0.00E+00	0.00E+00	2.55E+02	2.20E+02	1.71E+02	4.45E+01
14.	CL-	1.52E+03	2.12E+03	6.37E+02	8.25E+03	6.15E+03	3.72E+02	1.79E+03	6.86E+02	5.90E+03	4.57E+03
15.	CM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16.	CO+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17.	CO3-2	2.87E+03	4.02E+03	2.87E+03	1.56E+04	1.09E+04	1.69E+03	3.35E+03	2.10E+03	1.04E+04	8.04E+03
18.	CR(OH)4-	2.15E+03	3.00E+03	8.93E+02	1.17E+04	8.78E+03	5.24E+02	2.47E+03	7.54E+01	8.25E+03	6.34E+03
19.	CR+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20.	CS+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21.	CS-137	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22.	CU+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23.	F-	5.96E+02	8.30E+02	2.47E+02	3.23E+03	2.40E+03	1.45E+02	6.88E+02	1.60E+04	3.56E+03	3.14E+03
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25.	FE+3	9.28E+01	1.29E+02	4.13E+01	5.03E+02	3.99E+02	2.38E+01	3.30E+01	9.86E+01	3.61E+02	2.78E+02
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28.	H2O	1.89E+06	2.62E+06	9.00E+05	1.01E+07	7.52E+06	5.14E+05	2.18E+06	2.86E+06	7.35E+06	5.70E+06
29.	HG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30.	I-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31.	K+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32.	LA+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33.	LI+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34.	MG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35.	MN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36.	MN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38.	MO+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39.	NA+	2.54E+05	3.54E+05	1.19E+05	1.37E+06	1.02E+06	6.83E+04	2.95E+05	3.21E+05	9.92E+05	7.69E+05
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41.	NI+3	2.09E+01	2.91E+01	8.75E+00	1.13E+02	8.47E+01	5.13E+00	1.56E+01	1.77E+00	8.03E+01	6.17E+01
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43.	NO2-	2.41E+04	3.35E+04	9.98E+03	1.31E+05	9.70E+04	5.86E+03	2.78E+04	9.03E+03	9.33E+04	7.21E+04
44.	NO3-	6.09E+05	8.72E+05	2.61E+05	3.39E+06	2.53E+06	1.53E+05	7.27E+05	8.36E+04	2.41E+06	1.86E+06
45.	NP+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46.	OH-	7.62E+03	4.37E+03	9.53E+03	1.57E+04	8.64E+03	4.89E+03	3.96E+03	1.42E+05	1.82E+04	1.66E+04
47.	P2O5:24WO2:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48.	PB+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49.	PO4-3	1.85E+03	2.60E+03	2.18E+03	9.80E+03	6.91E+03	1.07E+03	1.56E+03	9.42E+04	1.31E+04	1.18E+04
50.	PU-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52.	RE+7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53.	RH+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54.	RU+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55.	SB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56.	SE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57.	SI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58.	SM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60.	SO4-2	4.22E+03	5.90E+03	3.86E+03	2.25E+04	1.61E+04	1.95E+03	5.34E+03	2.24E+03	1.55E+04	1.20E+04
61.	SR+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62.	TCO4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63.	TE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64.	TH+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65.	TI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66.	TL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67.	TOC	5.28E+02	7.36E+02	2.13E+02	2.87E+03	2.13E+03	1.26E+02	6.07E+02	0.00E+00	1.99E+03	1.51E+03
68.	UO2+2	2.54E+02	3.66E+02	1.06E+03	1.53E+03	6.28E+02	7.92E+02	3.38E+02	9.02E+00	5.48E+02	4.23E+02
69.	V+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70.	W+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71.	ZN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72.	ZR+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73.	ZRO2:2H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E+02	1.40E+01	1.45E+01
	Total	2.81E+06	3.91E+06	1.31E+06	1.51E+07	1.13E+07	7.54E+05	3.26E+06	3.54E+06	1.10E+07	8.49E+06
	Diluted Vol (ML)	2208.7	3078.3	1034.8	11913.0	8869.6	593.9	2565.2	2791.3	8626.1	6687.0
74.	C14 (Ci)	4.98E-01	1.44E-01	8.39E-08	4.67E+00	9.41E-01	2.00E-09	2.64E+00	5.65E+01	2.03E+01	2.18E+00
75.	Sr90 (Ci)	2.34E+00	5.20E+00	4.58E-07	2.29E+01	3.76E-08	7.10E-06	3.68E+01	1.05E+03	7.39E+02	3.49E+02
76.	Y90 (Ci)	2.34E+00	5.20E+00	4.58E-07	2.29E+01	3.76E-08	7.10E-06	3.68E+01	1.05E+03	7.39E+02	3.49E+02
77.	Tc99 (Ci)	3.32E+00	4.77E-01	5.11E-07	3.05E+01	3.01E+00	1.46E-07	1.14E+01	2.90E+02	1.04E+02	1.54E+01
78.	Cs137 (Ci)	5.15E+02	7.14E+02	1.20E-04	4.99E+03	8.07E+03	2.39E-04	2.99E+04	2.15E+05	9.02E+04	2.04E+04
79.	Ba137 (Ci)	4.89E+02	6.79E+02	1.14E-04	4.74E+03	7.67E+03	2.27E-04	2.84E+04	2.04E+05	8.57E+04	1.94E+04
80.	U235 (Ci)	2.45E-11	3.93E-10	3.01E-07	5.76E-12	7.84E-10	7.84E-10	3.47E-04	2.72E-03	9.36E-04	3.91E-04
81.	U238 (Ci)	4.88E-10	7.80E-09	6.92E-06	6.10E-14	1.56E-08	7.80E-09	7.84E-03	5.32E-02	2.17E-02	9.04E-03
82.	Np237 (Ci)	2.76E-03	5.18E-04	5.85E-10	2.60E-02	4.46E-03	2.23E-10	9.44E-03	2.66E-01	9.78E-02	1.62E-02
83.	Pu238 (Ci)	2.64E-06	9.08E-06	4.93E-05	1.45E-05	2.13E-07	3.40E-09	2.10E-03	8.93E-02	2.89E-03	3.22E-04
84.	Pu239 (Ci)	1.45E-09	1.38E-08	4.64E-06	5.99E-06	4.50E-10	1.40E-08	9.62E-03	2.38E+00	1.78E-01	1.87E-02
85.	Pu240 (Ci)	1.63E-06	6.54E-08	2.49E-06	5.94E-06	7.83E-08	3.42E-09	2.51E-03	4.58E-01	3.25E-02	3.48E-03
86.	Pu241 (Ci)	5.89E-09	4.11E-08	1.70E-06	3.93E-05	4.07E-10	2.97E-08	1.45E-02	1.69E+00	1.08E-01	1.17E-02
87.	Am241 (Ci)	3.09E-05	6.81E-03	4.01E-07	2.14E-04	3.91E-06	4.29E-08	6.09E-02	8.67E+00	2.95E+00	3.02E-01
88.	Cm244 (Ci)	3.74E-05	7.72E-06	8.99E-12	3.53E-04	1.14E-05	1.69E-12	3.43E-04	8.34E-03	3.19E-03	3.23E-04

Revised Tank Inventory for Solid Phase Constituents (TX)

	Chemical	Mass (kg)										
		102TX	103TX	104TX	105TX	106TX	107TX	108TX	109TX	110TX	111TX	
1.	AG+	1.04E-07	1.59E-08	2.00E-14	1.02E-06	1.07E-07	6.00E-15	4.17E-07	9.15E-06	3.28E-06	4.94E-07	
2.	AL(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3.	AL+3	2.05E+01	2.85E+01	8.48E+00	1.11E+02	1.58E+03	4.98E+00	2.36E+01	5.30E+04	4.01E+03	4.02E+03	
4.	AM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
5.	AS+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
6.	B+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
7.	BA+2	2.31E+00	5.75E-01	1.07E+00	3.83E+00	1.33E-01	1.24E-08	1.22E+00	2.62E+00	1.29E+00	6.95E-01	
8.	BE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
9.	BI+3	1.30E-01	1.81E-01	5.37E-02	7.03E-01	5.23E-11	3.15E-02	1.50E-01	1.10E+04	7.05E+02	6.85E+02	
10.	CA+2	2.32E+01	3.34E+01	9.33E+01	1.12E+02	7.68E+01	4.23E+01	3.24E+02	1.73E+03	1.80E+02	1.74E+02	
11.	CANCRINITE	2.89E+03	4.03E+03	1.23E+03	1.57E+04	1.16E+04	7.13E+02	3.34E+03	5.23E+04	1.46E+04	1.21E+04	
12.	CD+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
13.	CE+3	4.24E+00	4.11E+01	6.51E-06	4.98E+01	0.00E+00	0.00E+00	2.53E+04	2.17E+04	1.69E+04	4.41E+03	
14.	CL-	1.54E+01	2.15E+01	6.74E+00	8.34E+01	6.29E+01	3.85E+00	2.63E+01	3.61E+01	6.29E+01	5.01E+01	
15.	CM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
16.	CO+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
17.	CO3-2	4.87E+01	7.04E+01	2.07E+02	2.62E+02	1.20E+02	1.22E+02	1.49E+02	2.34E+02	1.21E+02	9.77E+01	
18.	CR(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
19.	CR+3	9.88E+00	1.38E+01	8.21E+00	5.23E+01	1.18E+02	3.63E+00	1.90E+01	1.49E+02	5.29E+01	4.81E+01	
20.	CS+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
21.	CS-137	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
22.	CU+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
23.	F-	6.02E+00	8.39E+00	2.50E+00	3.26E+01	2.43E+01	1.46E+00	6.95E+00	8.44E+02	9.03E+01	9.05E+01	
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
25.	FE+3	3.34E+01	5.01E+01	2.92E+02	1.35E+02	9.98E+01	1.30E+02	6.07E+02	9.76E+03	6.24E+02	6.04E+02	
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
28.	H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
29.	HG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
30.	I-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
31.	K+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
32.	LA+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
33.	LI+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
34.	MG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
35.	MN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
36.	MN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
38.	MO+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
39.	NA+	1.08E+03	1.51E+03	1.01E+03	5.78E+03	4.16E+03	5.34E+02	1.93E+03	1.34E+04	4.94E+03	4.11E+03	
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
41.	NI+3	1.77E+01	2.60E+01	1.14E+02	7.81E+01	5.02E+01	5.12E+01	3.29E+02	2.13E+03	1.62E+02	1.57E+02	
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
43.	NO2-	0.00E+00	0.00E+00	1.01E+02	0.00E+00	0.00E+00	5.92E+01	2.80E+02	9.13E+01	9.42E+02	7.28E+02	
44.	NO3-	4.04E+03	5.73E+03	2.63E+03	2.30E+04	2.53E+04	1.54E+03	7.34E+03	8.44E+02	2.43E+04	1.87E+04	
45.	NP+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
46.	OH-	0.00E+00	0.00E+00	1.41E+03	0.00E+00	0.00E+00	1.31E+03	9.43E+03	5.44E+04	5.70E+03	2.02E+03	
47.	P2O5:24WO2:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
48.	PB+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
49.	PO4-3	2.64E+02	3.96E+02	2.23E+03	1.08E+03	1.62E+02	9.92E+02	8.82E+02	1.41E+05	1.01E+04	1.03E+04	
50.	PU-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
52.	RE+7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
53.	RH+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
54.	RU+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
55.	SB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
56.	SE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
57.	SI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
58.	SM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
60.	SO4-2	4.51E+01	6.34E+01	6.19E+01	2.38E+02	1.64E+02	2.99E+01	7.81E+01	4.57E+01	1.59E+02	1.24E+02	
61.	SR+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
62.	TCO4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
63.	TE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
64.	TH+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
65.	TI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
66.	TL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
67.	TOC	5.34E+00	7.44E+00	2.15E+00	2.90E+01	2.15E+01	1.27E+00	6.13E+00	0.00E+00	2.01E+01	1.53E+01	
68.	UO2+2	2.12E+03	3.19E+03	1.91E+04	1.44E+04	8.49E+02	1.44E+04	5.13E+03	1.71E+02	5.69E+01	7.68E+01	
69.	V+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
70.	W+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
71.	ZN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
72.	ZR+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
73.	ZRO2:2H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E+04	1.38E+03	1.44E+03	
	Total	1.06E+04	1.52E+04	2.85E+04	6.11E+04	4.44E+04	1.99E+04	5.52E+04	3.82E+05	8.51E+04	6.00E+04	
	Vol (ML) spg=3	3.5	5.1	9.5	20.4	14.8	6.6	18.4	127.2	28.4	20.0	
74.	C14 (Ci)	5.03E-03	1.46E-03	8.47E-10	4.71E-02	9.51E-03	2.02E-11	2.66E-02	5.70E-01	2.05E-01	2.20E-02	
75.	Sr90 (Ci)	2.32E+02	5.15E+02	4.54E-05	2.27E+03	3.72E-06	7.02E-04	3.64E+03	1.04E+05	7.32E+04	3.45E+04	
76.	Y90 (Ci)	2.32E+02	5.15E+02	4.54E-05	2.27E+03	3.72E-06	7.02E-04	3.64E+03	1.04E+05	7.32E+04	3.45E+04	
77.	Tc99 (Ci)	3.32E+00	4.77E-01	5.11E-07	3.05E+01	3.01E+00	1.46E-07	1.14E+01	2.90E+02	1.04E+02	1.54E+01	
78.	Cs137 (Ci)	1.72E+02	2.38E+02	3.99E-05	1.66E+03	2.69E+03	7.96E-05	9.97E+03	7.16E+04	3.01E+04	6.81E+03	
79.	Ba137 (Ci)	1.63E+02	2.26E+02	3.79E-05	1.58E+03	2.56E+03	7.57E-05	9.48E+03	6.80E+04	2.86E+04	6.47E+03	
80.	U235 (Ci)	4.65E-10	7.47E-09	5.71E-06	1.09E-10	1.49E-08	1.49E-08	6.59E-03	5.18E-02	1.78E-02	7.42E-03	
81.	U238 (Ci)	9.27E-09	1.48E-07	1.31E-04	1.15E-12	2.97E-07	1.48E-07	1.49E-01	1.20E+00	4.13E-01	1.72E-01	
82.	Np237 (Ci)	2.48E-02	4.65E-03	5.26E-09	2.34E-01	4.01E-02	2.01E-09	8.50E-02	2.39E+00	8.80E-01	1.46E-01	
83.	Pu238 (Ci)	1.29E-04	4.45E-04	2.41E-03	7.09E-04	1.05E-05	1.67E-07	1.03E-01	4.38E+00	1.42E-01	1.58E-02	
84.	Pu239 (Ci)	7.08E-08	6.78E-07	2.28E-04	2.93E-04	2.21E-08	6.87E-07	4.71E-01	1.17E+02	8.70E+00	9.17E-01	
85.	Pu240 (Ci)	7.99E-05	3.21E-06	1.22E-04	2.91E-04	3.84E-06	1.68E-07	1.23E-01	2.24E+01	1.59E+00	1.71E-01	
86.	Pu241 (Ci)	2.89E-07	2.01E-06	8.35E-05	1.92E-03	1.99E-08	1.46E-06	7.12E-01	8.27E+01	5.27E+00	5.72E-01	
87.	Am241 (Ci)	2.78E-04	6.13E-02	3.61E-06	1.93E-03	3.52E-05	3.86E-07	5.48E-01	7.80E+01	2.65E+01	2.72E+00	
88.	Cm244 (Ci)	3.70E-03	7.65E-04	8.90E-10	3.49E-02	1.13E-03	1.68E-10	3.40E-02	8.26E-01	3.16E-01	3.20E-02	

Revised Tank Inventory for Liquid Phase Constituents (TX,TY)

	Chemical	Mass (kg)									
		112TX	113TX	114TX	115TX	116TX	117TX	118TX	101TY	102TY	103TY
1.	AG+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.	AL(OH)4-	4.02E+04	3.46E+04	3.05E+04	4.06E+04	1.77E+04	2.66E+04	2.35E+04	0.00E+00	2.18E+03	2.63E+03
3.	AL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4.	AM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.	AS+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.	B+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.	BA+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8.	BE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9.	BI+3	1.19E+02	1.02E+02	1.69E+02	7.31E+01	5.60E+02	4.31E+02	4.73E+01	1.33E+02	5.04E+01	3.46E+01
10.	CA+2	2.01E+02	1.30E+02	1.69E+02	1.93E+02	2.24E+02	2.12E+02	9.69E+01	2.00E+01	2.29E+01	1.78E+01
11.	CANCRINITE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12.	CD+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13.	CE+3	2.25E+02	1.45E+02	4.04E+01	6.25E+01	3.37E+01	1.37E+01	1.40E+02	5.67E+00	4.42E+00	2.79E+00
14.	CL-	8.80E+03	6.13E+03	7.04E+03	8.75E+03	7.03E+03	7.67E+03	4.79E+03	4.99E+02	7.58E+02	1.47E+03
15.	CM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16.	CO+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17.	CO3-2	1.59E+04	1.12E+04	1.33E+04	1.55E+04	1.74E+04	1.66E+04	8.58E+03	2.45E+03	1.79E+03	4.22E+03
18.	CR(OH)4-	1.22E+04	8.24E+03	9.29E+03	1.22E+04	6.21E+03	8.56E+03	5.99E+03	9.14E+01	7.36E+02	1.06E+03
19.	CR+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20.	CS+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21.	CS-137	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22.	CU+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23.	F-	5.53E+03	9.89E+03	7.93E+03	3.39E+03	3.06E+04	2.00E+04	2.20E+03	8.63E+03	2.80E+03	3.35E+03
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25.	FE+3	5.49E+02	4.00E+02	4.63E+02	5.36E+02	6.11E+02	5.78E+02	2.72E+02	7.18E+01	6.26E+01	1.34E+02
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28.	H2O	1.08E+07	8.41E+06	8.82E+06	1.06E+07	9.38E+06	9.83E+06	5.39E+06	1.76E+06	9.99E+05	1.97E+06
29.	HG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30.	I-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31.	K+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32.	LA+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33.	LI+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34.	MG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35.	MN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36.	MN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38.	MO+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39.	NA+	1.46E+06	1.11E+06	1.18E+06	1.44E+06	1.20E+06	1.29E+06	7.29E+05	2.00E+05	1.29E+05	2.45E+05
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41.	NI+3	1.24E+02	8.06E+01	1.04E+02	1.19E+02	1.38E+02	1.31E+02	5.99E+01	1.43E+01	1.41E+01	1.30E+01
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43.	NO2-	1.37E+05	9.62E+04	1.05E+05	1.37E+05	7.47E+04	9.90E+04	6.72E+04	2.43E+03	8.70E+03	1.22E+04
44.	NO3-	3.57E+06	2.43E+06	2.76E+06	3.57E+06	2.15E+06	2.70E+06	1.79E+06	8.06E+04	2.45E+05	3.75E+05
45.	NP+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46.	OH-	2.04E+04	7.52E+04	3.10E+04	1.36E+04	1.20E+05	7.78E+04	7.59E+03	8.25E+04	1.10E+04	5.50E+04
47.	P2O5:24WO2:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48.	PB+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49.	PO4-3	2.49E+04	5.11E+04	4.53E+04	9.72E+03	2.11E+05	1.32E+05	8.52E+03	6.84E+04	1.91E+04	2.72E+04
50.	PU-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52.	RE+7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53.	RH+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54.	RU+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55.	SB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56.	SE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57.	SI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E+02	0.00E+00	0.00E+00
58.	SM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60.	SO4-2	2.45E+04	1.62E+04	2.21E+04	2.37E+04	3.90E+04	3.26E+04	1.16E+04	4.30E+03	3.83E+03	1.02E+04
61.	SR+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62.	TCO4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63.	TE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64.	TH+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65.	TI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66.	TL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67.	TOC	2.98E+03	1.90E+03	2.23E+03	3.01E+03	1.31E+03	1.96E+03	1.44E+03	2.13E+03	1.61E+02	1.61E+03
68.	UO2+2	8.04E+02	5.47E+02	6.12E+02	8.71E+02	3.99E+02	5.59E+02	3.96E+02	6.48E+00	4.76E+01	5.36E+02
69.	V+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70.	W+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71.	ZN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72.	ZR+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73.	ZRO2:2H2O	0.00E+00	9.08E+01	1.95E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E+01	0.00E+00	4.17E+01
	Total	1.61E+07	1.23E+07	1.30E+07	1.59E+07	1.33E+07	1.42E+07	8.05E+06	2.21E+06	1.42E+06	2.71E+06
	Diluted Vol (ML)	12695.7	9652.2	10260.9	12521.7	10434.8	11217.4	6339.1	1739.1	1121.7	2130.4
74.	C14 (Ci)	3.52E-01	2.36E+00	6.59E-01	1.27E+00	1.72E-01	2.01E+00	1.93E+02	5.18E-01	1.22E+01	3.25E+01
75.	Sr90 (Ci)	5.52E+01	5.92E+01	5.55E+00	2.16E+02	2.81E+02	5.34E+02	5.50E+03	1.23E+02	8.68E+01	7.82E+02
76.	Y90 (Ci)	5.52E+01	5.92E+01	5.55E+00	2.16E+02	2.81E+02	5.34E+02	5.50E+03	1.23E+02	8.68E+01	7.82E+02
77.	Tc99 (Ci)	7.87E+00	2.62E+00	7.34E+00	3.50E+00	1.77E+00	7.18E-01	2.73E+02	6.59E-01	7.77E+01	2.16E+02
78.	Cs137 (Ci)	1.58E+04	5.43E+03	1.58E+04	8.84E+03	3.76E+03	1.52E+03	2.51E+05	1.46E+03	1.68E+04	3.36E+04
79.	Ba137 (Ci)	1.51E+04	5.16E+03	1.50E+04	8.40E+03	3.57E+03	1.45E+03	2.38E+05	1.39E+03	1.60E+04	3.20E+04
80.	U235 (Ci)	8.12E-05	2.15E-01	7.28E-03	3.75E-02	6.74E-03	4.40E-02	1.63E-02	5.53E-04	1.48E-05	4.04E-03
81.	U238 (Ci)	1.86E-03	5.08E+00	1.72E-01	8.84E-01	1.52E-01	1.04E+00	3.79E-01	1.25E-02	3.36E-04	9.20E-02
82.	Np237 (Ci)	9.82E-03	3.30E-03	9.15E-03	3.15E-03	2.21E-03	9.01E-04	2.52E-01	8.68E-04	6.55E-02	1.79E-01
83.	Pu238 (Ci)	1.49E-05	4.77E-03	2.37E-03	1.09E-03	6.18E-05	4.27E-04	3.60E-01	6.22E-01	9.57E-03	2.27E+00
84.	Pu239 (Ci)	1.02E-03	7.45E-01	7.45E-02	8.28E-03	1.01E-11	4.93E-11	1.45E+01	2.88E+00	5.42E-02	4.10E+00
85.	Pu240 (Ci)	1.35E-04	1.29E-01	1.29E-02	1.44E-03	1.22E-08	1.94E-07	3.75E+00	6.85E-01	9.86E-03	6.21E-01
86.	Pu241 (Ci)	2.67E-04	3.54E-01	3.54E-02	3.95E-03	9.53E-12	1.87E-10	4.84E+01	3.54E+00	4.78E-02	2.65E+00
87.	Am241 (Ci)	1.77E-02	3.79E-01	3.79E-02	4.27E-03	6.19E-04	1.01E-03	1.04E+02	2.80E+00	1.40E-02	2.26E+00
88.	Cm244 (Ci)	2.00E-05	2.75E-07	1.60E-06	2.26E-05	2.93E-07	1.19E-07	9.51E-03	1.02E-06	8.47E-04	2.43E-03

Revised Tank Inventory for Solid Phase Constituents (TX,TY)

		Mass (kg)										
	Chemical	112TX	113TX	114TX	115TX	116TX	117TX	118TX	101TY	102TY	103TY
1.	AG+	2.45E-07	7.93E-08	2.45E-07	1.03E-07	5.65E-08	2.30E-08	1.56E-05	2.38E-08	2.43E-06	5.74E-06
2.	AL(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.	AL+3	1.15E+02	2.67E+04	5.66E+02	1.17E+02	5.07E+01	7.64E+01	1.21E+04	0.00E+00	6.25E+00	7.54E+00
4.	AM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.	AS+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.	B+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.	BA+2	8.09E-01	3.63E-01	9.81E-01	1.80E-01	4.71E-01	4.64E-01	8.94E+00	3.78E-01	9.94E-01	1.65E+00
8.	BE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9.	BI+3	1.20E+00	5.23E+03	1.16E+02	7.38E-01	6.66E+00	4.35E+00	4.78E-01	4.30E+03	6.10E-01	2.81E+03
10.	CA+2	7.99E+01	8.74E+02	7.34E+01	2.17E+02	8.89E+01	8.41E+01	2.74E+02	7.94E+02	9.11E+00	1.59E+03
11.	CANCRINITE	1.81E+04	3.59E+04	1.72E+04	1.54E+04	3.18E+04	2.58E+04	8.48E+03	1.67E+03	3.10E+03	1.39E+04
12.	CD+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13.	CE+3	2.23E+04	1.44E+04	4.00E+03	6.19E+03	3.34E+03	1.35E+03	1.39E+04	5.61E+02	4.38E+02	2.76E+02
14.	CL-	8.89E+01	7.58E+01	7.09E+01	9.22E+01	7.10E+01	7.74E+01	5.99E+01	7.54E+00	7.66E+00	4.58E+01
15.	CM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16.	CO+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17.	CO3-2	1.60E+02	2.14E+02	1.35E+02	1.87E+02	1.76E+02	1.68E+02	1.82E+02	0.00E+00	1.81E+01	0.00E+00
18.	CR(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19.	CR+3	5.32E+01	1.06E+02	3.53E+01	5.62E+01	2.72E+01	3.74E+01	4.21E+01	2.72E+00	3.22E+00	2.64E+01
20.	CS+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21.	CS-137	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22.	CU+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23.	F-	5.58E+01	4.24E+02	8.70E+01	3.43E+01	3.09E+02	2.02E+02	2.22E+01	2.88E+02	2.83E+01	1.64E+02
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25.	FE+3	5.55E+00	4.64E+03	1.05E+02	9.94E+02	5.17E+00	5.84E+00	8.19E+02	1.87E+03	6.32E-01	8.77E+03
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28.	H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29.	HG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30.	I-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31.	K+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32.	LA+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33.	LI+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34.	MG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35.	MN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36.	MN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38.	MO+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39.	NA+	5.88E+03	1.04E+04	4.77E+03	6.02E+03	4.83E+03	5.20E+03	3.62E+03	5.36E+03	5.18E+02	5.63E+03
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41.	NI+3	3.07E+01	1.03E+03	4.34E+01	2.29E+02	3.42E+01	3.24E+01	3.15E+02	2.86E+03	3.50E+00	3.39E+03
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43.	NO2-	1.38E+03	9.71E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E+02	0.00E+00	0.00E+00	0.00E+00
44.	NO3-	3.60E+04	2.45E+04	2.15E+04	3.31E+04	1.52E+04	1.60E+04	1.81E+04	0.00E+00	1.84E+03	0.00E+00
45.	NP+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46.	OH-	1.97E+03	2.62E+04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E+04	0.00E+00	0.00E+00	0.00E+00
47.	P2O5:24WO2:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48.	PB+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49.	PO4-3	2.51E+02	6.71E+04	1.91E+03	2.92E+02	2.13E+03	1.34E+03	8.71E+01	5.87E+04	1.93E+02	3.96E+04
50.	PU-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52.	RE+7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53.	RH+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54.	RU+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55.	SB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56.	SE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57.	SI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E+02	0.00E+00	0.00E+00
58.	SM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60.	SO4-2	2.48E+02	1.75E+02	2.23E+02	2.50E+02	3.94E+02	3.29E+02	1.17E+02	4.55E+01	3.87E+01	1.88E+02
61.	SR+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62.	TCO4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63.	TE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64.	TH+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65.	TI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66.	TL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67.	TOC	3.01E+01	1.92E+01	2.21E+01	3.04E+01	1.33E+01	1.98E+01	1.45E+01	2.37E+02	1.63E+00	1.55E+02
68.	UO2+2	8.12E+00	8.69E+01	6.18E+00	1.17E+03	4.03E+00	5.65E+00	4.00E+00	4.14E+01	4.81E-01	8.86E+03
69.	V+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70.	W+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71.	ZN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72.	ZR+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73.	ZRO2:2H2O	0.00E+00	8.99E+03	1.93E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.32E+03	0.00E+00	4.13E+03
	Total	8.68E+04	2.28E+05	5.11E+04	6.54E+04	5.85E+04	5.07E+04	8.49E+04	8.39E+04	6.21E+03	8.95E+04
	Vol (ML) spg=3	28.9	76.0	17.0	21.8	19.5	16.9	28.3	28.0	2.1	29.8
74.	C14 (Ci)	3.55E-03	2.38E-02	6.66E-03	1.29E-02	1.74E-03	2.03E-02	1.95E+00	5.24E-03	1.23E-01	3.28E-01
75.	Sr90 (Ci)	5.47E+03	5.86E+03	5.49E+02	2.14E+04	2.78E+04	5.28E+04	5.45E+05	1.21E+04	8.59E+03	7.74E+04
76.	Y90 (Ci)	5.47E+03	5.86E+03	5.49E+02	2.14E+04	2.78E+04	5.28E+04	5.45E+05	1.21E+04	8.59E+03	7.74E+04
77.	Tc99 (Ci)	7.87E+00	2.62E+00	7.34E+00	3.50E+00	1.77E+00	7.18E-01	2.73E+02	6.59E-01	7.77E+01	2.16E+02
78.	Cs137 (Ci)	5.28E+03	1.81E+03	5.27E+03	2.95E+03	1.25E+03	5.08E+02	8.35E+04	4.87E+02	5.61E+03	1.12E+04
79.	Ba137 (Ci)	5.02E+03	1.72E+03	5.00E+03	2.80E+03	1.19E+03	4.83E+02	7.93E+04	4.63E+02	5.33E+03	1.07E+04
80.	U235 (Ci)	1.54E-03	4.08E+00	1.38E-01	7.13E-01	1.28E-01	8.35E-01	3.10E-01	1.05E-02	2.82E-04	7.67E-02
81.	U238 (Ci)	3.53E-02	9.65E+01	3.26E-00	1.68E+01	2.89E+00	1.97E+01	7.20E+00	2.37E-01	6.38E-03	1.75E+00
82.	Np237 (Ci)	8.83E-02	2.97E-02	8.24E-02	2.83E-02	1.99E-02	8.11E-03	2.27E+00	7.81E-03	5.90E-01	1.61E+00
83.	Pu238 (Ci)	7.30E-04	2.33E-01	1.16E-01	5.35E-02	3.03E-03	2.09E-02	1.76E+01	3.05E+01	4.69E-01	1.11E+02
84.	Pu239 (Ci)	5.00E-02	3.65E+01	3.65E+00	4.06E-01	4.93E-10	2.41E-09	7.09E+02	1.41E+02	2.66E+00	2.01E+02
85.	Pu240 (Ci)	6.59E-03	6.32E+00	6.32E-01	7.04E-02	5.96E-07	9.48E-06	1.84E+02	3.36E+01	4.83E-01	3.04E+01
86.	Pu241 (Ci)	1.31E-02	1.74E+01	1.74E+00	1.93E-01	4.67E-10	9.16E-09	2.37E+03	1.74E+02	2.34E+00	1.30E+02
87.	Am241 (Ci)	1.59E-01	3.41E+00	3.41E-01	3.84E-02	5.57E-03	9.05E-03	9.33E+02	2.52E+01	1.26E-01	2.04E+01
88.	Cm244 (Ci)	1.98E-03	2.72E-05	1.59E-04	2.23E-03	2.90E-05	1.18E-05	9.41E-01	1.01E-04	8.39E-02	2.40E-01

Revised Tank Inventory for Liquid Phase Constituents (TY,U)

		Mass (kg)									
	Chemical	104TY	105TY	106TY	101U	102U	103U	104U	105U	106U	107U
1.	AG+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.	AL(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E+04	5.04E+04	0.00E+00	3.80E+04	2.19E+04	4.38E+04
3.	AL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4.	AM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.	AS+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.	B+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.	BA+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8.	BE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9.	BI+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E+01	7.63E+01	0.00E+00	7.69E+01	2.84E+01	7.25E+01
10.	CA+2	5.96E-01	2.19E+00	2.22E-01	8.41E-02	7.43E+01	7.65E+01	1.53E-01	4.45E+01	4.13E+01	2.15E+01
11.	CANCRINITE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12.	CD+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13.	CE+3	2.29E+00	2.82E-02	1.29E-10	1.50E-20	4.98E+01	1.41E-04	0.00E+00	0.00E+00	1.23E-16	1.06E+01
14.	CL-	4.86E+02	1.78E+03	1.81E+02	8.60E+00	4.80E+03	7.01E+03	1.57E+01	6.44E+03	2.83E+03	5.91E+03
15.	CM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16.	CO+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17.	CO3-2	1.62E+03	5.94E+03	6.02E+02	2.14E+03	1.47E+04	4.19E+04	3.91E+03	1.96E+04	2.24E+04	1.95E+04
18.	CR(OH)4-	7.24E+00	2.66E+01	2.70E+00	2.66E+00	4.73E+03	3.75E+03	4.85E+00	3.27E+03	1.81E+03	2.20E+03
19.	CR+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20.	CS+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21.	CS-137	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22.	CU+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23.	F-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E+03	3.54E+03	0.00E+00	3.57E+03	1.32E+03	3.37E+03
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25.	FE+3	5.37E+01	1.97E+02	2.00E+01	3.59E+00	2.54E+02	2.14E+02	6.55E+00	1.43E+02	1.17E+02	5.12E+01
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28.	H2O	2.59E+05	9.52E+05	9.69E+04	2.31E+05	5.25E+06	6.73E+06	4.21E+05	5.26E+06	3.15E+06	4.60E+06
29.	HG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30.	I-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31.	K+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E+02	1.54E+03	0.00E+00	1.13E+03	6.37E+02	1.18E+03
32.	LA+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33.	LI+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34.	MG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35.	MN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36.	MN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E+01	1.02E+02	0.00E+00	7.54E+01	4.24E+01	7.81E+01
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38.	MO+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39.	NA+	3.24E+04	1.19E+05	1.21E+04	1.73E+04	6.85E+05	8.45E+05	3.15E+04	6.62E+05	3.88E+05	5.88E+05
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41.	NI+3	8.92E-01	3.28E+00	3.32E-01	1.14E-01	4.75E+01	4.73E+01	2.08E-01	2.82E+01	2.55E+01	1.07E+01
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43.	NO2-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E+04	1.46E+05	0.00E+00	1.42E+05	5.56E+04	1.43E+05
44.	NO3-	4.84E+04	1.78E+05	1.80E+04	1.58E+03	1.41E+06	1.26E+06	2.89E+03	9.73E+05	5.27E+05	6.71E+05
45.	NP+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46.	OH-	8.83E+03	3.25E+04	3.29E+03	1.06E+04	7.47E+04	1.99E+05	1.93E+04	1.56E+05	8.74E+04	1.70E+05
47.	P2O5:24WO2:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48.	PB+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-02	2.31E-01	0.00E+00	1.70E-01	9.57E-02	1.77E-01
49.	PO4-3	6.98E+02	2.57E+03	2.60E+02	1.81E+03	1.57E+04	1.65E+04	3.29E+03	1.83E+04	7.47E+03	1.56E+04
50.	PU-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52.	RE+7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53.	RH+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54.	RU+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55.	SB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56.	SE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57.	SI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58.	SM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60.	SO4-2	5.73E+03	2.11E+04	2.13E+03	2.70E+03	1.58E+04	1.75E+04	4.92E+03	1.46E+04	9.39E+03	1.35E+04
61.	SR+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-01
62.	TCO4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63.	TE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64.	TH+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65.	TI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66.	TL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67.	TOC	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E+03	9.00E+03	0.00E+00	8.69E+03	3.27E+03	8.80E+03
68.	UO2+2	3.28E+02	1.20E+03	1.22E+02	1.22E+03	2.78E+03	1.89E+03	2.23E+03	1.99E+03	1.50E+03	2.60E+03
69.	V+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70.	W+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71.	ZN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72.	ZR+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73.	ZRO2:2H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total	3.58E+05	1.31E+06	1.34E+05	2.68E+05	7.61E+06	9.33E+06	4.89E+05	7.31E+06	4.40E+06	6.27E+06
	Diluted Vol (ML)	281.7	1034.8	105.2	227.6	5991.3	7347.8	415.0	5756.5	3460.9	4939.1
74.	C14 (Ci)	4.54E-02	2.75E+00	2.32E-02	1.88E+00	4.67E+00	6.77E-04	3.70E-10	1.30E-03	1.05E-08	1.40E+00
75.	Sr90 (Ci)	4.43E+01	1.84E+03	6.74E+01	9.61E+01	3.67E+02	1.51E-02	2.60E-06	2.35E-02	1.51E-05	5.50E+02
76.	Y90 (Ci)	4.43E+01	1.84E+03	6.74E+01	9.61E+01	3.67E+02	1.51E-02	2.60E-06	2.35E-02	1.51E-05	5.50E+02
77.	Tc99 (Ci)	1.42E-01	3.03E+00	1.60E-08	5.78E+00	1.46E+01	2.28E-03	3.61E-08	4.20E-03	1.60E-08	2.88E+01
78.	Cs137 (Ci)	3.83E+02	6.68E+03	4.22E-05	1.45E+04	3.64E+04	5.96E+00	8.74E-05	1.12E+01	6.12E-05	2.05E+04
79.	Ba137 (Ci)	3.64E+02	6.35E+03	4.01E-05	1.38E+04	3.46E+04	5.66E+00	8.31E-05	1.06E+01	5.82E-05	1.95E+04
80.	U235 (Ci)	4.96E-04	1.05E-02	1.16E-03	5.32E-03	7.10E-11	9.98E-11	1.96E-10	1.99E-04	2.37E-09	6.00E-09
81.	U238 (Ci)	1.09E-02	2.46E-01	2.73E-02	1.20E-01	1.41E-09	1.99E-09	3.91E-09	4.51E-03	4.70E-08	1.74E-07
82.	Np237 (Ci)	1.80E-04	3.81E-03	2.64E-06	9.05E-03	1.95E-02	3.52E-06	4.13E-11	4.38E-06	3.66E-11	1.97E-02
83.	Pu238 (Ci)	1.12E-02	9.29E-03	1.07E-03	4.13E-03	3.73E-05	2.62E-04	4.24E-10	1.76E-04	2.87E-07	2.45E-04
84.	Pu239 (Ci)	1.28E-01	1.09E+00	1.21E-01	2.52E-02	1.81E-07	6.06E-11	1.75E-09	7.33E-04	2.97E-09	1.14E-06
85.	Pu240 (Ci)	2.66E-02	1.36E-01	1.52E-02	5.96E-03	1.16E-06	2.72E-06	4.28E-10	1.82E-04	7.54E-07	2.09E-06
86.	Pu241 (Ci)	1.37E-01	2.73E-01	3.04E-02	3.34E-02	2.77E-07	4.33E-09	1.81E-09	8.76E-04	6.19E-09	3.66E-06
87.	Am241 (Ci)	1.40E-01	1.52E+00	1.69E-01	5.47E-01	3.44E-01	8.25E-06	7.33E-09	1.11E-02	4.81E-08	9.75E+00
88.	Cm244 (Ci)	1.55E-06	1.44E-06	1.00E-14	5.46E-05	1.46E-04	1.51E-08	1.54E-13	6.30E-08	1.45E-13	1.98E-03

Revised Tank Inventory for Solid Phase Constituents (TY,U)

		Mass (kg)									
	Chemical	104TY	105TY	106TY	101U	102U	103U	104U	105U	106U	107U
1.	AG+	4.64E-09	1.09E-07	6.18E-16	2.21E-07	5.44E-07	8.73E-11	1.00E-15	1.50E-10	8.71E-18	2.38E-07
2.	AL(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.	AL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E+01	1.45E+02	0.00E+00	1.00E+02	6.28E+01	2.48E+04
4.	AM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.	AS+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.	B+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.	BA+2	2.46E-01	1.55E+00	3.17E-01	7.90E-01	1.39E+00	2.39E+00	4.66E-09	4.17E-01	6.40E-01	6.88E-01
8.	BE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9.	BI+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-01	7.71E-01	0.00E+00	7.77E-01	2.87E-01	7.33E-01
10.	CA+2	7.57E+02	2.78E+03	2.82E+02	1.07E+02	1.89E+02	1.86E+02	1.95E+02	1.50E+02	1.43E+02	6.43E+02
11.	CANCRINITE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E+04	1.23E+04	0.00E+00	1.51E+04	5.37E+03	1.47E+04
12.	CD+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13.	CE+3	2.27E+02	2.79E+00	1.28E-08	1.48E-18	4.93E+03	1.40E-02	0.00E+00	0.00E+00	1.20E-14	1.05E+03
14.	CL-	2.56E+01	9.39E+01	9.52E+00	4.53E-01	1.85E+02	2.70E+02	8.26E-01	2.48E+02	1.09E+02	2.29E+02
15.	CN+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16.	CO+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17.	CO3-2	1.80E+02	6.60E+02	6.69E+01	2.38E+02	5.26E+02	7.39E+02	4.34E+02	5.04E+02	4.83E+02	6.36E+02
18.	CR(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19.	CR+3	1.43E+01	5.25E+01	5.32E+00	5.26E+00	6.54E+01	2.41E+01	9.59E+00	2.69E+01	1.41E+01	3.23E+01
20.	CS+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21.	CS-137	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22.	CU+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23.	F-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E+01	3.58E+01	0.00E+00	3.61E+01	1.33E+01	3.40E+01
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25.	FE+3	5.32E+03	1.95E+04	1.98E+03	3.55E+02	6.50E+02	5.20E+02	6.48E+02	5.02E+02	4.23E+02	1.56E+03
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28.	H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29.	HG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30.	I-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31.	K+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E+00	1.55E+01	0.00E+00	1.15E+01	5.44E+00	1.19E+01
32.	LA+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33.	LI+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34.	MG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35.	MN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36.	MN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E+02	2.01E+03	0.00E+00	1.49E+03	8.35E+02	1.54E+03
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38.	MO+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39.	NA+	1.35E+03	4.96E+03	5.02E+02	7.19E+02	4.31E+03	4.34E+03	1.31E+03	3.67E+03	2.37E+03	3.77E+03
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41.	NI+3	1.07E+03	3.94E+03	3.99E+02	1.37E+02	2.22E+02	2.11E+02	2.50E+02	1.81E+02	1.69E+02	7.27E+02
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43.	NO2-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E+02	1.48E+03	0.00E+00	1.43E+03	5.62E+02	1.44E+03
44.	NO3-	4.89E+02	1.80E+03	1.82E+02	1.60E+01	1.42E+04	1.28E+04	2.92E+01	9.82E+03	6.33E+03	6.77E+03
45.	NP+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46.	OH-	6.67E+03	2.42E+04	2.45E+03	2.26E+03	7.36E+03	1.55E+03	4.11E+03	3.65E+03	1.79E+03	5.26E+04
47.	P2O5:24WO2:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48.	PB+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.19E-04	0.33E-03	0.00E+00	1.72E-03	9.67E-04	1.78E-03
49.	PO4-3	1.05E+03	3.85E+03	3.90E+02	2.71E+03	7.30E+02	4.09E+03	4.94E+03	1.35E+03	3.27E+03	4.82E+03
50.	PU-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52.	RE+7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53.	RH+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54.	RU+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55.	SB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56.	SE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57.	SI+4	0.00E+00	0.00E+00	0.00E+00	7.43E-01	0.00E+00	0.00E+00	1.36E+00	0.00E+00	0.00E+00	0.00E+00
58.	SM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60.	SO4-2	1.17E+02	4.30E+02	4.35E+01	5.51E+01	1.92E+02	2.18E+02	1.00E+02	1.80E+02	1.28E+02	1.85E+02
61.	SR+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E+01
62.	TCO4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63.	TE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64.	TH+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65.	TI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66.	TL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67.	TOC	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E+01	9.09E+01	0.00E+00	8.78E+01	3.30E+01	8.68E+01
68.	UO2+2	6.23E+03	2.29E+04	2.32E+03	2.32E+04	5.18E+04	3.38E+04	4.23E+04	3.60E+04	2.75E+04	4.76E+04
69.	V+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70.	W+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71.	ZN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72.	ZR+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73.	ZRO2:2H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total	2.35E+04	8.52E+04	8.63E+03	2.98E+04	1.10E+05	7.48E+04	5.43E+04	7.45E+04	4.96E+04	1.63E+05
	Vol (ML) *pg=3	7.8	28.4	2.9	9.9	36.6	24.9	18.1	24.8	16.5	54.4
74.	C14 (Ci)	4.59E-04	2.78E-02	2.35E-04	1.90E-02	4.71E-02	6.84E-06	3.73E-12	1.31E-05	1.06E-10	1.41E-02
75.	Sr90 (Ci)	4.39E+03	1.82E+05	6.68E+03	9.52E+03	3.64E+04	1.50E+00	2.58E-04	2.32E+00	1.49E-03	5.44E+04
76.	Y90 (Ci)	4.39E+03	1.82E+05	6.68E+03	9.52E+03	3.64E+04	1.50E+00	2.58E-04	2.32E+00	1.49E-03	5.44E+04
77.	Tc99 (Ci)	1.42E-01	3.03E+00	1.60E-08	5.78E+00	1.46E+01	2.28E-03	3.61E-08	4.20E-03	1.60E-08	2.88E+01
78.	Cs137 (Ci)	1.28E+02	2.23E+03	1.41E-05	4.83E+03	1.21E+04	1.99E+00	2.91E-05	3.73E+00	2.04E-05	6.84E+03
79.	Ba137 (Ci)	1.21E+02	2.12E+03	1.34E-05	4.59E+03	1.15E+04	1.89E+00	2.77E-05	3.55E+00	1.94E-05	6.50E+03
80.	U235 (Ci)	9.43E-03	1.99E-01	2.21E-02	1.01E-01	1.74E-10	1.45E-10	3.73E-09	2.89E-04	6.73E-09	1.12E-08
81.	U238 (Ci)	2.07E-01	4.67E+00	5.19E-01	2.28E+00	3.47E-09	2.89E-09	7.42E-08	6.53E-03	1.34E-07	3.24E-07
82.	Np237 (Ci)	1.62E-03	3.43E-02	2.38E-05	8.15E-02	1.75E-01	3.17E-05	3.71E-10	3.94E-05	3.29E-10	1.78E-01
83.	Pu238 (Ci)	5.49E-01	4.55E-01	5.25E-02	2.03E-01	1.83E-03	1.28E-02	2.08E-08	8.62E-03	1.41E-05	1.20E-02
84.	Pu239 (Ci)	6.27E+00	5.33E+01	5.92E+00	1.24E+00	8.85E-06	2.97E-09	8.60E-08	3.59E-02	1.46E-07	5.59E-05
85.	Pu240 (Ci)	1.31E+00	6.68E+00	7.45E-01	2.92E-01	5.69E-05	1.33E-04	2.10E-08	8.94E-03	3.69E-05	1.03E-04
86.	Pu241 (Ci)	6.69E+00	1.34E+01	1.49E+00	1.64E+00	1.36E-05	2.12E-07	8.88E-08	4.29E-02	3.03E-07	1.79E-04
87.	Am241 (Ci)	1.26E+00	1.37E+01	1.52E+00	4.92E+00	3.10E+00	7.43E-05	6.59E-08	1.00E-01	4.33E-07	8.78E+01
88.	Cm244 (Ci)	1.54E-04	1.43E-04	9.73E-13	5.40E-03	1.45E-02	1.50E-06	1.53E-11	6.24E-06	1.44E-11	1.96E-01

Revised Tank Inventory for Liquid Phase Constituents (U,AN)

		Mass (kg)									
	Chemical	108U	109U	110U	111U	112U	201U	202U	203U	204U	101AN
1.	AG+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.	AL(OH)4-	5.51E+04	5.27E+04	4.62E+03	3.88E+04	3.62E+03	8.29E+02	8.29E+02	4.15E+02	4.15E+02	1.91E+05
3.	AL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4.	AM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.	AS+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.	B+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E+01
7.	BA+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-01
8.	BE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9.	BI+3	8.13E+01	7.79E+01	2.85E+01	4.28E+01	9.24E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.53E+00
10.	CA+2	6.59E+01	5.72E+01	4.70E-01	3.90E+01	1.79E-01	2.07E-02	2.07E-02	1.03E-02	1.03E-02	2.14E+01
11.	CANCRINITE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12.	CD+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13.	CE+3	3.82E-04	9.70E-02	6.16E-03	2.85E+00	3.51E+01	1.85E+00	1.84E+00	1.62E+00	3.70E-01	9.02E-01
14.	CL-	7.23E+03	6.90E+03	3.82E+02	5.60E+03	1.05E+02	5.94E+00	5.94E+00	2.97E+00	2.97E+00	1.31E+04
15.	CN+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16.	CO+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17.	CO3-2	3.54E+04	3.52E+04	1.55E+03	2.22E+04	2.77E+02	3.19E+01	3.19E+01	1.60E+01	1.60E+01	5.08E+04
18.	CR(OH)4-	3.49E+03	3.31E+03	4.38E+01	2.54E+03	1.01E+02	7.75E-01	7.75E-01	3.87E-01	3.87E-01	1.39E+03
19.	CR+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20.	CS+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21.	CS-137	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22.	CU+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E+00
23.	F-	3.77E+03	3.62E+03	5.70E+03	3.42E+03	1.33E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E+03
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25.	FE+3	1.97E+02	9.88E+01	2.65E+01	9.22E+01	1.15E+01	9.67E-01	9.67E-01	4.83E-01	4.83E-01	3.18E+01
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28.	H2O	6.31E+06	5.21E+06	1.02E+06	4.53E+06	4.57E+05	8.28E+04	8.28E+04	4.23E+04	3.46E+04	3.48E+06
29.	HG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30.	I-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31.	K+	1.56E+03	1.48E+03	0.00E+00	1.17E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E+03
32.	LA+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.29E-04
33.	LI+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34.	MG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35.	MN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36.	MN+4	1.03E+02	9.87E+01	0.00E+00	7.80E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E+00
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38.	MO+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E+01
39.	NA+	7.93E+05	7.77E+05	1.16E+05	5.65E+05	3.20E+04	2.20E+03	2.20E+03	1.10E+03	1.10E+03	4.41E+05
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41.	NI+3	4.10E+01	3.01E+01	5.33E-01	2.34E+01	2.40E-01	2.99E-02	2.99E-02	1.49E-02	1.49E-02	1.08E+01
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43.	NO2-	1.55E+05	1.53E+05	5.12E+03	1.22E+05	2.15E+03	9.34E+02	9.34E+02	4.67E+02	4.67E+02	3.02E+05
44.	NO3-	1.16E+06	1.10E+06	5.04E+04	7.77E+05	1.72E+04	1.64E+03	1.64E+03	8.19E+02	8.19E+02	2.47E+05
45.	NP+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46.	OH-	1.89E+05	1.95E+05	4.78E+04	1.45E+05	1.24E+04	5.91E+02	5.91E+02	3.46E+02	3.34E+02	1.02E+05
47.	P2O5:24WO2:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48.	PB+4	2.34E-01	2.23E-01	0.00E+00	1.78E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E+01
49.	PO4-3	1.48E+04	1.59E+04	2.89E+04	1.26E+04	7.82E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E+03
50.	PU-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52.	RE+7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53.	RH+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54.	RU+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55.	SB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56.	SE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57.	SI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E+01
58.	SM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60.	SO4-2	1.35E+04	1.54E+04	2.38E+03	9.42E+03	2.04E+02	1.80E+00	1.80E+00	8.99E-01	8.99E-01	1.15E+04
61.	SR+2	2.13E-01	2.08E-01	0.00E+00	0.00E+00	5.20E-02	3.46E-02	3.46E-02	1.73E-02	1.73E-02	2.19E-02
62.	TCO4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63.	TE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64.	TH+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65.	TI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66.	TL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67.	TOC	9.66E+03	9.26E+03	0.00E+00	7.66E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.24E+03
68.	UO2+2	6.36E+02	1.68E+03	5.17E+02	9.31E+01	6.58E+01	4.00E+01	4.00E+01	2.00E+01	3.11E-01	1.39E+02
69.	V+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70.	W+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E+02
71.	ZN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E+00
72.	ZR+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-01
73.	ZRO2:2H2O	0.00E+00	0.00E+00	3.87E+01	3.85E+00	1.03E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E+00
	Total	8.76E+06	8.58E+06	1.28E+06	6.24E+06	5.35E+05	8.92E+04	8.92E+04	4.54E+04	3.72E+04	4.87E+06
	Diluted Vol (ML)	6895.7	6756.5	1008.7	4913.0	458.9	84.0	84.0	42.9	35.2	3834.8
74.	C14 (Ci)	1.84E-03	5.70E-01	3.93E-02	3.49E-01	3.02E+00	4.89E-01	5.06E-01	4.45E-01	1.17E-01	1.12E+01
75.	Sr90 (Ci)	3.59E+02	6.38E+00	2.23E+03	2.87E+02	1.97E+01	1.25E-01	1.15E-01	1.06E-01	3.31E-02	1.37E+03
76.	Y90 (Ci)	3.59E+02	6.38E+00	2.23E+03	2.87E+02	1.97E+01	1.25E-01	1.15E-01	1.06E-01	3.31E-02	1.37E+03
77.	Tc99 (Ci)	6.16E-03	1.79E+00	9.96E-02	7.55E+00	9.85E+00	1.54E+00	1.61E+00	1.42E+00	3.74E-01	8.42E+01
78.	Cs137 (Ci)	1.61E+01	5.01E+03	2.60E+02	5.45E+03	2.37E+04	3.73E+03	3.92E+03	3.46E+03	9.16E+02	1.81E+05
79.	Ba137 (Ci)	1.53E+01	4.76E+03	2.47E+02	5.18E+03	2.25E+04	3.55E+03	3.72E+03	3.28E+03	8.70E+02	1.72E+05
80.	U235 (Ci)	4.37E-02	4.36E-04	5.89E-02	1.19E-02	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-03
81.	U238 (Ci)	7.93E-01	1.01E-02	1.37E+00	2.77E-01	3.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.59E-02
82.	Np237 (Ci)	1.31E-05	1.34E-03	2.27E-04	5.28E-03	1.44E-02	2.27E-03	2.39E-03	2.08E-03	5.55E-04	2.63E-03
83.	Pu238 (Ci)	6.94E-03	7.16E-04	6.71E-01	2.76E-03	1.28E-03	4.46E-05	5.94E-05	5.23E-05	1.78E-05	3.86E-02
84.	Pu239 (Ci)	1.98E-01	9.53E-04	3.49E+00	3.82E-02	4.24E-03	1.42E-12	2.05E-12	1.84E-12	4.86E-13	1.47E+00
85.	Pu240 (Ci)	5.72E-02	1.98E-04	6.94E-01	7.61E-03	8.46E-04	7.08E-08	9.22E-08	8.11E-08	2.72E-08	3.24E-01
86.	Pu241 (Ci)	5.12E-01	8.82E-04	3.36E+00	3.14E-02	3.48E-03	1.11E-10	1.57E-10	1.38E-10	4.98E-11	2.21E+00
87.	Am241 (Ci)	4.97E-01	1.71E-02	5.73E+00	2.82E+00	2.92E-02	8.51E-06	7.79E-06	7.22E-06	2.24E-06	4.47E+00
88.	Cm244 (Ci)	4.09E-08	1.48E-05	6.62E-07	5.04E-04	2.60E-05	4.77E-06	6.22E-06	5.48E-06	1.87E-06	1.51E-03

Revised Tank Inventory for Solid Phase Constituents (U,AN)

		Mass (kg)										
	Chemical	108U	109U	110U	111U	112U	201U	202U	203U	204U	101AN
1.	AG+	2.36E-10	5.82E-08	3.82E-09	6.11E-08	3.99E-07	6.09E-08	6.38E-08	5.61E-08	1.46E-08	0.00E+00
2.	AL(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.	AL+3	1.68E+04	1.58E+04	1.51E+04	8.51E+03	1.20E+04	2.71E+03	2.71E+03	1.35E+03	1.35E+03	0.00E+00
4.	AM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.	AS+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.	B+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.	BA+2	8.90E-01	5.07E-01	6.77E-01	1.57E+00	1.22E+00	1.74E-01	1.84E-01	1.62E-01	4.23E-02	0.00E+00
8.	BE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9.	BI+3	8.21E-01	7.87E-01	2.92E+03	2.32E+02	9.15E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10.	CA+2	4.55E+02	4.82E+02	5.97E+02	1.54E+02	2.28E+02	2.63E+01	2.63E+01	1.32E+01	1.32E+01	0.00E+00
11.	CANCRINITE	1.21E+04	1.47E+04	1.47E+04	1.01E+04	5.20E+03	5.14E+02	5.14E+02	2.57E+02	0.00E+00	0.00E+00
12.	CD+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13.	CE+3	3.78E-02	9.61E+00	6.10E-01	2.82E+02	3.48E+03	1.83E+02	1.82E+02	1.80E+02	3.67E+01	0.00E+00
14.	CL-	2.79E+02	2.67E+02	2.01E+01	2.17E+02	5.54E+00	3.13E-01	3.13E-01	1.56E-01	1.56E-01	0.00E+00
15.	CM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16.	CO+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17.	CO3-2	4.38E+02	6.36E+02	1.72E+02	2.42E+02	3.07E+01	3.55E+00	3.55E+00	1.77E+00	1.77E+00	0.00E+00
18.	CR(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19.	CR+3	2.52E+01	2.88E+01	8.54E+01	3.60E+02	2.00E+02	1.53E+00	1.53E+00	7.64E-01	7.64E-01	0.00E+00
20.	CS+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21.	CS-137	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22.	CU+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23.	F-	3.81E+01	3.65E+01	3.00E+02	5.68E+01	7.01E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25.	FE+3	1.79E+03	1.04E+03	2.62E+03	5.42E+02	1.14E+03	9.57E+01	9.57E+01	4.79E+01	4.79E+01	0.00E+00
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28.	H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29.	HG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30.	I-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31.	K+	1.57E+01	1.50E+01	0.00E+00	1.19E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32.	LA+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33.	LI+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34.	MG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35.	MN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36.	MN+4	2.04E+03	1.94E+03	0.00E+00	1.54E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38.	MO+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39.	NA+	3.50E+03	4.05E+03	4.84E+03	2.87E+03	1.36E+03	9.18E+01	9.18E+01	4.59E+01	4.59E+01	0.00E+00
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41.	NI+3	6.56E+02	5.75E+02	6.40E+02	1.78E+02	2.89E+02	3.59E+01	3.59E+01	1.79E+01	1.79E+01	0.00E+00
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43.	NO2-	1.57E+03	1.55E+03	5.17E+01	1.23E+03	2.18E+01	9.43E+00	9.43E+00	4.72E+00	4.72E+00	0.00E+00
44.	NO3-	1.17E+04	1.11E+04	5.09E+02	7.85E+03	1.74E+02	1.65E+01	1.65E+01	8.27E+00	8.27E+00	0.00E+00
45.	NP+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46.	OH-	3.34E+04	3.19E+04	1.32E+04	1.43E+04	2.04E+04	5.46E+03	5.46E+03	2.76E+03	2.66E+03	0.00E+00
47.	P2O5:24WO2:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48.	PB+4	2.36E-03	2.25E-03	0.00E+00	1.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49.	PO4-3	5.18E+02	3.10E+03	4.34E+04	4.19E+03	1.17E+04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
50.	PU-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52.	RE+7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53.	RH+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54.	RU+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55.	SB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56.	SE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57.	SI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58.	SM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60.	SO4-2	1.40E+02	1.86E+02	4.85E+01	9.63E+01	4.16E+00	3.67E-02	3.67E-02	1.84E-02	1.84E-02	0.00E+00
61.	SR+2	2.11E+01	2.06E+01	0.00E+00	0.00E+00	5.14E+00	3.42E+00	3.42E+00	1.71E+00	1.71E+00	0.00E+00
62.	TCO4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63.	TE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64.	TH+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65.	TI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66.	TL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67.	TOC	9.76E+01	9.35E+01	0.00E+00	7.74E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
68.	UO2+2	9.97E+03	3.01E+04	9.83E+03	1.82E+02	1.25E+03	7.60E+02	7.60E+02	3.80E+02	5.91E+00	0.00E+00
69.	V+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70.	W+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71.	ZN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72.	ZR+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73.	ZRO2:2H2O	0.00E+00	0.00E+00	3.83E+03	3.81E+02	1.02E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total	9.56E+04	1.17E+05	1.13E+05	5.36E+04	5.95E+04	9.91E+03	9.91E+03	5.05E+03	4.19E+03	0.00E+00
	Vol (ML) spg=3	31.9	39.1	37.6	17.9	19.8	3.3	3.3	1.7	1.4	0.0
74.	C14 (Ci)	1.86E-05	5.76E-03	3.97E-04	3.53E-03	3.05E-02	4.94E-03	5.11E-03	4.50E-03	1.18E-03	0.00E+00
75.	Sr90 (Ci)	3.56E+04	6.32E+02	2.21E+05	2.84E+04	1.95E+03	1.24E+01	1.14E+01	1.05E+01	3.28E+00	0.00E+00
76.	Y90 (Ci)	3.56E+04	6.32E+02	2.21E+05	2.84E+04	1.95E+03	1.24E+01	1.14E+01	1.05E+01	3.28E+00	0.00E+00
77.	Tc99 (Ci)	6.16E-03	1.79E+00	9.96E-02	7.55E+00	9.85E+00	1.54E+00	1.61E+00	1.42E+00	3.74E-01	0.00E+00
78.	Cs137 (Ci)	5.38E+00	1.67E+03	8.66E+01	1.82E+03	7.89E+03	1.24E+03	1.31E+03	1.15E+03	3.05E+02	0.00E+00
79.	Ba137 (Ci)	5.11E+00	1.59E+03	8.23E+01	1.73E+03	7.49E+03	1.18E+03	1.24E+03	1.09E+03	2.90E+02	0.00E+00
80.	U235 (Ci)	6.52E-03	4.84E-04	1.12E+00	1.64E-04	2.89E-03	1.25E-10	2.51E-18	2.24E-18	5.71E-19	0.00E+00
81.	U238 (Ci)	1.18E-01	1.12E-02	2.60E+01	3.80E-03	6.56E-02	2.48E-09	2.22E-23	2.06E-23	9.12E-24	0.00E+00
82.	Np237 (Ci)	1.18E-04	1.20E-02	2.04E-03	4.75E-02	1.30E-01	2.04E-02	2.15E-02	1.88E-02	5.00E-03	0.00E+00
83.	Pu238 (Ci)	3.40E-01	3.51E-02	3.29E+01	1.35E-01	6.25E-02	2.19E-03	2.91E-03	2.56E-03	8.72E-04	0.00E+00
84.	Pu239 (Ci)	9.68E+00	4.67E-02	1.71E+02	1.87E+00	2.08E-01	6.94E-11	1.00E-10	9.02E-11	2.38E-11	0.00E+00
85.	Pu240 (Ci)	2.80E+00	9.71E-03	3.40E+01	3.73E-01	4.15E-02	3.47E-06	4.52E-06	3.97E-06	1.33E-06	0.00E+00
86.	Pu241 (Ci)	2.51E+01	4.32E-02	1.65E+02	1.54E+00	1.71E-01	5.45E-09	7.68E-09	6.75E-09	2.44E-09	0.00E+00
87.	Am241 (Ci)	4.48E+00	1.54E-01	5.15E+01	2.54E+01	2.63E-01	7.66E-05	7.01E-05	6.50E-05	2.02E-05	0.00E+00
88.	Cm244 (Ci)	4.05E-06	1.47E-03	6.55E-05	4.99E-02	2.57E-03	4.73E-04	6.16E-04	5.42E-04	1.85E-04	0.00E+00

Revised Tank Inventory for Liquid Phase Constituents (AN,AP)

		Mass (kg)									
	Chemical	102AN	103AN	104AN	105AN	106AN	107AN	101AP	102AP	103AP	104AP
1.	AG+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E+01	0.00E+00	4.30E-01	0.00E+00	0.00E+00	8.09E-03
2.	AL(OH)4-	1.97E+05	7.33E+05	3.99E+05	7.09E+05	6.33E+04	1.48E+04	1.36E+05	1.70E+05	8.88E+01	3.61E+03
3.	AL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4.	AM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.	AS+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E+01	0.00E+00	2.81E+00	3.69E-01	4.95E-03	8.09E-04
6.	B+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E+01	0.00E+00	0.00E+00	1.80E+01
7.	BA+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E+01	0.00E+00	2.02E+00	1.18E+00	0.00E+00	4.04E-02
8.	BE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-05	5.07E-01	0.00E+00	0.00E+00
9.	BI+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E+01	0.00E+00	1.38E+01	0.00E+00	0.00E+00	2.42E-01
10.	CA+2	1.66E+03	3.13E+02	0.00E+00	0.00E+00	3.97E+02	1.92E+03	2.20E+02	0.00E+00	0.00E+00	4.75E+00
11.	CANCRINITE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12.	CD+2	0.00E+00	5.79E+01	0.00E+00	0.00E+00	1.63E+01	0.00E+00	6.10E+00	6.11E+00	1.13E-02	1.62E-02
13.	CE+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E+00	0.00E+00	1.65E+00	0.00E+00	0.00E+00	0.00E+00
14.	CL-	1.47E+04	3.47E+04	2.27E+04	3.65E+04	5.80E+03	1.08E+04	8.36E+03	1.21E+04	5.06E+00	3.26E+02
15.	CM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16.	CO+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17.	CO3-2	2.53E+05	3.24E+04	8.56E+04	9.35E+04	5.58E+04	2.62E+05	7.49E+04	1.11E+05	2.63E+02	8.32E-02
18.	CR(OH)4-	2.48E+03	7.08E+03	4.71E+03	6.70E+03	1.18E+03	1.37E+03	1.95E+03	5.93E+03	1.04E+00	3.63E+01
19.	CR+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20.	CS+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21.	CS-137	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22.	CU+2	0.00E+00	4.34E+01	0.00E+00	0.00E+00	3.26E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-02
23.	F-	7.86E+03	2.66E+03	0.00E+00	0.00E+00	3.99E+04	0.00E+00	6.07E+03	0.00E+00	1.32E+01	1.22E+03
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25.	FE+3	0.00E+00	2.55E+02	3.37E+01	4.79E+01	4.41E+02	5.24E+03	6.74E+01	1.58E+01	1.26E-01	1.86E-01
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28.	H2O	7.90E+06	9.92E+06	6.74E+06	9.32E+06	4.07E+06	5.47E+06	5.00E+06	3.35E+06	4.15E+03	2.29E+05
29.	HG+2	0.00E+00	5.79E+01	0.00E+00	0.00E+00	7.92E-02	0.00E+00	0.00E+00	0.00E+00	5.11E-04	0.00E+00
30.	I-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31.	K+	1.47E+04	5.50E+04	2.16E+04	2.63E+04	7.19E+03	7.41E+03	9.65E+04	5.37E+03	1.55E+02	3.91E+03
32.	LA+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E+02	0.00E+00	1.70E-03	0.00E+00	0.00E+00	0.00E+00
33.	LI+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34.	MG+2	0.00E+00	1.04E+02	0.00E+00	0.00E+00	1.15E+02	0.00E+00	2.83E+01	0.00E+00	1.22E-01	1.29E-01
35.	MN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36.	MN+4	0.00E+00	1.04E+02	0.00E+00	0.00E+00	4.13E+01	1.75E+03	9.90E+00	0.00E+00	4.40E-03	9.74E-03
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38.	MO+6	0.00E+00	3.18E+02	0.00E+00	0.00E+00	5.80E+00	0.00E+00	7.85E-02	0.00E+00	0.00E+00	4.04E-01
39.	NA+	9.69E+05	1.22E+06	8.34E+05	1.18E+06	5.02E+05	6.95E+05	6.38E+05	4.24E+05	5.43E+02	2.89E+04
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41.	NI+3	1.32E+03	8.68E+01	0.00E+00	0.00E+00	1.21E+02	1.57E+03	4.09E+01	1.11E+02	0.00E+00	1.62E-02
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43.	NO2-	8.33E+05	5.79E+05	5.81E+05	8.30E+05	3.51E+05	8.28E+05	5.30E+05	3.25E+05	4.13E+02	3.80E+04
44.	NO3-	3.15E+05	4.99E+05	2.67E+05	5.15E+05	2.73E+05	1.72E+05	3.34E+05	1.58E+05	1.33E+02	5.21E+03
45.	NP+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46.	OH-	1.54E+04	3.83E+03	2.10E+05	2.66E+05	9.35E+04	1.19E+03	1.94E+03	3.81E+04	1.73E+02	5.61E+03
47.	P2O5:24WO2:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48.	PB+4	0.00E+00	2.61E+02	0.00E+00	0.00E+00	7.39E+01	1.15E+03	2.09E+01	1.37E+01	0.00E+00	3.23E-01
49.	PO4-3	1.86E+04	3.36E+03	8.43E+03	8.15E+03	1.11E+04	1.85E+03	4.35E+03	4.83E+04	1.42E+01	1.99E+03
50.	PU-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52.	RE+7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53.	RH+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54.	RU+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55.	SB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56.	SE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-02	0.00E+00	4.36E-01	1.53E-03	0.00E+00	0.00E+00
57.	SI+4	0.00E+00	9.84E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E+02	0.00E+00	0.00E+00	2.15E+02
58.	SM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-01
60.	SO4-2	5.42E+04	5.79E+03	1.98E+04	2.81E+04	3.74E+04	4.79E+04	1.04E+04	1.88E+04	3.58E+01	9.74E+02
61.	SR+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.01E-02	0.00E+00	4.00E-02	0.00E+00	0.00E+00	0.00E+00
62.	TCO4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63.	TE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64.	TH+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65.	TI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-01	0.00E+00	1.97E-07	0.00E+00	0.00E+00	8.09E-03
66.	TL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67.	TOC	9.89E+04	2.66E+04	1.39E+04	1.67E+04	2.57E+04	1.50E+05	9.90E+03	1.36E+04	1.14E+01	4.20E+02
68.	UO2+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E+02	0.00E+00	2.53E+02	0.00E+00	0.00E+00	0.00E+00
69.	V+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70.	W+6	0.00E+00	7.53E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71.	ZN+2	0.00E+00	1.74E+02	0.00E+00	0.00E+00	4.10E+02	0.00E+00	1.82E+02	0.00E+00	4.51E-02	0.00E+00
72.	ZR+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-01
73.	ZRO2:2H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.12E+00	0.00E+00	8.11E+00	0.00E+00	0.00E+00	0.00E+00
	Total	1.07E+07	1.35E+07	9.21E+06	1.30E+07	5.54E+06	7.68E+06	7.05E+06	4.68E+06	6.00E+03	3.19E+05
	Diluted Vol (ML)	8428.1	10608.7	7252.2	10260.9	4365.2	6043.5	5547.8	3687.0	4.7	251.3
74.	C14 (Ci)	6.89E+01	7.10E+00	0.00E+00	0.00E+00	2.01E+01	0.00E+00	2.07E+01	1.74E+00	4.56E-04	1.00E-04
75.	Sr90 (Ci)	2.97E+05	3.98E+04	2.56E+04	1.19E+04	4.94E+04	2.46E+05	1.68E+03	5.17E+03	2.31E-01	2.18E-03
76.	Y90 (Ci)	2.97E+05	3.98E+04	2.56E+04	1.19E+04	4.94E+04	2.46E+05	1.68E+03	5.17E+03	2.31E-01	2.18E-03
77.	Tc99 (Ci)	1.17E+03	6.04E+02	5.44E+02	7.51E+02	2.63E+02	1.75E+03	2.27E+02	3.57E+02	1.11E-01	4.23E-03
78.	Cs137 (Ci)	9.69E+05	2.31E+06	1.98E+06	1.87E+06	1.23E+05	6.92E+05	6.21E+05	8.24E+03	5.80E+02	4.94E-02
79.	Ba137 (Ci)	9.21E+05	2.20E+06	1.88E+06	1.78E+06	1.17E+05	6.57E+05	5.89E+05	7.83E+03	5.51E+02	4.70E-02
80.	U235 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-03	0.00E+00	7.83E-03	0.00E+00	0.00E+00	0.00E+00
81.	U238 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-01	0.00E+00	1.75E-01	0.00E+00	0.00E+00	0.00E+00
82.	Np237 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-03	0.00E+00	4.83E-03	0.00E+00	0.00E+00	2.72E-07
83.	Pu238 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-02	0.00E+00	1.03E-01	0.00E+00	0.00E+00	0.00E+00
84.	Pu239 (Ci)	2.52E+02	6.75E+00	3.14E+01	4.46E+01	1.58E+01	1.31E+02	2.10E+00	3.12E-01	7.13E-04	2.80E-04
85.	Pu240 (Ci)	6.39E+01	1.04E+00	4.82E+00	6.84E+00	3.97E+00	3.32E+01	5.03E-01	4.79E-02	1.09E-04	4.31E-05
86.	Pu241 (Ci)	1.14E+02	3.06E+00	1.43E+01	2.02E+01	6.08E+00	5.94E+01	3.75E+00	1.42E-01	3.23E-04	1.29E-04
87.	Am241 (Ci)	2.33E+02	8.09E+00	4.58E+00	6.49E+00	8.54E+01	1.29E+03	8.26E+00	1.73E+00	1.15E-03	6.76E-05
88.	Cm244 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-03	0.00E+00	2.77E-03	0.00E+00	0.00E+00	0.00E+00

Revised Tank Inventory for Solid Phase Constituents (AN,AP)

		Mass (kg)									
	Chemical	102AN	103AN	104AN	105AN	106AN	107AN	101AP	102AP	103AP	104AP
1.	AG+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.	AL(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.	AL+3	2.90E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4.	AM+3	3.85E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.	AS+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.	B+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.	BA+2	6.53E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
8.	BE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
9.	BI+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10.	CA+2	2.31E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
11.	CANCRINITE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12.	CD+2	2.43E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
13.	CE+3	1.61E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
14.	CL-	2.58E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
15.	CM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16.	CO+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17.	CO3-2	1.92E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
18.	CR(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19.	CR+3	1.13E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20.	CS+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21.	CS-137	1.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
22.	CU+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
23.	F-	1.58E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25.	FE+3	3.65E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28.	H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29.	HG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30.	I-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31.	K+	7.24E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
32.	LA+3	5.99E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
33.	LI+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34.	MG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
35.	MN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36.	MN+4	1.99E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38.	MO+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39.	NA+	8.51E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41.	NI+3	7.58E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43.	NO2-	2.11E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
44.	NO3-	7.82E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
45.	NP+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46.	OH-	1.24E+04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
47.	P2O5:24WO2:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48.	PB+4	8.25E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
49.	PO4-3	3.12E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
50.	PU-239	6.40E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52.	RE+7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53.	RH+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
54.	RU+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55.	SB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56.	SE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57.	SI+4	1.62E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
58.	SM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60.	SO4-2	3.83E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
61.	SR+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
62.	TCO4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
63.	TE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64.	TH+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
65.	TI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
66.	TL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67.	TOC	1.56E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
68.	UO2+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
69.	V+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70.	W+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71.	ZN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
72.	ZR+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73.	ZRO2:2H2O	3.84E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total	4.30E+04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E+04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Vol (ML) spg=3	14.3	0.0	0.0	0.0	0.0	9.9	0.0	0.0	0.0	0.0
74.	C14 (Ci)	8.72E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
75.	Sr90 (Ci)	2.30E+04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
76.	Y90 (Ci)	2.30E+04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E+04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
77.	Tc99 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
78.	Cs137 (Ci)	1.15E+04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
79.	Ba137 (Ci)	1.09E+04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.34E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
80.	U235 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
81.	U238 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
82.	Np237 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
83.	Pu238 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
84.	Pu239 (Ci)	3.97E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
85.	Pu240 (Ci)	1.01E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
86.	Pu241 (Ci)	3.60E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
87.	Am241 (Ci)	1.32E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.68E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
88.	Cm244 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Revised Tank Inventory for Liquid Phase Constituents (AP,AW)

		Mass (kg)									
	Chemical	105AP	106AP	107AP	108AP	101AW	102AW	103AW	104AW	105AW	106AW
1.	AG+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E+00	0.00E+00	0.00E+00	9.50E+00	0.00E+00
2.	AL(OH)4-	3.49E+04	3.50E+04	3.49E+04	1.61E+03	3.87E+05	6.90E+04	5.21E+03	3.41E+04	6.93E+04	2.39E+04
3.	AL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4.	AM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-01	0.00E+00	0.00E+00	1.27E-01	0.00E+00
5.	AS+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E+00	0.00E+00	0.00E+00	3.35E+00	0.00E+00
6.	B+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E+00	1.11E+01	0.00E+00	3.60E+00	0.00E+00
7.	BA+2	0.00E+00	6.58E-02	0.00E+00	0.00E+00	0.00E+00	2.02E+00	3.03E-01	0.00E+00	2.04E+00	0.00E+00
8.	BE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-02	0.00E+00	0.00E+00	1.63E-02	0.00E+00
9.	BI+3	5.54E+01	5.52E+01	5.54E+01	0.00E+00	0.00E+00	6.15E+00	0.00E+00	5.24E+01	6.15E+00	3.80E+01
10.	CA+2	4.44E+01	4.42E+01	4.44E+01	0.00E+00	1.30E+02	2.83E+01	6.23E+00	4.19E+01	3.35E+01	3.04E+01
11.	CANCRINITE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12.	CD+2	2.42E+00	2.42E+00	0.00E+00	0.00E+00	0.00E+00	5.15E+00	0.00E+00	0.00E+00	5.15E+00	0.00E+00
13.	CE+3	6.64E+00	6.60E+00	6.64E+00	0.00E+00	0.00E+00	3.21E+00	0.00E+00	6.27E+00	3.21E+00	4.55E+00
14.	CL-	4.14E+03	4.14E+03	4.14E+03	0.00E+00	2.04E+04	1.17E+03	7.55E+02	4.10E+03	1.23E+03	2.84E+03
15.	CN+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	1.17E-04	0.00E+00
16.	CO+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-04	0.00E+00	0.00E+00	3.90E-04	0.00E+00
17.	CO3-2	1.92E+04	2.02E+04	1.92E+04	0.00E+00	0.00E+00	9.70E+04	7.29E+02	2.48E+04	9.73E+04	1.32E+04
18.	CR(OH)4-	2.49E+03	2.49E+03	2.49E+03	5.61E+03	1.46E+03	4.06E+03	1.13E+02	2.36E+03	4.07E+03	1.71E+03
19.	CR+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20.	CS+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E+02	0.00E+00	0.00E+00	1.54E+02	0.00E+00
21.	CS-137	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E+01	0.00E+00	0.00E+00	5.35E+01	0.00E+00
22.	CU+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-01	0.00E+00	0.00E+00	8.55E-01	0.00E+00
23.	F-	3.63E+03	3.68E+03	3.63E+03	2.97E+03	0.00E+00	4.80E+03	1.54E+04	3.47E+03	6.31E+03	2.49E+03
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25.	FE+3	1.85E+02	1.87E+02	1.85E+02	0.00E+00	0.00E+00	2.13E+00	8.52E+00	1.75E+02	4.83E+01	1.27E+02
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28.	H2O	3.80E+06	3.80E+06	3.80E+06	1.37E+06	5.92E+06	2.33E+06	6.25E+05	3.80E+06	2.35E+06	2.60E+06
29.	HG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30.	I-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-01	0.00E+00	0.00E+00	2.12E-01	0.00E+00
31.	K+	7.36E+02	1.07E+03	7.36E+02	0.00E+00	1.65E+05	5.90E+02	1.34E+04	5.96E+02	2.23E+03	5.05E+02
32.	LA+3	6.84E-03	6.80E-03	6.84E-03	0.00E+00	0.00E+00	4.67E-01	0.00E+00	6.46E-03	4.67E-01	4.69E-03
33.	LI+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-01	0.00E+00	0.00E+00	3.68E-01	0.00E+00
34.	MG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E+02	4.66E+00	3.71E-01	0.00E+00	1.11E+01	0.00E+00
35.	MN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E+00	0.00E+00	0.00E+00	2.16E+00	0.00E+00
36.	MN+4	3.99E+01	3.97E+01	3.99E+01	0.00E+00	1.03E+02	0.00E+00	0.00E+00	3.77E+01	0.00E+00	2.74E+01
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38.	MO+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E+02	1.01E+01	1.40E+00	0.00E+00	1.29E+01	0.00E+00
39.	NA+	4.80E+05	4.80E+05	4.80E+05	1.58E+05	9.06E+05	2.86E+05	4.17E+04	4.80E+05	2.91E+05	3.29E+05
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41.	NI+3	2.88E+01	2.88E+01	2.88E+01	0.00E+00	0.00E+00	1.34E+01	1.60E+00	2.72E+01	1.34E+01	1.97E+01
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43.	NO2-	7.69E+04	7.82E+04	7.69E+04	7.04E+04	8.43E+05	1.48E+05	3.23E+04	1.07E+05	1.66E+05	5.27E+04
44.	NO3-	7.45E+05	7.42E+05	7.45E+05	8.17E+04	4.02E+05	1.56E+05	5.94E+03	7.11E+05	1.56E+05	5.11E+05
45.	NP+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46.	OH-	1.05E+05	1.05E+05	1.05E+05	5.55E+03	3.40E+05	2.14E+04	9.27E+03	9.96E+04	2.33E+04	7.22E+04
47.	P2O5:24WO2:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48.	PB+4	1.67E+01	1.66E+01	1.67E+01	0.00E+00	1.19E+03	1.91E+01	0.00E+00	1.58E+01	1.91E+01	1.15E+01
49.	PO4-3	1.19E+04	1.19E+04	1.19E+04	0.00E+00	8.31E+03	6.90E+02	6.74E+02	1.12E+04	9.16E+02	8.13E+03
50.	PU-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E+00	0.00E+00	0.00E+00	1.30E+00	0.00E+00
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52.	RE+7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-01	0.00E+00	0.00E+00	2.20E-01	0.00E+00
53.	RH+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E+00	0.00E+00	0.00E+00	2.17E+00	0.00E+00
54.	RU+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-01	0.00E+00	0.00E+00	7.25E-01	0.00E+00
55.	SB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E+00	0.00E+00	0.00E+00	1.03E+00	0.00E+00
56.	SE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-01	3.61E+00	0.00E+00	0.00E+00	3.61E+00	0.00E+00
57.	SI+4	0.00E+00	0.00E+00	0.00E+00	1.58E+03	0.00E+00	1.51E+03	2.67E+02	0.00E+00	1.51E+03	0.00E+00
58.	SM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60.	SO4-2	1.13E+04	1.13E+04	1.13E+04	5.11E+04	4.06E+03	2.98E+04	7.32E+02	1.16E+04	3.01E+04	7.75E+03
61.	SR+2	1.61E-01	1.60E-01	1.61E-01	0.00E+00	0.00E+00	4.49E+00	0.00E+00	1.52E-01	4.49E+00	1.11E-01
62.	TCO4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E+01	0.00E+00	0.00E+00	4.92E+01	0.00E+00
63.	TE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E+00	0.00E+00	0.00E+00	2.50E+00	0.00E+00
64.	TH+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E+00	0.00E+00	0.00E+00	1.67E+00	0.00E+00
65.	TI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E+01	7.15E-01	0.00E+00	0.00E+00	7.15E-01	0.00E+00
66.	TL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E+01	0.00E+00	0.00E+00	2.09E+01	0.00E+00
67.	TOC	5.34E+03	5.52E+03	5.34E+03	0.00E+00	9.69E+03	6.55E+03	1.32E+03	6.50E+03	6.94E+03	3.66E+03
68.	UO2+2	1.02E+03	1.01E+03	1.02E+03	0.00E+00	0.00E+00	3.42E+03	0.00E+00	9.64E+02	3.42E+03	6.99E+02
69.	V+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-01	0.00E+00	0.00E+00	1.98E-01	0.00E+00
70.	W+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71.	ZN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E+03	1.74E-01	2.49E+00	0.00E+00	1.74E-01	0.00E+00
72.	ZR+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E+02	4.58E+01	0.00E+00	0.00E+00	4.58E+01	0.00E+00
73.	ZNO2:2H2O	3.27E+01	3.25E+01	3.27E+01	0.00E+00	0.00E+00	8.10E-01	0.00E+00	3.09E+01	8.10E-01	2.24E+01
	Total	5.30E+06	5.30E+06	5.30E+06	1.74E+06	1.00E+07	3.18E+06	6.38E+06	5.30E+06	3.21E+06	3.53E+06
	Diluted Vol (ML)	4173.9	4173.9	4173.9	1373.9	7878.3	2487.0	6283.3	4173.9	2530.4	2860.9
74.	C14 (Ci)	8.06E+01	8.02E+01	8.06E+01	0.00E+00	1.45E+00	3.57E-02	0.00E+00	7.66E+01	3.57E-02	5.53E+01
75.	Sr90 (Ci)	4.53E+03	4.51E+03	4.53E+03	5.21E+03	3.39E+03	1.04E+00	1.09E+00	5.40E+03	1.04E+00	3.11E+03
76.	Y90 (Ci)	4.53E+03	4.51E+03	4.53E+03	5.21E+03	3.39E+03	0.00E+00	1.09E+00	5.40E+03	0.00E+00	3.11E+03
77.	Tc99 (Ci)	4.51E+01	5.04E+01	4.51E+01	0.00E+00	5.94E+02	0.00E+00	0.00E+00	1.57E+02	0.00E+00	3.09E+01
78.	Cs137 (Ci)	4.19E+04	4.33E+04	4.19E+04	3.07E+06	1.58E+06	0.00E+00	4.39E+04	2.96E+05	7.82E+03	2.87E+04
79.	Ba137 (Ci)	3.98E+04	4.12E+04	3.98E+04	2.92E+06	1.50E+06	0.00E+00	4.16E+04	2.81E+05	7.42E+03	2.73E+04
80.	U235 (Ci)	3.15E-02	3.14E-02	3.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-02	0.00E+00	2.16E-02
81.	U238 (Ci)	7.06E-01	7.02E-01	7.06E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-01	0.00E+00	4.84E-01
82.	Np237 (Ci)	1.93E-02	1.92E-02	1.93E-02	0.00E+00	0.00E+00	0.00E+00	1.68E-01	1.83E-02	2.80E-03	1.33E-02
83.	Pu238 (Ci)	2.84E-01	2.83E-01	2.84E-01	0.00E+00	0.00E+00	0.00E+00	6.26E+01	2.69E-01	2.57E+00	1.95E-01
84.	Pu239 (Ci)	6.47E+00	6.50E+00	6.47E+00	0.00E+00	6.05E+00	0.00E+00	1.40E-01	6.99E+00	0.00E+00	4.44E+00
85.	Pu240 (Ci)	1.72E+00	1.72E+00	1.72E+00	0.00E+00	9.29E-01	0.00E+00	5.04E-02	1.76E+00	0.00E+00	1.18E+00
86.	Pu241 (Ci)	1.43E+01	1.43E+01	1.43E+01	0.00E+00	2.74E+00	0.00E+00	1.24E+00	1.39E+01	0.00E+00	9.81E+00
87.	Am241 (Ci)	2.82E+01	2.81E+01	2.82E+01	0.00E+00	6.36E+00	0.00E+00	8.33E-07	2.76E+01	0.00E+00	1.93E+01
88.	Cm244 (Ci)	1.11E-02	1.11E-02	1.11E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-02	0.00E+00	7.64E-03

Revised Tank Inventory for Solid Phase Constituents (AP,AW)

		Mass (kg)									
	Chemical	105AP	106AP	107AP	108AP	101AW	102AW	103AW	104AW	105AW	106AW
1.	AG+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E+02	0.00E+00	0.00E+00	0.00E+00
2.	AL(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.	AL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E+03	0.00E+00	2.95E+04	0.00E+00	2.73E+03	0.00E+00
4.	AM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-02	0.00E+00	3.35E+00	0.00E+00	5.07E-02	0.00E+00
5.	AS+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E+00	0.00E+00	0.00E+00	0.00E+00
6.	B+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.	BA+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E+02	0.00E+00	8.00E-01	0.00E+00
8.	BE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E+00	0.00E+00	0.00E+00	0.00E+00
9.	BI+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10.	CA+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E+02	0.00E+00	5.51E+03	0.00E+00	3.23E+02	0.00E+00
11.	CANCRINITE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12.	CD+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E+02	0.00E+00	0.00E+00	0.00E+00
13.	CE+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
14.	CL-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E+01	0.00E+00	2.38E+01	0.00E+00	1.80E+01	0.00E+00
15.	CM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	0.00E+00
16.	CO+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17.	CO3-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E+02	0.00E+00	1.42E+04	0.00E+00	3.00E+03	0.00E+00
18.	CR(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19.	CR+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E+03	0.00E+00	3.72E+02	0.00E+00
20.	CS+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
21.	CS-137	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E+00	0.00E+00	4.87E-01	0.00E+00	1.27E+00	0.00E+00
22.	CU+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E+02	0.00E+00	0.00E+00	0.00E+00
23.	F-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E+04	0.00E+00	9.11E+03	0.00E+00	8.96E+03	0.00E+00
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25.	FE+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E+04	0.00E+00	5.20E+02	0.00E+00
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28.	H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29.	HG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30.	I-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
31.	K+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E+03	0.00E+00	1.28E+04	0.00E+00	1.06E+04	0.00E+00
32.	LA+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.53E+02	0.00E+00	4.50E+02	0.00E+00
33.	LI+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
34.	MG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E+02	0.00E+00	0.00E+00	0.00E+00
35.	MN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
36.	MN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E+02	0.00E+00	0.00E+00	0.00E+00
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E+03	0.00E+00	0.00E+00	0.00E+00
38.	MO+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E+01	0.00E+00	0.00E+00	0.00E+00
39.	NA+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E+04	0.00E+00	5.75E+04	0.00E+00
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41.	NI+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E+02	0.00E+00	7.00E+01	0.00E+00
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43.	NO2-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E+01	0.00E+00	3.87E+02	0.00E+00	5.70E+02	0.00E+00
44.	NO3-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E+03	0.00E+00	4.60E+03	0.00E+00	3.96E+03	0.00E+00
45.	NP+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46.	OH-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-01	0.00E+00	1.76E+05	0.00E+00	5.36E+04	0.00E+00
47.	P2O5:24WO2:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48.	PB+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E+03	0.00E+00	0.00E+00	0.00E+00
49.	PO4-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E+03	0.00E+00	4.00E+02	0.00E+00
50.	PU-239	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-01	0.00E+00	4.63E+01	0.00E+00	6.77E+00	0.00E+00
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52.	RE+7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
53.	RH+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E+02	0.00E+00	0.00E+00	0.00E+00
54.	RU+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
55.	SB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
56.	SE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E+03	0.00E+00
57.	SI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E+04	0.00E+00	2.82E+03	0.00E+00
58.	SM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60.	SO4-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E+01	0.00E+00	1.25E+03	0.00E+00
61.	SR+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E+01	0.00E+00	4.00E-01	0.00E+00
62.	TCO4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E+00	0.00E+00	0.00E+00	0.00E+00
63.	TE+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
64.	TH+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E+03	0.00E+00	0.00E+00	0.00E+00
65.	TI+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E+02	0.00E+00	0.00E+00	0.00E+00
66.	TL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
67.	TOC	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E+03	0.00E+00	4.60E+03	0.00E+00
68.	UO2+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E+04	0.00E+00	1.01E+04	0.00E+00
69.	V+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
70.	W+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71.	ZN+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E+02	0.00E+00	0.00E+00	0.00E+00
72.	ZR+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
73.	ZRO2:2H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E+04	0.00E+00	2.79E+05	0.00E+00	1.73E+05	0.00E+00
	Total	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E+04	0.00E+00	7.09E+05	0.00E+00	3.38E+05	0.00E+00
	Vol (ML) spg=3	0.0	0.0	0.0	0.0	23.3	0.0	236.3	0.0	112.6	0.0
74.	C14 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-01	0.00E+00	0.00E+00	0.00E+00
75.	Sr90 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E+04	0.00E+00	1.95E+04	0.00E+00
76.	Y90 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E+04	0.00E+00	1.95E+04	0.00E+00
77.	Tc99 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
78.	Cs137 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E+04	0.00E+00	1.10E+05	0.00E+00
79.	Ba137 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E+04	0.00E+00	1.05E+05	0.00E+00
80.	U235 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
81.	U238 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
82.	Np237 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-01	0.00E+00	1.99E-02	0.00E+00
83.	Pu238 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E+03	0.00E+00	1.82E+01	0.00E+00
84.	Pu239 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E+03	0.00E+00	4.19E+02	0.00E+00
85.	Pu240 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E+02	0.00E+00	1.19E+02	0.00E+00
86.	Pu241 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E+04	0.00E+00	3.53E+03	0.00E+00
87.	Am241 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E+04	0.00E+00	1.74E+02	0.00E+00
88.	Cm244 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Revised Tank Inventory for Liquid Phase Constituents (AY,AZ,SY)

	Chemical	Mass (kg)						
		101AY	102AY	101AZ	102AZ	101SY	102SY	103SY
1.	AG+	0.00E+00	8.18E+00	8.23E-01	1.68E+00	0.00E+00	0.00E+00	0.00E+00
2.	AL(OH)4-	9.44E+04	1.98E+01	2.10E+02	1.11E+03	6.52E+05	0.00E+00	4.98E+05
3.	AL+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
4.	AM+3	0.00E+00	8.33E-04	5.44E-04	1.97E-03	0.00E+00	0.00E+00	0.00E+00
5.	AS+5	0.00E+00	0.00E+00	8.36E-03	7.72E-02	0.00E+00	0.00E+00	0.00E+00
6.	B+3	0.00E+00	9.34E-01	1.77E-01	2.82E-01	0.00E+00	0.00E+00	0.00E+00
7.	BA+2	6.48E+00	1.12E+00	1.57E-01	2.47E-01	0.00E+00	0.00E+00	2.93E+01
8.	BE+2	0.00E+00	0.00E+00	2.32E-05	3.07E-04	0.00E+00	0.00E+00	0.00E+00
9.	BI+3	0.00E+00	2.84E+00	5.28E-01	6.47E-01	0.00E+00	0.00E+00	0.00E+00
10.	CA+2	2.35E+02	1.18E+01	1.90E+00	2.79E+00	3.68E+03	0.00E+00	5.65E+02
11.	CANCRINITE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12.	CD+2	0.00E+00	2.33E+00	4.25E-01	5.35E-01	0.00E+00	0.00E+00	0.00E+00
13.	CE+3	0.00E+00	0.00E+00	7.91E-03	7.44E-02	0.00E+00	0.00E+00	0.00E+00
14.	CL-	9.36E+02	7.70E+02	7.63E+01	1.62E+02	4.82E+04	0.00E+00	2.28E+04
15.	CM+3	0.00E+00	4.91E-08	3.72E-07	1.67E-06	0.00E+00	0.00E+00	0.00E+00
16.	CO+3	0.00E+00	0.00E+00	1.20E-06	5.80E-06	0.00E+00	0.00E+00	0.00E+00
17.	CO3-2	9.53E+04	0.00E+00	2.55E+02	2.05E+03	0.00E+00	0.00E+00	6.97E+04
18.	CR(OH)4-	3.71E+03	4.30E+01	1.28E+01	1.20E+02	2.72E+03	0.00E+00	3.56E+04
19.	CR+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
20.	CS+	0.00E+00	6.44E-01	5.36E-01	3.07E+00	0.00E+00	0.00E+00	0.00E+00
21.	CS-137	0.00E+00	1.51E-01	1.73E-01	1.05E+00	0.00E+00	0.00E+00	0.00E+00
22.	CU+2	0.00E+00	2.81E-01	5.26E-02	6.97E-02	0.00E+00	0.00E+00	0.00E+00
23.	F-	4.77E+03	1.85E+02	3.07E+01	1.27E+02	6.95E+02	0.00E+00	4.83E+03
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25.	FE+3	1.13E+01	3.42E-01	3.73E-02	1.17E-01	1.43E+02	0.00E+00	4.03E+03
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28.	H2O	8.16E+06	2.35E+06	5.71E+05	3.31E+06	9.85E+06	0.00E+00	7.00E+06
29.	HG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30.	I-	0.00E+00	0.00E+00	6.19E-04	3.62E-03	0.00E+00	0.00E+00	0.00E+00
31.	K+	1.03E+04	8.05E+01	1.18E+01	2.57E+01	1.90E+04	0.00E+00	1.07E+04
32.	LA+3	6.94E+01	4.84E-02	5.69E-03	2.04E-02	0.00E+00	0.00E+00	0.00E+00
33.	LI+	0.00E+00	0.00E+00	1.00E-03	7.33E-03	0.00E+00	0.00E+00	0.00E+00
34.	MG+2	1.50E+01	2.05E+00	3.81E-01	4.74E-01	0.00E+00	0.00E+00	0.00E+00
35.	MN+2	0.00E+00	9.27E-01	1.73E-01	2.16E-01	0.00E+00	0.00E+00	0.00E+00
36.	MN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E+03
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38.	MO+6	0.00E+00	0.00E+00	2.81E-02	1.92E-01	0.00E+00	0.00E+00	0.00E+00
39.	NA+	1.23E+04	1.19E+04	2.70E+03	7.69E+03	1.19E+06	0.00E+00	8.70E+05
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41.	NI+3	7.05E+01	6.09E+00	1.12E+00	1.40E+00	1.70E+02	0.00E+00	3.84E+02
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43.	NO2-	2.45E+05	9.69E+02	5.05E+02	2.93E+03	2.65E+05	0.00E+00	6.54E+05
44.	NO3-	1.64E+05	3.82E+02	4.99E+02	2.83E+03	2.28E+05	0.00E+00	0.00E+00
45.	NP+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46.	OH-	3.73E+04	2.10E+03	2.62E+02	7.41E+02	7.26E+05	0.00E+00	3.72E+05
47.	P2O5:24WO2:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48.	PB+4	0.00E+00	8.31E+00	1.55E+00	1.92E+00	0.00E+00	0.00E+00	0.00E+00
49.	PO4-3	5.00E+03	3.55E+02	5.64E+01	7.91E+01	4.01E+04	0.00E+00	1.57E+04
50.	PU-239	0.00E+00	4.51E-01	8.43E-02	1.12E-01	0.00E+00	0.00E+00	0.00E+00
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52.	RE+7	0.00E+00	0.00E+00	5.74E-04	4.67E-03	0.00E+00	0.00E+00	0.00E+00
53.	RH+3	0.00E+00	0.00E+00	5.36E-03	5.08E-02	0.00E+00	0.00E+00	0.00E+00
54.	RU+3	0.00E+00	0.00E+00	1.90E-03	1.52E-02	0.00E+00	0.00E+00	0.00E+00
55.	SB+5	0.00E+00	0.00E+00	3.24E-03	1.46E-02	0.00E+00	0.00E+00	0.00E+00
56.	SE+6	0.00E+00	0.00E+00	9.54E-03	7.56E-02	0.00E+00	0.00E+00	0.00E+00
57.	SI+4	0.00E+00	5.22E+02	5.34E+01	1.33E+02	0.00E+00	0.00E+00	0.00E+00
58.	SM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60.	SO4-2	4.59E+04	1.13E+03	2.57E+02	1.04E+03	2.54E+04	0.00E+00	1.15E+04
61.	SR+2	0.00E+00	1.66E-01	2.95E-02	1.01E-01	0.00E+00	0.00E+00	0.00E+00
62.	TCO4-	0.00E+00	1.35E+00	3.23E-01	1.17E+00	0.00E+00	0.00E+00	0.00E+00
63.	TE+6	0.00E+00	0.00E+00	7.37E-03	4.16E-02	0.00E+00	0.00E+00	0.00E+00
64.	TH+4	0.00E+00	0.00E+00	5.24E-03	2.37E-02	0.00E+00	0.00E+00	0.00E+00
65.	TI+4	0.00E+00	0.00E+00	2.12E-03	1.19E-02	0.00E+00	0.00E+00	0.00E+00
66.	TL+3	0.00E+00	0.00E+00	6.55E-02	3.02E-01	0.00E+00	0.00E+00	0.00E+00
67.	TOC	1.39E+04	1.24E+03	2.12E+02	3.70E+02	9.44E+04	0.00E+00	3.31E+04
68.	UO2+2	0.00E+00	5.11E+02	5.62E+01	1.86E+02	0.00E+00	0.00E+00	0.00E+00
69.	V+5	0.00E+00	0.00E+00	4.86E-04	4.54E-03	0.00E+00	0.00E+00	0.00E+00
70.	W+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71.	ZN+2	1.22E+01	0.00E+00	4.74E-04	3.47E-03	0.00E+00	0.00E+00	0.00E+00
72.	ZR+4	0.00E+00	2.12E+01	3.93E+00	4.82E+00	0.00E+00	0.00E+00	0.00E+00
73.	ZRO2:2H2O	0.00E+00	1.46E-01	1.57E-02	4.75E-02	0.00E+00	0.00E+00	0.00E+00
	Total	8.89E+06	2.37E+06	5.76E+05	3.33E+06	1.31E+07	0.00E+00	9.61E+06
	Diluted Vol (ML)	8863.4	2338.0	569.7	3315.6	10347.8	0.0	7565.2
74.	C14 (Ci)	0.00E+00	0.00E+00	9.63E-05	7.20E-04	0.00E+00	0.00E+00	0.00E+00
75.	Sr90 (Ci)	3.28E+04	7.61E-03	3.97E-03	1.67E-02	4.62E+04	0.00E+00	8.80E+04
76.	Y90 (Ci)	3.28E+04	0.00E+00	0.00E+00	0.00E+00	4.62E+04	0.00E+00	8.80E+04
77.	Tc99 (Ci)	1.53E+02	0.00E+00	0.00E+00	0.00E+00	2.57E+03	0.00E+00	1.88E+03
78.	Cs137 (Ci)	3.98E+06	0.00E+00	0.00E+00	0.00E+00	1.43E+06	0.00E+00	1.12E+06
79.	Ba137 (Ci)	3.78E+06	0.00E+00	0.00E+00	0.00E+00	1.36E+06	0.00E+00	1.06E+06
80.	U235 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
81.	U238 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
82.	Np237 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
83.	Pu238 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
84.	Pu239 (Ci)	9.63E+00	0.00E+00	0.00E+00	0.00E+00	8.81E+00	0.00E+00	1.14E+01
85.	Pu240 (Ci)	2.43E+00	0.00E+00	0.00E+00	0.00E+00	2.39E+00	0.00E+00	3.11E+00
86.	Pu241 (Ci)	8.44E+00	0.00E+00	0.00E+00	0.00E+00	1.29E+01	0.00E+00	1.74E+01
87.	Am241 (Ci)	8.93E+01	0.00E+00	0.00E+00	0.00E+00	8.03E+01	0.00E+00	8.21E+01
88.	Cm244 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Revised Tank Inventory for Solid Phase Constituents (AY,AZ,SY)

	Chemical	Mass (kg)						
		101AY	102AY	101AZ	102AZ	101SY	102SY	103SY
1.	AG+	0.00E+00	1.39E+03	0.00E+00	2.11E+02	0.00E+00	0.00E+00	0.00E+00
2.	AL(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.	AL+3	1.74E+04	3.23E+04	5.40E+03	3.80E+04	5.06E+03	0.00E+00	7.45E+03
4.	AM+3	3.52E+00	1.15E+00	2.61E+00	1.06E+01	9.88E-02	0.00E+00	1.26E-03
5.	AS+5	0.00E+00	0.00E+00	6.00E+01	2.40E+02	0.00E+00	0.00E+00	0.00E+00
6.	B+3	0.00E+00	1.03E+01	4.20E+01	1.74E+02	0.00E+00	0.00E+00	0.00E+00
7.	BA+2	1.68E+03	3.49E+03	6.68E+01	2.22E+03	0.00E+00	0.00E+00	3.26E+00
8.	BE+2	0.00E+00	0.00E+00	1.61E+00	6.44E+00	0.00E+00	0.00E+00	0.00E+00
9.	BI+3	0.00E+00	3.27E+02	0.00E+00	2.00E+02	0.00E+00	0.00E+00	0.00E+00
10.	CA+2	4.12E+03	9.83E+03	2.79E+02	5.87E+03	3.06E+02	0.00E+00	6.28E+01
11.	CANCRINITE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
12.	CD+2	5.03E+02	2.97E+02	1.14E+03	4.69E+03	0.00E+00	0.00E+00	0.00E+00
13.	CE+3	2.20E+03	0.00E+00	1.03E+02	4.10E+02	0.00E+00	0.00E+00	0.00E+00
14.	CL-	0.00E+00	1.57E+02	1.38E+01	5.53E+01	4.87E+02	0.00E+00	2.31E+02
15.	CN+3	0.00E+00	0.00E+00	3.11E-03	1.24E-02	0.00E+00	0.00E+00	0.00E+00
16.	CO+3	0.00E+00	3.15E+00	1.78E-04	1.92E+00	0.00E+00	0.00E+00	0.00E+00
17.	CO3-2	0.00E+00	0.00E+00	5.21E+03	2.09E+04	0.00E+00	0.00E+00	7.04E+02
18.	CR(OH)4-	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19.	CR+3	8.70E+03	1.13E+03	1.10E+02	8.34E+02	2.12E+04	0.00E+00	8.12E+02
20.	CS+	0.00E+00	9.69E+00	3.52E+00	1.94E+01	0.00E+00	0.00E+00	0.00E+00
21.	CS-137	0.00E+00	2.27E+00	1.22E+00	6.13E+00	1.67E-01	0.00E+00	1.30E-01
22.	CU+2	0.00E+00	8.32E+01	4.08E+01	2.14E+02	0.00E+00	0.00E+00	0.00E+00
23.	F-	0.00E+00	1.86E+02	3.67E+01	1.47E+02	7.02E+00	0.00E+00	4.88E+01
24.	FE+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
25.	FE+3	5.06E+04	4.63E+04	1.24E+04	7.03E+04	2.06E+03	0.00E+00	2.12E+02
26.	FECN6-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
27.	H+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
28.	H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
29.	HG+2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
30.	I-	0.00E+00	0.00E+00	9.79E-02	3.91E-01	0.00E+00	0.00E+00	0.00E+00
31.	K+	0.00E+00	1.04E+03	2.15E+02	1.41E+03	1.92E+02	0.00E+00	1.08E+02
32.	LA+3	1.60E+04	5.75E+02	4.40E+02	1.76E+03	0.00E+00	0.00E+00	9.89E+01
33.	LI+	0.00E+00	0.00E+00	5.03E+00	2.01E+01	0.00E+00	0.00E+00	0.00E+00
34.	MG+2	0.00E+00	4.30E+03	8.40E+01	2.95E+03	0.00E+00	0.00E+00	0.00E+00
35.	MN+2	0.00E+00	2.50E+03	3.12E+02	1.99E+03	0.00E+00	0.00E+00	0.00E+00
36.	MN+4	1.18E+04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E+01
37.	MNO2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38.	MO+6	0.00E+00	0.00E+00	3.97E+00	1.59E+01	0.00E+00	0.00E+00	0.00E+00
39.	NA+	2.83E+04	5.45E+04	3.16E+03	4.42E+04	1.20E+04	0.00E+00	8.78E+03
40.	NB+5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
41.	NI+3	1.04E+03	1.08E+03	7.24E+02	3.28E+03	9.30E+02	0.00E+00	2.02E+01
42.	NI2FECN6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43.	NO2-	0.00E+00	3.49E+01	5.56E+02	2.22E+03	2.30E+03	0.00E+00	0.00E+00
44.	NO3-	0.00E+00	2.72E+01	3.36E+02	1.35E+03	2.88E+03	0.00E+00	6.61E+03
45.	NP+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
46.	OH-	5.88E+05	3.77E+04	2.52E+04	1.01E+05	4.02E+04	0.00E+00	2.83E+04
47.	P2O5:24WO2:44H2O	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
48.	PB+4	1.51E+03	1.55E+03	8.84E+01	1.30E+03	0.00E+00	0.00E+00	0.00E+00
49.	PO4-3	1.32E+04	4.94E+03	2.85E+01	3.12E+03	4.11E+02	0.00E+00	1.58E+02
50.	PU-239	4.50E+01	4.25E+01	3.29E+00	3.27E+01	5.06E-01	0.00E+00	9.71E-03
51.	RB+	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
52.	RE+7	0.00E+00	0.00E+00	6.84E+00	2.74E+01	0.00E+00	0.00E+00	0.00E+00
53.	RH+3	0.00E+00	0.00E+00	4.46E+01	1.78E+02	0.00E+00	0.00E+00	0.00E+00
54.	RU+3	0.00E+00	0.00E+00	5.29E+01	2.12E+02	0.00E+00	0.00E+00	0.00E+00
55.	SB+5	0.00E+00	0.00E+00	1.31E+02	5.23E+02	0.00E+00	0.00E+00	0.00E+00
56.	SE+6	0.00E+00	0.00E+00	1.44E+02	5.78E+02	0.00E+00	0.00E+00	0.00E+00
57.	SI+4	1.86E+05	5.05E+04	5.12E+02	3.04E+04	0.00E+00	0.00E+00	1.35E+03
58.	SM+3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
59.	SN+4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
60.	SO4-2	0.00E+00	9.41E+01	2.03E+00	5.33E+01	2.57E+02	0.00E+00	1.16E+02
61.	SR+2	7.45E+01	1.74E+02	4.76E+01	2.32E+02	0.00E+00	0.00E+00	0.00E+00
62.	TCO4-	0.00E+00	1.26E+01	5.72E+00	3.06E+01	0.00E+00	0.00E+00	0.00E+00
63.	TE+6	0.00E+00	0.00E+00	1.12E+02	4.48E+02	0.00E+00	0.00E+00	0.00E+00
64.	TH+4	0.00E+00	0.00E+00	5.92E+01	2.37E+02	0.00E+00	0.00E+00	0.00E+00
65.	TI+4	0.00E+00	0.00E+00	3.60E+01	1.44E+02	0.00E+00	0.00E+00	0.00E+00
66.	TL+3	0.00E+00	0.00E+00	3.19E+02	1.28E+03	0.00E+00	0.00E+00	0.00E+00
67.	TOC	4.24E+04	5.65E+03	5.62E+02	2.25E+03	9.54E+02	0.00E+00	3.34E+02
68.	UO2+2	0.00E+00	1.27E+03	1.09E+03	4.58E+03	0.00E+00	0.00E+00	0.00E+00
69.	V+5	0.00E+00	0.00E+00	3.04E+00	1.22E+01	0.00E+00	0.00E+00	0.00E+00
70.	W+6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71.	ZN+2	0.00E+00	3.04E+01	2.76E+01	1.29E+02	0.00E+00	0.00E+00	0.00E+00
72.	ZR+4	0.00E+00	1.37E+03	0.00E+00	8.35E+02	0.00E+00	0.00E+00	0.00E+00
73.	ZRO2:2H2O	4.45E+03	5.26E-03	4.78E+03	1.91E+04	0.00E+00	0.00E+00	2.38E+02
	Total	9.88E+05	2.63E+05	6.40E+04	3.70E+05	8.90E+04	0.00E+00	5.57E+04
	Vol (ML) spg=3	329.3	87.6	21.3	123.5	29.7	0.0	18.6
74.	C14 (Ci)	0.00E+00	8.11E-05	1.25E-03	5.04E-03	0.00E+00	0.00E+00	0.00E+00
75.	Sr90 (Ci)	3.96E+05	2.32E+01	1.16E+01	5.19E+01	3.50E+04	0.00E+00	4.61E+02
76.	Y90 (Ci)	3.96E+05	0.00E+00	0.00E+00	0.00E+00	3.50E+04	0.00E+00	4.61E+02
77.	Tc99 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
78.	Cs137 (Ci)	1.32E+05	0.00E+00	0.00E+00	0.00E+00	1.45E+04	0.00E+00	1.13E+04
79.	Ba137 (Ci)	1.26E+05	0.00E+00	0.00E+00	0.00E+00	1.37E+04	0.00E+00	1.07E+04
80.	U235 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
81.	U238 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
82.	Np237 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
83.	Pu238 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
84.	Pu239 (Ci)	2.79E+03	0.00E+00	0.00E+00	0.00E+00	3.76E+01	0.00E+00	6.02E-01
85.	Pu240 (Ci)	6.97E+02	0.00E+00	0.00E+00	0.00E+00	9.54E+00	0.00E+00	1.53E-01
86.	Pu241 (Ci)	4.91E+02	0.00E+00	0.00E+00	0.00E+00	1.71E+01	0.00E+00	5.46E-02
87.	Am241 (Ci)	1.21E+04	0.00E+00	0.00E+00	0.00E+00	3.42E+02	0.00E+00	4.32E+00
88.	Cm244 (Ci)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

APPENDIX F

LOS ALAMOS NATIONAL LABORATORY RISK DATA

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LANL Tank Rank	ID #	Tank #	p-rem/yr	Cumulative Risk DST's	Cumulative Risk SST's	Residual Risk (After Ret.)	% SST risk	Cumulative % Risk
1	1	SY-101	1.12	1.12				
2	2	C-103	0.96		0.96	19.20	4.76%	4.76%
3	3	AX-101	0.875		1.84	18.33	4.34%	9.10%
4	4	A-102	0.441		2.28	17.89	2.19%	11.29%
5	5	S-102	0.405		2.68	17.48	2.01%	13.30%
6	6	U-105	0.39		3.07	17.09	1.93%	15.23%
7	7	S-112	0.375		3.45	16.72	1.86%	17.09%
8	8	C-105	0.345		3.79	16.37	1.71%	18.80%
9	9	C-106	0.345		4.14	16.03	1.71%	20.51%
11	10	A-101	0.291		4.43	15.74	1.44%	21.96%
14	11	C-102	0.291		4.72	15.44	1.44%	23.40%
12	12	C-107	0.291		5.01	15.15	1.44%	24.84%
13	13	C-110	0.291		5.30	14.86	1.44%	26.29%
10	14	C-112	0.291		5.59	14.57	1.44%	27.73%
15	15	A-104	0.271		5.86	14.30	1.34%	29.07%
16	16	A-105	0.271		6.13	14.03	1.34%	30.42%
17	17	A-106	0.271		6.40	13.76	1.34%	31.76%
18	18	C-104	0.271		6.68	13.49	1.34%	33.11%
19	19	U-107	0.257		6.93	13.23	1.27%	34.38%
20	20	AY-101	0.236	1.36				
21	21	AY-102	0.236	1.59				
22	22	AZ-101	0.236	1.83				
23	23	AZ-102	0.236	2.06				
33	24	A-103	0.217		7.15	13.01	1.08%	35.46%
34	25	AX-102	0.217		7.37	12.80	1.08%	36.53%
26	26	AX-103	0.217		7.58	12.58	1.08%	37.61%
27	27	AX-104	0.217		7.80	12.36	1.08%	38.69%
28	28	C-101	0.217		8.02	12.15	1.08%	39.76%
24	29	C-108	0.217		8.23	11.93	1.08%	40.84%
35	30	C-109	0.217		8.45	11.71	1.08%	41.92%
25	31	C-111	0.217		8.67	11.49	1.08%	42.99%
29	32	C-201	0.217		8.89	11.28	1.08%	44.07%
30	33	C-202	0.217		9.10	11.06	1.08%	45.14%
31	34	C-203	0.217		9.32	10.84	1.08%	46.22%
32	35	C-204	0.217		9.54	10.63	1.08%	47.30%
36	36	S-111	0.179		9.72	10.45	0.89%	48.18%
37	37	S-101	0.14		9.86	10.31	0.69%	48.88%
41	38	SX-101	0.131		9.99	10.18	0.65%	49.53%
38	39	SX-102	0.131		10.12	10.05	0.65%	50.18%
42	40	SX-103	0.131		10.25	9.91	0.65%	50.83%
39	41	SX-104	0.131		10.38	9.78	0.65%	51.48%
40	42	SX-105	0.131		10.51	9.65	0.65%	52.13%
43	43	SX-106	0.131		10.64	9.52	0.65%	52.78%
44	44	AN-101	0.128	2.19				
45	45	AN-102	0.128	2.32				
46	46	AN-103	0.128	2.45				
47	47	AN-104	0.128	2.58				
48	48	AN-105	0.128	2.70				
49	49	AN-106	0.128	2.83				
50	50	AN-107	0.128	2.96				

LANL Tank Rank	ID #	Tank #	p-rem/yr	Cumulative Risk DST's	Cumulative Risk SST's	Residual Risk (After Ret.)	% SST risk	Cumulative % Risk
51	51	AP-101	0.128	3.09				
52	52	AP-102	0.128	3.22				
53	53	AP-103	0.128	3.34				
54	54	AP-104	0.128	3.47				
55	55	AP-105	0.128	3.60				
56	56	AP-106	0.128	3.73				
57	57	AP-107	0.128	3.86				
58	58	AP-108	0.128	3.98				
59	59	AW-101	0.128	4.11				
60	60	AW-102	0.128	4.24				
61	61	AW-103	0.128	4.37				
62	62	AW-104	0.128	4.50				
63	63	AW-105	0.128	4.62				
64	64	AW-106	0.128	4.75				
65	65	S-110	0.128		10.77	9.39	0.63%	53.41%
66	66	S-108	0.115		10.88	9.28	0.57%	53.98%
67	67	U-103	0.112		11.00	9.17	0.56%	54.54%
68	68	U-106	0.112		11.11	9.05	0.56%	55.09%
73	69	S-103	0.111		11.22	8.94	0.55%	55.64%
69	70	S-106	0.111		11.33	8.83	0.55%	56.19%
74	71	S-107	0.111		11.44	8.72	0.55%	56.75%
70	72	S-109	0.111		11.55	8.61	0.55%	57.30%
75	73	U-102	0.111		11.66	8.50	0.55%	57.85%
76	74	U-108	0.111		11.77	8.39	0.55%	58.40%
77	75	U-109	0.111		11.89	8.28	0.55%	58.95%
71	76	U-110	0.111		12.00	8.17	0.55%	59.50%
72	77	U-111	0.111		12.11	8.06	0.55%	60.05%
78	78	SX-107	0.104		12.21	7.95	0.52%	60.56%
79	79	SX-108	0.104		12.32	7.85	0.52%	61.08%
80	80	SX-109	0.104		12.42	7.74	0.52%	61.60%
81	81	SX-110	0.104		12.52	7.64	0.52%	62.11%
82	82	SX-111	0.104		12.63	7.54	0.52%	62.63%
83	83	SX-112	0.104		12.73	7.43	0.52%	63.14%
84	84	SX-114	0.104		12.84	7.33	0.52%	63.66%
89	85	S-104	0.0839		12.92	7.24	0.42%	64.08%
85	86	S-105	0.0839		13.00	7.16	0.42%	64.49%
86	87	SX-113	0.0839		13.09	7.08	0.42%	64.91%
87	88	SX-115	0.0839		13.17	6.99	0.42%	65.32%
90	89	U-101	0.0839		13.25	6.91	0.42%	65.74%
88	90	U-104	0.0839		13.34	6.82	0.42%	66.16%
91	91	U-112	0.0839		13.42	6.74	0.42%	66.57%
92	92	U-201	0.0839		13.51	6.66	0.42%	66.99%
93	93	U-202	0.0839		13.59	6.57	0.42%	67.40%
94	94	U-203	0.0839		13.67	6.49	0.42%	67.82%
95	95	U-204	0.0839		13.76	6.40	0.42%	68.24%
96	96	BY-106	0.0728		13.83	6.33	0.36%	68.60%
97	97	B-203	0.0659		13.90	6.27	0.33%	68.92%
98	98	B-204	0.0645		13.96	6.20	0.32%	69.24%
99	99	SY-102	0.0476	4.80				
100	100	SY-103	0.0476	4.85				
106	101	BX-106	0.0344		14.00	6.17	0.17%	69.42%

LANL Tank Rank	ID #	Tank #	p-rem/yr	Cumulative Risk DST's	Cumulative Risk SST's	Residual Risk (After Ret.)	% SST risk	Cumulative % Risk
107	102	BX-107	0.0344		14.03	6.13	0.17%	69.59%
103	103	BX-109	0.0344		14.06	6.10	0.17%	69.76%
108	104	BX-110	0.0344		14.10	6.06	0.17%	69.93%
109	105	BX-111	0.0344		14.13	6.03	0.17%	70.10%
110	106	BX-112	0.0344		14.17	5.99	0.17%	70.27%
104	107	BY-102	0.0344		14.20	5.96	0.17%	70.44%
101	108	BY-103	0.0344		14.24	5.93	0.17%	70.61%
102	109	BY-105	0.0344		14.27	5.89	0.17%	70.78%
105	110	BY-109	0.0344		14.31	5.86	0.17%	70.95%
111	111	B-101	0.0341		14.34	5.82	0.17%	71.12%
126	112	B-102	0.0262		14.37	5.80	0.13%	71.25%
112	113	B-103	0.0262		14.39	5.77	0.13%	71.38%
127	114	B-104	0.0262		14.42	5.74	0.13%	71.51%
121	115	B-105	0.0262		14.44	5.72	0.13%	71.64%
128	116	B-106	0.0262		14.47	5.69	0.13%	71.77%
129	117	B-107	0.0262		14.50	5.67	0.13%	71.90%
122	118	B-108	0.0262		14.52	5.64	0.13%	72.03%
123	119	B-109	0.0262		14.55	5.61	0.13%	72.16%
130	120	B-110	0.0262		14.58	5.59	0.13%	72.29%
131	121	B-111	0.0262		14.60	5.56	0.13%	72.42%
132	122	B-112	0.0262		14.63	5.53	0.13%	72.55%
133	123	B-201	0.0262		14.65	5.51	0.13%	72.68%
124	124	B-202	0.0262		14.68	5.48	0.13%	72.81%
134	125	BX-101	0.0262		14.71	5.46	0.13%	72.94%
113	126	BX-102	0.0262		14.73	5.43	0.13%	73.07%
135	127	BX-103	0.0262		14.76	5.40	0.13%	73.20%
136	128	BX-104	0.0262		14.78	5.38	0.13%	73.33%
137	129	BX-105	0.0262		14.81	5.35	0.13%	73.46%
125	130	BX-108	0.0262		14.84	5.33	0.13%	73.59%
114	131	BY-101	0.0262		14.86	5.30	0.13%	73.72%
115	132	BY-104	0.0262		14.89	5.27	0.13%	73.85%
116	133	BY-107	0.0262		14.92	5.25	0.13%	73.98%
117	134	BY-108	0.0262		14.94	5.22	0.13%	74.11%
118	135	BY-110	0.0262		14.97	5.19	0.13%	74.24%
119	136	BY-111	0.0262		14.99	5.17	0.13%	74.37%
120	137	BY-112	0.0262		15.02	5.14	0.13%	74.50%
138	138	T-101	0.00939		15.03	5.13	0.05%	74.54%
139	139	T-104	0.00939		15.04	5.12	0.05%	74.59%
140	140	T-107	0.00939		15.05	5.11	0.05%	74.64%
141	141	T-110	0.00939		15.06	5.10	0.05%	74.68%
142	142	T-111	0.00939		15.07	5.09	0.05%	74.73%
143	143	TX-105	0.00709		15.07	5.09	0.04%	74.77%
144	144	TX-118	0.00709		15.08	5.08	0.04%	74.80%
169	145	T-102	0.00707		15.09	5.07	0.04%	74.84%
170	146	T-103	0.00707		15.10	5.07	0.04%	74.87%
147	147	T-105	0.00707		15.10	5.06	0.04%	74.91%
171	148	T-106	0.00707		15.11	5.05	0.04%	74.94%
148	149	T-108	0.00707		15.12	5.05	0.04%	74.98%
149	150	T-109	0.00707		15.12	5.04	0.04%	75.01%
172	151	T-112	0.00707		15.13	5.03	0.04%	75.05%
173	152	T-201	0.00707		15.14	5.02	0.04%	75.08%

LANL Tank Rank	ID #	Tank #	p-rem/yr	Cumulative Risk DST's	Cumulative Risk SST's	Residual Risk (After Ret.)	% SST risk	Cumulative % Risk
150	153	T-202	0.00707		15.15	5.02	0.04%	75.12%
151	154	T-203	0.00707		15.15	5.01	0.04%	75.15%
152	155	T-204	0.00707		15.16	5.00	0.04%	75.19%
174	156	TX-101	0.00707		15.17	5.00	0.04%	75.22%
153	157	TX-102	0.00707		15.17	4.99	0.04%	75.26%
154	158	TX-103	0.00707		15.18	4.98	0.04%	75.29%
175	159	TX-104	0.00707		15.19	4.97	0.04%	75.33%
155	160	TX-106	0.00707		15.19	4.97	0.04%	75.36%
176	161	TX-107	0.00707		15.20	4.96	0.04%	75.40%
156	162	TX-108	0.00707		15.21	4.95	0.04%	75.43%
157	163	TX-109	0.00707		15.22	4.95	0.04%	75.47%
158	164	TX-110	0.00707		15.22	4.94	0.04%	75.50%
159	165	TX-111	0.00707		15.23	4.93	0.04%	75.54%
160	166	TX-112	0.00707		15.24	4.92	0.04%	75.57%
161	167	TX-113	0.00707		15.24	4.92	0.04%	75.61%
162	168	TX-114	0.00707		15.25	4.91	0.04%	75.64%
163	169	TX-115	0.00707		15.26	4.90	0.04%	75.68%
164	170	TX-116	0.00707		15.27	4.90	0.04%	75.71%
165	171	TX-117	0.00707		15.27	4.89	0.04%	75.75%
145	172	TY-101	0.00707		15.28	4.88	0.04%	75.78%
166	173	TY-102	0.00707		15.29	4.88	0.04%	75.82%
146	174	TY-103	0.00707		15.29	4.87	0.04%	75.85%
177	175	TY-104	0.00707		15.30	4.86	0.04%	75.89%
167	176	TY-105	0.00707		15.31	4.85	0.04%	75.92%
168	177	TY-106	0.00707		15.31	4.85	0.04%	75.96%
Subtotal			20.16	4.85	15.31			

APPENDIX G

PRELIMINARY SCORING INDEX DATA

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APPENDIX G

PRELIMINARY SCORING INDEX DATA

Table G-1. Preliminary Scoring Index Data.

Tank identification	Preliminary Scoring Index Chemical	Preliminary Scoring Index Radionuclide
241-A-101	1.27E+08	3.56E+07
241-A-102	5.41E+05	9.62E+06
241-A-103	7.03E+05	3.13E+07
241-A-104	1.92E+07	2.17E+07
241-A-105	1.45E+05	1.77E+07
241-A-106	2.32E+05	9.82E+06
241-AX-101	3.94E+07	1.17E+06
241-AX-102	2.57E+03	7.08E+04
241-AX-103	7.65E+07	8.64E+08
241-AX-104	5.98E+04	2.15E+08
241-B-101	7.15E+06	4.48E+05
241-B-102	1.81E+05	2.11E+05
241-B-103	3.72E+06	6.09E+06
241-B-104	7.81E+05	3.61E+05
241-B-105	2.91E+06	1.25E+05
241-B-106	1.69E+05	1.60E+05
241-B-107	3.37E+06	3.76E+05
241-B-108	3.95E+06	1.75E+06
241-B-109	1.22E+06	4.57E+06
241-B-110	4.28E+06	4.03E+06
241-B-111	1.98E+07	2.98E+07
241-B-112	5.98E+06	1.05E+07
241-B-201	5.57E+03	2.34E+05
241-B-202	1.62E+05	1.10E+05
241-B-203	6.67E+05	1.06E+04

Table G-1. Preliminary Scoring Index Data.

Tank identification	Preliminary Scoring Index Chemical	Preliminary Scoring Index Radionuclide
241-B-204	8.05E+04	6.02E+04
241-BX-101	5.98E+05	2.63E+05
241-BX-102	1.80E+08	1.58E+08
241-BX-103	3.00E+05	2.33E+04
241-BX-104	3.76E+05	4.01E+06
241-BX-105	4.11E+05	1.80E+06
241-BX-106	1.52E+06	3.96E+06
241-BX-107	8.04E+04	4.59E+04
241-BX-108	1.99E+04	5.47E+04
241-BX-109	3.39E+04	1.65E+04
241-BX-110	1.67E+04	2.82E+04
241-BX-111	1.83E+05	9.32E+05
241-BX-112	8.81E+04	1.49E+05
241-BY-101	1.53E+07	2.10E+07
241-BY-102	1.09E+05	5.01E+06
241-BY-103	9.12E+06	9.15E+06
241-BY-104	3.29E+07	1.61E+08
241-BY-105	2.75E+07	2.92E+07
241-BY-106	1.64E+07	1.39E+08
241-BY-107	5.16E+07	1.08E+08
241-BY-108	7.52E+07	1.03E+08
241-BY-109	1.07E+05	5.75E+05
241-BY-110	8.77E+07	2.71E+08
241-BY-111	1.64E+08	2.75E+08
241-BY-112	1.33E+06	6.55E+06
241-C-101	3.71E+06	1.05E+07
241-C-102	8.27E+04	1.14E+06
241-C-103	3.31E+06	1.71E+07

Table G-1. Preliminary Scoring Index Data.

Tank identification	Preliminary Scoring Index Chemical	Preliminary Scoring Index Radionuclide
241-C-104	7.37E+05	4.44E+06
241-C-105	1.32E+07	2.38E+07
241-C-106	2.78E+07	1.27E+08
241-C-107	8.17E+04	3.61E+05
241-C-108	1.53E+06	1.34E+06
241-C-109	7.91E+05	1.14E+06
241-C-110	3.77E+04	4.06E+04
241-C-111	3.07E+06	7.12E+06
241-C-112	1.34E+06	3.30E+06
241-C-201	9.45E+03	3.22E+04
241-C-202	3.04E+02	1.65E+02
241-C-203	3.04E+01	2.99E+03
241-C-204	2.57E+04	3.94E+03
241-S-101	9.20E+06	6.56E+07
241-S-102	1.71E+08	5.32E+06
241-S-103	1.59E+06	1.07E+07
241-S-104	3.96E+07	1.81E+07
241-S-105	3.01E+07	7.83E+05
241-S-106	4.12E+07	1.21E+07
241-S-107	9.18E+06	8.01E+06
241-S-108	1.59E+07	4.30E+06
241-S-109	3.61E+07	1.76E+07
241-S-110	1.88E+07	4.69E+07
241-S-111	1.09E+08	3.64E+08
241-S-112	2.53E+09	5.15E+09
241-SX-101	2.73E+07	8.34E+06
241-SX-102	9.64E+07	8.90E+08
241-SX-103	1.97E+09	5.92E+08

Table G-1. Preliminary Scoring Index Data.

Tank identification	Preliminary Scoring Index Chemical	Preliminary Scoring Index Radionuclide
241-SX-104	1.15E+08	6.17E+06
241-SX-105	4.85E+08	6.24E+08
241-SX-106	2.20E+07	2.24E+08
241-SX-107	1.90E+07	1.79E+07
241-SX-108	5.35E+07	1.10E+07
241-SX-109	5.35E+08	3.51E+07
241-SX-110	8.59E+07	8.29E+06
241-SX-111	2.29E+07	1.72E+07
241-SX-112	1.53E+07	1.09E+07
241-SX-113	1.34E+07	4.36E+07
241-SX-114	7.00E+07	1.16E+07
241-SX-115	8.26E+07	1.91E+07
241-T-101	3.21E+06	1.07E+06
241-T-102	6.95E+04	4.30E+04
241-T-103	3.38E+05	4.09E+05
241-T-104	4.85E+06	1.05E+06
241-T-105	3.06E+05	3.73E+05
241-T-106	4.00E+06	5.87E+06
241-T-107	5.07E+04	6.33E+04
241-T-108	5.85E+04	1.36E+05
241-T-109	5.67E+05	5.15E+05
241-T-110	8.19E+05	2.92E+06
241-T-111	4.26E+04	2.00E+05
241-T-112	4.95E+02	1.13E+05
241-T-201	6.09E-01	#N/A
241-T-202	1.77E+05	4.94E+02
241-T-203	3.41E+05	4.94E+03
241-T-204	1.29E+03	1.26E+03

Table G-1. Preliminary Scoring Index Data.

Tank identification	Preliminary Scoring Index Chemical	Preliminary Scoring Index Radionuclide
241-TX-101	3.30E+07	9.46E+06
241-TX-102	5.51E+06	2.43E+06
241-TX-103	6.03E+06	3.04E+05
241-TX-104	2.14E+07	1.40E+08
241-TX-105	1.14E+08	2.03E+07
241-TX-106	1.51E+06	2.97E+06
241-TX-107	1.22E+07	3.65E+06
241-TX-108	1.70E+07	1.01E+07
241-TX-109	3.60E+07	9.08E+07
241-TX-110	1.74E+07	4.16E+07
241-TX-111	5.56E+06	9.44E+06
241-TX-112	1.05E+07	7.11E+06
241-TX-113	9.23E+06	2.26E+06
241-TX-114	3.74E+06	7.05E+06
241-TX-115	7.03E+06	4.37E+06
241-TX-116	2.03E+07	2.41E+06
241-TX-117	1.43E+07	1.32E+06
241-TX-118	1.96E+09	1.36E+07
241-TY-101	9.41E+07	5.72E+06
241-TY-102	5.35E+06	7.29E+07
241-TY-103	3.03E+07	2.40E+07
241-TY-104	3.74E+05	1.79E+07
241-TY-105	6.70E+06	4.42E+06
241-TY-106	3.31E+05	3.65E+05
241-U-101	3.74E+05	6.06E+06
241-U-102	1.26E+07	2.64E+07
241-U-103	2.16E+07	2.68E+07
241-U-104	1.24E+05	3.80E+04

Table G-1. Preliminary Scoring Index Data.

Tank identification	Preliminary Scoring Index Chemical	Preliminary Scoring Index Radionuclide
241-U-105	1.28E+08	5.91E+08
241-U-106	9.36E+07	1.71E+08
241-U-107	2.88E+06	4.13E+06
241-U-108	1.70E+08	8.20E+07
241-U-109	3.25E+07	4.47E+08
241-U-110	1.10E+07	3.36E+06
241-U-111	1.85E+06	2.83E+05
241-U-112	2.37E+07	1.00E+07
241-U-201	5.00E+05	2.00E+06
241-U-202	4.76E+05	5.84E+05
241-U-203	7.29E+04	1.52E+03
241-U-204	4.11E+03	1.97E+03
241-AN-101	5.18E+06	2.50E+07
241-AN-102	1.43E+07	8.84E+07
241-AN-103	1.08E+08	1.33E+09
241-AN-104	3.42E+07	1.30E+09
241-AN-105	8.97E+07	7.56E+08
241-AN-106	4.81E+06	5.13E+07
241-AN-107	1.07E+07	8.03E+07
241-AP-101	#N/A	#N/A
241-AP-102	7.47E+04	1.99E+02
241-AP-103	2.39E+04	3.81E+03
241-AP-104	6.21E+04	3.04E+01
241-AP-105	#N/A	#N/A
241-AP-106	#N/A	#N/A
241-AP-107	#N/A	#N/A
241-AP-108	#N/A	#N/A
241-AW-101	1.65E+08	1.07E+09

Table G-1. Preliminary Scoring Index Data.

Tank identification	Preliminary Scoring Index Chemical	Preliminary Scoring Index Radionuclide
241-AW-102	3.30E+06	1.19E+07
241-AW-103	1.89E+06	1.37E+06
241-AW-104	1.09E+07	1.71E+08
241-AW-105	1.93E+05	7.25E+05
241-AW-106	1.61E+06	2.17E+07
241-AY-101	1.86E+06	3.34E+07
241-AY-102	3.07E+05	3.05E+07
241-AZ-101	6.58E+06	4.05E+08
241-AZ-102	8.03E+05	2.44E+08
241-SY-101	2.46E+08	2.11E+09
241-SY-102	3.69E+06	1.01E+07
241-SY-103	1.17E+08	4.00E+09

Tanks with Preliminary Scoring Index values of #N/A (Not Available) were assigned values of zero (0) for relative risk computations.

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APPENDIX H

LOW-LEVEL WASTE BATCH DEFINITION FILE

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APPENDIX H

LOW-LEVEL WASTE BATCH DEFINITION FILE

This is the Low-Level Waste (LLW) Batch Defininition File for 1D1 (Case 250) Appendix B contains additional details. On any given page, the batches are read from top left to bottom left then top right to bottom right.

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
1	1.102E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	1.160E+05	0.000E+00	1.160E+05	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	2.479E-01	0.000E+00	2.479E-01	AS+5
6	2.175E-02	0.000E+00	2.175E-02	B+3
7	7.931E-01	0.000E+00	7.931E-01	BA+2
8	4.078E-01	0.000E+00	4.078E-01	BE+2
9	7.514E-03	0.000E+00	7.514E-03	BI+3
10	2.135E-02	0.000E+00	2.135E-02	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	4.105E+00	0.000E+00	4.105E+00	CD+2
13	9.000E-04	0.000E+00	9.000E-04	CE+3
14	6.143E+03	0.000E+00	6.143E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	7.463E+04	0.000E+00	7.463E+04	CO3-2
18	1.060E+04	0.000E+00	1.060E+04	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.421E+02	0.000E+00	1.421E+02	CS+
21	3.552E+01	0.000E+00	3.552E+01	CS-137
22	1.327E-03	0.000E+00	1.327E-03	CU+2
23	2.975E+03	0.000E+00	2.975E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.065E+01	0.000E+00	1.065E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.937E+06	0.000E+00	3.937E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.615E+03	0.000E+00	3.615E+03	K+
32	9.270E-07	0.000E+00	9.270E-07	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	5.408E-03	0.000E+00	5.408E-03	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	6.705E-02	0.000E+00	6.705E-02	MO+6
39	4.433E+05	0.000E+00	4.433E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	7.459E+01	0.000E+00	7.459E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.891E+05	0.000E+00	2.891E+05	NO2-
44	1.981E+05	0.000E+00	1.981E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	3.126E+04	0.000E+00	3.126E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	9.242E+00	0.000E+00	9.242E+00	PB+4
49	3.246E+04	0.000E+00	3.246E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	1.028E-03	0.000E+00	1.028E-03	SE+6
57	1.560E-03	0.000E+00	1.560E-03	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	6.374E+04	0.000E+00	6.374E+04	SO4-2
61	2.185E-05	0.000E+00	2.185E-05	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	9.146E+03	0.000E+00	9.146E+03	TOC
68	1.387E-01	0.000E+00	1.387E-01	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	1.357E-01	0.000E+00	1.357E-01	W+6
71	4.799E-03	0.000E+00	4.799E-03	ZN+2
72	7.025E-04	0.000E+00	7.025E-04	ZR+4
73	4.430E-03	0.000E+00	4.430E-03	ZRO2:2H2O
74	2.649E-04	0.000E+00	2.649E-04	C14 (Ci)
75	6.248E-02	0.000E+00	6.248E-02	Sr90 (Ci)
76	1.599E-05	0.000E+00	1.599E-05	Y90 (Ci)
77	1.411E+01	0.000E+00	1.411E+01	Tc99 (Ci)
78	3.552E+01	0.000E+00	3.552E+01	Cs137 (Ci)
79	5.439E-06	0.000E+00	5.439E-06	Ba137 (Ci)
80	1.977E-03	0.000E+00	1.977E-03	U235 (Ci)
81	2.848E-01	0.000E+00	2.848E-01	U238 (Ci)
82	3.722E-06	0.000E+00	3.722E-06	Np237 (Ci)
83	2.250E-09	0.000E+00	2.250E-09	Pu238 (Ci)
84	3.405E-03	0.000E+00	3.405E-03	Pu239 (Ci)
85	1.195E-04	0.000E+00	1.195E-04	Pu240 (Ci)
86	9.477E-07	0.000E+00	9.477E-07	Pu241 (Ci)
87	3.402E-04	0.000E+00	3.402E-04	Am241 (Ci)
88	1.860E-11	0.000E+00	1.860E-11	Cm244 (Ci)
89	5.212E+06	0.000E+00	5.212E+06	Total
Tot	5.212E+06	0.000E+00	5.212E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
2	1.219E+03	1.103E+03	0.000E+00	1.103E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.500E+04	0.000E+00	3.500E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	6.580E-02	0.000E+00	6.580E-02	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	5.520E+01	0.000E+00	5.520E+01	BI+3
10	4.420E+01	0.000E+00	4.420E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	2.420E+00	0.000E+00	2.420E+00	CD+2
13	6.600E+00	0.000E+00	6.600E+00	CE+3
14	4.140E+03	0.000E+00	4.140E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	2.020E+04	0.000E+00	2.020E+04	CO3-2
18	2.490E+03	0.000E+00	2.490E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.000E+00	0.000E+00	2.000E+00	CS+
21	5.000E-01	0.000E+00	5.000E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.680E+03	0.000E+00	3.680E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.870E+02	0.000E+00	1.870E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.800E+06	0.000E+00	3.800E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.070E+03	0.000E+00	1.070E+03	K+
32	6.800E-03	0.000E+00	6.800E-03	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	3.970E+01	0.000E+00	3.970E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.800E+05	0.000E+00	4.800E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.980E+01	0.000E+00	2.980E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	7.820E+04	0.000E+00	7.820E+04	NO2-
44	7.420E+05	0.000E+00	7.420E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.050E+05	0.000E+00	1.050E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.660E+01	0.000E+00	1.660E+01	PB+4
49	1.190E+04	0.000E+00	1.190E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	0.000E+00	0.000E+00	0.000E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.130E+04	0.000E+00	1.130E+04	SO4-2
61	1.600E-01	0.000E+00	1.600E-01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	5.520E+03	0.000E+00	5.520E+03	TOC
68	1.010E+03	0.000E+00	1.010E+03	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	3.250E+01	0.000E+00	3.250E+01	ZRO2:2H2O
74	1.799E-02	0.000E+00	1.799E-02	C14 (Ci)
75	3.245E-02	0.000E+00	3.245E-02	Sr90 (Ci)
76	8.306E-06	0.000E+00	8.306E-06	Y90 (Ci)
77	2.965E+00	0.000E+00	2.965E+00	Tc99 (Ci)
78	5.000E-01	0.000E+00	5.000E-01	Cs137 (Ci)
79	7.658E-08	0.000E+00	7.658E-08	Ba137 (Ci)
80	1.454E+01	0.000E+00	1.454E+01	U235 (Ci)
81	2.089E+03	0.000E+00	2.089E+03	U238 (Ci)
82	2.723E-02	0.000E+00	2.723E-02	Np237 (Ci)
83	1.653E-05	0.000E+00	1.653E-05	Pu238 (Ci)
84	1.048E-01	0.000E+00	1.048E-01	Pu239 (Ci)
85	6.324E-03	0.000E+00	6.324E-03	Pu240 (Ci)
86	1.388E-04	0.000E+00	1.388E-04	Pu241 (Ci)
87	8.192E-03	0.000E+00	8.192E-03	Am241 (Ci)
88	1.370E-07	0.000E+00	1.370E-07	Cm244 (Ci)
89	5.302E+06	0.000E+00	5.302E+06	Total
Tot	5.302E+06	0.000E+00	5.302E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
3	1.331E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	7.877E+04	0.000E+00	7.877E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	1.211E-01	0.000E+00	1.211E-01	AS+5
6	1.062E-02	0.000E+00	1.062E-02	B+3
7	3.873E-01	0.000E+00	3.873E-01	BA+2
8	1.992E-01	0.000E+00	1.992E-01	BE+2
9	3.519E+01	0.000E+00	3.519E+01	BI+3
10	2.814E+01	0.000E+00	2.814E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	2.005E+00	0.000E+00	2.005E+00	CD+2
13	4.210E+00	0.000E+00	4.210E+00	CE+3
14	6.729E+03	0.000E+00	6.729E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	5.313E+04	0.000E+00	5.313E+04	CO3-2
18	3.531E+03	0.000E+00	3.531E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	9.309E+00	0.000E+00	9.309E+00	CS+
21	2.327E+00	0.000E+00	2.327E+00	CS-137
22	6.481E-04	0.000E+00	6.481E-04	CU+2
23	2.332E+03	0.000E+00	2.332E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.227E+02	0.000E+00	1.227E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.812E+06	0.000E+00	3.812E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.233E+03	0.000E+00	2.233E+03	K+
32	4.338E-03	0.000E+00	4.338E-03	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	2.532E+01	0.000E+00	2.532E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	3.274E-02	0.000E+00	3.274E-02	MO+6
39	4.616E+05	0.000E+00	4.616E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	5.469E+01	0.000E+00	5.469E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	1.786E+05	0.000E+00	1.786E+05	NO2-
44	5.293E+05	0.000E+00	5.293E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.943E+04	0.000E+00	7.943E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.512E+01	0.000E+00	1.512E+01	PB+4
49	2.337E+04	0.000E+00	2.337E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	5.020E-04	0.000E+00	5.020E-04	SE+6
57	8.479E-03	0.000E+00	8.479E-03	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.396E+04	0.000E+00	1.396E+04	SO4-2
61	1.021E-01	0.000E+00	1.021E-01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	8.831E+03	0.000E+00	8.831E+03	TOC
68	6.473E+02	0.000E+00	6.473E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	6.627E-02	0.000E+00	6.627E-02	W+6
71	2.344E-03	0.000E+00	2.344E-03	ZN+2
72	3.430E-04	0.000E+00	3.430E-04	ZR+4
73	2.075E+01	0.000E+00	2.075E+01	ZRO2:2H2O
74	1.167E-02	0.000E+00	1.167E-02	C14 (Ci)
75	3.829E-02	0.000E+00	3.829E-02	Sr90 (Ci)
76	9.802E-06	0.000E+00	9.802E-06	Y90 (Ci)
77	1.309E+01	0.000E+00	1.309E+01	Tc99 (Ci)
78	2.327E+00	0.000E+00	2.327E+00	Cs137 (Ci)
79	3.556E-07	0.000E+00	3.556E-07	Ba137 (Ci)
80	9.264E+00	0.000E+00	9.264E+00	U235 (Ci)
81	1.333E+03	0.000E+00	1.333E+03	U238 (Ci)
82	1.743E-02	0.000E+00	1.743E-02	Np237 (Ci)
83	1.055E-05	0.000E+00	1.055E-05	Pu238 (Ci)
84	7.736E-02	0.000E+00	7.736E-02	Pu239 (Ci)
85	4.403E-03	0.000E+00	4.403E-03	Pu240 (Ci)
86	9.107E-05	0.000E+00	9.107E-05	Pu241 (Ci)
87	5.569E-03	0.000E+00	5.569E-03	Am241 (Ci)
88	8.703E-08	0.000E+00	8.703E-08	Cm244 (Ci)
89	5.255E+06	0.000E+00	5.255E+06	Total
Tot	5.255E+06	0.000E+00	5.255E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
4	1.339E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	8.090E-03	0.000E+00	8.090E-03	AG+
2	1.829E+05	0.000E+00	1.829E+05	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	8.090E-04	0.000E+00	8.090E-04	AS+5
6	3.647E+01	0.000E+00	3.647E+01	B+3
7	2.704E-01	0.000E+00	2.704E-01	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	7.312E+00	0.000E+00	7.312E+00	BI+3
10	2.484E+01	0.000E+00	2.484E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	1.620E-02	0.000E+00	1.620E-02	CD+2
13	8.469E-01	0.000E+00	8.469E-01	CE+3
14	1.263E+04	0.000E+00	1.263E+04	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	4.770E+04	0.000E+00	4.770E+04	CO3-2
18	1.341E+03	0.000E+00	1.341E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	7.850E+00	0.000E+00	7.850E+00	CS+
21	1.962E+00	0.000E+00	1.962E+00	CS-137
22	1.265E+00	0.000E+00	1.265E+00	CU+2
23	6.027E+03	0.000E+00	6.027E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	3.004E+01	0.000E+00	3.004E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.816E+06	0.000E+00	3.816E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.086E+04	0.000E+00	1.086E+04	K+
32	8.722E-04	0.000E+00	8.722E-04	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	1.290E-01	0.000E+00	1.290E-01	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	5.099E+00	0.000E+00	5.099E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	6.350E+01	0.000E+00	6.350E+01	MO+6
39	4.430E+05	0.000E+00	4.430E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.216E+01	0.000E+00	1.216E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.216E+05	0.000E+00	3.216E+05	NO2-
44	2.371E+05	0.000E+00	2.371E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.014E+05	0.000E+00	1.014E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	3.563E+01	0.000E+00	3.563E+01	PB+4
49	1.027E+04	0.000E+00	1.027E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	2.313E+02	0.000E+00	2.313E+02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	4.040E-01	0.000E+00	4.040E-01	SN+4
60	1.177E+04	0.000E+00	1.177E+04	SO4-2
61	2.056E-02	0.000E+00	2.056E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	8.090E-03	0.000E+00	8.090E-03	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	8.157E+03	0.000E+00	8.157E+03	TOC
68	1.305E+02	0.000E+00	1.305E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	1.277E+02	0.000E+00	1.277E+02	W+6
71	4.516E+00	0.000E+00	4.516E+00	ZN+2
72	1.065E+00	0.000E+00	1.065E+00	ZR+4
73	4.169E+00	0.000E+00	4.169E+00	ZRO2:2H2O
74	2.359E-03	0.000E+00	2.359E-03	C14 (Ci)
75	9.254E-03	0.000E+00	9.254E-03	Sr90 (Ci)
76	2.369E-06	0.000E+00	2.369E-06	Y90 (Ci)
77	4.651E+00	0.000E+00	4.651E+00	Tc99 (Ci)
78	1.962E+00	0.000E+00	1.962E+00	Cs137 (Ci)
79	3.002E-07	0.000E+00	3.002E-07	Ba137 (Ci)
80	1.860E+00	0.000E+00	1.860E+00	U235 (Ci)
81	2.680E+02	0.000E+00	2.680E+02	U238 (Ci)
82	3.503E-03	0.000E+00	3.503E-03	Np237 (Ci)
83	2.117E-06	0.000E+00	2.117E-06	Pu238 (Ci)
84	2.227E-02	0.000E+00	2.227E-02	Pu239 (Ci)
85	1.119E-03	0.000E+00	1.119E-03	Pu240 (Ci)
86	2.015E-05	0.000E+00	2.015E-05	Pu241 (Ci)
87	1.224E-03	0.000E+00	1.224E-03	Am241 (Ci)
88	1.750E-08	0.000E+00	1.750E-08	Cm244 (Ci)
89	5.211E+06	0.000E+00	5.211E+06	Total
Tot	5.211E+06	0.000E+00	5.211E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
5	1.567E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	4.417E+04	0.000E+00	4.417E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	1.299E+00	0.000E+00	1.299E+00	B+3
7	1.460E-02	0.000E+00	1.460E-02	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	5.249E+01	0.000E+00	5.249E+01	BI+3
10	4.299E+01	0.000E+00	4.299E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	6.292E+00	0.000E+00	6.292E+00	CE+3
14	4.670E+03	0.000E+00	4.670E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	2.107E+04	0.000E+00	2.107E+04	CO3-2
18	2.422E+03	0.000E+00	2.422E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.316E+00	0.000E+00	2.316E+00	CS+
21	5.791E-01	0.000E+00	5.791E-01	CS-137
22	7.927E-02	0.000E+00	7.927E-02	CU+2
23	3.715E+03	0.000E+00	3.715E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.757E+02	0.000E+00	1.757E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.798E+06	0.000E+00	3.798E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.133E+03	0.000E+00	1.133E+03	K+
32	6.481E-03	0.000E+00	6.481E-03	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	3.781E-01	0.000E+00	3.781E-01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	4.005E+00	0.000E+00	4.005E+00	MO+6
39	4.772E+05	0.000E+00	4.772E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.770E+01	0.000E+00	2.770E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	9.024E+04	0.000E+00	9.024E+04	NO2-
44	7.146E+05	0.000E+00	7.146E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.047E+05	0.000E+00	1.047E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.793E+01	0.000E+00	1.793E+01	PB+4
49	1.171E+04	0.000E+00	1.171E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.037E+00	0.000E+00	1.037E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.130E+04	0.000E+00	1.130E+04	SO4-2
61	1.526E-01	0.000E+00	1.526E-01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	5.508E+03	0.000E+00	5.508E+03	TOC
68	9.665E+02	0.000E+00	9.665E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	8.106E+00	0.000E+00	8.106E+00	W+6
71	2.867E-01	0.000E+00	2.867E-01	ZN+2
72	4.196E-02	0.000E+00	4.196E-02	ZR+4
73	3.099E+01	0.000E+00	3.099E+01	ZRO2:2H2O
74	1.714E-02	0.000E+00	1.714E-02	C14 (Ci)
75	3.120E-02	0.000E+00	3.120E-02	Sr90 (Ci)
76	7.968E-06	0.000E+00	7.968E-06	Y90 (Ci)
77	2.768E+00	0.000E+00	2.788E+00	Tc99 (Ci)
78	5.791E-01	0.000E+00	5.791E-01	Cs137 (Ci)
79	8.855E-06	0.000E+00	8.855E-06	Ba137 (Ci)
80	1.382E+01	0.000E+00	1.382E+01	U235 (Ci)
81	1.991E+03	0.000E+00	1.991E+03	U238 (Ci)
82	2.594E-02	0.000E+00	2.594E-02	Np237 (Ci)
83	1.572E-05	0.000E+00	1.572E-05	Pu238 (Ci)
84	9.945E-02	0.000E+00	9.945E-02	Pu239 (Ci)
85	6.012E-03	0.000E+00	6.012E-03	Pu240 (Ci)
86	1.317E-04	0.000E+00	1.317E-04	Pu241 (Ci)
87	7.602E-03	0.000E+00	7.602E-03	Am241 (Ci)
88	1.298E-07	0.000E+00	1.298E-07	Cm244 (Ci)
89	5.292E+06	0.000E+00	5.292E+06	Total
Tot	5.292E+06	0.000E+00	5.292E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
6	1.577E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	1.893E+05	0.000E+00	1.893E+05	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	2.057E+01	0.000E+00	2.057E+01	BI+3
10	1.645E+01	0.000E+00	1.645E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	2.462E+00	0.000E+00	2.462E+00	CE+3
14	1.066E+04	0.000E+00	1.066E+04	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	3.252E+04	0.000E+00	3.252E+04	CO3-2
18	2.589E+03	0.000E+00	2.589E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.605E+01	0.000E+00	2.605E+01	CS+
21	6.512E+00	0.000E+00	6.512E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	1.360E+03	0.000E+00	1.360E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	8.059E+01	0.000E+00	8.059E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.792E+06	0.000E+00	3.792E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	6.801E+03	0.000E+00	6.801E+03	K+
32	2.537E-03	0.000E+00	2.537E-03	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.480E+01	0.000E+00	1.480E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.797E+05	0.000E+00	4.797E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.066E+01	0.000E+00	1.066E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.456E+05	0.000E+00	2.456E+05	NO2-
44	4.065E+05	0.000E+00	4.065E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.051E+05	0.000E+00	1.051E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	6.222E+00	0.000E+00	6.222E+00	PB+4
49	6.423E+03	0.000E+00	6.423E+03	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	0.000E+00	0.000E+00	0.000E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.147E+04	0.000E+00	1.147E+04	SO4-2
61	5.969E-02	0.000E+00	5.969E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	6.604E+03	0.000E+00	6.604E+03	TOC
68	3.785E+02	0.000E+00	3.785E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.213E+01	0.000E+00	1.213E+01	ZRO2:2H2O
74	6.740E-03	0.000E+00	6.740E-03	C14 (Ci)
75	3.599E-02	0.000E+00	3.599E-02	Sr90 (Ci)
76	9.212E-06	0.000E+00	9.212E-06	Y90 (Ci)
77	1.416E+01	0.000E+00	1.416E+01	Tc99 (Ci)
78	6.512E+00	0.000E+00	6.512E+00	Cs137 (Ci)
79	9.973E-07	0.000E+00	9.973E-07	Ba137 (Ci)
80	5.416E+00	0.000E+00	5.416E+00	U235 (Ci)
81	7.795E+02	0.000E+00	7.795E+02	U238 (Ci)
82	1.019E-02	0.000E+00	1.019E-02	Np237 (Ci)
83	6.167E-06	0.000E+00	6.167E-06	Pu238 (Ci)
84	2.219E-01	0.000E+00	2.219E-01	Pu239 (Ci)
85	8.751E-03	0.000E+00	8.751E-03	Pu240 (Ci)
86	1.014E-04	0.000E+00	1.014E-04	Pu241 (Ci)
87	3.611E-03	0.000E+00	3.611E-03	Am241 (Ci)
88	5.288E-08	0.000E+00	5.288E-08	Cm244 (Ci)
89	5.297E+06	0.000E+00	5.297E+06	Total
Tot	5.297E+06	0.000E+00	5.297E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
7	1.805E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.882E+05	0.000E+00	2.882E+05	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	0.000E+00	0.000E+00	0.000E+00	BI+3
10	0.000E+00	0.000E+00	0.000E+00	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	0.000E+00	0.000E+00	0.000E+00	CE+3
14	1.484E+04	0.000E+00	1.484E+04	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	3.801E+04	0.000E+00	3.801E+04	CO3-2
18	2.724E+03	0.000E+00	2.724E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	3.511E+01	0.000E+00	3.511E+01	CS+
21	8.778E+00	0.000E+00	8.778E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	0.000E+00	0.000E+00	0.000E+00	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.947E+01	0.000E+00	1.947E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.787E+06	0.000E+00	3.787E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.069E+04	0.000E+00	1.069E+04	K+
32	0.000E+00	0.000E+00	0.000E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	0.000E+00	0.000E+00	0.000E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.797E+05	0.000E+00	4.797E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	0.000E+00	0.000E+00	0.000E+00	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.374E+05	0.000E+00	3.374E+05	NO2-
44	2.093E+05	0.000E+00	2.093E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.081E+05	0.000E+00	1.081E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	0.000E+00	0.000E+00	0.000E+00	PB+4
49	3.313E+03	0.000E+00	3.313E+03	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	0.000E+00	0.000E+00	0.000E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.142E+04	0.000E+00	1.142E+04	SO4-2
61	0.000E+00	0.000E+00	0.000E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	6.789E+03	0.000E+00	6.789E+03	TOC
68	0.000E+00	0.000E+00	0.000E+00	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	0.000E+00	0.000E+00	0.000E+00	ZRO2:2H2O
74	0.000E+00	0.000E+00	0.000E+00	C14 (Ci)
75	3.480E-02	0.000E+00	3.480E-02	Sr90 (Ci)
76	8.909E-06	0.000E+00	8.909E-06	Y90 (Ci)
77	1.796E+01	0.000E+00	1.796E+01	Tc99 (Ci)
78	8.778E+00	0.000E+00	8.778E+00	Cs137 (Ci)
79	1.345E-06	0.000E+00	1.345E-06	Ba137 (Ci)
80	0.000E+00	0.000E+00	0.000E+00	U235 (Ci)
81	0.000E+00	0.000E+00	0.000E+00	U238 (Ci)
82	0.000E+00	0.000E+00	0.000E+00	Np237 (Ci)
83	0.000E+00	0.000E+00	0.000E+00	Pu238 (Ci)
84	2.924E-01	0.000E+00	2.924E-01	Pu239 (Ci)
85	1.022E-02	0.000E+00	1.022E-02	Pu240 (Ci)
86	7.972E-05	0.000E+00	7.972E-05	Pu241 (Ci)
87	7.692E-04	0.000E+00	7.692E-04	Am241 (Ci)
88	0.000E+00	0.000E+00	0.000E+00	Cm244 (Ci)
89	5.297E+06	0.000E+00	5.297E+06	Total
Tot	5.297E+06	0.000E+00	5.297E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
8	1.815E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.882E+05	0.000E+00	2.882E+05	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	0.000E+00	0.000E+00	0.000E+00	BI+3
10	1.231E+02	0.000E+00	1.231E+02	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	2.276E+01	0.000E+00	2.276E+01	CD+2
13	0.000E+00	0.000E+00	0.000E+00	CE+3
14	1.364E+04	0.000E+00	1.364E+04	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.274E+04	0.000E+00	1.274E+04	CO3-2
18	2.784E+03	0.000E+00	2.784E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	4.195E+01	0.000E+00	4.195E+01	CS+
21	1.049E+01	0.000E+00	1.049E+01	CS-137
22	1.706E+01	0.000E+00	1.706E+01	CU+2
23	1.046E+03	0.000E+00	1.046E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.003E+02	0.000E+00	1.003E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.899E+06	0.000E+00	3.899E+06	H2O
29	2.276E+01	0.000E+00	2.276E+01	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.162E+04	0.000E+00	2.162E+04	K+
32	0.000E+00	0.000E+00	0.000E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	4.089E+01	0.000E+00	4.089E+01	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	4.089E+01	0.000E+00	4.089E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	1.250E+02	0.000E+00	1.250E+02	MO+6
39	4.797E+05	0.000E+00	4.797E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.413E+01	0.000E+00	3.413E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.276E+05	0.000E+00	2.276E+05	NO2-
44	1.962E+05	0.000E+00	1.962E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.388E+05	0.000E+00	1.388E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.026E+02	0.000E+00	1.026E+02	PB+4
49	1.321E+03	0.000E+00	1.321E+03	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	3.869E+02	0.000E+00	3.869E+02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	2.276E+03	0.000E+00	2.276E+03	SO4-2
61	0.000E+00	0.000E+00	0.000E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.046E+04	0.000E+00	1.046E+04	TOC
68	0.000E+00	0.000E+00	0.000E+00	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	2.961E+02	0.000E+00	2.961E+02	W+6
71	6.841E-01	0.000E+00	6.841E-01	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	0.000E+00	0.000E+00	0.000E+00	ZRO2:2H2O
74	6.262E-04	0.000E+00	6.262E-04	C14 (Ci)
75	1.126E-01	0.000E+00	1.126E-01	Sr90 (Ci)
76	2.882E-05	0.000E+00	2.882E-05	Y90 (Ci)
77	1.397E+01	0.000E+00	1.397E+01	Tc99 (Ci)
78	1.049E+01	0.000E+00	1.049E+01	Cs137 (Ci)
79	1.608E-06	0.000E+00	1.608E-06	Ba137 (Ci)
80	0.000E+00	0.000E+00	0.000E+00	U235 (Ci)
81	0.000E+00	0.000E+00	0.000E+00	U238 (Ci)
82	0.000E+00	0.000E+00	0.000E+00	Np237 (Ci)
83	0.000E+00	0.000E+00	0.000E+00	Pu238 (Ci)
84	4.281E-02	0.000E+00	4.281E-02	Pu239 (Ci)
85	1.503E-03	0.000E+00	1.503E-03	Pu240 (Ci)
86	1.168E-05	0.000E+00	1.168E-05	Pu241 (Ci)
87	9.273E-04	0.000E+00	9.273E-04	Am241 (Ci)
88	0.000E+00	0.000E+00	0.000E+00	Cm244 (Ci)
89	5.297E+06	0.000E+00	5.297E+06	Total
Tot	5.297E+06	0.000E+00	5.297E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
9	2.243E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.049E+05	0.000E+00	2.049E+05	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	0.000E+00	0.000E+00	0.000E+00	BI+3
10	6.883E+01	0.000E+00	6.883E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	0.000E+00	0.000E+00	0.000E+00	CE+3
14	1.080E+04	0.000E+00	1.080E+04	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	0.000E+00	0.000E+00	0.000E+00	CO3-2
18	7.730E+02	0.000E+00	7.730E+02	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	3.864E+01	0.000E+00	3.864E+01	CS+
21	9.660E+00	0.000E+00	9.660E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	0.000E+00	0.000E+00	0.000E+00	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	0.000E+00	0.000E+00	0.000E+00	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.661E+06	0.000E+00	3.661E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	8.736E+04	0.000E+00	8.736E+04	K+
32	0.000E+00	0.000E+00	0.000E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	1.091E+02	0.000E+00	1.091E+02	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	5.453E+01	0.000E+00	5.453E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	1.202E+02	0.000E+00	1.202E+02	MO+6
39	4.797E+05	0.000E+00	4.797E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	0.000E+00	0.000E+00	0.000E+00	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.463E+05	0.000E+00	4.463E+05	NO2-
44	2.128E+05	0.000E+00	2.128E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.800E+05	0.000E+00	1.800E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	6.300E+02	0.000E+00	6.300E+02	PB+4
49	4.400E+03	0.000E+00	4.400E+03	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	6.883E-02	0.000E+00	6.883E-02	SE+6
57	0.000E+00	0.000E+00	0.000E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	2.150E+03	0.000E+00	2.150E+03	SO4-2
61	0.000E+00	0.000E+00	0.000E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	9.848E+00	0.000E+00	9.848E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	5.130E+03	0.000E+00	5.130E+03	TOC
68	0.000E+00	0.000E+00	0.000E+00	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	6.618E+02	0.000E+00	6.618E+02	ZN+2
72	1.054E+02	0.000E+00	1.054E+02	ZR+4
73	0.000E+00	0.000E+00	0.000E+00	ZRO2:2H2O
74	1.722E-04	0.000E+00	1.722E-04	C14 (Ci)
75	1.291E-02	0.000E+00	1.291E-02	Sr90 (Ci)
76	3.305E-06	0.000E+00	3.305E-06	Y90 (Ci)
77	1.850E+01	0.000E+00	1.850E+01	Tc99 (Ci)
78	9.660E+00	0.000E+00	9.660E+00	Cs137 (Ci)
79	1.476E-06	0.000E+00	1.476E-06	Ba137 (Ci)
80	0.000E+00	0.000E+00	0.000E+00	U235 (Ci)
81	0.000E+00	0.000E+00	0.000E+00	U238 (Ci)
82	0.000E+00	0.000E+00	0.000E+00	Np237 (Ci)
83	0.000E+00	0.000E+00	0.000E+00	Pu238 (Ci)
84	5.166E-02	0.000E+00	5.166E-02	Pu239 (Ci)
85	1.808E-03	0.000E+00	1.808E-03	Pu240 (Ci)
86	1.408E-05	0.000E+00	1.408E-05	Pu241 (Ci)
87	9.817E-04	0.000E+00	9.817E-04	Am241 (Ci)
88	0.000E+00	0.000E+00	0.000E+00	Cm244 (Ci)
89	5.297E+06	0.000E+00	5.297E+06	Total
Tot	5.297E+06	0.000E+00	5.297E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
10	2.253E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.882E+05	0.000E+00	2.882E+05	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	0.000E+00	0.000E+00	0.000E+00	BI+3
10	1.853E+01	0.000E+00	1.853E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	3.428E+00	0.000E+00	3.428E+00	CD+2
13	0.000E+00	0.000E+00	0.000E+00	CE+3
14	1.466E+04	0.000E+00	1.466E+04	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	3.420E+04	0.000E+00	3.420E+04	CO3-2
18	2.733E+03	0.000E+00	2.733E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	3.614E+01	0.000E+00	3.614E+01	CS+
21	9.035E+00	0.000E+00	9.035E+00	CS-137
22	2.570E+00	0.000E+00	2.570E+00	CU+2
23	1.575E+02	0.000E+00	1.575E+02	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	3.164E+01	0.000E+00	3.164E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.804E+06	0.000E+00	3.804E+06	H2O
29	3.428E+00	0.000E+00	3.428E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.234E+04	0.000E+00	1.234E+04	K+
32	0.000E+00	0.000E+00	0.000E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	6.158E+00	0.000E+00	6.158E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	6.158E+00	0.000E+00	6.158E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	1.863E+01	0.000E+00	1.863E+01	MO+6
39	4.797E+05	0.000E+00	4.797E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	5.140E+00	0.000E+00	5.140E+00	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.209E+05	0.000E+00	3.209E+05	NO2-
44	2.074E+05	0.000E+00	2.074E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.127E+05	0.000E+00	1.127E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.545E+01	0.000E+00	1.545E+01	PB+4
49	3.013E+03	0.000E+00	3.013E+03	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	5.827E+01	0.000E+00	5.827E+01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.005E+04	0.000E+00	1.005E+04	SO4-2
61	0.000E+00	0.000E+00	0.000E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	7.341E+03	0.000E+00	7.341E+03	TOC
68	0.000E+00	0.000E+00	0.000E+00	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	4.459E+01	0.000E+00	4.459E+01	W+6
71	1.030E+01	0.000E+00	1.030E+01	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	0.000E+00	0.000E+00	0.000E+00	ZRO2:2H2O
74	9.431E-05	0.000E+00	9.431E-05	C14 (Ci)
75	4.651E-02	0.000E+00	4.651E-02	Sr90 (Ci)
76	1.191E-05	0.000E+00	1.191E-05	Y90 (Ci)
77	1.736E+01	0.000E+00	1.736E+01	Tc99 (Ci)
78	9.035E+00	0.000E+00	9.035E+00	Cs137 (Ci)
79	1.385E-06	0.000E+00	1.385E-06	Ba137 (Ci)
80	0.000E+00	0.000E+00	0.000E+00	U235 (Ci)
81	0.000E+00	0.000E+00	0.000E+00	U238 (Ci)
82	0.000E+00	0.000E+00	0.000E+00	Np237 (Ci)
83	0.000E+00	0.000E+00	0.000E+00	Pu238 (Ci)
84	2.548E-01	0.000E+00	2.548E-01	Pu239 (Ci)
85	8.909E-03	0.000E+00	8.909E-03	Pu240 (Ci)
86	6.947E-05	0.000E+00	6.947E-05	Pu241 (Ci)
87	7.930E-04	0.000E+00	7.930E-04	Am241 (Ci)
88	0.000E+00	0.000E+00	0.000E+00	Cm244 (Ci)
89	5.297E+06	0.000E+00	5.297E+06	Total
Tot	5.297E+06	0.000E+00	5.297E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
11	2.281E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.882E+05	0.000E+00	2.882E+05	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	0.000E+00	0.000E+00	0.000E+00	BI+3
10	1.231E+02	0.000E+00	1.231E+02	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	2.276E+01	0.000E+00	2.276E+01	CD+2
13	0.000E+00	0.000E+00	0.000E+00	CE+3
14	1.364E+04	0.000E+00	1.364E+04	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.274E+04	0.000E+00	1.274E+04	CO3-2
18	2.784E+03	0.000E+00	2.784E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	4.195E+01	0.000E+00	4.195E+01	CS+
21	1.049E+01	0.000E+00	1.049E+01	CS-137
22	1.706E+01	0.000E+00	1.706E+01	CU+2
23	1.046E+03	0.000E+00	1.046E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.003E+02	0.000E+00	1.003E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.899E+06	0.000E+00	3.899E+06	H2O
29	2.276E+01	0.000E+00	2.276E+01	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.162E+04	0.000E+00	2.162E+04	K+
32	0.000E+00	0.000E+00	0.000E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	4.089E+01	0.000E+00	4.089E+01	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	4.089E+01	0.000E+00	4.089E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	1.250E+02	0.000E+00	1.250E+02	MO+6
39	4.797E+05	0.000E+00	4.797E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.413E+01	0.000E+00	3.413E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.276E+05	0.000E+00	2.276E+05	NO2-
44	1.962E+05	0.000E+00	1.962E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.388E+05	0.000E+00	1.388E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.026E+02	0.000E+00	1.026E+02	PB+4
49	1.321E+03	0.000E+00	1.321E+03	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	3.869E+02	0.000E+00	3.869E+02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	2.276E+03	0.000E+00	2.276E+03	SO4-2
61	0.000E+00	0.000E+00	0.000E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.046E+04	0.000E+00	1.046E+04	TOC
68	0.000E+00	0.000E+00	0.000E+00	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	2.961E+02	0.000E+00	2.961E+02	W+6
71	6.841E+01	0.000E+00	6.841E+01	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	0.000E+00	0.000E+00	0.000E+00	ZRO2:2H2O
74	6.262E-04	0.000E+00	6.262E-04	C14 (Ci)
75	1.126E-01	0.000E+00	1.126E-01	Sr90 (Ci)
76	2.882E-05	0.000E+00	2.882E-05	Y90 (Ci)
77	1.397E+01	0.000E+00	1.397E+01	Tc99 (Ci)
78	1.049E+01	0.000E+00	1.049E+01	Cs137 (Ci)
79	1.608E-06	0.000E+00	1.608E-06	Ba137 (Ci)
80	0.000E+00	0.000E+00	0.000E+00	U235 (Ci)
81	0.000E+00	0.000E+00	0.000E+00	U238 (Ci)
82	0.000E+00	0.000E+00	0.000E+00	Np237 (Ci)
83	0.000E+00	0.000E+00	0.000E+00	Pu238 (Ci)
84	4.281E-02	0.000E+00	4.281E-02	Pu239 (Ci)
85	1.503E-03	0.000E+00	1.503E-03	Pu240 (Ci)
86	1.168E-05	0.000E+00	1.168E-05	Pu241 (Ci)
87	9.273E-04	0.000E+00	9.273E-04	Am241 (Ci)
88	0.000E+00	0.000E+00	0.000E+00	Cm244 (Ci)
89	5.297E+06	0.000E+00	5.297E+06	Total
Tot	5.297E+06	0.000E+00	5.297E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
12	2.291E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.196E+05	0.000E+00	2.196E+05	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	0.000E+00	0.000E+00	0.000E+00	BI+3
10	7.838E+01	0.000E+00	7.838E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	4.008E+00	0.000E+00	4.008E+00	CD+2
13	0.000E+00	0.000E+00	0.000E+00	CE+3
14	1.130E+04	0.000E+00	1.130E+04	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	2.243E+03	0.000E+00	2.243E+03	CO3-2
18	1.127E+03	0.000E+00	1.127E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	3.922E+01	0.000E+00	3.922E+01	CS+
21	9.805E+00	0.000E+00	9.805E+00	CS-137
22	3.004E+00	0.000E+00	3.004E+00	CU+2
23	1.841E+02	0.000E+00	1.841E+02	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.765E+01	0.000E+00	1.765E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.703E+06	0.000E+00	3.703E+06	H2O
29	4.008E+00	0.000E+00	4.008E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	7.579E+04	0.000E+00	7.579E+04	K+
32	0.000E+00	0.000E+00	0.000E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	9.706E+01	0.000E+00	9.706E+01	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	5.213E+01	0.000E+00	5.213E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	1.210E+02	0.000E+00	1.210E+02	MO+6
39	4.797E+05	0.000E+00	4.797E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	6.008E+00	0.000E+00	6.008E+00	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.078E+05	0.000E+00	4.078E+05	NO2-
44	2.099E+05	0.000E+00	2.099E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.728E+05	0.000E+00	1.728E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	5.372E+02	0.000E+00	5.372E+02	PB+4
49	3.858E+03	0.000E+00	3.858E+03	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	5.671E-02	0.000E+00	5.671E-02	SE+6
57	6.811E+01	0.000E+00	6.811E+01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	2.172E+03	0.000E+00	2.172E+03	SO4-2
61	0.000E+00	0.000E+00	0.000E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	8.114E+00	0.000E+00	8.114E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	6.066E+03	0.000E+00	6.066E+03	TOC
68	0.000E+00	0.000E+00	0.000E+00	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	5.212E+01	0.000E+00	5.212E+01	W+6
71	5.573E+02	0.000E+00	5.573E+02	ZN+2
72	8.681E+01	0.000E+00	8.681E+01	ZR+4
73	0.000E+00	0.000E+00	0.000E+00	ZRO2:2H2O
74	2.521E-04	0.000E+00	2.521E-04	C14 (Ci)
75	3.046E-02	0.000E+00	3.046E-02	Sr90 (Ci)
76	7.797E-06	0.000E+00	7.797E-06	Y90 (Ci)
77	1.770E+01	0.000E+00	1.770E+01	Tc99 (Ci)
78	9.805E+00	0.000E+00	9.805E+00	Cs137 (Ci)
79	1.499E-06	0.000E+00	1.499E-06	Ba137 (Ci)
80	0.000E+00	0.000E+00	0.000E+00	U235 (Ci)
81	0.000E+00	0.000E+00	0.000E+00	U238 (Ci)
82	0.000E+00	0.000E+00	0.000E+00	Np237 (Ci)
83	0.000E+00	0.000E+00	0.000E+00	Pu238 (Ci)
84	5.010E-02	0.000E+00	5.010E-02	Pu239 (Ci)
85	1.755E-03	0.000E+00	1.755E-03	Pu240 (Ci)
86	1.366E-05	0.000E+00	1.366E-05	Pu241 (Ci)
87	9.721E-04	0.000E+00	9.721E-04	Am241 (Ci)
88	0.000E+00	0.000E+00	0.000E+00	Cm244 (Ci)
89	5.297E+06	0.000E+00	5.297E+06	Total
Tot	5.297E+06	0.000E+00	5.297E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
13	2.519E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	3.233E-01	0.000E+00	3.233E-01	AG+
2	1.023E+05	0.000E+00	1.023E+05	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	2.113E+00	0.000E+00	2.113E+00	AS+5
6	4.977E+01	0.000E+00	4.977E+01	B+3
7	1.519E+00	0.000E+00	1.519E+00	BA+2
8	5.052E-05	0.000E+00	5.052E-05	BE+2
9	1.038E+01	0.000E+00	1.038E+01	BI+3
10	1.654E+02	0.000E+00	1.654E+02	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	4.586E+00	0.000E+00	4.586E+00	CD+2
13	1.241E+00	0.000E+00	1.241E+00	CE+3
14	6.265E+03	0.000E+00	6.265E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	5.631E+04	0.000E+00	5.631E+04	CO3-2
18	1.466E+03	0.000E+00	1.466E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.157E+01	0.000E+00	2.157E+01	CS+
21	5.391E+00	0.000E+00	5.391E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	4.564E+03	0.000E+00	4.564E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	5.067E+01	0.000E+00	5.067E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.759E+06	0.000E+00	3.759E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	7.255E+04	0.000E+00	7.255E+04	K+
32	1.276E-03	0.000E+00	1.278E-03	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	2.128E+01	0.000E+00	2.128E+01	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	7.443E+00	0.000E+00	7.443E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	5.752E-02	0.000E+00	5.752E-02	MO+6
39	4.797E+05	0.000E+00	4.797E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.075E+01	0.000E+00	3.075E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.965E+05	0.000E+00	3.965E+05	NO2-
44	2.511E+05	0.000E+00	2.511E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.459E+05	0.000E+00	1.459E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.571E+01	0.000E+00	1.571E+01	PB+4
49	3.270E+03	0.000E+00	3.270E+03	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	3.276E-01	0.000E+00	3.276E-01	SE+6
57	3.398E+02	0.000E+00	3.398E+02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.819E+03	0.000E+00	7.819E+03	SO4-2
61	3.007E-02	0.000E+00	3.007E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	1.461E-07	0.000E+00	1.461E-07	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	7.443E+03	0.000E+00	7.443E+03	TOC
68	1.902E+02	0.000E+00	1.902E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	1.368E+02	0.000E+00	1.368E+02	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	6.097E-03	0.000E+00	6.097E-03	ZRO2:2H2O
74	3.491E-03	0.000E+00	3.491E-03	C14 (Ci)
75	9.087E-03	0.000E+00	9.087E-03	Sr90 (Ci)
76	2.326E-06	0.000E+00	2.326E-06	Y90 (Ci)
77	1.004E+01	0.000E+00	1.004E+01	Tc99 (Ci)
78	5.391E+00	0.000E+00	5.391E+00	Cs137 (Ci)
79	8.231E-07	0.000E+00	8.231E-07	Ba137 (Ci)
80	2.725E+00	0.000E+00	2.725E+00	U235 (Ci)
81	3.916E+02	0.000E+00	3.916E+02	U238 (Ci)
82	5.151E-03	0.000E+00	5.151E-03	Np237 (Ci)
83	4.523E-06	0.000E+00	4.523E-06	Pu238 (Ci)
84	2.547E-02	0.000E+00	2.547E-02	Pu239 (Ci)
85	1.390E-03	0.000E+00	1.390E-03	Pu240 (Ci)
86	2.759E-05	0.000E+00	2.759E-05	Pu241 (Ci)
87	1.811E-03	0.000E+00	1.811E-03	Am241 (Ci)
88	2.570E-08	0.000E+00	2.570E-08	Cm244 (Ci)
89	5.297E+06	0.000E+00	5.297E+06	Total
Tot	5.297E+06	0.000E+00	5.297E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
14	2.529E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	1.911E+01	0.000E+00	1.911E+01	AG+
2	6.048E+04	0.000E+00	6.048E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	1.405E+01	0.000E+00	1.405E+01	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	2.112E+01	0.000E+00	2.112E+01	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	2.523E+01	0.000E+00	2.523E+01	BI+3
10	3.793E+02	0.000E+00	3.793E+02	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	1.558E+01	0.000E+00	1.558E+01	CD+2
13	1.577E+00	0.000E+00	1.577E+00	CE+3
14	5.542E+03	0.000E+00	5.542E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	5.332E+04	0.000E+00	5.332E+04	CO3-2
18	1.126E+03	0.000E+00	1.128E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	5.429E+00	0.000E+00	5.429E+00	CS+
21	1.357E+00	0.000E+00	1.357E+00	CS-137
22	3.115E-01	0.000E+00	3.115E-01	CU+2
23	3.813E+04	0.000E+00	3.813E+04	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	4.214E+02	0.000E+00	4.214E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.894E+06	0.000E+00	3.894E+06	H2O
29	7.568E-02	0.000E+00	7.568E-02	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	6.870E+03	0.000E+00	6.870E+03	K+
32	1.070E+02	0.000E+00	1.070E+02	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	1.099E+02	0.000E+00	1.099E+02	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	3.946E+01	0.000E+00	3.946E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	5.542E+00	0.000E+00	5.542E+00	MO+6
39	4.797E+05	0.000E+00	4.797E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.156E+02	0.000E+00	1.156E+02	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.354E+05	0.000E+00	3.354E+05	NO2-
44	2.609E+05	0.000E+00	2.609E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	8.934E+04	0.000E+00	8.934E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	7.061E+01	0.000E+00	7.061E+01	PB+4
49	1.061E+04	0.000E+00	1.061E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	5.552E-02	0.000E+00	5.552E-02	SE+6
57	0.000E+00	0.000E+00	0.000E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	3.574E+04	0.000E+00	3.574E+04	SO4-2
61	3.832E-02	0.000E+00	3.832E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	2.924E-01	0.000E+00	2.924E-01	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.456E+04	0.000E+00	2.456E+04	TOC
68	2.427E+02	0.000E+00	2.427E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	3.918E+02	0.000E+00	3.918E+02	ZN+2
72	2.312E+00	0.000E+00	2.312E+00	ZR+4
73	7.759E+00	0.000E+00	7.759E+00	ZRO2:2H2O
74	4.308E-03	0.000E+00	4.308E-03	C14 (Ci)
75	3.396E-01	0.000E+00	3.396E-01	Sr90 (Ci)
76	8.693E-05	0.000E+00	8.693E-05	Y90 (Ci)
77	1.478E+01	0.000E+00	1.478E+01	Tc99 (Ci)
78	1.357E+00	0.000E+00	1.357E+00	Cs137 (Ci)
79	2.078E-07	0.000E+00	2.078E-07	Ba137 (Ci)
80	3.468E+00	0.000E+00	3.468E+00	U235 (Ci)
81	4.977E+02	0.000E+00	4.977E+02	U238 (Ci)
82	6.506E-03	0.000E+00	6.506E-03	Np237 (Ci)
83	3.946E-06	0.000E+00	3.946E-06	Pu238 (Ci)
84	2.435E-01	0.000E+00	2.435E-01	Pu239 (Ci)
85	1.395E-02	0.000E+00	1.395E-02	Pu240 (Ci)
86	5.640E-05	0.000E+00	5.640E-05	Pu241 (Ci)
87	2.379E-02	0.000E+00	2.379E-02	Am241 (Ci)
88	3.267E-08	0.000E+00	3.267E-08	Cm244 (Ci)
89	5.297E+06	0.000E+00	5.297E+06	Total
Tot	5.297E+06	0.000E+00	5.297E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
15	2.757E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	1.016E-01	0.000E+00	1.016E-01	AG+
2	5.602E+04	0.000E+00	5.602E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	6.636E-01	0.000E+00	6.636E-01	AS+5
6	1.563E+01	0.000E+00	1.563E+01	B+3
7	4.771E-01	0.000E+00	4.771E-01	BA+2
8	1.587E-05	0.000E+00	1.587E-05	BE+2
9	4.126E-01	0.000E+00	4.126E-01	BI+3
10	8.236E+01	0.000E+00	8.236E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	1.441E+00	0.000E+00	1.441E+00	CD+2
13	4.940E+00	0.000E+00	4.940E+00	CE+3
14	4.814E+03	0.000E+00	4.814E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	3.089E+04	0.000E+00	3.089E+04	CO3-2
18	2.171E+03	0.000E+00	2.171E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	8.100E+00	0.000E+00	8.100E+00	CS+
21	2.025E+00	0.000E+00	2.025E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.924E+03	0.000E+00	3.924E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.429E+02	0.000E+00	1.429E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.784E+06	0.000E+00	3.784E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.329E+04	0.000E+00	2.329E+04	K+
32	5.091E-03	0.000E+00	5.091E-03	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	6.683E+00	0.000E+00	6.683E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	2.974E+01	0.000E+00	2.974E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	1.807E-02	0.000E+00	1.807E-02	MO+6
39	4.797E+05	0.000E+00	4.797E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.936E+01	0.000E+00	2.936E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	1.779E+05	0.000E+00	1.779E+05	NO2-
44	5.899E+05	0.000E+00	5.899E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.180E+05	0.000E+00	1.180E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.644E+01	0.000E+00	1.644E+01	PB+4
49	9.157E+03	0.000E+00	9.157E+03	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	1.030E-01	0.000E+00	1.030E-01	SE+6
57	1.067E+02	0.000E+00	1.067E+02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.021E+04	0.000E+00	1.021E+04	SO4-2
61	1.204E-01	0.000E+00	1.204E-01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	4.652E-08	0.000E+00	4.652E-08	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	5.998E+03	0.000E+00	5.998E+03	TOC
68	7.587E+02	0.000E+00	7.587E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	4.298E+01	0.000E+00	4.298E+01	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	2.432E+01	0.000E+00	2.432E+01	ZRO2:2H2O
74	1.350E-02	0.000E+00	1.350E-02	C14 (Ci)
75	2.523E-02	0.000E+00	2.523E-02	Sr90 (Ci)
76	6.458E-06	0.000E+00	6.458E-06	Y90 (Ci)
77	4.971E+00	0.000E+00	4.971E+00	Tc99 (Ci)
78	2.025E+00	0.000E+00	2.025E+00	Cs137 (Ci)
79	3.093E-07	0.000E+00	3.093E-07	Ba137 (Ci)
80	1.086E+01	0.000E+00	1.086E+01	U235 (Ci)
81	1.563E+03	0.000E+00	1.563E+03	U238 (Ci)
82	2.048E-02	0.000E+00	2.048E-02	Np237 (Ci)
83	1.281E-05	0.000E+00	1.281E-05	Pu238 (Ci)
84	7.961E-02	0.000E+00	7.961E-02	Pu239 (Ci)
85	4.775E-03	0.000E+00	4.775E-03	Pu240 (Ci)
86	1.039E-04	0.000E+00	1.039E-04	Pu241 (Ci)
87	6.196E-03	0.000E+00	6.196E-03	Am241 (Ci)
88	1.024E-07	0.000E+00	1.024E-07	Cm244 (Ci)
89	5.297E+06	0.000E+00	5.297E+06	Total
Tot	5.297E+06	0.000E+00	5.297E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
16	2.767E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.746E+05	0.000E+00	2.746E+05	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	1.615E+01	0.000E+00	1.615E+01	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	0.000E+00	0.000E+00	0.000E+00	BI+3
10	3.115E+02	0.000E+00	3.115E+02	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	0.000E+00	0.000E+00	0.000E+00	CE+3
14	1.257E+04	0.000E+00	1.257E+04	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	3.843E+04	0.000E+00	3.843E+04	CO3-2
18	1.963E+04	0.000E+00	1.963E+04	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.852E+01	0.000E+00	2.852E+01	CS+
21	7.131E+00	0.000E+00	7.131E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	2.663E+03	0.000E+00	2.663E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	2.222E+03	0.000E+00	2.222E+03	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.861E+06	0.000E+00	3.861E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	5.899E+03	0.000E+00	5.899E+03	K+
32	0.000E+00	0.000E+00	0.000E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	7.829E+02	0.000E+00	7.829E+02	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.797E+05	0.000E+00	4.797E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.117E+02	0.000E+00	2.117E+02	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.606E+05	0.000E+00	3.606E+05	NO2-
44	0.000E+00	0.000E+00	0.000E+00	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	2.051E+05	0.000E+00	2.051E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	0.000E+00	0.000E+00	0.000E+00	PB+4
49	8.656E+03	0.000E+00	8.656E+03	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	0.000E+00	0.000E+00	0.000E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	6.341E+03	0.000E+00	6.341E+03	SO4-2
61	0.000E+00	0.000E+00	0.000E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.825E+04	0.000E+00	1.825E+04	TOC
68	0.000E+00	0.000E+00	0.000E+00	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	0.000E+00	0.000E+00	0.000E+00	ZRO2:2H2O
74	0.000E+00	0.000E+00	0.000E+00	C14 (Ci)
75	3.491E-01	0.000E+00	3.491E-01	Sr90 (Ci)
76	8.935E-05	0.000E+00	8.935E-05	Y90 (Ci)
77	6.097E+01	0.000E+00	6.097E+01	Tc99 (Ci)
78	7.131E+00	0.000E+00	7.131E+00	Cs137 (Ci)
79	1.086E-06	0.000E+00	1.086E-06	Ba137 (Ci)
80	0.000E+00	0.000E+00	0.000E+00	U235 (Ci)
81	0.000E+00	0.000E+00	0.000E+00	U238 (Ci)
82	0.000E+00	0.000E+00	0.000E+00	Np237 (Ci)
83	0.000E+00	0.000E+00	0.000E+00	Pu238 (Ci)
84	1.014E-01	0.000E+00	1.014E-01	Pu239 (Ci)
85	6.304E-03	0.000E+00	6.304E-03	Pu240 (Ci)
86	9.314E-05	0.000E+00	9.314E-05	Pu241 (Ci)
87	1.320E-02	0.000E+00	1.320E-02	Am241 (Ci)
88	0.000E+00	0.000E+00	0.000E+00	Cm244 (Ci)
89	5.297E+06	0.000E+00	5.297E+06	Total
Tot	5.297E+06	0.000E+00	5.297E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
17	2.995E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.634E+05	0.000E+00	2.634E+05	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	1.215E+01	0.000E+00	1.215E+01	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	0.000E+00	0.000E+00	0.000E+00	BI+3
10	2.343E+02	0.000E+00	2.343E+02	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	0.000E+00	0.000E+00	0.000E+00	CE+3
14	1.269E+04	0.000E+00	1.269E+04	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	4.111E+04	0.000E+00	4.111E+04	CO3-2
18	1.544E+04	0.000E+00	1.544E+04	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	3.449E+01	0.000E+00	3.449E+01	CS+
21	8.622E+00	0.000E+00	8.622E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	2.003E+03	0.000E+00	2.003E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.676E+03	0.000E+00	1.676E+03	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.865E+06	0.000E+00	3.865E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	7.515E+03	0.000E+00	7.515E+03	K+
32	0.000E+00	0.000E+00	0.000E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	5.890E+02	0.000E+00	5.890E+02	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.797E+05	0.000E+00	4.797E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.593E+02	0.000E+00	1.593E+02	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.540E+05	0.000E+00	3.540E+05	NO2-
44	3.804E+04	0.000E+00	3.804E+04	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.842E+05	0.000E+00	1.842E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	0.000E+00	0.000E+00	0.000E+00	PB+4
49	7.713E+03	0.000E+00	7.713E+03	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	0.000E+00	0.000E+00	0.000E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.591E+03	0.000E+00	7.591E+03	SO4-2
61	0.000E+00	0.000E+00	0.000E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.571E+04	0.000E+00	1.571E+04	TOC
68	0.000E+00	0.000E+00	0.000E+00	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	0.000E+00	0.000E+00	0.000E+00	ZRO2:2H2O
74	0.000E+00	0.000E+00	0.000E+00	C14 (Ci)
75	2.888E-01	0.000E+00	2.888E-01	Sr90 (Ci)
76	7.394E-05	0.000E+00	7.394E-05	Y90 (Ci)
77	5.043E+01	0.000E+00	5.043E+01	Tc99 (Ci)
78	8.622E+00	0.000E+00	8.622E+00	Cs137 (Ci)
79	1.315E-06	0.000E+00	1.315E-06	Ba137 (Ci)
80	0.000E+00	0.000E+00	0.000E+00	U235 (Ci)
81	0.000E+00	0.000E+00	0.000E+00	U238 (Ci)
82	0.000E+00	0.000E+00	0.000E+00	Np237 (Ci)
83	0.000E+00	0.000E+00	0.000E+00	Pu238 (Ci)
84	1.484E-01	0.000E+00	1.484E-01	Pu239 (Ci)
85	7.267E-03	0.000E+00	7.267E-03	Pu240 (Ci)
86	8.985E-05	0.000E+00	8.985E-05	Pu241 (Ci)
87	1.012E-02	0.000E+00	1.012E-02	Am241 (Ci)
88	0.000E+00	0.000E+00	0.000E+00	Cm244 (Ci)
89	5.297E+06	0.000E+00	5.297E+06	Total
Tot	5.297E+06	0.000E+00	5.297E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
18	3.005E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	8.895E-01	0.000E+00	8.895E-01	AG+
2	2.534E+05	0.000E+00	2.534E+05	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	6.538E-01	0.000E+00	6.538E-01	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	9.829E-01	0.000E+00	9.829E-01	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	1.174E+00	0.000E+00	1.174E+00	BI+3
10	1.432E+03	0.000E+00	1.432E+03	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	7.250E-01	0.000E+00	7.250E-01	CD+2
13	7.339E-02	0.000E+00	7.339E-02	CE+3
14	1.878E+04	0.000E+00	1.878E+04	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	2.482E+03	0.000E+00	2.482E+03	CO3-2
18	1.098E+03	0.000E+00	1.098E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.564E+01	0.000E+00	2.564E+01	CS+
21	6.409E+00	0.000E+00	6.409E+00	CS-137
22	1.450E-02	0.000E+00	1.450E-02	CU+2
23	2.042E+03	0.000E+00	2.042E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	7.457E+01	0.000E+00	7.457E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.965E+06	0.000E+00	3.965E+06	H2O
29	3.522E-03	0.000E+00	3.522E-03	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	7.622E+03	0.000E+00	7.622E+03	K+
32	4.981E+00	0.000E+00	4.981E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	5.115E+00	0.000E+00	5.115E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.837E+00	0.000E+00	1.837E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	2.580E-01	0.000E+00	2.580E-01	MO+6
39	4.797E+05	0.000E+00	4.797E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	7.072E+01	0.000E+00	7.072E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	1.175E+05	0.000E+00	1.175E+05	NO2-
44	9.977E+04	0.000E+00	9.977E+04	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	2.832E+05	0.000E+00	2.832E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	3.287E+00	0.000E+00	3.287E+00	PB+4
49	1.591E+04	0.000E+00	1.591E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	2.584E-03	0.000E+00	2.584E-03	SE+6
57	0.000E+00	0.000E+00	0.000E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.143E+04	0.000E+00	1.143E+04	SO4-2
61	1.783E-03	0.000E+00	1.783E-03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	1.361E-02	0.000E+00	1.361E-02	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	3.742E+04	0.000E+00	3.742E+04	TOC
68	1.130E+01	0.000E+00	1.130E+01	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	1.824E+01	0.000E+00	1.824E+01	ZN+2
72	1.076E-01	0.000E+00	1.076E-01	ZR+4
73	3.611E-01	0.000E+00	3.611E-01	ZRO2:2H2O
74	2.005E-04	0.000E+00	2.005E-04	C14 (Ci)
75	1.435E-01	0.000E+00	1.435E-01	Sr90 (Ci)
76	3.675E-05	0.000E+00	3.675E-05	Y90 (Ci)
77	5.879E+01	0.000E+00	5.879E+01	Tc99 (Ci)
78	6.409E+00	0.000E+00	6.409E+00	Cs137 (Ci)
79	9.812E-07	0.000E+00	9.812E-07	Ba137 (Ci)
80	1.614E-01	0.000E+00	1.614E-01	U235 (Ci)
81	2.316E+01	0.000E+00	2.316E+01	U238 (Ci)
82	3.028E-04	0.000E+00	3.028E-04	Np237 (Ci)
83	1.837E-07	0.000E+00	1.837E-07	Pu238 (Ci)
84	6.595E-02	0.000E+00	6.595E-02	Pu239 (Ci)
85	4.026E-03	0.000E+00	4.026E-03	Pu240 (Ci)
86	5.076E-05	0.000E+00	5.076E-05	Pu241 (Ci)
87	1.010E-02	0.000E+00	1.010E-02	Am241 (Ci)
88	1.521E-09	0.000E+00	1.521E-09	Cm244 (Ci)
89	5.297E+06	0.000E+00	5.297E+06	Total
Tot	5.297E+06	0.000E+00	5.297E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
19	3.233E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.422E+05	0.000E+00	2.422E+05	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	0.000E+00	0.000E+00	0.000E+00	BI+3
10	2.667E+01	0.000E+00	2.667E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	4.934E+00	0.000E+00	4.934E+00	CD+2
13	0.000E+00	0.000E+00	0.000E+00	CE+3
14	1.318E+04	0.000E+00	1.318E+04	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	4.132E+04	0.000E+00	4.132E+04	CO3-2
18	2.725E+03	0.000E+00	2.725E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	5.029E+01	0.000E+00	5.029E+01	CS+
21	1.257E+01	0.000E+00	1.257E+01	CS-137
22	3.698E+00	0.000E+00	3.698E+00	CU+2
23	2.267E+02	0.000E+00	2.267E+02	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	3.691E+01	0.000E+00	3.691E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.883E+06	0.000E+00	3.883E+06	H2O
29	4.934E+00	0.000E+00	4.934E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.442E+04	0.000E+00	1.442E+04	K+
32	0.000E+00	0.000E+00	0.000E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	8.863E+00	0.000E+00	8.863E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	8.863E+00	0.000E+00	8.863E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	2.710E+01	0.000E+00	2.710E+01	MO+6
39	4.797E+05	0.000E+00	4.797E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	7.397E+00	0.000E+00	7.397E+00	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.111E+05	0.000E+00	3.111E+05	NO2-
44	1.628E+05	0.000E+00	1.628E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.247E+05	0.000E+00	1.247E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	2.224E+01	0.000E+00	2.224E+01	PB+4
49	4.084E+03	0.000E+00	4.084E+03	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	8.385E-01	0.000E+00	8.385E-01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	9.413E+03	0.000E+00	9.413E+03	SO4-2
61	0.000E+00	0.000E+00	0.000E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	8.529E+03	0.000E+00	8.529E+03	TOC
68	0.000E+00	0.000E+00	0.000E+00	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	6.417E+01	0.000E+00	6.417E+01	W+6
71	1.483E+01	0.000E+00	1.483E+01	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	0.000E+00	0.000E+00	0.000E+00	ZRO2:2H2O
74	1.357E-04	0.000E+00	1.357E-04	C14 (Ci)
75	1.074E-01	0.000E+00	1.074E-01	Sr90 (Ci)
76	2.748E-05	0.000E+00	2.748E-05	Y90 (Ci)
77	1.744E+01	0.000E+00	1.744E+01	Tc99 (Ci)
78	1.257E+01	0.000E+00	1.257E+01	Cs137 (Ci)
79	1.923E-06	0.000E+00	1.923E-06	Ba137 (Ci)
80	0.000E+00	0.000E+00	0.000E+00	U235 (Ci)
81	0.000E+00	0.000E+00	0.000E+00	U238 (Ci)
82	0.000E+00	0.000E+00	0.000E+00	Np237 (Ci)
83	0.000E+00	0.000E+00	0.000E+00	Pu238 (Ci)
84	2.374E-01	0.000E+00	2.374E-01	Pu239 (Ci)
85	8.309E-03	0.000E+00	8.309E-03	Pu240 (Ci)
86	6.508E-05	0.000E+00	6.508E-05	Pu241 (Ci)
87	8.025E-04	0.000E+00	8.025E-04	Am241 (Ci)
88	0.000E+00	0.000E+00	0.000E+00	Cm244 (Ci)
89	5.297E+06	0.000E+00	5.297E+06	Total
Tot	5.297E+06	0.000E+00	5.297E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
20	3.243E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	5.159E-03	0.000E+00	5.159E-03	AG+
2	3.594E+04	0.000E+00	3.594E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	3.371E-02	0.000E+00	3.371E-02	AS+5
6	7.942E-01	0.000E+00	7.942E-01	B+3
7	2.423E-02	0.000E+00	2.423E-02	BA+2
8	8.062E-07	0.000E+00	8.062E-07	BE+2
9	5.463E+01	0.000E+00	5.463E+01	BI+3
10	4.629E+01	0.000E+00	4.629E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	7.318E-02	0.000E+00	7.318E-02	CD+2
13	6.548E+00	0.000E+00	6.548E+00	CE+3
14	4.170E+03	0.000E+00	4.170E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.977E+04	0.000E+00	1.977E+04	CO3-2
18	2.471E+03	0.000E+00	2.471E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.247E+00	0.000E+00	2.247E+00	CS+
21	5.617E-01	0.000E+00	5.617E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.642E+03	0.000E+00	3.642E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.827E+02	0.000E+00	1.827E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.796E+06	0.000E+00	3.796E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.881E+03	0.000E+00	1.881E+03	K+
32	6.745E-03	0.000E+00	6.745E-03	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	3.395E-01	0.000E+00	3.395E-01	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	3.935E+01	0.000E+00	3.935E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	9.177E-04	0.000E+00	9.177E-04	MO+6
39	4.795E+05	0.000E+00	4.795E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.880E+01	0.000E+00	2.880E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	8.196E+04	0.000E+00	8.196E+04	NO2-
44	7.364E+05	0.000E+00	7.364E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.056E+05	0.000E+00	1.056E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.667E+01	0.000E+00	1.667E+01	PB+4
49	1.175E+04	0.000E+00	1.175E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	5.231E-03	0.000E+00	5.231E-03	SE+6
57	5.423E+00	0.000E+00	5.423E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.123E+04	0.000E+00	1.123E+04	SO4-2
61	1.588E-01	0.000E+00	1.588E-01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	2.363E-09	0.000E+00	2.363E-09	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	5.369E+03	0.000E+00	5.369E+03	TOC
68	1.006E+03	0.000E+00	1.006E+03	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	2.183E+00	0.000E+00	2.183E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	3.225E+01	0.000E+00	3.225E+01	ZRO2:2H2O
74	1.783E-02	0.000E+00	1.783E-02	C14 (Ci)
75	3.218E-02	0.000E+00	3.218E-02	Sr90 (Ci)
76	8.239E-06	0.000E+00	8.239E-06	Y90 (Ci)
77	2.768E+00	0.000E+00	2.768E+00	Tc99 (Ci)
78	5.617E-01	0.000E+00	5.617E-01	Cs137 (Ci)
79	8.586E-08	0.000E+00	8.586E-08	Ba137 (Ci)
80	1.438E+01	0.000E+00	1.438E+01	U235 (Ci)
81	2.072E+03	0.000E+00	2.072E+03	U238 (Ci)
82	2.700E-02	0.000E+00	2.700E-02	Np237 (Ci)
83	1.638E-05	0.000E+00	1.638E-05	Pu238 (Ci)
84	1.030E-01	0.000E+00	1.030E-01	Pu239 (Ci)
85	6.239E-03	0.000E+00	6.239E-03	Pu240 (Ci)
86	1.369E-04	0.000E+00	1.369E-04	Pu241 (Ci)
87	8.112E-03	0.000E+00	8.112E-03	Am241 (Ci)
88	1.351E-07	0.000E+00	1.351E-07	Cm244 (Ci)
89	5.297E+06	0.000E+00	5.297E+06	Total
Tot	5.297E+06	0.000E+00	5.297E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
21	3.471E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.392E+05	0.000E+00	2.392E+05	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	0.000E+00	0.000E+00	0.000E+00	BI+3
10	4.336E+02	0.000E+00	4.336E+02	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	0.000E+00	0.000E+00	0.000E+00	CE+3
14	1.492E+04	0.000E+00	1.492E+04	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	3.484E+04	0.000E+00	3.484E+04	CO3-2
18	2.238E+03	0.000E+00	2.238E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	4.501E+01	0.000E+00	4.501E+01	CS+
21	1.125E+01	0.000E+00	1.125E+01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	8.198E+01	0.000E+00	8.198E+01	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	3.356E+01	0.000E+00	3.356E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.905E+06	0.000E+00	3.905E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.103E+04	0.000E+00	1.103E+04	K+
32	0.000E+00	0.000E+00	0.000E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	0.000E+00	0.000E+00	0.000E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.797E+05	0.000E+00	4.797E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.003E+01	0.000E+00	2.003E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.677E+05	0.000E+00	2.677E+05	NO2-
44	1.355E+05	0.000E+00	1.355E+05	NO3-
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.710E+05	0.000E+00	1.710E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	0.000E+00	0.000E+00	0.000E+00	PB+4
49	8.156E+03	0.000E+00	8.156E+03	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	0.000E+00	0.000E+00	0.000E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.105E+04	0.000E+00	1.105E+04	SO4-2
61	0.000E+00	0.000E+00	0.000E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.678E+04	0.000E+00	1.678E+04	TOC
68	0.000E+00	0.000E+00	0.000E+00	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	0.000E+00	0.000E+00	0.000E+00	ZRO2:2H2O
74	0.000E+00	0.000E+00	0.000E+00	C14 (Ci)
75	1.141E-01	0.000E+00	1.141E-01	Sr90 (Ci)
76	2.921E-05	0.000E+00	2.921E-05	Y90 (Ci)
77	3.084E+01	0.000E+00	3.084E+01	Tc99 (Ci)
78	1.125E+01	0.000E+00	1.125E+01	Cs137 (Ci)
79	1.720E-06	0.000E+00	1.720E-06	Ba137 (Ci)
80	0.000E+00	0.000E+00	0.000E+00	U235 (Ci)
81	0.000E+00	0.000E+00	0.000E+00	U238 (Ci)
82	0.000E+00	0.000E+00	0.000E+00	Np237 (Ci)
83	0.000E+00	0.000E+00	0.000E+00	Pu238 (Ci)
84	2.229E-01	0.000E+00	2.229E-01	Pu239 (Ci)
85	8.248E-03	0.000E+00	8.248E-03	Pu240 (Ci)
86	7.127E-05	0.000E+00	7.127E-05	Pu241 (Ci)
87	3.302E-03	0.000E+00	3.302E-03	Am241 (Ci)
88	0.000E+00	0.000E+00	0.000E+00	Cm244 (Ci)
89	5.297E+06	0.000E+00	5.297E+06	Total
Tot	5.297E+06	0.000E+00	5.297E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
22	3.481E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.628E+05	0.000E+00	2.628E+05	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	0.000E+00	0.000E+00	0.000E+00	BI+3
10	1.483E+03	0.000E+00	1.483E+03	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	0.000E+00	0.000E+00	0.000E+00	CE+3
14	1.943E+04	0.000E+00	1.943E+04	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	0.000E+00	0.000E+00	0.000E+00	CO3-2
18	1.096E+03	0.000E+00	1.096E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.662E+01	0.000E+00	2.662E+01	CS+
21	6.656E+00	0.000E+00	6.656E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	2.801E+02	0.000E+00	2.801E+02	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	5.764E+01	0.000E+00	5.764E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.969E+06	0.000E+00	3.969E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	7.659E+03	0.000E+00	7.659E+03	K+
32	0.000E+00	0.000E+00	0.000E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	0.000E+00	0.000E+00	0.000E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.797E+05	0.000E+00	4.797E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	6.852E+01	0.000E+00	6.852E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	1.068E+05	0.000E+00	1.068E+05	NO2-
44	9.190E+04	0.000E+00	9.190E+04	NO3-
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	2.926E+05	0.000E+00	2.926E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	0.000E+00	0.000E+00	0.000E+00	PB+4
49	1.616E+04	0.000E+00	1.616E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	0.000E+00	0.000E+00	0.000E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.024E+04	0.000E+00	1.024E+04	SO4-2
61	0.000E+00	0.000E+00	0.000E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	3.805E+04	0.000E+00	3.805E+04	TOC
68	0.000E+00	0.000E+00	0.000E+00	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	0.000E+00	0.000E+00	0.000E+00	ZRO2:2H2O
74	0.000E+00	0.000E+00	0.000E+00	C14 (Ci)
75	1.340E-01	0.000E+00	1.340E-01	Sr90 (Ci)
76	3.430E-05	0.000E+00	3.430E-05	Y90 (Ci)
77	6.094E+01	0.000E+00	6.094E+01	Tc99 (Ci)
78	6.656E+00	0.000E+00	6.656E+00	Cs137 (Ci)
79	1.019E-06	0.000E+00	1.019E-06	Ba137 (Ci)
80	0.000E+00	0.000E+00	0.000E+00	U235 (Ci)
81	0.000E+00	0.000E+00	0.000E+00	U238 (Ci)
82	0.000E+00	0.000E+00	0.000E+00	Np237 (Ci)
83	0.000E+00	0.000E+00	0.000E+00	Pu238 (Ci)
84	5.728E-02	0.000E+00	5.728E-02	Pu239 (Ci)
85	3.542E-03	0.000E+00	3.542E-03	Pu240 (Ci)
86	5.048E-05	0.000E+00	5.048E-05	Pu241 (Ci)
87	9.437E-03	0.000E+00	9.437E-03	Am241 (Ci)
88	0.000E+00	0.000E+00	0.000E+00	Cm244 (Ci)
89	5.297E+06	0.000E+00	5.297E+06	Total
Tot	5.297E+06	0.000E+00	5.297E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
23	4.376E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	1.032E+00	0.000E+00	1.032E+00	AG+
2	5.001E+04	0.000E+00	5.001E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	1.380E-02	0.000E+00	1.380E-02	AM+3
5	3.640E-01	0.000E+00	3.640E-01	AS+5
6	3.912E-01	0.000E+00	3.912E-01	B+3
7	2.217E-01	0.000E+00	2.217E-01	BA+2
8	1.771E-03	0.000E+00	1.771E-03	BE+2
9	1.176E+00	0.000E+00	1.176E+00	BI+3
10	2.091E+02	0.000E+00	2.091E+02	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	5.596E-01	0.000E+00	5.596E-01	CD+2
13	5.863E-01	0.000E+00	5.863E-01	CE+3
14	2.856E+03	0.000E+00	2.856E+03	CL-
15	1.271E-05	0.000E+00	1.271E-05	CM+3
16	4.238E-05	0.000E+00	4.238E-05	CO+3
17	1.069E+04	0.000E+00	1.069E+04	CO3-2
18	8.083E+02	0.000E+00	8.083E+02	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	3.776E+00	0.000E+00	3.776E+00	CS+
21	9.441E-01	0.000E+00	9.441E-01	CS-137
22	9.290E-02	0.000E+00	9.290E-02	CU+2
23	7.503E+02	0.000E+00	7.503E+02	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.508E+01	0.000E+00	1.508E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	4.055E+06	0.000E+00	4.055E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	2.304E-02	0.000E+00	2.304E-02	I-
31	1.307E+03	0.000E+00	1.307E+03	K+
32	5.074E-02	0.000E+00	5.074E-02	LA+3
33	3.999E-02	0.000E+00	3.999E-02	LI+
34	1.206E+00	0.000E+00	1.206E+00	MG+2
35	2.347E-01	0.000E+00	2.347E-01	MN+2
36	8.761E-02	0.000E+00	8.761E-02	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	1.402E+00	0.000E+00	1.402E+00	MO+6
39	1.779E+05	0.000E+00	1.779E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.114E+01	0.000E+00	1.114E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.340E+04	0.000E+00	3.340E+04	NO2-
44	3.490E+04	0.000E+00	3.490E+04	NO3-
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	9.925E+04	0.000E+00	9.925E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	2.539E+00	0.000E+00	2.539E+00	PB+4
49	2.531E+03	0.000E+00	2.531E+03	PO4-3
50	1.413E-01	0.000E+00	1.413E-01	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	2.391E-02	0.000E+00	2.391E-02	RE+7
53	2.358E-01	0.000E+00	2.358E-01	RH+3
54	7.878E-02	0.000E+00	7.878E-02	RU+3
55	1.119E-01	0.000E+00	1.119E-01	SB+5
56	3.923E-01	0.000E+00	3.923E-01	SE+6
57	1.641E+02	0.000E+00	1.641E+02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	4.893E+03	0.000E+00	4.893E+03	SO4-2
61	4.880E-01	0.000E+00	4.880E-01	SR+2
62	5.346E+00	0.000E+00	5.346E+00	TCO4-
63	2.717E-01	0.000E+00	2.717E-01	TE+6
64	1.815E-01	0.000E+00	1.815E-01	TH+4
65	7.769E-02	0.000E+00	7.769E-02	TI+4
66	2.271E+00	0.000E+00	2.271E+00	TL+3
67	6.096E+03	0.000E+00	6.096E+03	TOC
68	3.868E+02	0.000E+00	3.868E+02	UO2+2
69	2.151E-02	0.000E+00	2.151E-02	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	1.891E-02	0.000E+00	1.891E-02	ZN+2
72	4.977E+00	0.000E+00	4.977E+00	ZR+4
73	8.801E-02	0.000E+00	8.801E-02	ZRO2:2H2O
74	5.414E-04	0.000E+00	5.414E-04	C14 (Ci)
75	2.410E-02	0.000E+00	2.410E-02	Sr90 (Ci)
76	6.169E-06	0.000E+00	6.169E-06	Y90 (Ci)
77	8.520E+00	0.000E+00	8.520E+00	Tc99 (Ci)
78	9.441E-01	0.000E+00	9.441E-01	Cs137 (Ci)
79	1.445E-07	0.000E+00	1.445E-07	Ba137 (Ci)
80	2.880E-01	0.000E+00	2.880E-01	U235 (Ci)
81	4.418E+01	0.000E+00	4.418E+01	U238 (Ci)
82	1.239E-03	0.000E+00	1.239E-03	Np237 (Ci)
83	1.676E-05	0.000E+00	1.676E-05	Pu238 (Ci)
84	1.062E-02	0.000E+00	1.062E-02	Pu239 (Ci)
85	6.629E-04	0.000E+00	6.629E-04	Pu240 (Ci)
86	1.042E-05	0.000E+00	1.042E-05	Pu241 (Ci)
87	2.452E-03	0.000E+00	2.452E-03	Am241 (Ci)
88	1.552E-08	0.000E+00	1.552E-08	Cm244 (Ci)
89	4.481E+06	0.000E+00	4.481E+06	Total
Tot	4.481E+06	0.000E+00	4.481E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
24	4.389E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	8.874E-02	0.000E+00	8.874E-02	AG+
2	2.113E+04	0.000E+00	2.113E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	1.186E-03	0.000E+00	1.186E-03	AM+3
5	3.129E-02	0.000E+00	3.129E-02	AS+5
6	3.363E-02	0.000E+00	3.363E-02	B+3
7	1.906E-02	0.000E+00	1.906E-02	BA+2
8	1.523E-04	0.000E+00	1.523E-04	BE+2
9	1.831E+01	0.000E+00	1.831E+01	BI+3
10	1.404E+01	0.000E+00	1.404E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	4.811E-02	0.000E+00	4.811E-02	CD+2
13	8.562E+00	0.000E+00	8.562E+00	CE+3
14	1.735E+03	0.000E+00	1.735E+03	CL-
15	1.093E-06	0.000E+00	1.093E-06	CM+3
16	3.643E-06	0.000E+00	3.643E-06	CO+3
17	5.380E+03	0.000E+00	5.380E+03	CO3-2
18	3.849E+02	0.000E+00	3.849E+02	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	3.794E+00	0.000E+00	3.794E+00	CS+
21	9.486E-01	0.000E+00	9.486E-01	CS-137
22	7.987E-03	0.000E+00	7.987E-03	CU+2
23	9.896E+02	0.000E+00	9.896E+02	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	7.671E+01	0.000E+00	7.671E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	4.044E+06	0.000E+00	4.044E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	1.980E-03	0.000E+00	1.980E-03	I-
31	3.461E+03	0.000E+00	3.461E+03	K+
32	4.362E-03	0.000E+00	4.362E-03	LA+3
33	3.438E-03	0.000E+00	3.438E-03	LI+
34	4.175E+00	0.000E+00	4.175E+00	MG+2
35	2.018E-02	0.000E+00	2.018E-02	MN+2
36	5.183E+00	0.000E+00	5.183E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	4.607E+00	0.000E+00	4.607E+00	MO+6
39	1.703E+05	0.000E+00	1.703E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	7.622E+00	0.000E+00	7.622E+00	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.099E+04	0.000E+00	4.099E+04	NO2-
44	2.057E+05	0.000E+00	2.057E+05	NO3-
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	5.259E+04	0.000E+00	5.259E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	4.034E+01	0.000E+00	4.034E+01	PB+4
49	3.161E+03	0.000E+00	3.161E+03	PO4-3
50	1.214E-02	0.000E+00	1.214E-02	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	2.055E-03	0.000E+00	2.055E-03	RE+7
53	2.027E-02	0.000E+00	2.027E-02	RH+3
54	6.773E-03	0.000E+00	6.773E-03	RU+3
55	9.622E-03	0.000E+00	9.622E-03	SB+5
56	3.629E-02	0.000E+00	3.629E-02	SE+6
57	1.411E+01	0.000E+00	1.411E+01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	8.033E+03	0.000E+00	8.033E+03	SO4-2
61	4.778E-02	0.000E+00	4.778E-02	SR+2
62	4.596E-01	0.000E+00	4.596E-01	TCO4-
63	2.335E-02	0.000E+00	2.335E-02	TE+6
64	1.560E-02	0.000E+00	1.560E-02	TH+4
65	3.743E-01	0.000E+00	3.743E-01	TI+4
66	1.952E-01	0.000E+00	1.952E-01	TL+3
67	3.087E+03	0.000E+00	3.087E+03	TOC
68	7.261E+02	0.000E+00	7.261E+02	UO2+2
69	1.850E-03	0.000E+00	1.850E-03	V+5
70	-1.437E-12	0.000E+00	-1.437E-12	W+6
71	2.471E+01	0.000E+00	2.471E+01	ZN+2
72	4.361E+00	0.000E+00	4.361E+00	ZR+4
73	7.567E-03	0.000E+00	7.567E-03	ZRO2:2H2O
74	2.205E-02	0.000E+00	2.205E-02	C14 (Ci)
75	2.189E-01	0.000E+00	2.189E-01	Sr90 (Ci)
76	5.605E-05	0.000E+00	5.605E-05	Y90 (Ci)
77	6.585E+00	0.000E+00	6.585E+00	Tc99 (Ci)
78	9.486E-01	0.000E+00	9.486E-01	Cs137 (Ci)
79	1.451E-07	0.000E+00	1.451E-07	Ba137 (Ci)
80	1.213E+01	0.000E+00	1.213E+01	U235 (Ci)
81	1.857E+03	0.000E+00	1.857E+03	U238 (Ci)
82	2.997E-02	0.000E+00	2.997E-02	Np237 (Ci)
83	2.484E-05	0.000E+00	2.484E-05	Pu238 (Ci)
84	1.563E-01	0.000E+00	1.563E-01	Pu239 (Ci)
85	9.175E-03	0.000E+00	9.175E-03	Pu240 (Ci)
86	1.745E-04	0.000E+00	1.745E-04	Pu241 (Ci)
87	6.452E-02	0.000E+00	6.452E-02	Am241 (Ci)
88	1.318E-06	0.000E+00	1.318E-06	Cm244 (Ci)
89	4.562E+06	0.000E+00	4.562E+06	Total
Tot	4.562E+06	0.000E+00	4.562E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
25	4.426E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	2.019E-02	0.000E+00	2.019E-02	AG+
2	2.311E-04	0.000E+00	2.311E-04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	2.699E-04	0.000E+00	2.699E-04	AM+3
5	7.120E-03	0.000E+00	7.120E-03	AS+5
6	7.651E-03	0.000E+00	7.651E-03	B+3
7	4.336E-03	0.000E+00	4.336E-03	BA+2
8	3.464E-05	0.000E+00	3.464E-05	BE+2
9	6.666E-01	0.000E+00	6.666E-01	BI+3
10	3.318E-01	0.000E+00	3.318E-01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	1.095E-02	0.000E+00	1.095E-02	CD+2
13	1.948E+00	0.000E+00	1.948E+00	CE+3
14	4.213E+03	0.000E+00	4.213E+03	CL-
15	2.487E-07	0.000E+00	2.487E-07	CM+3
16	8.289E-07	0.000E+00	8.289E-07	CO+3
17	1.231E+04	0.000E+00	1.231E+04	CO3-2
18	1.092E+03	0.000E+00	1.092E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	8.633E-01	0.000E+00	8.633E-01	CS+
21	2.158E-01	0.000E+00	2.158E-01	CS-137
22	1.617E-03	0.000E+00	1.617E-03	CU+2
23	3.365E+03	0.000E+00	3.365E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.049E+02	0.000E+00	1.049E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.877E+06	0.000E+00	3.877E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	4.906E-04	0.000E+00	4.906E-04	I-
31	1.390E+03	0.000E+00	1.390E+03	K+
32	9.925E-04	0.000E+00	9.925E-04	LA+3
33	7.621E-04	0.000E+00	7.621E-04	LI+
34	9.499E-01	0.000E+00	9.499E-01	MG+2
35	4.591E-03	0.000E+00	4.591E-03	MN+2
36	1.136E+01	0.000E+00	1.136E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	1.048E+00	0.000E+00	1.048E+00	MO+6
39	4.093E+05	0.000E+00	4.093E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.018E+01	0.000E+00	2.018E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	7.551E+04	0.000E+00	7.551E+04	NO2-
44	5.786E+05	0.000E+00	5.786E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.093E+05	0.000E+00	1.093E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	6.603E-01	0.000E+00	6.603E-01	PB+4
49	1.062E+04	0.000E+00	1.062E+04	PO4-3
50	2.763E-03	0.000E+00	2.763E-03	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	4.676E-04	0.000E+00	4.676E-04	RE+7
53	4.612E-03	0.000E+00	4.612E-03	RH+3
54	1.541E-03	0.000E+00	1.541E-03	RU+3
55	2.189E-03	0.000E+00	2.189E-03	SB+5
56	8.257E-03	0.000E+00	8.257E-03	SE+6
57	3.209E+00	0.000E+00	3.209E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.452E+04	0.000E+00	1.452E+04	SO4-2
61	1.321E-02	0.000E+00	1.321E-02	SR+2
62	1.046E-01	0.000E+00	1.046E-01	TCO4-
63	5.313E-03	0.000E+00	5.313E-03	TE+6
64	3.549E-03	0.000E+00	3.549E-03	TH+4
65	8.516E-02	0.000E+00	8.516E-02	TI+4
66	4.442E-02	0.000E+00	4.442E-02	TL+3
67	8.679E+03	0.000E+00	8.679E+03	TOC
68	3.652E+02	0.000E+00	3.652E+02	UO2+2
69	4.208E-04	0.000E+00	4.208E-04	V+5
70	-1.098E-11	0.000E+00	-1.098E-11	W+6
71	5.621E+00	0.000E+00	5.621E+00	ZN+2
72	9.922E-01	0.000E+00	9.922E-01	ZR+4
73	1.722E-03	0.000E+00	1.722E-03	ZRO2:2H2O
74	5.019E-03	0.000E+00	5.019E-03	C14 (Ci)
75	4.981E-02	0.000E+00	4.981E-02	Sr90 (Ci)
76	1.275E-05	0.000E+00	1.275E-05	Y90 (Ci)
77	1.498E+00	0.000E+00	1.498E+00	Tc99 (Ci)
78	2.158E-01	0.000E+00	2.158E-01	Cs137 (Ci)
79	3.301E-08	0.000E+00	3.301E-08	Ba137 (Ci)
80	9.805E+00	0.000E+00	9.805E+00	U235 (Ci)
81	1.340E+03	0.000E+00	1.340E+03	U238 (Ci)
82	6.819E-03	0.000E+00	6.819E-03	Np237 (Ci)
83	1.332E-05	0.000E+00	1.332E-05	Pu238 (Ci)
84	5.576E-02	0.000E+00	5.576E-02	Pu239 (Ci)
85	3.491E-03	0.000E+00	3.491E-03	Pu240 (Ci)
86	8.803E-05	0.000E+00	8.803E-05	Pu241 (Ci)
87	1.471E-02	0.000E+00	1.471E-02	Am241 (Ci)
88	2.998E-07	0.000E+00	2.998E-07	Cm244 (Ci)
89	5.130E+06	0.000E+00	5.130E+06	Total
Tot	5.130E+06	0.000E+00	5.130E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
26	4.452E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.281E+04	0.000E+00	2.281E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	9.650E+01	0.000E+00	9.650E+01	BI+3
10	3.088E+01	0.000E+00	3.088E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	8.002E-02	0.000E+00	8.002E-02	CE+3
14	4.189E+03	0.000E+00	4.189E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.238E+04	0.000E+00	1.238E+04	CO3-2
18	1.040E+03	0.000E+00	1.040E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	4.215E-02	0.000E+00	4.215E-02	CS+
21	1.054E-02	0.000E+00	1.054E-02	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	7.953E+03	0.000E+00	7.953E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.234E+02	0.000E+00	1.234E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.914E+06	0.000E+00	3.914E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	6.103E+02	0.000E+00	6.103E+02	K+
32	-1.540E-12	0.000E+00	-1.540E-12	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	-1.592E-12	0.000E+00	-1.592E-12	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.031E+01	0.000E+00	1.031E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.797E+05	0.000E+00	4.797E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.921E+01	0.000E+00	1.921E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	6.976E+04	0.000E+00	6.976E+04	NO2-
44	5.655E+05	0.000E+00	5.655E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.538E+05	0.000E+00	1.538E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	5.759E-01	0.000E+00	5.759E-01	PB+4
49	3.810E+04	0.000E+00	3.810E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	0.000E+00	0.000E+00	0.000E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.410E+04	0.000E+00	1.410E+04	SO4-2
61	2.369E-03	0.000E+00	2.369E-03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.247E+04	0.000E+00	1.247E+04	TOC
68	2.052E+02	0.000E+00	2.052E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	-5.668E-12	0.000E+00	-5.668E-12	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	3.687E+01	0.000E+00	3.687E+01	ZRO2:2H2O
74	6.726E-05	0.000E+00	6.726E-05	C14 (Ci)
75	2.006E-03	0.000E+00	2.006E-03	Sr90 (Ci)
76	5.136E-07	0.000E+00	5.136E-07	Y90 (Ci)
77	1.842E-02	0.000E+00	1.842E-02	Tc99 (Ci)
78	1.054E-02	0.000E+00	1.054E-02	Cs137 (Ci)
79	1.618E-09	0.000E+00	1.618E-09	Ba137 (Ci)
80	7.136E+00	0.000E+00	7.136E+00	U235 (Ci)
81	9.294E+02	0.000E+00	9.294E+02	U238 (Ci)
82	5.882E-04	0.000E+00	5.882E-04	Np237 (Ci)
83	9.974E-06	0.000E+00	9.974E-06	Pu238 (Ci)
84	5.051E-02	0.000E+00	5.051E-02	Pu239 (Ci)
85	3.228E-03	0.000E+00	3.228E-03	Pu240 (Ci)
86	8.221E-05	0.000E+00	8.221E-05	Pu241 (Ci)
87	9.986E-04	0.000E+00	9.986E-04	Am241 (Ci)
88	2.749E-10	0.000E+00	2.749E-10	Cm244 (Ci)
89	5.297E+06	0.000E+00	5.297E+06	Total
Tot	5.297E+06	0.000E+00	5.297E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
27	4.479E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	7.942E+00	0.000E+00	7.942E+00	AG+
2	6.870E+04	0.000E+00	6.870E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	1.062E-01	0.000E+00	1.062E-01	AM+3
5	2.805E+00	0.000E+00	2.805E+00	AS+5
6	3.010E+00	0.000E+00	3.010E+00	B+3
7	1.705E+00	0.000E+00	1.705E+00	BA+2
8	1.363E-02	0.000E+00	1.363E-02	BE+2
9	9.985E+00	0.000E+00	9.985E+00	BI+3
10	3.119E+01	0.000E+00	3.119E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	4.316E+00	0.000E+00	4.316E+00	CD+2
13	4.623E+00	0.000E+00	4.623E+00	CE+3
14	1.377E+03	0.000E+00	1.377E+03	CL-
15	9.781E-05	0.000E+00	9.781E-05	CM+3
16	3.260E-04	0.000E+00	3.260E-04	CO+3
17	6.262E+04	0.000E+00	6.262E+04	CO3-2
18	3.794E+03	0.000E+00	3.794E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	7.829E-01	0.000E+00	7.829E-01	CS+
21	1.957E-01	0.000E+00	1.957E-01	CS-137
22	7.148E-01	0.000E+00	7.148E-01	CU+2
23	5.549E+03	0.000E+00	5.549E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	5.791E+01	0.000E+00	5.791E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.904E+06	0.000E+00	3.904E+06	H2O
29	5.024E-04	0.000E+00	5.024E-04	HG+2
30	1.772E-01	0.000E+00	1.772E-01	I-
31	2.067E+03	0.000E+00	2.067E+03	K+
32	3.905E-01	0.000E+00	3.905E-01	LA+3
33	3.076E-01	0.000E+00	3.076E-01	LI+
34	9.399E+00	0.000E+00	9.399E+00	MG+2
35	1.806E+00	0.000E+00	1.806E+00	MN+2
36	1.352E+00	0.000E+00	1.352E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	1.078E+01	0.000E+00	1.078E+01	MO+6
39	3.865E+05	0.000E+00	3.865E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.324E+01	0.000E+00	1.324E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	1.450E+05	0.000E+00	1.450E+05	NO2-
44	1.834E+05	0.000E+00	1.834E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.062E+05	0.000E+00	1.062E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.981E+01	0.000E+00	1.981E+01	PB+4
49	1.769E+03	0.000E+00	1.769E+03	PO4-3
50	1.087E+00	0.000E+00	1.087E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	1.639E-01	0.000E+00	1.639E-01	RE+7
53	1.614E+00	0.000E+00	1.614E+00	RH+3
54	6.061E-01	0.000E+00	6.061E-01	RU+3
55	8.611E-01	0.000E+00	8.611E-01	SB+5
56	3.018E+00	0.000E+00	3.018E+00	SE+6
57	1.262E+03	0.000E+00	1.262E+03	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	2.698E+04	0.000E+00	2.698E+04	SO4-2
61	3.758E+00	0.000E+00	3.758E+00	SR+2
62	4.113E+01	0.000E+00	4.113E+01	TCO4-
63	2.090E+00	0.000E+00	2.090E+00	TE+6
64	1.396E+00	0.000E+00	1.396E+00	TH+4
65	5.977E-01	0.000E+00	5.977E-01	TI+4
66	1.747E+01	0.000E+00	1.747E+01	TL+3
67	6.509E+03	0.000E+00	6.509E+03	TOC
68	2.993E+03	0.000E+00	2.993E+03	UO2+2
69	1.655E-01	0.000E+00	1.655E-01	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	1.898E-01	0.000E+00	1.898E-01	ZN+2
72	3.829E+01	0.000E+00	3.829E+01	ZR+4
73	1.229E+00	0.000E+00	1.229E+00	ZRO2:2H2O
74	4.471E-03	0.000E+00	4.471E-03	C14 (Ci)
75	4.340E-02	0.000E+00	4.340E-02	Sr90 (Ci)
76	1.111E-05	0.000E+00	1.111E-05	Y90 (Ci)
77	7.570E-01	0.000E+00	7.570E-01	Tc99 (Ci)
78	1.957E-01	0.000E+00	1.957E-01	Cs137 (Ci)
79	2.393E-08	0.000E+00	2.393E-08	Ba137 (Ci)
80	2.462E+00	0.000E+00	2.462E+00	U235 (Ci)
81	3.754E+02	0.000E+00	3.754E+02	U238 (Ci)
82	9.995E-03	0.000E+00	9.995E-03	Np237 (Ci)
83	1.292E-04	0.000E+00	1.292E-04	Pu238 (Ci)
84	2.408E-02	0.000E+00	2.408E-02	Pu239 (Ci)
85	1.438E-03	0.000E+00	1.438E-03	Pu240 (Ci)
86	2.876E-05	0.000E+00	2.876E-05	Pu241 (Ci)
87	8.960E-03	0.000E+00	8.960E-03	Am241 (Ci)
88	1.217E-07	0.000E+00	1.217E-07	Cm244 (Ci)
89	4.929E+06	0.000E+00	4.929E+06	Total
Tot	4.929E+06	0.000E+00	4.929E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
28	4.461E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.035E+04	0.000E+00	3.035E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	3.278E-01	0.000E+00	3.278E-01	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	4.256E+01	0.000E+00	4.256E+01	BI+3
10	4.052E+01	0.000E+00	4.052E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	7.261E+00	0.000E+00	7.261E+00	CE+3
14	2.795E+03	0.000E+00	2.795E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	2.083E+04	0.000E+00	2.083E+04	CO3-2
18	2.905E+03	0.000E+00	2.905E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.076E+01	0.000E+00	1.076E+01	CS+
21	2.690E+00	0.000E+00	2.690E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	4.789E+03	0.000E+00	4.789E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.539E+02	0.000E+00	1.539E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.889E+06	0.000E+00	3.889E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.360E+03	0.000E+00	1.360E+03	K+
32	2.835E+00	0.000E+00	2.835E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	1.235E+00	0.000E+00	1.235E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	2.727E+01	0.000E+00	2.727E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	6.856E-01	0.000E+00	6.856E-01	MO+6
39	3.928E+05	0.000E+00	3.928E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.411E+01	0.000E+00	2.411E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	5.643E+04	0.000E+00	5.643E+04	NO2-
44	5.397E+05	0.000E+00	5.397E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.060E+05	0.000E+00	1.060E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.602E+02	0.000E+00	1.602E+02	PB+4
49	2.513E+04	0.000E+00	2.513E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	3.927E-04	0.000E+00	3.927E-04	SE+6
57	0.000E+00	0.000E+00	0.000E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.315E+04	0.000E+00	1.315E+04	SO4-2
61	2.528E-02	0.000E+00	2.528E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	5.618E-02	0.000E+00	5.618E-02	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	5.455E+03	0.000E+00	5.455E+03	TOC
68	2.088E+03	0.000E+00	2.088E+03	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	4.274E+00	0.000E+00	4.274E+00	ZN+2
72	6.011E-01	0.000E+00	6.011E-01	ZR+4
73	2.473E+01	0.000E+00	2.473E+01	ZRO2:2H2O
74	4.786E-03	0.000E+00	4.786E-03	C14 (Ci)
75	8.125E-02	0.000E+00	8.125E-02	Sr90 (Ci)
76	2.080E-05	0.000E+00	2.080E-05	Y90 (Ci)
77	2.806E+00	0.000E+00	2.806E+00	Tc99 (Ci)
78	2.690E+00	0.000E+00	2.690E+00	Cs137 (Ci)
79	4.111E-07	0.000E+00	4.111E-07	Ba137 (Ci)
80	1.939E+01	0.000E+00	1.939E+01	U235 (Ci)
81	2.777E+03	0.000E+00	2.777E+03	U238 (Ci)
82	3.111E-02	0.000E+00	3.111E-02	Np237 (Ci)
83	2.967E-05	0.000E+00	2.967E-05	Pu238 (Ci)
84	9.584E-02	0.000E+00	9.584E-02	Pu239 (Ci)
85	5.179E-03	0.000E+00	5.179E-03	Pu240 (Ci)
86	8.999E-05	0.000E+00	8.999E-05	Pu241 (Ci)
87	1.534E-02	0.000E+00	1.534E-02	Am241 (Ci)
88	2.027E-07	0.000E+00	2.027E-07	Cm244 (Ci)
89	5.093E+06	0.000E+00	5.093E+06	Total
Tot	5.093E+06	0.000E+00	5.093E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
29	4.503E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	3.610E-01	0.000E+00	3.610E-01	AG+
2	2.206E+04	0.000E+00	2.206E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	4.826E-03	0.000E+00	4.826E-03	AM+3
5	1.274E-01	0.000E+00	1.274E-01	AS+5
6	1.368E-01	0.000E+00	1.368E-01	B+3
7	7.753E-02	0.000E+00	7.753E-02	BA+2
8	6.195E-04	0.000E+00	6.195E-04	BE+2
9	4.160E+01	0.000E+00	4.160E+01	BI+3
10	2.136E+01	0.000E+00	2.136E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	1.959E-01	0.000E+00	1.959E-01	CD+2
13	2.829E-01	0.000E+00	2.829E-01	CE+3
14	2.828E+03	0.000E+00	2.828E+03	CL-
15	4.446E-06	0.000E+00	4.446E-06	CM+3
16	1.482E-05	0.000E+00	1.482E-05	CO+3
17	1.258E+04	0.000E+00	1.258E+04	CO3-2
18	8.842E+02	0.000E+00	8.842E+02	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.556E+00	0.000E+00	1.556E+00	CS+
21	3.890E-01	0.000E+00	3.890E-01	CS-137
22	3.249E-02	0.000E+00	3.249E-02	CU+2
23	2.316E+03	0.000E+00	2.316E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.341E+02	0.000E+00	1.341E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.958E+06	0.000E+00	3.958E+06	H2O
29	8.636E-06	0.000E+00	8.636E-06	HG+2
30	8.057E-03	0.000E+00	8.057E-03	I-
31	5.121E+02	0.000E+00	5.121E+02	K+
32	1.775E-02	0.000E+00	1.775E-02	LA+3
33	1.399E-02	0.000E+00	1.399E-02	LI+
34	4.571E-01	0.000E+00	4.571E-01	MG+2
35	8.209E-02	0.000E+00	8.209E-02	MN+2
36	6.712E+00	0.000E+00	6.712E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	5.268E-01	0.000E+00	5.268E-01	MO+6
39	3.114E+05	0.000E+00	3.114E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.340E+01	0.000E+00	1.340E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	5.435E+04	0.000E+00	5.435E+04	NO2-
44	3.779E+05	0.000E+00	3.779E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.042E+05	0.000E+00	1.042E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	3.852E+01	0.000E+00	3.852E+01	PB+4
49	6.761E+03	0.000E+00	6.761E+03	PO4-3
50	4.940E-02	0.000E+00	4.940E-02	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	8.361E-03	0.000E+00	8.361E-03	RE+7
53	8.247E-02	0.000E+00	8.247E-02	RH+3
54	2.755E-02	0.000E+00	2.755E-02	RU+3
55	3.914E-02	0.000E+00	3.914E-02	SB+5
56	1.372E-01	0.000E+00	1.372E-01	SE+6
57	5.739E+01	0.000E+00	5.739E+01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.170E+04	0.000E+00	1.170E+04	SO4-2
61	1.761E-01	0.000E+00	1.781E-01	SR+2
62	1.870E+00	0.000E+00	1.870E+00	TCO4-
63	9.501E-02	0.000E+00	9.501E-02	TE+6
64	6.347E-02	0.000E+00	6.347E-02	TH+4
65	3.017E-02	0.000E+00	3.017E-02	TI+4
66	7.943E-01	0.000E+00	7.943E-01	TL+3
67	9.661E+03	0.000E+00	9.661E+03	TOC
68	7.157E+02	0.000E+00	7.157E+02	UO2+2
69	7.525E-03	0.000E+00	7.525E-03	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	2.088E-01	0.000E+00	2.088E-01	ZN+2
72	1.773E+00	0.000E+00	1.773E+00	ZR+4
73	3.078E-02	0.000E+00	3.078E-02	ZRO2:2H2O
74	2.113E-02	0.000E+00	2.113E-02	C14 (Ci)
75	3.441E-01	0.000E+00	3.441E-01	Sr90 (Ci)
76	8.809E-05	0.000E+00	8.809E-05	Y90 (Ci)
77	6.466E+00	0.000E+00	6.466E+00	Tc99 (Ci)
78	3.890E-01	0.000E+00	3.890E-01	Cs137 (Ci)
79	5.951E-08	0.000E+00	5.951E-08	Ba137 (Ci)
80	4.066E+01	0.000E+00	4.066E+01	U235 (Ci)
81	6.151E+03	0.000E+00	6.151E+03	U238 (Ci)
82	4.989E-03	0.000E+00	4.989E-03	Np237 (Ci)
83	6.873E-05	0.000E+00	6.873E-05	Pu238 (Ci)
84	3.669E-01	0.000E+00	3.669E-01	Pu239 (Ci)
85	2.223E-02	0.000E+00	2.223E-02	Pu240 (Ci)
86	4.528E-04	0.000E+00	4.528E-04	Pu241 (Ci)
87	6.539E-02	0.000E+00	6.539E-02	Am241 (Ci)
88	1.619E-06	0.000E+00	1.619E-06	Cm244 (Ci)
89	4.876E+06	0.000E+00	4.876E+06	Total
Tot	4.876E+06	0.000E+00	4.876E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
30	4.505E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	1.115E+00	0.000E+00	1.115E+00	AG+
2	3.906E+04	0.000E+00	3.906E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	1.490E-02	0.000E+00	1.490E-02	AM+3
5	3.931E-01	0.000E+00	3.931E-01	AS+5
6	4.225E-01	0.000E+00	4.225E-01	B+3
7	6.058E-01	0.000E+00	6.058E-01	BA+2
8	1.291E-03	0.000E+00	1.291E-03	BE+2
9	2.128E+01	0.000E+00	2.128E+01	BI+3
10	3.327E+01	0.000E+00	3.327E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	6.044E-01	0.000E+00	6.044E-01	CD+2
13	8.087E-01	0.000E+00	8.087E-01	CE+3
14	2.325E+03	0.000E+00	2.325E+03	CL-
15	1.373E-05	0.000E+00	1.373E-05	CM+3
16	4.577E-05	0.000E+00	4.577E-05	CO+3
17	1.929E+04	0.000E+00	1.929E+04	CO3-2
18	9.253E+03	0.000E+00	9.253E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.113E+00	0.000E+00	1.113E+00	CS+
21	2.783E-01	0.000E+00	2.783E-01	CS-137
22	1.003E-01	0.000E+00	1.003E-01	CU+2
23	2.783E+03	0.000E+00	2.783E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	2.193E+02	0.000E+00	2.193E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.804E+06	0.000E+00	3.804E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	2.488E-02	0.000E+00	2.488E-02	I-
31	2.908E+02	0.000E+00	2.908E+02	K+
32	5.480E-02	0.000E+00	5.480E-02	LA+3
33	4.319E-02	0.000E+00	4.319E-02	LI+
34	5.469E-01	0.000E+00	5.469E-01	MG+2
35	2.535E-01	0.000E+00	2.535E-01	MN+2
36	1.926E+01	0.000E+00	1.926E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	1.185E+00	0.000E+00	1.185E+00	MO+6
39	3.661E+05	0.000E+00	3.661E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.307E+01	0.000E+00	2.307E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.755E+04	0.000E+00	3.755E+04	NO2-
44	6.641E+05	0.000E+00	6.641E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	5.530E+04	0.000E+00	5.530E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	2.985E+02	0.000E+00	2.985E+02	PB+4
49	1.247E+04	0.000E+00	1.247E+04	PO4-3
50	1.526E-01	0.000E+00	1.526E-01	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	2.582E-02	0.000E+00	2.582E-02	RE+7
53	2.547E-01	0.000E+00	2.547E-01	RH+3
54	8.508E-02	0.000E+00	8.508E-02	RU+3
55	1.209E-01	0.000E+00	1.209E-01	SB+5
56	4.237E-01	0.000E+00	4.237E-01	SE+6
57	1.772E+02	0.000E+00	1.772E+02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	8.463E+03	0.000E+00	8.463E+03	SO4-2
61	5.315E-01	0.000E+00	5.315E-01	SR+2
62	5.774E+00	0.000E+00	5.774E+00	TCO4-
63	2.934E-01	0.000E+00	2.934E-01	TE+6
64	1.960E-01	0.000E+00	1.960E-01	TH+4
65	8.391E-02	0.000E+00	8.391E-02	TI+4
66	2.453E+00	0.000E+00	2.453E+00	TL+3
67	7.011E+03	0.000E+00	7.011E+03	TOC
68	1.946E+03	0.000E+00	1.946E+03	UO2+2
69	2.324E-02	0.000E+00	2.324E-02	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	2.042E-02	0.000E+00	2.042E-02	ZN+2
72	5.375E+00	0.000E+00	5.375E+00	ZR+4
73	1.343E+01	0.000E+00	1.343E+01	ZRO2:2H2O
74	4.514E-03	0.000E+00	4.514E-03	C14 (Ci)
75	1.802E-01	0.000E+00	1.802E-01	Sr90 (Ci)
76	4.613E-05	0.000E+00	4.613E-05	Y90 (Ci)
77	2.813E+00	0.000E+00	2.813E+00	Tc99 (Ci)
78	2.783E-01	0.000E+00	2.783E-01	Cs137 (Ci)
79	4.246E-08	0.000E+00	4.246E-08	Ba137 (Ci)
80	4.773E+01	0.000E+00	4.773E+01	U235 (Ci)
81	6.032E+03	0.000E+00	6.032E+03	U238 (Ci)
82	3.956E-03	0.000E+00	3.956E-03	Np237 (Ci)
83	5.061E-05	0.000E+00	5.061E-05	Pu238 (Ci)
84	2.191E-01	0.000E+00	2.191E-01	Pu239 (Ci)
85	1.257E-02	0.000E+00	1.257E-02	Pu240 (Ci)
86	2.641E-04	0.000E+00	2.641E-04	Pu241 (Ci)
87	3.445E-02	0.000E+00	3.445E-02	Am241 (Ci)
88	3.832E-07	0.000E+00	3.832E-07	Cm244 (Ci)
89	5.031E+06	0.000E+00	5.031E+06	Total
Tot	5.031E+06	0.000E+00	5.031E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
31	4.531E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	7.539E+00	0.000E+00	7.539E+00	AG+
2	6.939E+04	0.000E+00	6.939E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	1.008E-01	0.000E+00	1.008E-01	AM+3
5	2.659E+00	0.000E+00	2.659E+00	AS+5
6	2.857E+00	0.000E+00	2.857E+00	B+3
7	1.680E+00	0.000E+00	1.680E+00	BA+2
8	8.730E-03	0.000E+00	8.730E-03	BE+2
9	2.564E+01	0.000E+00	2.564E+01	BI+3
10	3.342E+01	0.000E+00	3.342E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	4.087E+00	0.000E+00	4.087E+00	CD+2
13	5.515E+00	0.000E+00	5.515E+00	CE+3
14	2.326E+03	0.000E+00	2.326E+03	CL-
15	9.285E-05	0.000E+00	9.285E-05	CM+3
16	3.095E-04	0.000E+00	3.095E-04	CO+3
17	8.299E+04	0.000E+00	8.299E+04	CO3-2
18	4.345E+03	0.000E+00	4.345E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	3.946E+00	0.000E+00	3.946E+00	CS+
21	9.866E-01	0.000E+00	9.866E-01	CS-137
22	6.785E-01	0.000E+00	6.785E-01	CU+2
23	5.528E+03	0.000E+00	5.528E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	9.850E+01	0.000E+00	9.850E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.941E+06	0.000E+00	3.941E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	1.682E-01	0.000E+00	1.682E-01	I-
31	6.898E+02	0.000E+00	6.898E+02	K+
32	8.521E-01	0.000E+00	8.521E-01	LA+3
33	2.921E-01	0.000E+00	2.921E-01	LI+
34	3.802E+00	0.000E+00	3.802E+00	MG+2
35	1.714E+00	0.000E+00	1.714E+00	MN+2
36	4.256E+00	0.000E+00	4.256E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	8.016E+00	0.000E+00	8.016E+00	MO+6
39	3.904E+05	0.000E+00	3.904E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.778E+01	0.000E+00	1.778E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	1.394E+05	0.000E+00	1.394E+05	NO2-
44	3.217E+05	0.000E+00	3.217E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.386E+04	0.000E+00	7.386E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	2.752E+01	0.000E+00	2.752E+01	PB+4
49	9.206E+03	0.000E+00	9.206E+03	PO4-3
50	1.032E+00	0.000E+00	1.032E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	1.746E-01	0.000E+00	1.746E-01	RE+7
53	1.722E+00	0.000E+00	1.722E+00	RH+3
54	5.754E-01	0.000E+00	5.754E-01	RU+3
55	8.174E-01	0.000E+00	8.174E-01	SB+5
56	2.865E+00	0.000E+00	2.865E+00	SE+6
57	1.198E+03	0.000E+00	1.198E+03	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	3.047E+04	0.000E+00	3.047E+04	SO4-2
61	3.581E+00	0.000E+00	3.581E+00	SR+2
62	3.905E+01	0.000E+00	3.905E+01	TCO4-
63	1.984E+00	0.000E+00	1.984E+00	TE+6
64	1.325E+00	0.000E+00	1.325E+00	TH+4
65	5.674E-01	0.000E+00	5.674E-01	TI+4
66	1.659E+01	0.000E+00	1.659E+01	TL+3
67	1.083E+04	0.000E+00	1.083E+04	TOC
68	3.555E+03	0.000E+00	3.555E+03	UO2+2
69	1.571E-01	0.000E+00	1.571E-01	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	2.227E-01	0.000E+00	2.227E-01	ZN+2
72	3.635E+01	0.000E+00	3.635E+01	ZR+4
73	8.208E+00	0.000E+00	8.208E+00	ZRO2:2H2O
74	1.757E-02	0.000E+00	1.757E-02	C14 (Ci)
75	2.937E-01	0.000E+00	2.937E-01	Sr90 (Ci)
76	7.519E-05	0.000E+00	7.519E-05	Y90 (Ci)
77	6.002E+00	0.000E+00	6.002E+00	Tc99 (Ci)
78	9.866E-01	0.000E+00	9.866E-01	Cs137 (Ci)
79	1.508E-07	0.000E+00	1.508E-07	Ba137 (Ci)
80	3.387E+01	0.000E+00	3.387E+01	U235 (Ci)
81	5.080E+03	0.000E+00	5.080E+03	U238 (Ci)
82	1.871E-02	0.000E+00	1.871E-02	Np237 (Ci)
83	5.446E-05	0.000E+00	5.446E-05	Pu238 (Ci)
84	3.178E-01	0.000E+00	3.178E-01	Pu239 (Ci)
85	1.909E-02	0.000E+00	1.909E-02	Pu240 (Ci)
86	3.817E-04	0.000E+00	3.817E-04	Pu241 (Ci)
87	5.438E-02	0.000E+00	5.438E-02	Am241 (Ci)
88	1.459E-06	0.000E+00	1.459E-06	Cm244 (Ci)
89	5.088E+06	0.000E+00	5.088E+06	Total
Tot	5.088E+06	0.000E+00	5.088E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
32	4.534E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	3.378E-01	0.000E+00	3.378E-01	AG+
2	2.967E+04	0.000E+00	2.967E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	4.516E-03	0.000E+00	4.516E-03	AM+3
5	1.191E-01	0.000E+00	1.191E-01	AS+5
6	1.280E-01	0.000E+00	1.280E-01	B+3
7	2.657E-01	0.000E+00	2.657E-01	BA+2
8	3.912E-04	0.000E+00	3.912E-04	BE+2
9	6.658E+01	0.000E+00	6.658E+01	BI+3
10	2.952E+01	0.000E+00	2.952E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	1.831E-01	0.000E+00	1.831E-01	CD+2
13	7.245E+00	0.000E+00	7.245E+00	CE+3
14	3.238E+03	0.000E+00	3.238E+03	CL-
15	4.160E-06	0.000E+00	4.160E-06	CM+3
16	1.387E-05	0.000E+00	1.387E-05	CO+3
17	1.656E+04	0.000E+00	1.656E+04	CO3-2
18	2.879E+03	0.000E+00	2.879E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	6.886E+00	0.000E+00	6.886E+00	CS+
21	1.721E+00	0.000E+00	1.721E+00	CS-137
22	3.040E-02	0.000E+00	3.040E-02	CU+2
23	6.500E+03	0.000E+00	6.500E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.683E+02	0.000E+00	1.683E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.933E+06	0.000E+00	3.933E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	7.539E-03	0.000E+00	7.539E-03	I-
31	6.331E+02	0.000E+00	6.331E+02	K+
32	1.272E+00	0.000E+00	1.272E+00	LA+3
33	1.309E-02	0.000E+00	1.309E-02	LI+
34	4.749E-01	0.000E+00	4.749E-01	MG+2
35	7.681E-02	0.000E+00	7.681E-02	MN+2
36	1.182E+01	0.000E+00	1.182E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	4.010E-01	0.000E+00	4.010E-01	MO+6
39	3.996E+05	0.000E+00	3.996E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.798E+01	0.000E+00	1.798E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	5.528E+04	0.000E+00	5.528E+04	NO2-
44	4.865E+05	0.000E+00	4.865E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.181E+05	0.000E+00	1.181E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	4.233E+01	0.000E+00	4.233E+01	PB+4
49	3.311E+04	0.000E+00	3.311E+04	PO4-3
50	4.623E-02	0.000E+00	4.623E-02	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	7.823E-03	0.000E+00	7.823E-03	RE+7
53	7.716E-02	0.000E+00	7.716E-02	RH+3
54	2.578E-02	0.000E+00	2.578E-02	RU+3
55	3.663E-02	0.000E+00	3.663E-02	SB+5
56	1.284E-01	0.000E+00	1.284E-01	SE+6
57	5.370E+01	0.000E+00	5.370E+01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.496E+04	0.000E+00	1.496E+04	SO4-2
61	1.900E-01	0.000E+00	1.900E-01	SR+2
62	1.750E+00	0.000E+00	1.750E+00	TCO4-
63	8.890E-02	0.000E+00	8.890E-02	TE+6
64	5.938E-02	0.000E+00	5.938E-02	TH+4
65	2.885E-02	0.000E+00	2.885E-02	TI+4
66	7.432E-01	0.000E+00	7.432E-01	TL+3
67	7.807E+03	0.000E+00	7.807E+03	TOC
68	1.360E+03	0.000E+00	1.360E+03	UO2+2
69	7.041E-03	0.000E+00	7.041E-03	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	4.570E-01	0.000E+00	4.570E-01	ZN+2
72	1.665E+00	0.000E+00	1.665E+00	ZR+4
73	3.411E-01	0.000E+00	3.411E-01	ZRO2:2H2O
74	2.796E-03	0.000E+00	2.796E-03	C14 (Ci)
75	5.938E-02	0.000E+00	5.938E-02	Sr90 (Ci)
76	1.520E-05	0.000E+00	1.520E-05	Y90 (Ci)
77	2.298E+00	0.000E+00	2.298E+00	Tc99 (Ci)
78	1.721E+00	0.000E+00	1.721E+00	Cs137 (Ci)
79	2.630E-07	0.000E+00	2.630E-07	Ba137 (Ci)
80	1.345E+01	0.000E+00	1.345E+01	U235 (Ci)
81	1.801E+03	0.000E+00	1.801E+03	U238 (Ci)
82	3.651E-02	0.000E+00	3.651E-02	Np237 (Ci)
83	2.281E-05	0.000E+00	2.281E-05	Pu238 (Ci)
84	1.079E-01	0.000E+00	1.079E-01	Pu239 (Ci)
85	6.320E-03	0.000E+00	6.320E-03	Pu240 (Ci)
86	1.341E-04	0.000E+00	1.341E-04	Pu241 (Ci)
87	8.730E-03	0.000E+00	8.730E-03	Am241 (Ci)
88	7.974E-08	0.000E+00	7.974E-08	Cm244 (Ci)
89	5.109E+06	0.000E+00	5.109E+06	Total
Tot	5.109E+06	0.000E+00	5.109E+06	

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Fri Sep 06 11:38:07 1996 **CASE.250.llw**

Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
33	4.562E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	1.841E+05	0.000E+00	1.841E+05	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	7.981E-01	0.000E+00	7.981E-01	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	7.656E+00	0.000E+00	7.656E+00	BI+3
10	4.049E+01	0.000E+00	4.049E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	9.777E-01	0.000E+00	9.777E-01	CE+3
14	8.969E+02	0.000E+00	8.969E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.548E+04	0.000E+00	1.548E+04	CO3-2
18	2.134E+04	0.000E+00	2.134E+04	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.287E+01	0.000E+00	2.287E+01	CS+
21	5.718E+00	0.000E+00	5.718E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	1.273E+03	0.000E+00	1.273E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	6.053E+01	0.000E+00	6.053E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.639E+06	0.000E+00	3.639E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.360E+03	0.000E+00	1.360E+03	K+
32	6.439E+00	0.000E+00	6.439E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	1.350E+00	0.000E+00	1.350E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	4.630E+00	0.000E+00	4.630E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	2.870E-02	0.000E+00	2.870E-02	MO+6
39	4.350E+05	0.000E+00	4.350E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.571E+01	0.000E+00	1.571E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.880E+04	0.000E+00	3.880E+04	NO2-
44	2.903E+05	0.000E+00	2.903E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	2.039E+05	0.000E+00	2.039E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	4.582E+00	0.000E+00	4.582E+00	PB+4
49	1.940E+04	0.000E+00	1.940E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	1.644E-05	0.000E+00	1.644E-05	SE+6
57	0.000E+00	0.000E+00	0.000E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.595E+03	0.000E+00	7.595E+03	SO4-2
61	4.362E-03	0.000E+00	4.362E-03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	2.352E-03	0.000E+00	2.352E-03	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.658E+03	0.000E+00	2.658E+03	TOC
68	5.501E+02	0.000E+00	5.501E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	1.642E+00	0.000E+00	1.642E+00	ZN+2
72	2.516E-02	0.000E+00	2.516E-02	ZR+4
73	2.958E+00	0.000E+00	2.958E+00	ZRO2:2H2O
74	1.646E-03	0.000E+00	1.646E-03	C14 (Ci)
75	7.879E-02	0.000E+00	7.879E-02	Sr90 (Ci)
76	2.017E-05	0.000E+00	2.017E-05	Y90 (Ci)
77	1.752E+00	0.000E+00	1.752E+00	Tc99 (Ci)
78	5.716E+00	0.000E+00	5.716E+00	Cs137 (Ci)
79	6.742E-07	0.000E+00	6.742E-07	Ba137 (Ci)
80	1.945E+01	0.000E+00	1.945E+01	U235 (Ci)
81	2.466E+03	0.000E+00	2.466E+03	U238 (Ci)
82	4.527E-03	0.000E+00	4.527E-03	Np237 (Ci)
83	1.697E-05	0.000E+00	1.697E-05	Pu238 (Ci)
84	8.787E-02	0.000E+00	8.787E-02	Pu239 (Ci)
85	5.022E-03	0.000E+00	5.022E-03	Pu240 (Ci)
86	9.620E-05	0.000E+00	9.620E-05	Pu241 (Ci)
87	1.488E-02	0.000E+00	1.488E-02	Am241 (Ci)
88	1.208E-07	0.000E+00	1.208E-07	Cm244 (Ci)
89	4.854E+06	0.000E+00	4.854E+06	Total
Tot	4.854E+06	0.000E+00	4.854E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
34	4.565E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	1.379E-01	0.000E+00	1.379E-01	AG+
2	1.811E+05	0.000E+00	1.811E+05	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	1.843E-03	0.000E+00	1.843E-03	AM+3
5	4.862E-02	0.000E+00	4.862E-02	AS+5
6	5.224E-02	0.000E+00	5.224E-02	B+3
7	5.132E-01	0.000E+00	5.132E-01	BA+2
8	1.596E-04	0.000E+00	1.596E-04	BE+2
9	2.169E+01	0.000E+00	2.169E+01	BI+3
10	2.368E+01	0.000E+00	2.368E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	7.474E-02	0.000E+00	7.474E-02	CD+2
13	3.107E+00	0.000E+00	3.107E+00	CE+3
14	1.382E+03	0.000E+00	1.382E+03	CL-
15	1.698E-06	0.000E+00	1.698E-06	CM+3
16	5.660E-06	0.000E+00	5.660E-06	CO+3
17	1.091E+04	0.000E+00	1.091E+04	CO3-2
18	1.798E+04	0.000E+00	1.798E+04	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	9.890E+00	0.000E+00	9.890E+00	CS+
21	2.472E+00	0.000E+00	2.472E+00	CS-137
22	1.241E-02	0.000E+00	1.241E-02	CU+2
23	2.887E+03	0.000E+00	2.887E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.254E+02	0.000E+00	1.254E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.736E+06	0.000E+00	3.736E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	3.377E-03	0.000E+00	3.377E-03	I-
31	5.984E+02	0.000E+00	5.984E+02	K+
32	3.073E+00	0.000E+00	3.073E+00	LA+3
33	5.340E-03	0.000E+00	5.340E-03	LI+
34	7.298E-01	0.000E+00	7.298E-01	MG+2
35	3.135E-02	0.000E+00	3.135E-02	MN+2
36	1.094E+01	0.000E+00	1.094E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	1.466E-01	0.000E+00	1.466E-01	MO+6
39	4.355E+05	0.000E+00	4.355E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.429E+01	0.000E+00	1.429E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.651E+04	0.000E+00	2.651E+04	NO2-
44	2.707E+05	0.000E+00	2.707E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.838E+05	0.000E+00	1.838E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	2.366E-02	0.000E+00	2.366E-02	PB+4
49	5.528E+04	0.000E+00	5.528E+04	PO4-3
50	1.887E-02	0.000E+00	1.887E-02	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	3.193E-03	0.000E+00	3.193E-03	RE+7
53	3.149E-02	0.000E+00	3.149E-02	RH+3
54	1.052E-02	0.000E+00	1.052E-02	RU+3
55	1.495E-02	0.000E+00	1.495E-02	SB+5
56	5.239E-02	0.000E+00	5.239E-02	SE+6
57	2.191E+01	0.000E+00	2.191E+01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.628E+03	0.000E+00	7.628E+03	SO4-2
61	7.898E-02	0.000E+00	7.898E-02	SR+2
62	7.140E-01	0.000E+00	7.140E-01	TCO4-
63	3.628E-02	0.000E+00	3.628E-02	TE+6
64	2.424E-02	0.000E+00	2.424E-02	TH+4
65	1.038E-02	0.000E+00	1.038E-02	TI+4
66	3.033E-01	0.000E+00	3.033E-01	TL+3
67	5.008E+03	0.000E+00	5.008E+03	TOC
68	1.151E+03	0.000E+00	1.151E+03	UO2+2
69	2.873E-03	0.000E+00	2.873E-03	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	5.411E-01	0.000E+00	5.411E-01	ZN+2
72	6.647E-01	0.000E+00	6.647E-01	ZR+4
73	1.764E+01	0.000E+00	1.764E+01	ZRO2:2H2O
74	1.090E-03	0.000E+00	1.090E-03	C14 (Ci)
75	6.575E-02	0.000E+00	6.575E-02	Sr90 (Ci)
76	1.683E-05	0.000E+00	1.683E-05	Y90 (Ci)
77	1.890E+00	0.000E+00	1.890E+00	Tc99 (Ci)
78	2.472E+00	0.000E+00	2.472E+00	Cs137 (Ci)
79	3.779E-07	0.000E+00	3.779E-07	Ba137 (Ci)
80	1.233E+01	0.000E+00	1.233E+01	U235 (Ci)
81	1.561E+03	0.000E+00	1.561E+03	U238 (Ci)
82	1.600E-02	0.000E+00	1.600E-02	Np237 (Ci)
83	1.875E-05	0.000E+00	1.875E-05	Pu238 (Ci)
84	8.395E-02	0.000E+00	8.395E-02	Pu239 (Ci)
85	4.742E-03	0.000E+00	4.742E-03	Pu240 (Ci)
86	9.098E-05	0.000E+00	9.098E-05	Pu241 (Ci)
87	9.065E-03	0.000E+00	9.065E-03	Am241 (Ci)
88	2.758E-08	0.000E+00	2.758E-08	Cm244 (Ci)
89	4.930E+06	0.000E+00	4.930E+06	Total
Tot	4.930E+06	0.000E+00	4.930E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
35	4.562E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	1.229E+05	0.000E+00	1.229E+05	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	4.365E-01	0.000E+00	4.365E-01	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	1.170E+01	0.000E+00	1.170E+01	BI+3
10	2.065E+01	0.000E+00	2.065E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.955E+00	0.000E+00	1.955E+00	CE+3
14	7.837E+02	0.000E+00	7.837E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	8.759E+03	0.000E+00	8.759E+03	CO3-2
18	1.709E+03	0.000E+00	1.709E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.343E+01	0.000E+00	1.343E+01	CS+
21	3.358E+00	0.000E+00	3.358E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	1.385E+03	0.000E+00	1.385E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	4.401E+01	0.000E+00	4.401E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.884E+06	0.000E+00	3.884E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.475E+03	0.000E+00	1.475E+03	K+
32	4.675E+00	0.000E+00	4.675E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	1.903E+00	0.000E+00	1.903E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.592E+00	0.000E+00	1.592E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	9.836E-01	0.000E+00	9.836E-01	MO+6
39	2.671E+05	0.000E+00	2.671E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	8.296E+00	0.000E+00	8.296E+00	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.877E+04	0.000E+00	2.877E+04	NO2-
44	1.004E+05	0.000E+00	1.004E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.417E+05	0.000E+00	1.417E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	7.017E+01	0.000E+00	7.017E+01	PB+4
49	1.810E+04	0.000E+00	1.810E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	5.633E-04	0.000E+00	5.633E-04	SE+6
57	0.000E+00	0.000E+00	0.000E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	6.979E+03	0.000E+00	6.979E+03	SO4-2
61	2.894E-03	0.000E+00	2.894E-03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	8.060E-02	0.000E+00	8.060E-02	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.754E+03	0.000E+00	2.754E+03	TOC
68	3.846E+02	0.000E+00	3.846E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	6.238E+00	0.000E+00	6.238E+00	ZN+2
72	8.623E-01	0.000E+00	8.623E-01	ZR+4
73	5.581E+00	0.000E+00	5.581E+00	ZRO2:2H2O
74	4.932E-03	0.000E+00	4.932E-03	C14 (Ci)
75	6.450E-02	0.000E+00	6.450E-02	Sr90 (Ci)
76	1.651E-05	0.000E+00	1.651E-05	Y90 (Ci)
77	2.147E+00	0.000E+00	2.147E+00	Tc99 (Ci)
78	3.358E+00	0.000E+00	3.358E+00	Cs137 (Ci)
79	5.134E-07	0.000E+00	5.134E-07	Ba137 (Ci)
80	3.256E+00	0.000E+00	3.256E+00	U235 (Ci)
81	4.912E+02	0.000E+00	4.912E+02	U238 (Ci)
82	1.028E-02	0.000E+00	1.028E-02	Np237 (Ci)
83	7.677E-06	0.000E+00	7.677E-06	Pu238 (Ci)
84	5.708E-02	0.000E+00	5.708E-02	Pu239 (Ci)
85	3.373E-03	0.000E+00	3.373E-03	Pu240 (Ci)
86	6.215E-05	0.000E+00	6.215E-05	Pu241 (Ci)
87	1.610E-02	0.000E+00	1.610E-02	Am241 (Ci)
88	2.888E-07	0.000E+00	2.888E-07	Cm244 (Ci)
89	4.583E+06	0.000E+00	4.583E+06	Total
Tot	4.583E+06	0.000E+00	4.583E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
36	4.587E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	7.296E+04	0.000E+00	7.296E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	8.411E-01	0.000E+00	8.411E-01	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	2.184E+01	0.000E+00	2.184E+01	BI+3
10	4.374E+01	0.000E+00	4.374E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	9.533E-02	0.000E+00	9.533E-02	CE+3
14	1.801E+03	0.000E+00	1.801E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.931E+04	0.000E+00	1.931E+04	CO3-2
18	6.969E+03	0.000E+00	6.969E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.269E+01	0.000E+00	2.269E+01	CS+
21	5.673E+00	0.000E+00	5.673E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	2.285E+03	0.000E+00	2.285E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	5.967E+01	0.000E+00	5.967E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.839E+06	0.000E+00	3.839E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.590E+03	0.000E+00	1.590E+03	K+
32	8.525E+00	0.000E+00	8.525E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	1.843E+00	0.000E+00	1.843E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	2.228E+01	0.000E+00	2.228E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.049E+05	0.000E+00	3.049E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.856E+01	0.000E+00	1.856E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	6.267E+04	0.000E+00	6.267E+04	NO2-
44	2.918E+05	0.000E+00	2.918E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.193E+05	0.000E+00	1.193E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	6.424E+01	0.000E+00	6.424E+01	PB+4
49	2.136E+04	0.000E+00	2.136E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	0.000E+00	0.000E+00	0.000E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	9.073E+03	0.000E+00	9.073E+03	SO4-2
61	6.841E-04	0.000E+00	6.841E-04	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	4.568E+03	0.000E+00	4.568E+03	TOC
68	2.571E+02	0.000E+00	2.571E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	1.499E+00	0.000E+00	1.499E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	6.604E+00	0.000E+00	6.604E+00	ZRO2:2H2O
74	2.256E-05	0.000E+00	2.256E-05	C14 (Ci)
75	3.990E-02	0.000E+00	3.990E-02	Sr90 (Ci)
76	1.021E-05	0.000E+00	1.021E-05	Y90 (Ci)
77	1.290E+00	0.000E+00	1.290E+00	Tc99 (Ci)
78	5.673E+00	0.000E+00	5.673E+00	Cs137 (Ci)
79	8.673E-07	0.000E+00	8.673E-07	Ba137 (Ci)
80	5.071E+00	0.000E+00	5.071E+00	U235 (Ci)
81	6.982E+02	0.000E+00	6.982E+02	U238 (Ci)
82	5.713E-04	0.000E+00	5.713E-04	Np237 (Ci)
83	7.037E-06	0.000E+00	7.037E-06	Pu238 (Ci)
84	3.680E-02	0.000E+00	3.680E-02	Pu239 (Ci)
85	2.026E-03	0.000E+00	2.026E-03	Pu240 (Ci)
86	2.662E-05	0.000E+00	2.662E-05	Pu241 (Ci)
87	4.726E-03	0.000E+00	4.726E-03	Am241 (Ci)
88	3.522E-11	0.000E+00	3.522E-11	Cm244 (Ci)
89	4.756E+06	0.000E+00	4.756E+06	Total
Tot	4.756E+06	0.000E+00	4.756E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
37	4.596E-03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	6.472E+04	0.000E+00	6.472E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	3.654E-02	0.000E+00	3.654E-02	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	1.051E+01	0.000E+00	1.051E+01	BI+3
10	1.054E+01	0.000E+00	1.054E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	2.469E+00	0.000E+00	2.469E+00	CE+3
14	6.370E+02	0.000E+00	6.370E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	4.644E+03	0.000E+00	4.644E+03	CO3-2
18	4.683E+03	0.000E+00	4.683E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.097E+00	0.000E+00	2.097E+00	CS+
21	5.243E-01	0.000E+00	5.243E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	9.133E+02	0.000E+00	9.133E+02	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	4.294E-01	0.000E+00	4.294E-01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.994E+06	0.000E+00	3.994E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.795E+02	0.000E+00	3.795E+02	K+
32	3.578E-01	0.000E+00	3.578E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	3.256E-01	0.000E+00	3.256E-01	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	7.467E+00	0.000E+00	7.467E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	2.736E-01	0.000E+00	2.736E-01	MO+6
39	1.912E+05	0.000E+00	1.912E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	6.109E+00	0.000E+00	6.109E+00	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	1.543E+04	0.000E+00	1.543E+04	NO2-
44	1.791E+05	0.000E+00	1.791E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.144E+04	0.000E+00	7.144E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	3.775E+00	0.000E+00	3.775E+00	PB+4
49	6.215E+03	0.000E+00	6.215E+03	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	1.567E-04	0.000E+00	1.567E-04	SE+6
57	0.000E+00	0.000E+00	0.000E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	2.787E+03	0.000E+00	2.787E+03	SO4-2
61	8.208E-03	0.000E+00	8.208E-03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	2.242E-02	0.000E+00	2.242E-02	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.141E+03	0.000E+00	1.141E+03	TOC
68	3.545E+02	0.000E+00	3.545E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	1.570E+00	0.000E+00	1.570E+00	ZN+2
72	2.399E-01	0.000E+00	2.399E-01	ZR+4
73	3.600E+00	0.000E+00	3.600E+00	ZRO2:2H2O
74	2.199E-03	0.000E+00	2.199E-03	C14 (Ci)
75	3.286E-02	0.000E+00	3.286E-02	Sr90 (Ci)
76	6.411E-06	0.000E+00	6.411E-06	Y90 (Ci)
77	9.869E-01	0.000E+00	9.869E-01	Tc99 (Ci)
78	5.243E-01	0.000E+00	5.243E-01	Cs137 (Ci)
79	9.011E-08	0.000E+00	9.011E-08	Ba137 (Ci)
80	8.207E+00	0.000E+00	8.207E+00	U235 (Ci)
81	1.093E+03	0.000E+00	1.093E+03	U238 (Ci)
82	1.127E-02	0.000E+00	1.127E-02	Np237 (Ci)
83	8.739E-06	0.000E+00	8.739E-06	Pu238 (Ci)
84	3.740E-02	0.000E+00	3.740E-02	Pu239 (Ci)
85	2.126E-03	0.000E+00	2.126E-03	Pu240 (Ci)
86	4.308E-05	0.000E+00	4.308E-05	Pu241 (Ci)
87	7.632E-03	0.000E+00	7.632E-03	Am241 (Ci)
88	1.126E-07	0.000E+00	1.126E-07	Cm244 (Ci)
89	4.536E+06	0.000E+00	4.536E+06	Total
Tot	4.536E+06	0.000E+00	4.536E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
38	4.600E-03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	6.392E+04	0.000E+00	6.392E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	1.009E+00	0.000E+00	1.009E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	3.487E+00	0.000E+00	3.487E+00	BI+3
10	3.953E+01	0.000E+00	3.953E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	2.362E+00	0.000E+00	2.362E+00	CE+3
14	4.635E+02	0.000E+00	4.635E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.638E+04	0.000E+00	1.638E+04	CO3-2
18	6.880E+03	0.000E+00	6.880E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.906E+01	0.000E+00	2.906E+01	CS+
21	7.264E+00	0.000E+00	7.264E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	1.052E+03	0.000E+00	1.052E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	2.131E+01	0.000E+00	2.131E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.909E+06	0.000E+00	3.909E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.624E+03	0.000E+00	1.624E+03	K+
32	1.059E+01	0.000E+00	1.059E+01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	2.288E+00	0.000E+00	2.288E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	3.938E+00	0.000E+00	3.938E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	1.687E+05	0.000E+00	1.687E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.316E+01	0.000E+00	1.316E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.245E+04	0.000E+00	4.245E+04	NO2-
44	9.170E+04	0.000E+00	9.170E+04	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	9.451E+04	0.000E+00	9.451E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.675E-01	0.000E+00	1.675E-01	PB+4
49	8.852E+03	0.000E+00	8.852E+03	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	0.000E+00	0.000E+00	0.000E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.942E+03	0.000E+00	7.942E+03	SO4-2
61	9.031E-03	0.000E+00	9.031E-03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.410E+03	0.000E+00	2.410E+03	TOC
68	2.571E+02	0.000E+00	2.571E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	1.861E+00	0.000E+00	1.861E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.536E+00	0.000E+00	1.536E+00	ZRO2:2H2O
74	5.460E-04	0.000E+00	5.460E-04	C14 (Ci)
75	4.759E-02	0.000E+00	4.759E-02	Sr90 (Ci)
76	1.218E-05	0.000E+00	1.218E-05	Y90 (Ci)
77	1.911E+00	0.000E+00	1.911E+00	Tc99 (Ci)
78	7.264E+00	0.000E+00	7.264E+00	Cs137 (Ci)
79	1.110E-06	0.000E+00	1.110E-06	Ba137 (Ci)
80	2.726E+00	0.000E+00	2.726E+00	U235 (Ci)
81	3.654E+02	0.000E+00	3.654E+02	U238 (Ci)
82	9.625E-03	0.000E+00	9.625E-03	Np237 (Ci)
83	3.416E-06	0.000E+00	3.416E-06	Pu238 (Ci)
84	3.550E-02	0.000E+00	3.550E-02	Pu239 (Ci)
85	1.981E-03	0.000E+00	1.981E-03	Pu240 (Ci)
86	2.316E-05	0.000E+00	2.316E-05	Pu241 (Ci)
87	5.243E-03	0.000E+00	5.243E-03	Am241 (Ci)
88	5.640E-10	0.000E+00	5.640E-10	Cm244 (Ci)
89	4.414E+06	0.000E+00	4.414E+06	Total
Tot	4.414E+06	0.000E+00	4.414E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
39	4.619E-03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	1.209E+05	0.000E+00	1.209E+05	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	2.272E-01	0.000E+00	2.272E-01	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	1.466E+01	0.000E+00	1.466E+01	BI+3
10	1.931E+01	0.000E+00	1.931E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	7.109E+00	0.000E+00	7.109E+00	CE+3
14	1.212E+03	0.000E+00	1.212E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	9.301E+03	0.000E+00	9.301E+03	CO3-2
18	1.142E+04	0.000E+00	1.142E+04	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	7.909E+00	0.000E+00	7.909E+00	CS+
21	1.977E+00	0.000E+00	1.977E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	1.491E+03	0.000E+00	1.491E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	6.542E+01	0.000E+00	6.542E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.865E+06	0.000E+00	3.865E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	4.726E+02	0.000E+00	4.726E+02	K+
32	1.844E+00	0.000E+00	1.844E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	3.985E-01	0.000E+00	3.985E-01	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.401E+01	0.000E+00	1.401E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.182E+05	0.000E+00	3.182E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.071E+01	0.000E+00	1.071E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.602E+04	0.000E+00	2.602E+04	NO2-
44	2.396E+05	0.000E+00	2.396E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.293E+05	0.000E+00	1.293E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	4.248E+01	0.000E+00	4.248E+01	PB+4
49	2.162E+04	0.000E+00	2.162E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	0.000E+00	0.000E+00	0.000E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	4.805E+03	0.000E+00	4.805E+03	SO4-2
61	2.702E-02	0.000E+00	2.702E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.038E+03	0.000E+00	2.038E+03	TOC
68	8.326E+02	0.000E+00	8.326E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	3.242E-01	0.000E+00	3.242E-01	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	6.692E+00	0.000E+00	6.692E+00	ZRO2:2H2O
74	1.638E-03	0.000E+00	1.638E-03	C14 (Ci)
75	3.898E-02	0.000E+00	3.898E-02	Sr90 (Ci)
76	9.979E-06	0.000E+00	9.979E-06	Y90 (Ci)
77	1.836E+00	0.000E+00	1.836E+00	Tc99 (Ci)
78	1.977E+00	0.000E+00	1.977E+00	Cs137 (Ci)
79	3.021E-07	0.000E+00	3.021E-07	Ba137 (Ci)
80	8.272E+00	0.000E+00	8.272E+00	U235 (Ci)
81	1.121E+03	0.000E+00	1.121E+03	U238 (Ci)
82	2.917E-02	0.000E+00	2.917E-02	Np237 (Ci)
83	1.041E-05	0.000E+00	1.041E-05	Pu238 (Ci)
84	3.977E-02	0.000E+00	3.977E-02	Pu239 (Ci)
85	2.110E-03	0.000E+00	2.110E-03	Pu240 (Ci)
86	3.431E-05	0.000E+00	3.431E-05	Pu241 (Ci)
87	4.270E-03	0.000E+00	4.270E-03	Am241 (Ci)
88	2.649E-09	0.000E+00	2.649E-09	Cm244 (Ci)
89	4.748E+06	0.000E+00	4.748E+06	Total
Tot	4.748E+06	0.000E+00	4.748E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
40	4.625E-03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	2.577E-01	0.000E+00	2.577E-01	AG+
2	1.686E+05	0.000E+00	1.686E+05	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	3.445E-03	0.000E+00	3.445E-03	AM+3
5	9.088E-02	0.000E+00	9.088E-02	AS+5
6	9.766E-02	0.000E+00	9.766E-02	B+3
7	2.462E-01	0.000E+00	2.462E-01	BA+2
8	2.984E-04	0.000E+00	2.984E-04	BE+2
9	2.217E+01	0.000E+00	2.217E+01	BI+3
10	1.351E+01	0.000E+00	1.351E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	1.397E-01	0.000E+00	1.397E-01	CD+2
13	5.312E-01	0.000E+00	5.312E-01	CE+3
14	1.111E+03	0.000E+00	1.111E+03	CL-
15	3.174E-06	0.000E+00	3.174E-06	CM+3
16	1.058E-05	0.000E+00	1.058E-05	CO+3
17	8.795E+03	0.000E+00	8.795E+03	CO3-2
18	5.549E+03	0.000E+00	5.549E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	4.663E+00	0.000E+00	4.663E+00	CS+
21	1.166E+00	0.000E+00	1.166E+00	CS-137
22	2.319E-02	0.000E+00	2.319E-02	CU+2
23	2.707E+03	0.000E+00	2.707E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	8.242E+01	0.000E+00	8.242E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.857E+06	0.000E+00	3.857E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	5.751E-03	0.000E+00	5.751E-03	I-
31	3.425E+02	0.000E+00	3.425E+02	K+
32	1.539E+00	0.000E+00	1.539E+00	LA+3
33	9.983E-03	0.000E+00	9.983E-03	LI+
34	4.562E-01	0.000E+00	4.562E-01	MG+2
35	5.859E-02	0.000E+00	5.859E-02	MN+2
36	4.247E+00	0.000E+00	4.247E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	2.740E-01	0.000E+00	2.740E-01	MO+6
39	3.433E+05	0.000E+00	3.433E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	8.591E+00	0.000E+00	8.591E+00	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.143E+04	0.000E+00	2.143E+04	NO2-
44	1.711E+05	0.000E+00	1.711E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.453E+05	0.000E+00	1.453E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.437E+02	0.000E+00	1.437E+02	PB+4
49	4.879E+04	0.000E+00	4.879E+04	PO4-3
50	3.526E-02	0.000E+00	3.526E-02	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	5.968E-03	0.000E+00	5.968E-03	RE+7
53	5.887E-02	0.000E+00	5.887E-02	RH+3
54	1.967E-02	0.000E+00	1.967E-02	RU+3
55	2.794E-02	0.000E+00	2.794E-02	SB+5
56	9.793E-02	0.000E+00	9.793E-02	SE+6
57	4.096E+01	0.000E+00	4.096E+01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.397E+03	0.000E+00	7.397E+03	SO4-2
61	1.259E-01	0.000E+00	1.259E-01	SR+2
62	1.335E+00	0.000E+00	1.335E+00	TCO4-
63	6.782E-02	0.000E+00	6.782E-02	TE+6
64	4.530E-02	0.000E+00	4.530E-02	TH+4
65	1.940E-02	0.000E+00	1.940E-02	TI+4
66	5.670E-01	0.000E+00	5.670E-01	TL+3
67	3.566E+03	0.000E+00	3.566E+03	TOC
68	7.257E+02	0.000E+00	7.257E+02	UO2+2
69	5.371E-03	0.000E+00	5.371E-03	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	2.730E-01	0.000E+00	2.730E-01	ZN+2
72	1.242E+00	0.000E+00	1.242E+00	ZR+4
73	1.599E+01	0.000E+00	1.599E+01	ZRO2:2H2O
74	8.482E-04	0.000E+00	8.482E-04	C14 (Ci)
75	2.711E-02	0.000E+00	2.711E-02	Sr90 (Ci)
76	6.939E-06	0.000E+00	6.939E-06	Y90 (Ci)
77	8.057E-01	0.000E+00	8.057E-01	Tc99 (Ci)
78	1.166E+00	0.000E+00	1.166E+00	Cs137 (Ci)
79	1.782E-07	0.000E+00	1.782E-07	Ba137 (Ci)
80	5.435E+00	0.000E+00	5.435E+00	U235 (Ci)
81	7.404E+02	0.000E+00	7.404E+02	U238 (Ci)
82	7.964E-03	0.000E+00	7.964E-03	Np237 (Ci)
83	1.117E-05	0.000E+00	1.117E-05	Pu238 (Ci)
84	5.423E-02	0.000E+00	5.423E-02	Pu239 (Ci)
85	3.196E-03	0.000E+00	3.196E-03	Pu240 (Ci)
86	6.603E-05	0.000E+00	6.603E-05	Pu241 (Ci)
87	4.522E-03	0.000E+00	4.522E-03	Am241 (Ci)
88	5.700E-08	0.000E+00	5.700E-08	Cm244 (Ci)
89	4.779E+06	0.000E+00	4.779E+06	Total
Tot	4.779E+06	0.000E+00	4.779E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
41	4.637E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.869E+04	0.000E+00	3.869E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	1.318E-01	0.000E+00	1.318E-01	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	1.192E-01	0.000E+00	1.192E-01	BI+3
10	1.267E+01	0.000E+00	1.267E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.910E+00	0.000E+00	1.910E+00	CE+3
14	8.181E+02	0.000E+00	8.181E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	6.241E+03	0.000E+00	6.241E+03	CO3-2
18	2.239E+03	0.000E+00	2.239E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	4.417E+00	0.000E+00	4.417E+00	CS+
21	1.104E+00	0.000E+00	1.104E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	1.169E+03	0.000E+00	1.169E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	3.267E+01	0.000E+00	3.267E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	4.227E+06	0.000E+00	4.227E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.443E+02	0.000E+00	3.443E+02	K+
32	1.378E+00	0.000E+00	1.378E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	2.978E-01	0.000E+00	2.978E-01	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	8.683E+00	0.000E+00	8.683E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	1.610E+05	0.000E+00	1.610E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	7.117E+00	0.000E+00	7.117E+00	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	1.909E+04	0.000E+00	1.909E+04	NO2-
44	1.492E+05	0.000E+00	1.492E+05	NO3-
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	5.783E+04	0.000E+00	5.783E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	7.435E-01	0.000E+00	7.435E-01	PB+4
49	1.846E+04	0.000E+00	1.846E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	0.000E+00	0.000E+00	0.000E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	3.301E+03	0.000E+00	3.301E+03	SO4-2
61	7.059E-03	0.000E+00	7.059E-03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.102E+03	0.000E+00	2.102E+03	TOC
68	3.439E-02	0.000E+00	3.439E-02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	2.422E-01	0.000E+00	2.422E-01	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	5.304E+00	0.000E+00	5.304E+00	ZRO2:2H2O
74	5.067E-04	0.000E+00	5.067E-04	C14 (Ci)
75	1.288E-02	0.000E+00	1.288E-02	Sr90 (Ci)
76	3.296E-06	0.000E+00	3.296E-06	Y90 (Ci)
77	5.965E-01	0.000E+00	5.965E-01	Tc99 (Ci)
78	1.104E+00	0.000E+00	1.104E+00	Cs137 (Ci)
79	1.688E-07	0.000E+00	1.688E-07	Ba137 (Ci)
80	3.599E+00	0.000E+00	3.599E+00	U235 (Ci)
81	4.991E+02	0.000E+00	4.991E+02	U238 (Ci)
82	8.167E-03	0.000E+00	8.167E-03	Np237 (Ci)
83	4.195E-06	0.000E+00	4.195E-06	Pu238 (Ci)
84	1.692E-02	0.000E+00	1.692E-02	Pu239 (Ci)
85	9.270E-04	0.000E+00	9.270E-04	Pu240 (Ci)
86	1.521E-05	0.000E+00	1.521E-05	Pu241 (Ci)
87	1.740E-03	0.000E+00	1.740E-03	Am241 (Ci)
88	8.579E-09	0.000E+00	8.579E-09	Cm244 (Ci)
89	4.487E+06	0.000E+00	4.487E+06	Total
Tot	4.487E+06	0.000E+00	4.487E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
42	4.639E+03	1.102E+03	0.000E+00	1.102E+03

Page 82 Fri Sep 06 11:38:07 1996 **CASE.250.llw** (rows 45–Tot)

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	7.666E+04	0.000E+00	7.666E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	4.755E-01	0.000E+00	4.755E-01	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	1.940E-01	0.000E+00	1.940E-01	BI+3
10	2.866E-01	0.000E+00	2.866E-01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	4.129E+00	0.000E+00	4.129E+00	CE+3
14	1.339E+03	0.000E+00	1.339E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.323E+04	0.000E+00	1.323E+04	CO3-2
18	6.019E+03	0.000E+00	6.019E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.467E-01	0.000E+00	1.467E-01	CS+
21	3.667E+00	0.000E+00	3.667E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	2.090E+03	0.000E+00	2.090E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	6.148E-01	0.000E+00	6.148E-01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.901E+06	0.000E+00	3.901E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	9.530E+02	0.000E+00	9.530E+02	K+
32	4.861E+00	0.000E+00	4.861E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	1.095E+00	0.000E+00	1.095E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.362E+01	0.000E+00	1.362E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	4.470E-02	0.000E+00	4.470E-02	MO+6
39	2.693E+05	0.000E+00	2.693E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.451E+01	0.000E+00	1.451E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.795E+04	0.000E+00	3.795E+04	NO2-
44	2.336E+05	0.000E+00	2.336E+05	NO3-
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.097E+05	0.000E+00	1.097E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.895E+02	0.000E+00	1.895E+02	PB+4
49	2.091E+04	0.000E+00	2.091E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	2.560E-05	0.000E+00	2.560E-05	SE+6
57	0.000E+00	0.000E+00	0.000E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.938E+03	0.000E+00	7.938E+03	SO4-2
61	1.641E-02	0.000E+00	1.641E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	3.662E-03	0.000E+00	3.662E-03	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	4.478E+03	0.000E+00	4.478E+03	TOC
68	7.674E-02	0.000E+00	7.674E-02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	1.104E+00	0.000E+00	1.104E+00	ZN+2
72	3.918E-02	0.000E+00	3.918E-02	ZR+4
73	8.656E+00	0.000E+00	8.656E+00	ZRO2:2H2O
74	1.192E-03	0.000E+00	1.192E-03	C14 (Ci)
75	3.536E-02	0.000E+00	3.536E-02	Sr90 (Ci)
76	9.052E-06	0.000E+00	9.052E-06	Y90 (Ci)
77	1.595E+00	0.000E+00	1.595E+00	Tc99 (Ci)
78	3.667E+00	0.000E+00	3.667E+00	Cs137 (Ci)
79	5.606E-07	0.000E+00	5.606E-07	Ba137 (Ci)
80	6.526E+00	0.000E+00	6.526E+00	U235 (Ci)
81	9.279E+02	0.000E+00	9.279E+02	U238 (Ci)
82	1.754E-02	0.000E+00	1.754E-02	Np237 (Ci)
83	8.180E-06	0.000E+00	8.180E-06	Pu238 (Ci)
84	4.177E-02	0.000E+00	4.177E-02	Pu239 (Ci)
85	2.318E-03	0.000E+00	2.318E-03	Pu240 (Ci)
86	3.563E-05	0.000E+00	3.563E-05	Pu241 (Ci)
87	4.506E-03	0.000E+00	4.506E-03	Am241 (Ci)
88	2.437E-08	0.000E+00	2.437E-08	Cm244 (Ci)
89	4.684E+06	0.000E+00	4.684E+06	Total
Tot	4.684E+06	0.000E+00	4.684E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
43	4.643E+03	1.102E+03	0.000E+00	1.102E+03

Page 84 Fri Sep 06 11:38:07 1996 **CASE.250.llw** (rows 45–Tot)

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	3.675E-02	0.000E+00	3.675E-02	AG+
2	3.848E+04	0.000E+00	3.848E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	4.912E-04	0.000E+00	4.912E-04	AM+3
5	1.296E-02	0.000E+00	1.296E-02	AS+5
6	1.392E-02	0.000E+00	1.392E-02	B+3
7	9.626E-02	0.000E+00	9.626E-02	BA+2
8	4.255E-05	0.000E+00	4.255E-05	BE+2
9	2.890E+00	0.000E+00	2.890E+00	BI+3
10	4.637E+00	0.000E+00	4.637E+00	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	1.992E-02	0.000E+00	1.992E-02	CD+2
13	1.669E-01	0.000E+00	1.669E-01	CE+3
14	1.908E+02	0.000E+00	1.908E+02	CL-
15	4.526E-07	0.000E+00	4.526E-07	CM+3
16	1.509E-06	0.000E+00	1.509E-06	CO+3
17	2.217E+03	0.000E+00	2.217E+03	CO3-2
18	2.546E+03	0.000E+00	2.546E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.332E+00	0.000E+00	2.332E+00	CS+
21	5.830E-01	0.000E+00	5.830E-01	CS-137
22	3.307E-03	0.000E+00	3.307E-03	CU+2
23	3.885E+02	0.000E+00	3.885E+02	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.437E+01	0.000E+00	1.437E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	4.089E+06	0.000E+00	4.089E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	8.200E-04	0.000E+00	8.200E-04	I-
31	1.437E+02	0.000E+00	1.437E+02	K+
32	8.289E-01	0.000E+00	8.289E-01	LA+3
33	1.423E-03	0.000E+00	1.423E-03	LI+
34	1.968E-01	0.000E+00	1.968E-01	MG+2
35	8.355E-03	0.000E+00	8.355E-03	MN+2
36	1.091E+00	0.000E+00	1.091E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	3.907E-02	0.000E+00	3.907E-02	MO+6
39	7.687E+04	0.000E+00	7.687E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.045E+00	0.000E+00	2.045E+00	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	5.506E+03	0.000E+00	5.506E+03	NO2-
44	3.959E+04	0.000E+00	3.959E+04	NO3-
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	3.440E+04	0.000E+00	3.440E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.730E+00	0.000E+00	1.730E+00	PB+4
49	7.803E+03	0.000E+00	7.803E+03	PO4-3
50	5.028E-03	0.000E+00	5.028E-03	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	8.510E-04	0.000E+00	8.510E-04	RE+7
53	8.393E-03	0.000E+00	8.393E-03	RH+3
54	2.804E-03	0.000E+00	2.804E-03	RU+3
55	3.984E-03	0.000E+00	3.984E-03	SB+5
56	1.396E-02	0.000E+00	1.396E-02	SE+6
57	5.841E+00	0.000E+00	5.841E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.379E+03	0.000E+00	1.379E+03	SO4-2
61	1.823E-02	0.000E+00	1.823E-02	SR+2
62	1.903E-01	0.000E+00	1.903E-01	TCO4-
63	9.670E-03	0.000E+00	9.670E-03	TE+6
64	6.459E-03	0.000E+00	6.459E-03	TH+4
65	2.766E-03	0.000E+00	2.766E-03	TI+4
66	8.084E-02	0.000E+00	8.084E-02	TL+3
67	4.493E+02	0.000E+00	4.493E+02	TOC
68	1.069E+02	0.000E+00	1.069E+02	UO2+2
69	7.659E-04	0.000E+00	7.659E-04	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	1.461E-01	0.000E+00	1.461E-01	ZN+2
72	1.772E-01	0.000E+00	1.772E-01	ZR+4
73	1.930E+00	0.000E+00	1.930E+00	ZRO2:2H2O
74	2.107E-04	0.000E+00	2.107E-04	C14 (Ci)
75	9.521E-03	0.000E+00	9.521E-03	Sr90 (Ci)
76	2.437E-06	0.000E+00	2.437E-06	Y90 (Ci)
77	2.480E-01	0.000E+00	2.480E-01	Tc99 (Ci)
78	5.830E-01	0.000E+00	5.830E-01	Cs137 (Ci)
79	8.912E-08	0.000E+00	8.912E-08	Ba137 (Ci)
80	1.988E+00	0.000E+00	1.988E+00	U235 (Ci)
81	2.575E+02	0.000E+00	2.575E+02	U238 (Ci)
82	1.510E-03	0.000E+00	1.510E-03	Np237 (Ci)
83	2.605E-06	0.000E+00	2.605E-06	Pu238 (Ci)
84	1.295E-02	0.000E+00	1.295E-02	Pu239 (Ci)
85	7.497E-04	0.000E+00	7.497E-04	Pu240 (Ci)
86	1.485E-05	0.000E+00	1.485E-05	Pu241 (Ci)
87	1.586E-03	0.000E+00	1.586E-03	Am241 (Ci)
88	1.344E-08	0.000E+00	1.344E-08	Cm244 (Ci)
89	4.298E+06	0.000E+00	4.298E+06	Total
Tot	4.298E+06	0.000E+00	4.298E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
44	4.655E+03	1.102E+03	0.000E+00	1.102E+03

Page 86 Fri Sep 06 11:38:07 1996 **CASE.250.llw** (rows 45–Tot)

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.010E+04	0.000E+00	3.010E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	4.906E-02	0.000E+00	4.906E-02	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	3.802E+00	0.000E+00	3.802E+00	BI+3
10	3.297E+00	0.000E+00	3.297E+00	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.053E+00	0.000E+00	1.053E+00	CE+3
14	2.049E+02	0.000E+00	2.049E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.506E+03	0.000E+00	1.506E+03	CO3-2
18	4.227E+02	0.000E+00	4.227E+02	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.589E+00	0.000E+00	1.589E+00	CS+
21	3.972E-01	0.000E+00	3.972E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	4.134E+02	0.000E+00	4.134E+02	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.030E+01	0.000E+00	1.030E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	4.102E+06	0.000E+00	4.102E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.909E+02	0.000E+00	1.909E+02	K+
32	5.249E-01	0.000E+00	5.249E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	2.265E-01	0.000E+00	2.265E-01	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	9.693E-01	0.000E+00	9.693E-01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	1.245E-01	0.000E+00	1.245E-01	MO+6
39	7.162E+04	0.000E+00	7.162E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.765E+00	0.000E+00	1.765E+00	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	5.157E+03	0.000E+00	5.157E+03	NO2-
44	3.074E+04	0.000E+00	3.074E+04	NO3-
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	3.262E+04	0.000E+00	3.262E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	3.066E+01	0.000E+00	3.066E+01	PB+4
49	1.213E+04	0.000E+00	1.213E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	7.132E-05	0.000E+00	7.132E-05	SE+6
57	0.000E+00	0.000E+00	0.000E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.234E+03	0.000E+00	1.234E+03	SO4-2
61	7.232E-04	0.000E+00	7.232E-04	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	1.020E-02	0.000E+00	1.020E-02	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	7.467E+02	0.000E+00	7.467E+02	TOC
68	1.086E+02	0.000E+00	1.086E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	7.780E-01	0.000E+00	7.780E-01	ZN+2
72	1.092E-01	0.000E+00	1.092E-01	ZR+4
73	2.401E+00	0.000E+00	2.401E+00	ZRO2:2H2O
74	7.048E-04	0.000E+00	7.048E-04	C14 (Ci)
75	8.208E-03	0.000E+00	8.208E-03	Sr90 (Ci)
76	2.101E-06	0.000E+00	2.101E-06	Y90 (Ci)
77	3.417E-01	0.000E+00	3.417E-01	Tc99 (Ci)
78	3.972E-01	0.000E+00	3.972E-01	Cs137 (Ci)
79	6.072E-08	0.000E+00	6.072E-08	Ba137 (Ci)
80	5.313E-01	0.000E+00	5.313E-01	U235 (Ci)
81	7.903E+01	0.000E+00	7.903E+01	U238 (Ci)
82	3.028E-03	0.000E+00	3.028E-03	Np237 (Ci)
83	1.267E-06	0.000E+00	1.267E-06	Pu238 (Ci)
84	8.667E-03	0.000E+00	8.667E-03	Pu239 (Ci)
85	5.093E-04	0.000E+00	5.093E-04	Pu240 (Ci)
86	9.602E-06	0.000E+00	9.602E-06	Pu241 (Ci)
87	2.091E-03	0.000E+00	2.091E-03	Am241 (Ci)
88	3.711E-08	0.000E+00	3.711E-08	Cm244 (Ci)
89	4.288E+06	0.000E+00	4.288E+06	Total
Tot	4.288E+06	0.000E+00	4.288E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
45	4.667E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.085E+04	0.000E+00	3.085E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	4.670E-01	0.000E+00	4.670E-01	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	4.835E-01	0.000E+00	4.835E-01	BI+3
10	4.653E+01	0.000E+00	4.653E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	8.833E+00	0.000E+00	8.833E+00	CE+3
14	3.389E+03	0.000E+00	3.389E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	2.101E+04	0.000E+00	2.101E+04	CO3-2
18	2.238E+03	0.000E+00	2.238E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.447E+01	0.000E+00	1.447E+01	CS+
21	3.616E+00	0.000E+00	3.616E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.570E+03	0.000E+00	3.570E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	9.094E+01	0.000E+00	9.094E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.839E+06	0.000E+00	3.839E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.315E+03	0.000E+00	1.315E+03	K+
32	4.973E+00	0.000E+00	4.973E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	1.075E+00	0.000E+00	1.075E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	2.891E+01	0.000E+00	2.891E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.339E+05	0.000E+00	3.339E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.503E+01	0.000E+00	2.503E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	7.876E+04	0.000E+00	7.876E+04	NO2-
44	5.474E+05	0.000E+00	5.474E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.118E+05	0.000E+00	1.118E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.923E+02	0.000E+00	1.923E+02	PB+4
49	1.594E+04	0.000E+00	1.594E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	0.000E+00	0.000E+00	0.000E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.271E+04	0.000E+00	1.271E+04	SO4-2
61	9.141E-03	0.000E+00	9.141E-03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	7.665E+03	0.000E+00	7.665E+03	TOC
68	6.769E+02	0.000E+00	6.769E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	8.742E-01	0.000E+00	8.742E-01	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.116E+01	0.000E+00	1.116E+01	ZRO2:2H2O
74	1.156E-03	0.000E+00	1.156E-03	C14 (Ci)
75	2.930E-02	0.000E+00	2.930E-02	Sr90 (Ci)
76	7.500E-06	0.000E+00	7.500E-06	Y90 (Ci)
77	1.861E+00	0.000E+00	1.861E+00	Tc99 (Ci)
78	3.616E+00	0.000E+00	3.616E+00	Cs137 (Ci)
79	5.528E-07	0.000E+00	5.528E-07	Ba137 (Ci)
80	1.080E+01	0.000E+00	1.080E+01	U235 (Ci)
81	1.608E+03	0.000E+00	1.608E+03	U238 (Ci)
82	2.324E-02	0.000E+00	2.324E-02	Np237 (Ci)
83	9.382E-06	0.000E+00	9.382E-06	Pu238 (Ci)
84	5.665E-02	0.000E+00	5.665E-02	Pu239 (Ci)
85	3.240E-03	0.000E+00	3.240E-03	Pu240 (Ci)
86	5.416E-05	0.000E+00	5.416E-05	Pu241 (Ci)
87	4.472E-03	0.000E+00	4.472E-03	Am241 (Ci)
88	3.431E-06	0.000E+00	3.431E-06	Cm244 (Ci)
89	5.070E+06	0.000E+00	5.070E+06	Total
Tot	5.070E+06	0.000E+00	5.070E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
46	4.667E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	2.993E-02	0.000E+00	2.993E-02	AG+
2	4.458E+04	0.000E+00	4.458E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	4.001E-04	0.000E+00	4.001E-04	AM+3
5	1.055E-02	0.000E+00	1.055E-02	AS+5
6	1.134E-02	0.000E+00	1.134E-02	B+3
7	6.810E-01	0.000E+00	6.810E-01	BA+2
8	3.466E-05	0.000E+00	3.466E-05	BE+2
9	8.280E+00	0.000E+00	8.280E+00	BI+3
10	3.019E+01	0.000E+00	3.019E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	1.623E-02	0.000E+00	1.623E-02	CD+2
13	9.662E-01	0.000E+00	9.662E-01	CE+3
14	7.456E+02	0.000E+00	7.456E+02	CL-
15	3.686E-07	0.000E+00	3.686E-07	CM+3
16	1.229E-06	0.000E+00	1.229E-06	CO+3
17	1.320E+04	0.000E+00	1.320E+04	CO3-2
18	3.527E+03	0.000E+00	3.527E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.924E+01	0.000E+00	1.924E+01	CS+
21	4.810E+00	0.000E+00	4.810E+00	CS-137
22	2.694E-03	0.000E+00	2.694E-03	CU+2
23	1.102E+03	0.000E+00	1.102E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	2.222E+01	0.000E+00	2.222E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.964E+06	0.000E+00	3.964E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	6.679E-04	0.000E+00	6.679E-04	I-
31	1.181E+03	0.000E+00	1.181E+03	K+
32	7.124E+00	0.000E+00	7.124E+00	LA+3
33	1.159E-03	0.000E+00	1.159E-03	LI+
34	1.554E+00	0.000E+00	1.554E+00	MG+2
35	6.805E-03	0.000E+00	6.805E-03	MN+2
36	7.995E+00	0.000E+00	7.995E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	3.182E-02	0.000E+00	3.182E-02	MO+6
39	1.604E+05	0.000E+00	1.604E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.101E+01	0.000E+00	1.101E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.776E+04	0.000E+00	3.776E+04	NO2-
44	1.246E+05	0.000E+00	1.246E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.502E+04	0.000E+00	7.502E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.843E+00	0.000E+00	1.843E+00	PB+4
49	9.706E+03	0.000E+00	9.706E+03	PO4-3
50	4.096E-03	0.000E+00	4.096E-03	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	6.931E-04	0.000E+00	6.931E-04	RE+7
53	6.837E-03	0.000E+00	6.837E-03	RH+3
54	2.284E-03	0.000E+00	2.284E-03	RU+3
55	3.245E-03	0.000E+00	3.245E-03	SB+5
56	1.137E-02	0.000E+00	1.137E-02	SE+6
57	4.757E+00	0.000E+00	4.757E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	6.396E+03	0.000E+00	6.396E+03	SO4-2
61	1.669E-02	0.000E+00	1.669E-02	SR+2
62	1.550E-01	0.000E+00	1.550E-01	TCO4-
63	7.876E-03	0.000E+00	7.876E-03	TE+6
64	5.261E-03	0.000E+00	5.261E-03	TH+4
65	2.253E-03	0.000E+00	2.253E-03	TI+4
66	6.585E-02	0.000E+00	6.585E-02	TL+3
67	2.296E+03	0.000E+00	2.296E+03	TOC
68	1.249E+02	0.000E+00	1.249E+02	UO2+2
69	6.238E-04	0.000E+00	6.238E-04	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	1.253E+00	0.000E+00	1.253E+00	ZN+2
72	1.443E-01	0.000E+00	1.443E-01	ZR+4
73	2.189E+00	0.000E+00	2.189E+00	ZRO2:2H2O
74	2.620E-04	0.000E+00	2.620E-04	C14 (Ci)
75	2.935E-02	0.000E+00	2.935E-02	Sr90 (Ci)
76	7.514E-06	0.000E+00	7.514E-06	Y90 (Ci)
77	1.193E+00	0.000E+00	1.193E+00	Tc99 (Ci)
78	4.810E+00	0.000E+00	4.810E+00	Cs137 (Ci)
79	7.353E-07	0.000E+00	7.353E-07	Ba137 (Ci)
80	1.703E+00	0.000E+00	1.703E+00	U235 (Ci)
81	2.378E+02	0.000E+00	2.378E+02	U238 (Ci)
82	4.499E-03	0.000E+00	4.499E-03	Np237 (Ci)
83	2.280E-06	0.000E+00	2.280E-06	Pu238 (Ci)
84	2.429E-02	0.000E+00	2.429E-02	Pu239 (Ci)
85	1.386E-03	0.000E+00	1.386E-03	Pu240 (Ci)
86	1.769E-05	0.000E+00	1.769E-05	Pu241 (Ci)
87	3.451E-03	0.000E+00	3.451E-03	Am241 (Ci)
88	7.176E-09	0.000E+00	7.176E-09	Cm244 (Ci)
89	4.444E+06	0.000E+00	4.444E+06	Total
Tot	4.444E+06	0.000E+00	4.444E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
47	4.672E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	1.957E-03	0.000E+00	1.957E-03	AG+
2	2.238E+04	0.000E+00	2.238E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	2.616E-05	0.000E+00	2.616E-05	AM+3
5	6.901E-04	0.000E+00	6.901E-04	AS+5
6	7.416E-04	0.000E+00	7.416E-04	B+3
7	1.486E-01	0.000E+00	1.486E-01	BA+2
8	2.266E-06	0.000E+00	2.266E-06	BE+2
9	1.971E+00	0.000E+00	1.971E+00	BI+3
10	6.510E+00	0.000E+00	6.510E+00	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	1.061E-03	0.000E+00	1.061E-03	CD+2
13	4.460E-01	0.000E+00	4.460E-01	CE+3
14	1.401E+02	0.000E+00	1.401E+02	CL-
15	2.410E-08	0.000E+00	2.410E-08	CM+3
16	8.034E-08	0.000E+00	8.034E-08	CO+3
17	2.654E+03	0.000E+00	2.654E+03	CO3-2
18	1.444E+03	0.000E+00	1.444E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	4.247E+00	0.000E+00	4.247E+00	CS+
21	1.062E+00	0.000E+00	1.062E+00	CS-137
22	1.761E-04	0.000E+00	1.761E-04	CU+2
23	2.750E+02	0.000E+00	2.750E+02	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	5.854E+00	0.000E+00	5.854E+00	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	4.103E+06	0.000E+00	4.103E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	4.367E-05	0.000E+00	4.367E-05	I-
31	2.498E+02	0.000E+00	2.498E+02	K+
32	1.581E+00	0.000E+00	1.581E+00	LA+3
33	7.580E-05	0.000E+00	7.580E-05	LI+
34	3.427E-01	0.000E+00	3.427E-01	MG+2
35	4.449E-04	0.000E+00	4.449E-04	MN+2
36	5.587E-01	0.000E+00	5.587E-01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	2.080E-03	0.000E+00	2.080E-03	MO+6
39	5.493E+04	0.000E+00	5.493E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.444E+00	0.000E+00	2.444E+00	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	7.370E+03	0.000E+00	7.370E+03	NO2-
44	2.795E+04	0.000E+00	2.795E+04	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	2.653E+04	0.000E+00	2.653E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.352E+01	0.000E+00	1.352E+01	PB+4
49	7.318E+03	0.000E+00	7.318E+03	PO4-3
50	2.678E-04	0.000E+00	2.678E-04	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	4.532E-05	0.000E+00	4.532E-05	RE+7
53	4.470E-04	0.000E+00	4.470E-04	RH+3
54	1.493E-04	0.000E+00	1.493E-04	RU+3
55	2.122E-04	0.000E+00	2.122E-04	SB+5
56	7.436E-04	0.000E+00	7.436E-04	SE+6
57	3.110E-01	0.000E+00	3.110E-01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.458E+03	0.000E+00	1.458E+03	SO4-2
61	1.341E-03	0.000E+00	1.341E-03	SR+2
62	1.013E-02	0.000E+00	1.013E-02	TCO4-
63	5.150E-04	0.000E+00	5.150E-04	TE+6
64	3.440E-04	0.000E+00	3.440E-04	TH+4
65	1.473E-04	0.000E+00	1.473E-04	TI+4
66	4.305E-03	0.000E+00	4.305E-03	TL+3
67	6.417E+02	0.000E+00	6.417E+02	TOC
68	5.356E+01	0.000E+00	5.356E+01	UO2+2
69	4.079E-05	0.000E+00	4.079E-05	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	2.780E-01	0.000E+00	2.780E-01	ZN+2
72	9.434E-03	0.000E+00	9.434E-03	ZR+4
73	8.811E-01	0.000E+00	8.811E-01	ZRO2:2H2O
74	1.103E-04	0.000E+00	1.103E-04	C14 (Ci)
75	7.720E-03	0.000E+00	7.720E-03	Sr90 (Ci)
76	1.976E-06	0.000E+00	1.976E-06	Y90 (Ci)
77	2.762E-01	0.000E+00	2.762E-01	Tc99 (Ci)
78	1.062E+00	0.000E+00	1.062E+00	Cs137 (Ci)
79	1.623E-07	0.000E+00	1.623E-07	Ba137 (Ci)
80	1.048E+00	0.000E+00	1.048E+00	U235 (Ci)
81	1.388E+02	0.000E+00	1.388E+02	U238 (Ci)
82	1.106E-03	0.000E+00	1.106E-03	Np237 (Ci)
83	9.555E-07	0.000E+00	9.555E-07	Pu238 (Ci)
84	8.211E-03	0.000E+00	8.211E-03	Pu239 (Ci)
85	4.742E-04	0.000E+00	4.742E-04	Pu240 (Ci)
86	7.580E-06	0.000E+00	7.580E-06	Pu241 (Ci)
87	1.150E-03	0.000E+00	1.150E-03	Am241 (Ci)
88	6.128E-09	0.000E+00	6.128E-09	Cm244 (Ci)
89	4.256E+06	0.000E+00	4.256E+06	Total
Tot	4.256E+06	0.000E+00	4.256E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
48	4.700E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	2.772E-02	0.000E+00	2.772E-02	AG+
2	2.562E+04	0.000E+00	2.562E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	3.706E-04	0.000E+00	3.706E-04	AM+3
5	9.775E-03	0.000E+00	9.775E-03	AS+5
6	1.050E-02	0.000E+00	1.050E-02	B+3
7	2.413E-02	0.000E+00	2.413E-02	BA+2
8	3.210E-05	0.000E+00	3.210E-05	BE+2
9	2.091E+00	0.000E+00	2.091E+00	BI+3
10	1.404E+00	0.000E+00	1.404E+00	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	1.503E-02	0.000E+00	1.503E-02	CD+2
13	5.853E-01	0.000E+00	5.853E-01	CE+3
14	1.200E+02	0.000E+00	1.200E+02	CL-
15	3.414E-07	0.000E+00	3.414E-07	CM+3
16	1.138E-06	0.000E+00	1.138E-06	CO+3
17	9.372E+02	0.000E+00	9.372E+02	CO3-2
18	1.355E+03	0.000E+00	1.355E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	6.086E-01	0.000E+00	6.086E-01	CS+
21	1.521E-01	0.000E+00	1.521E-01	CS-137
22	2.495E-03	0.000E+00	2.495E-03	CU+2
23	2.555E+02	0.000E+00	2.555E+02	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	9.620E+00	0.000E+00	9.620E+00	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	4.125E+06	0.000E+00	4.125E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	6.186E-04	0.000E+00	6.186E-04	I-
31	3.279E+01	0.000E+00	3.279E+01	K+
32	1.219E-01	0.000E+00	1.219E-01	LA+3
33	1.074E-03	0.000E+00	1.074E-03	LI+
34	4.229E-02	0.000E+00	4.229E-02	MG+2
35	6.303E-03	0.000E+00	6.303E-03	MN+2
36	6.111E-01	0.000E+00	6.111E-01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	3.237E-02	0.000E+00	3.237E-02	MO+6
39	4.821E+04	0.000E+00	4.821E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	8.235E-01	0.000E+00	8.235E-01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.150E+03	0.000E+00	2.150E+03	NO2-
44	2.029E+04	0.000E+00	2.029E+04	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	2.173E+04	0.000E+00	2.173E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.516E+00	0.000E+00	1.516E+00	PB+4
49	5.302E+03	0.000E+00	5.302E+03	PO4-3
50	3.793E-03	0.000E+00	3.793E-03	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	6.419E-04	0.000E+00	6.419E-04	RE+7
53	6.332E-03	0.000E+00	6.332E-03	RH+3
54	2.115E-03	0.000E+00	2.115E-03	RU+3
55	3.005E-03	0.000E+00	3.005E-03	SB+5
56	1.054E-02	0.000E+00	1.054E-02	SE+6
57	4.406E+00	0.000E+00	4.406E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.401E+02	0.000E+00	7.401E+02	SO4-2
61	1.548E-02	0.000E+00	1.548E-02	SR+2
62	1.436E-01	0.000E+00	1.436E-01	TCO4-
63	7.295E-03	0.000E+00	7.295E-03	TE+6
64	4.873E-03	0.000E+00	4.873E-03	TH+4
65	2.324E-03	0.000E+00	2.324E-03	TI+4
66	6.098E-02	0.000E+00	6.098E-02	TL+3
67	2.129E+02	0.000E+00	2.129E+02	TOC
68	1.028E+02	0.000E+00	1.028E+02	UO2+2
69	5.777E-04	0.000E+00	5.777E-04	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	3.767E-02	0.000E+00	3.767E-02	ZN+2
72	1.362E-01	0.000E+00	1.362E-01	ZR+4
73	1.505E+00	0.000E+00	1.505E+00	ZRO2:2H2O
74	2.232E-04	0.000E+00	2.232E-04	C14 (Ci)
75	4.943E-03	0.000E+00	4.943E-03	Sr90 (Ci)
76	1.265E-06	0.000E+00	1.265E-06	Y90 (Ci)
77	1.910E-01	0.000E+00	1.910E-01	Tc99 (Ci)
78	1.521E-01	0.000E+00	1.521E-01	Cs137 (Ci)
79	2.325E-08	0.000E+00	2.325E-08	Ba137 (Ci)
80	8.652E-01	0.000E+00	8.652E-01	U235 (Ci)
81	1.160E+02	0.000E+00	1.160E+02	U238 (Ci)
82	2.950E-03	0.000E+00	2.950E-03	Np237 (Ci)
83	1.529E-06	0.000E+00	1.529E-06	Pu238 (Ci)
84	7.207E-03	0.000E+00	7.207E-03	Pu239 (Ci)
85	4.131E-04	0.000E+00	4.131E-04	Pu240 (Ci)
86	8.275E-06	0.000E+00	8.275E-06	Pu241 (Ci)
87	6.975E-04	0.000E+00	6.975E-04	Am241 (Ci)
88	6.379E-09	0.000E+00	6.379E-09	Cm244 (Ci)
89	4.251E+06	0.000E+00	4.251E+06	Total
Tot	4.251E+06	0.000E+00	4.251E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
49	5.197E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	9.642E-03	0.000E+00	9.642E-03	AG+
2	1.082E+04	0.000E+00	1.082E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	1.316E-04	0.000E+00	1.316E-04	AM+3
5	3.471E-03	0.000E+00	3.471E-03	AS+5
6	3.730E-03	0.000E+00	3.730E-03	B+3
7	3.805E-02	0.000E+00	3.805E-02	BA+2
8	1.140E-05	0.000E+00	1.140E-05	BE+2
9	6.905E+00	0.000E+00	6.905E+00	BI+3
10	5.702E+00	0.000E+00	5.702E+00	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	5.335E-03	0.000E+00	5.335E-03	CD+2
13	5.270E+00	0.000E+00	5.270E+00	CE+3
14	4.292E+02	0.000E+00	4.292E+02	CL-
15	1.212E-07	0.000E+00	1.212E-07	CM+3
16	4.040E-07	0.000E+00	4.040E-07	CO+3
17	2.486E+03	0.000E+00	2.466E+03	CO3-2
18	5.670E+02	0.000E+00	5.670E+02	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.386E+00	0.000E+00	1.386E+00	CS+
21	3.466E-01	0.000E+00	3.466E-01	CS-137
22	8.858E-04	0.000E+00	8.858E-04	CU+2
23	6.270E+02	0.000E+00	6.270E+02	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.441E+01	0.000E+00	1.441E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	4.116E+06	0.000E+00	4.116E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	2.196E-04	0.000E+00	2.196E-04	I-
31	1.223E+02	0.000E+00	1.223E+02	K+
32	3.708E-01	0.000E+00	3.708E-01	LA+3
33	3.812E-04	0.000E+00	3.812E-04	LI+
34	6.487E-02	0.000E+00	6.487E-02	MG+2
35	2.236E-03	0.000E+00	2.236E-03	MN+2
36	4.351E+00	0.000E+00	4.351E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	1.046E-02	0.000E+00	1.046E-02	MO+6
39	6.723E+04	0.000E+00	6.723E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.130E+00	0.000E+00	3.130E+00	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	9.431E+03	0.000E+00	9.431E+03	NO2-
44	8.336E+04	0.000E+00	8.336E+04	NO3-

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45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.910E+04	0.000E+00	1.910E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	3.731E-01	0.000E+00	3.731E-01	PB+4
49	4.605E+03	0.000E+00	4.605E+03	PO4-3
50	1.347E-03	0.000E+00	1.347E-03	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	2.279E-04	0.000E+00	2.279E-04	RE+7
53	2.248E-03	0.000E+00	2.248E-03	RH+3
54	7.511E-04	0.000E+00	7.511E-04	RU+3
55	1.067E-03	0.000E+00	1.067E-03	SB+5
56	3.740E-03	0.000E+00	3.740E-03	SE+6
57	1.564E+00	0.000E+00	1.564E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.428E+03	0.000E+00	1.428E+03	SO4-2
61	5.745E-03	0.000E+00	5.745E-03	SR+2
62	5.097E-02	0.000E+00	5.097E-02	TCO4-
63	2.590E-03	0.000E+00	2.590E-03	TE+6
64	1.730E-03	0.000E+00	1.730E-03	TH+4
65	7.407E-04	0.000E+00	7.407E-04	TI+4
66	2.165E-02	0.000E+00	2.165E-02	TL+3
67	5.549E+02	0.000E+00	5.549E+02	TOC
68	1.338E+02	0.000E+00	1.338E+02	UO2+2
69	2.051E-04	0.000E+00	2.051E-04	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	6.528E-02	0.000E+00	6.528E-02	ZN+2
72	4.745E-02	0.000E+00	4.745E-02	ZR+4
73	4.296E+00	0.000E+00	4.296E+00	ZRO2:2H2O
74	5.308E-04	0.000E+00	5.308E-04	C14 (Ci)
75	3.226E-03	0.000E+00	3.226E-03	Sr90 (Ci)
76	8.257E-07	0.000E+00	8.257E-07	Y90 (Ci)
77	5.683E-01	0.000E+00	5.683E-01	Tc99 (Ci)
78	3.466E-01	0.000E+00	3.466E-01	Cs137 (Ci)
79	5.297E-08	0.000E+00	5.297E-08	Ba137 (Ci)
80	6.606E-01	0.000E+00	6.606E-01	U235 (Ci)
81	9.486E+01	0.000E+00	9.486E+01	U238 (Ci)
82	1.089E-02	0.000E+00	1.089E-02	Np237 (Ci)
83	9.395E-07	0.000E+00	9.395E-07	Pu238 (Ci)
84	5.227E-03	0.000E+00	5.227E-03	Pu239 (Ci)
85	2.877E-04	0.000E+00	2.877E-04	Pu240 (Ci)
86	5.634E-06	0.000E+00	5.634E-06	Pu241 (Ci)
87	6.112E-04	0.000E+00	6.112E-04	Am241 (Ci)
88	5.405E-09	0.000E+00	5.405E-09	Cm244 (Ci)
89	4.317E+06	0.000E+00	4.317E+06	Total
Tot	4.317E+06	0.000E+00	4.317E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
50	5.257E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	1.094E-03	0.000E+00	1.094E-03	AG+
2	1.049E+04	0.000E+00	1.049E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	1.463E-05	0.000E+00	1.463E-05	AM+3
5	3.858E-04	0.000E+00	3.858E-04	AS+5
6	4.146E-04	0.000E+00	4.146E-04	B+3
7	1.517E-02	0.000E+00	1.517E-02	BA+2
8	1.267E-06	0.000E+00	1.267E-06	BE+2
9	4.323E+00	0.000E+00	4.323E+00	BI+3
10	2.703E+00	0.000E+00	2.703E+00	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	5.931E-04	0.000E+00	5.931E-04	CD+2
13	1.173E+00	0.000E+00	1.173E+00	CE+3
14	2.551E+02	0.000E+00	2.551E+02	CL-
15	1.347E-08	0.000E+00	1.347E-08	CM+3
16	4.491E-08	0.000E+00	4.491E-08	CO+3
17	1.248E+03	0.000E+00	1.248E+03	CO3-2
18	2.103E+02	0.000E+00	2.103E+02	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	5.765E-01	0.000E+00	5.765E-01	CS+
21	1.441E-01	0.000E+00	1.441E-01	CS-137
22	9.846E-05	0.000E+00	9.846E-05	CU+2
23	3.659E+02	0.000E+00	3.659E+02	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	9.021E+00	0.000E+00	9.021E+00	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	4.134E+06	0.000E+00	4.134E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	2.441E-05	0.000E+00	2.441E-05	I-
31	9.199E+01	0.000E+00	9.199E+01	K+
32	1.566E-01	0.000E+00	1.566E-01	LA+3
33	4.238E-05	0.000E+00	4.238E-05	LI+
34	7.153E-02	0.000E+00	7.153E-02	MG+2
35	2.487E-04	0.000E+00	2.487E-04	MN+2
36	1.912E+00	0.000E+00	1.912E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	4.211E-02	0.000E+00	4.211E-02	MO+6
39	4.465E+04	0.000E+00	4.465E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.658E+00	0.000E+00	1.658E+00	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	5.091E+03	0.000E+00	5.091E+03	NO2-
44	4.083E+04	0.000E+00	4.083E+04	NO3-

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45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.605E+04	0.000E+00	1.605E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.670E+01	0.000E+00	1.670E+01	PB+4
49	4.712E+03	0.000E+00	4.712E+03	PO4-3
50	1.497E-04	0.000E+00	1.497E-04	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	2.533E-05	0.000E+00	2.533E-05	RE+7
53	2.499E-04	0.000E+00	2.499E-04	RH+3
54	8.349E-05	0.000E+00	8.349E-05	RU+3
55	1.186E-04	0.000E+00	1.186E-04	SB+5
56	4.392E-04	0.000E+00	4.392E-04	SE+6
57	1.739E-01	0.000E+00	1.739E-01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	9.281E+02	0.000E+00	9.281E+02	SO4-2
61	1.080E-03	0.000E+00	1.080E-03	SR+2
62	5.666E-03	0.000E+00	5.666E-03	TCO4-
63	2.879E-04	0.000E+00	2.879E-04	TE+6
64	1.923E-04	0.000E+00	1.923E-04	TH+4
65	3.438E-03	0.000E+00	3.438E-03	TI+4
66	2.407E-03	0.000E+00	2.407E-03	TL+3
67	5.766E+02	0.000E+00	5.766E+02	TOC
68	7.043E+01	0.000E+00	7.043E+01	UO2+2
69	2.280E-05	0.000E+00	2.280E-05	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	2.530E-01	0.000E+00	2.530E-01	ZN+2
72	4.117E-02	0.000E+00	4.117E-02	ZR+4
73	1.822E+00	0.000E+00	1.822E+00	ZRO2:2H2O
74	6.674E-04	0.000E+00	6.674E-04	C14 (Ci)
75	3.335E-03	0.000E+00	3.335E-03	Sr90 (Ci)
76	8.536E-07	0.000E+00	8.536E-07	Y90 (Ci)
77	3.981E-01	0.000E+00	3.981E-01	Tc99 (Ci)
78	1.441E-01	0.000E+00	1.441E-01	Cs137 (Ci)
79	2.203E-08	0.000E+00	2.203E-08	Ba137 (Ci)
80	7.081E-01	0.000E+00	7.081E-01	U235 (Ci)
81	1.054E+02	0.000E+00	1.054E+02	U238 (Ci)
82	9.841E-03	0.000E+00	9.841E-03	Np237 (Ci)
83	8.749E-07	0.000E+00	8.749E-07	Pu238 (Ci)
84	5.499E-03	0.000E+00	5.499E-03	Pu239 (Ci)
85	3.208E-04	0.000E+00	3.208E-04	Pu240 (Ci)
86	6.201E-06	0.000E+00	6.201E-06	Pu241 (Ci)
87	8.575E-04	0.000E+00	8.575E-04	Am241 (Ci)
88	1.467E-08	0.000E+00	1.467E-08	Cm244 (Ci)
89	4.260E+06	0.000E+00	4.260E+06	Total
Tot	4.260E+06	0.000E+00	4.260E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
51	5.272E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.547E+04	0.000E+00	2.547E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	4.510E-02	0.000E+00	4.510E-02	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	4.489E+01	0.000E+00	4.489E+01	BI+3
10	1.967E+01	0.000E+00	1.967E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.297E+01	0.000E+00	1.297E+01	CE+3
14	2.042E+03	0.000E+00	2.042E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	8.713E+03	0.000E+00	8.713E+03	CO3-2
18	1.224E+03	0.000E+00	1.224E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	3.415E+00	0.000E+00	3.415E+00	CS+
21	8.537E-01	0.000E+00	8.537E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	4.368E+03	0.000E+00	4.368E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	7.924E-01	0.000E+00	7.924E-01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.988E+06	0.000E+00	3.988E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.836E+02	0.000E+00	3.836E+02	K+
32	4.600E-01	0.000E+00	4.600E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	9.951E-02	0.000E+00	9.951E-02	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.600E+01	0.000E+00	1.600E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	1.007E-04	0.000E+00	1.007E-04	MO+6
39	2.774E+05	0.000E+00	2.774E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.214E+01	0.000E+00	1.214E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.714E+04	0.000E+00	3.714E+04	NO2-
44	3.479E+05	0.000E+00	3.479E+05	NO3-

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45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.468E+04	0.000E+00	7.468E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	3.325E+01	0.000E+00	3.325E+01	PB+4
49	2.684E+04	0.000E+00	2.684E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	5.768E-08	0.000E+00	5.768E-08	SE+6
57	0.000E+00	0.000E+00	0.000E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	6.613E+03	0.000E+00	6.613E+03	SO4-2
61	4.790E-03	0.000E+00	4.790E-03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	8.253E-06	0.000E+00	8.253E-06	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.987E+03	0.000E+00	2.987E+03	TOC
68	4.674E+02	0.000E+00	4.674E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	5.142E-02	0.000E+00	8.142E-02	ZN+2
72	8.829E-05	0.000E+00	8.829E-05	ZR+4
73	2.380E-01	0.000E+00	2.380E-01	ZRO2:2H2O
74	1.996E-02	0.000E+00	1.996E-02	C14 (Ci)
75	9.218E-03	0.000E+00	9.218E-03	Sr90 (Ci)
76	2.360E-06	0.000E+00	2.360E-06	Y90 (Ci)
77	1.165E+01	0.000E+00	1.165E+01	Tc99 (Ci)
78	8.537E-01	0.000E+00	8.537E-01	Cs137 (Ci)
79	1.305E-07	0.000E+00	1.305E-07	Ba137 (Ci)
80	5.891E+00	0.000E+00	5.891E+00	U235 (Ci)
81	8.802E+02	0.000E+00	8.802E+02	U238 (Ci)
82	3.994E-01	0.000E+00	3.994E-01	Np237 (Ci)
83	5.194E-06	0.000E+00	5.194E-06	Pu238 (Ci)
84	3.517E-02	0.000E+00	3.517E-02	Pu239 (Ci)
85	2.031E-03	0.000E+00	2.031E-03	Pu240 (Ci)
86	4.133E-05	0.000E+00	4.133E-05	Pu241 (Ci)
87	2.174E-03	0.000E+00	2.174E-03	Am241 (Ci)
88	3.906E-08	0.000E+00	3.906E-08	Cm244 (Ci)
89	4.805E+06	0.000E+00	4.805E+06	Total
Tot	4.805E+06	0.000E+00	4.805E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
52	5.335E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.592E+04	0.000E+00	3.592E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	2.049E-01	0.000E+00	2.049E-01	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	4.757E+01	0.000E+00	4.757E+01	BI+3
10	3.417E+01	0.000E+00	3.417E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.510E+01	0.000E+00	1.510E+01	CE+3
14	2.914E+03	0.000E+00	2.914E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.475E+04	0.000E+00	1.475E+04	CO3-2
18	2.219E+03	0.000E+00	2.219E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	7.307E+00	0.000E+00	7.307E+00	CS+
21	1.827E+00	0.000E+00	1.827E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.631E+03	0.000E+00	3.631E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	8.238E-01	0.000E+00	8.238E-01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.879E+06	0.000E+00	3.879E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	8.167E+02	0.000E+00	8.167E+02	K+
32	2.182E+00	0.000E+00	2.182E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	4.715E-01	0.000E+00	4.715E-01	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	2.570E+01	0.000E+00	2.570E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.720E+05	0.000E+00	3.720E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.909E-01	0.000E+00	1.909E-01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	6.151E+04	0.000E+00	6.151E+04	NO2-
44	4.873E+05	0.000E+00	4.873E+05	NO3-

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45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.031E+05	0.000E+00	1.031E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	5.600E+01	0.000E+00	5.600E+01	PB+4
49	2.440E+04	0.000E+00	2.440E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	2.196E-01	0.000E+00	2.196E-01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	9.196E+03	0.000E+00	9.196E+03	SO4-2
61	3.442E-03	0.000E+00	3.442E-03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	4.916E+03	0.000E+00	4.916E+03	TOC
68	4.485E+02	0.000E+00	4.485E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	3.835E-01	0.000E+00	3.835E-01	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.631E+01	0.000E+00	1.631E+01	ZRO2:2H2O
74	7.229E-03	0.000E+00	7.229E-03	C14 (Ci)
75	1.570E-02	0.000E+00	1.570E-02	Sr90 (Ci)
76	4.018E-06	0.000E+00	4.018E-06	Y90 (Ci)
77	5.098E+00	0.000E+00	5.098E+00	Tc99 (Ci)
78	1.827E+00	0.000E+00	1.827E+00	Cs137 (Ci)
79	2.792E-07	0.000E+00	2.792E-07	Ba137 (Ci)
80	7.878E+00	0.000E+00	7.878E+00	U235 (Ci)
81	1.181E+03	0.000E+00	1.181E+03	U238 (Ci)
82	1.479E-01	0.000E+00	1.479E-01	Np237 (Ci)
83	5.967E-06	0.000E+00	5.967E-06	Pu238 (Ci)
84	4.098E-02	0.000E+00	4.098E-02	Pu239 (Ci)
85	2.366E-03	0.000E+00	2.366E-03	Pu240 (Ci)
86	4.412E-05	0.000E+00	4.412E-05	Pu241 (Ci)
87	3.246E-03	0.000E+00	3.246E-03	Am241 (Ci)
88	3.630E-08	0.000E+00	3.630E-08	Cm244 (Ci)
89	5.001E+06	0.000E+00	5.001E+06	Total
Tot	5.001E+06	0.000E+00	5.001E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
53	5.339E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.369E+04	0.000E+00	3.369E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	2.297E-04	0.000E+00	2.297E-04	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	6.065E+01	0.000E+00	6.065E+01	BI+3
10	7.358E+01	0.000E+00	7.358E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.264E+01	0.000E+00	1.264E+01	CE+3
14	3.596E+03	0.000E+00	3.596E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.369E+04	0.000E+00	1.369E+04	CO3-2
18	2.524E+03	0.000E+00	2.524E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	4.062E+00	0.000E+00	4.062E+00	CS+
21	1.015E+00	0.000E+00	1.015E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	5.967E+03	0.000E+00	5.967E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.256E+02	0.000E+00	1.256E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.913E+06	0.000E+00	3.913E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	7.445E+02	0.000E+00	7.445E+02	K+
32	0.000E+00	0.000E+00	0.000E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	2.919E+01	0.000E+00	2.919E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.042E+05	0.000E+00	4.042E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.075E+01	0.000E+00	2.075E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	5.731E+04	0.000E+00	5.731E+04	NO2-
44	5.277E+05	0.000E+00	5.277E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.088E+05	0.000E+00	1.088E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	2.366E+01	0.000E+00	2.366E+01	PB+4
49	2.594E+04	0.000E+00	2.594E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	9.525E-02	0.000E+00	9.525E-02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	9.502E+03	0.000E+00	9.502E+03	SO4-2
61	3.822E-03	0.000E+00	3.822E-03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	4.966E+03	0.000E+00	4.966E+03	TOC
68	7.668E+02	0.000E+00	7.668E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	4.333E+01	0.000E+00	4.333E+01	ZRO2:2H2O
74	2.808E-02	0.000E+00	2.808E-02	C14 (Ci)
75	1.236E-02	0.000E+00	1.236E-02	Sr90 (Ci)
76	3.164E-06	0.000E+00	3.164E-06	Y90 (Ci)
77	1.845E+01	0.000E+00	1.845E+01	Tc99 (Ci)
78	1.015E+00	0.000E+00	1.015E+00	Cs137 (Ci)
79	1.552E-07	0.000E+00	1.552E-07	Ba137 (Ci)
80	6.444E+00	0.000E+00	6.444E+00	U235 (Ci)
81	9.612E+02	0.000E+00	9.612E+02	U238 (Ci)
82	5.731E-01	0.000E+00	5.731E-01	Np237 (Ci)
83	5.896E-06	0.000E+00	5.896E-06	Pu238 (Ci)
84	4.164E-02	0.000E+00	4.164E-02	Pu239 (Ci)
85	2.490E-03	0.000E+00	2.490E-03	Pu240 (Ci)
86	5.579E-05	0.000E+00	5.579E-05	Pu241 (Ci)
87	2.858E-03	0.000E+00	2.858E-03	Am241 (Ci)
88	7.183E-08	0.000E+00	7.183E-08	Cm244 (Ci)
89	5.112E+06	0.000E+00	5.112E+06	Total
Tot	5.112E+06	0.000E+00	5.112E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
54	5.354E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	4.248E+04	0.000E+00	4.248E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	3.906E-02	0.000E+00	3.906E-02	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	3.936E+01	0.000E+00	3.936E+01	BI+3
10	2.482E+01	0.000E+00	2.482E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	4.975E+00	0.000E+00	4.975E+00	CE+3
14	1.257E+03	0.000E+00	1.257E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	5.103E+03	0.000E+00	5.103E+03	CO3-2
18	3.933E+03	0.000E+00	3.933E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.469E+00	0.000E+00	2.469E+00	CS+
21	6.171E-01	0.000E+00	6.171E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.263E+03	0.000E+00	3.263E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	5.967E+01	0.000E+00	5.967E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	4.025E+06	0.000E+00	4.025E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.659E+02	0.000E+00	2.659E+02	K+
32	3.515E-01	0.000E+00	3.515E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	7.598E-02	0.000E+00	7.598E-02	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	8.074E+00	0.000E+00	8.074E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	1.973E+05	0.000E+00	1.973E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	9.544E+00	0.000E+00	9.544E+00	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	1.992E+04	0.000E+00	1.992E+04	NO2-
44	1.984E+05	0.000E+00	1.984E+05	NO3-

Fri Sep 06 11:38:07 1996 **CASE.250.llw**

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	5.759E+04	0.000E+00	5.759E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.254E+01	0.000E+00	1.254E+01	PB+4
49	3.142E+04	0.000E+00	3.142E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	2.882E+00	0.000E+00	2.882E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	4.425E+03	0.000E+00	4.425E+03	SO4-2
61	1.654E-03	0.000E+00	1.654E-03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.697E+03	0.000E+00	1.697E+03	TOC
68	3.023E+02	0.000E+00	3.023E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	6.180E-02	0.000E+00	6.180E-02	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	2.318E+01	0.000E+00	2.318E+01	ZRO2:2H2O
74	1.163E-02	0.000E+00	1.163E-02	C14 (Ci)
75	7.863E-03	0.000E+00	7.863E-03	Sr90 (Ci)
76	2.013E-06	0.000E+00	2.013E-06	Y90 (Ci)
77	7.337E+00	0.000E+00	7.337E+00	Tc99 (Ci)
78	6.171E-01	0.000E+00	6.171E-01	Cs137 (Ci)
79	9.434E-08	0.000E+00	9.434E-08	Ba137 (Ci)
80	7.169E+00	0.000E+00	7.169E+00	U235 (Ci)
81	1.065E+03	0.000E+00	1.065E+03	U238 (Ci)
82	2.371E-01	0.000E+00	2.371E-01	Np237 (Ci)
83	3.986E-06	0.000E+00	3.986E-06	Pu238 (Ci)
84	2.849E-02	0.000E+00	2.849E-02	Pu239 (Ci)
85	1.723E-03	0.000E+00	1.723E-03	Pu240 (Ci)
86	3.799E-05	0.000E+00	3.799E-05	Pu241 (Ci)
87	1.606E-03	0.000E+00	1.606E-03	Am241 (Ci)
88	2.920E-08	0.000E+00	2.920E-08	Cm244 (Ci)
89	4.591E+06	0.000E+00	4.591E+06	Total
Tot	4.591E+06	0.000E+00	4.591E+06	

Fri Sep 06 11:38:07 1996 **CASE.250.llw**

Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
55	5.363E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	5.216E+04	0.000E+00	5.216E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	9.440E-05	0.000E+00	9.440E-05	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	4.709E+01	0.000E+00	4.709E+01	BI+3
10	6.721E+01	0.000E+00	6.721E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	2.125E+01	0.000E+00	2.125E+01	CE+3
14	3.111E+03	0.000E+00	3.111E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.212E+04	0.000E+00	1.212E+04	CO3-2
18	9.753E+03	0.000E+00	9.753E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.284E+00	0.000E+00	2.284E+00	CS+
21	5.709E-01	0.000E+00	5.709E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.825E+03	0.000E+00	3.825E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	9.471E+01	0.000E+00	9.471E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.858E+06	0.000E+00	3.858E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	6.151E+02	0.000E+00	6.151E+02	K+
32	0.000E+00	0.000E+00	0.000E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	2.693E+01	0.000E+00	2.693E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.912E+05	0.000E+00	3.912E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.129E+01	0.000E+00	2.129E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	5.202E+04	0.000E+00	5.202E+04	NO2-
44	5.386E+05	0.000E+00	5.386E+05	NO3-

Fri Sep 06 11:38:07 1996 **CASE.250.llw**

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	9.386E+04	0.000E+00	9.386E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	4.731E+00	0.000E+00	4.731E+00	PB+4
49	2.894E+04	0.000E+00	2.894E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.729E+00	0.000E+00	1.729E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.050E+03	0.000E+00	7.050E+03	SO4-2
61	2.105E-03	0.000E+00	2.105E-03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	4.049E+03	0.000E+00	4.049E+03	TOC
68	5.006E+02	0.000E+00	5.006E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	4.592E+01	0.000E+00	4.592E+01	ZRO2:2H2O
74	6.182E-03	0.000E+00	6.182E-03	C14 (Ci)
75	8.229E-03	0.000E+00	8.229E-03	Sr90 (Ci)
76	2.107E-06	0.000E+00	2.107E-06	Y90 (Ci)
77	5.725E+00	0.000E+00	5.725E+00	Tc99 (Ci)
78	5.709E-01	0.000E+00	5.709E-01	Cs137 (Ci)
79	8.727E-08	0.000E+00	8.727E-08	Ba137 (Ci)
80	5.045E+00	0.000E+00	5.045E+00	U235 (Ci)
81	7.535E+02	0.000E+00	7.535E+02	U238 (Ci)
82	1.218E-01	0.000E+00	1.218E-01	Np237 (Ci)
83	3.699E-06	0.000E+00	3.699E-06	Pu238 (Ci)
84	2.633E-02	0.000E+00	2.633E-02	Pu239 (Ci)
85	1.562E-03	0.000E+00	1.562E-03	Pu240 (Ci)
86	3.815E-05	0.000E+00	3.815E-05	Pu241 (Ci)
87	2.466E-03	0.000E+00	2.466E-03	Am241 (Ci)
88	2.721E-08	0.000E+00	2.721E-08	Cm244 (Ci)
89	5.054E+06	0.000E+00	5.054E+06	Total
Tot	5.054E+06	0.000E+00	5.054E+06	

Fri Sep 06 11:38:07 1996 **CASE.250.llw**

Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
56	5.380E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	5.886E+04	0.000E+00	5.886E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	1.775E-05	0.000E+00	1.775E-05	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	6.813E+01	0.000E+00	6.813E+01	BI+3
10	4.276E+01	0.000E+00	4.276E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	3.555E+01	0.000E+00	3.555E+01	CE+3
14	2.413E+03	0.000E+00	2.413E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	9.837E+03	0.000E+00	9.837E+03	CO3-2
18	9.315E+03	0.000E+00	9.315E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.803E+00	0.000E+00	2.803E+00	CS+
21	7.007E-01	0.000E+00	7.007E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	5.695E+03	0.000E+00	5.695E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.023E+02	0.000E+00	1.023E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.893E+06	0.000E+00	3.893E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.710E+02	0.000E+00	3.710E+02	K+
32	0.000E+00	0.000E+00	0.000E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.796E+01	0.000E+00	1.796E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.609E+05	0.000E+00	3.609E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.956E+01	0.000E+00	1.956E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.967E+04	0.000E+00	3.967E+04	NO2-
44	4.599E+05	0.000E+00	4.599E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	9.000E+04	0.000E+00	9.000E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	5.835E+00	0.000E+00	5.835E+00	PB+4
49	3.618E+04	0.000E+00	3.618E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	5.691E+00	0.000E+00	5.691E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.573E+03	0.000E+00	7.573E+03	SO4-2
61	2.552E-03	0.000E+00	2.552E-03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.868E+03	0.000E+00	2.868E+03	TOC
68	8.023E+02	0.000E+00	8.023E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	8.113E+01	0.000E+00	8.113E+01	ZRO2:2H2O
74	1.187E-02	0.000E+00	1.187E-02	C14 (Ci)
75	9.480E-03	0.000E+00	9.480E-03	Sr90 (Ci)
76	2.427E-06	0.000E+00	2.427E-06	Y90 (Ci)
77	7.818E+00	0.000E+00	7.818E+00	Tc99 (Ci)
78	7.007E-01	0.000E+00	7.007E-01	Cs137 (Ci)
79	1.071E-07	0.000E+00	1.071E-07	Ba137 (Ci)
80	1.088E+01	0.000E+00	1.088E+01	U235 (Ci)
81	1.627E+03	0.000E+00	1.627E+03	U238 (Ci)
82	1.751E-01	0.000E+00	1.751E-01	Np237 (Ci)
83	6.642E-06	0.000E+00	6.642E-06	Pu238 (Ci)
84	4.940E-02	0.000E+00	4.940E-02	Pu239 (Ci)
85	3.022E-03	0.000E+00	3.022E-03	Pu240 (Ci)
86	7.755E-05	0.000E+00	7.755E-05	Pu241 (Ci)
87	5.676E-03	0.000E+00	5.676E-03	Am241 (Ci)
88	8.762E-08	0.000E+00	8.762E-08	Cm244 (Ci)
89	4.976E+06	0.000E+00	4.976E+06	Total
Tot	4.976E+06	0.000E+00	4.976E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
57	5.393E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	4.590E+04	0.000E+00	4.590E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	7.313E-05	0.000E+00	7.313E-05	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	6.103E+01	0.000E+00	6.103E+01	BI+3
10	6.873E+01	0.000E+00	6.873E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	3.382E+01	0.000E+00	3.382E+01	CE+3
14	3.366E+03	0.000E+00	3.366E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.340E+04	0.000E+00	1.340E+04	CO3-2
18	6.600E+03	0.000E+00	6.600E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.746E+00	0.000E+00	2.746E+00	CS+
21	6.665E-01	0.000E+00	6.665E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	4.466E+03	0.000E+00	4.466E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.072E+02	0.000E+00	1.072E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.844E+06	0.000E+00	3.844E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	6.316E+02	0.000E+00	6.316E+02	K+
32	0.000E+00	0.000E+00	0.000E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	2.897E+01	0.000E+00	2.897E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.177E+05	0.000E+00	4.177E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.401E+01	0.000E+00	2.401E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	5.717E+04	0.000E+00	5.717E+04	NO2-
44	6.013E+05	0.000E+00	6.013E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	9.563E+04	0.000E+00	9.563E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	4.540E+00	0.000E+00	4.540E+00	PB+4
49	2.753E+04	0.000E+00	2.753E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	3.462E+00	0.000E+00	3.462E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	8.489E+03	0.000E+00	8.489E+03	SO4-2
61	1.527E-03	0.000E+00	1.527E-03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	4.174E+03	0.000E+00	4.174E+03	TOC
68	7.566E+02	0.000E+00	7.566E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	4.718E+01	0.000E+00	4.718E+01	ZRO2:2H2O
74	8.536E-03	0.000E+00	8.536E-03	C14 (Ci)
75	9.845E-03	0.000E+00	9.845E-03	Sr90 (Ci)
76	2.520E-06	0.000E+00	2.520E-06	Y90 (Ci)
77	6.767E+00	0.000E+00	6.767E+00	Tc99 (Ci)
78	6.865E-01	0.000E+00	6.865E-01	Cs137 (Ci)
79	1.049E-07	0.000E+00	1.049E-07	Ba137 (Ci)
80	7.960E+00	0.000E+00	7.960E+00	U235 (Ci)
81	1.189E+03	0.000E+00	1.189E+03	U238 (Ci)
82	1.271E-01	0.000E+00	1.271E-01	Np237 (Ci)
83	4.793E-06	0.000E+00	4.793E-06	Pu238 (Ci)
84	3.735E-02	0.000E+00	3.735E-02	Pu239 (Ci)
85	2.256E-03	0.000E+00	2.256E-03	Pu240 (Ci)
86	5.702E-05	0.000E+00	5.702E-05	Pu241 (Ci)
87	4.636E-03	0.000E+00	4.636E-03	Am241 (Ci)
88	6.365E-08	0.000E+00	6.365E-08	Cm244 (Ci)
89	5.130E+06	0.000E+00	5.130E+06	Total
Tot	5.130E+06	0.000E+00	5.130E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
58	5.410E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.532E+04	0.000E+00	3.532E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	2.302E-06	0.000E+00	2.302E-06	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	1.052E+02	0.000E+00	1.052E+02	BI+3
10	4.356E+01	0.000E+00	4.356E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	5.718E+01	0.000E+00	5.718E+01	CE+3
14	2.917E+03	0.000E+00	2.917E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.148E+04	0.000E+00	1.148E+04	CO3-2
18	2.093E+03	0.000E+00	2.093E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	3.090E+00	0.000E+00	3.090E+00	CS+
21	7.725E-01	0.000E+00	7.725E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	7.818E+03	0.000E+00	7.818E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.282E+02	0.000E+00	1.282E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.874E+06	0.000E+00	3.874E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.745E+02	0.000E+00	3.745E+02	K+
32	0.000E+00	0.000E+00	0.000E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.939E+01	0.000E+00	1.939E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.237E+05	0.000E+00	4.237E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.500E+01	0.000E+00	2.500E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.724E+04	0.000E+00	4.724E+04	NO2-
44	5.841E+05	0.000E+00	5.841E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	9.685E+04	0.000E+00	9.685E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	8.981E+00	0.000E+00	8.981E+00	PB+4
49	4.376E+04	0.000E+00	4.376E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	7.823E+00	0.000E+00	7.823E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.027E+04	0.000E+00	1.027E+04	SO4-2
61	3.234E-03	0.000E+00	3.234E-03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	3.312E+03	0.000E+00	3.312E+03	TOC
68	7.652E+02	0.000E+00	7.652E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	7.095E+01	0.000E+00	7.095E+01	ZRO2:2H2O
74	1.675E-02	0.000E+00	1.675E-02	C14 (Ci)
75	8.337E-03	0.000E+00	8.337E-03	Sr90 (Ci)
76	2.134E-06	0.000E+00	2.134E-06	Y90 (Ci)
77	1.011E+01	0.000E+00	1.011E+01	Tc99 (Ci)
78	7.725E-01	0.000E+00	7.725E-01	Cs137 (Ci)
79	1.180E-07	0.000E+00	1.180E-07	Ba137 (Ci)
80	8.036E+01	0.000E+00	8.036E+01	U235 (Ci)
81	1.219E+04	0.000E+00	1.219E+04	U238 (Ci)
82	2.633E-01	0.000E+00	2.633E-01	Np237 (Ci)
83	7.165E-06	0.000E+00	7.165E-06	Pu238 (Ci)
84	4.930E-02	0.000E+00	4.930E-02	Pu239 (Ci)
85	2.987E-03	0.000E+00	2.987E-03	Pu240 (Ci)
86	7.415E-05	0.000E+00	7.415E-05	Pu241 (Ci)
87	6.068E-03	0.000E+00	6.068E-03	Am241 (Ci)
88	1.086E-07	0.000E+00	1.086E-07	Cm244 (Ci)
89	5.142E+06	0.000E+00	5.142E+06	Total
Tot	5.142E+06	0.000E+00	5.142E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
59	5.421E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	4.122E+04	0.000E+00	4.122E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	1.339E-06	0.000E+00	1.339E-06	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	7.777E+01	0.000E+00	7.777E+01	BI+3
10	3.369E+01	0.000E+00	3.369E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	4.519E+01	0.000E+00	4.519E+01	CE+3
14	2.733E+03	0.000E+00	2.733E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.075E+04	0.000E+00	1.075E+04	CO3-2
18	2.082E+03	0.000E+00	2.082E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.517E+00	0.000E+00	2.517E+00	CS+
21	6.293E-01	0.000E+00	6.293E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	6.495E+03	0.000E+00	6.495E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.048E+02	0.000E+00	1.048E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.900E+06	0.000E+00	3.900E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	4.000E+02	0.000E+00	4.000E+02	K+
32	0.000E+00	0.000E+00	0.000E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	2.407E+01	0.000E+00	2.407E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.867E+05	0.000E+00	3.867E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.005E+01	0.000E+00	2.005E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.902E+04	0.000E+00	4.902E+04	NO2-
44	5.165E+05	0.000E+00	5.165E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	9.123E+04	0.000E+00	9.123E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	4.460E+00	0.000E+00	4.460E+00	PB+4
49	4.006E+04	0.000E+00	4.006E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	2.702E+00	0.000E+00	2.702E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.600E+03	0.000E+00	7.600E+03	SO4-2
61	1.338E-03	0.000E+00	1.338E-03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.985E+03	0.000E+00	2.985E+03	TOC
68	5.228E+02	0.000E+00	5.228E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	7.459E+01	0.000E+00	7.459E+01	ZRO2:2H2O
74	9.415E-03	0.000E+00	9.415E-03	C14 (Ci)
75	7.737E-03	0.000E+00	7.737E-03	Sr90 (Ci)
76	1.981E-06	0.000E+00	1.981E-06	Y90 (Ci)
77	6.348E+00	0.000E+00	6.348E+00	Tc99 (Ci)
78	6.293E-01	0.000E+00	6.293E-01	Cs137 (Ci)
79	9.613E-08	0.000E+00	9.613E-08	Ba137 (Ci)
80	9.661E+01	0.000E+00	9.661E+01	U235 (Ci)
81	1.464E+04	0.000E+00	1.464E+04	U238 (Ci)
82	1.622E-01	0.000E+00	1.622E-01	Np237 (Ci)
83	5.766E-06	0.000E+00	5.766E-06	Pu238 (Ci)
84	4.571E-02	0.000E+00	4.571E-02	Pu239 (Ci)
85	2.746E-03	0.000E+00	2.746E-03	Pu240 (Ci)
86	7.005E-05	0.000E+00	7.005E-05	Pu241 (Ci)
87	4.309E-03	0.000E+00	4.309E-03	Am241 (Ci)
88	5.646E-08	0.000E+00	5.646E-08	Cm244 (Ci)
89	5.058E+06	0.000E+00	5.058E+06	Total
Tot	5.058E+06	0.000E+00	5.058E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
60	5.437E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	4.733E+04	0.000E+00	4.733E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	8.104E-08	0.000E+00	8.104E-08	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	4.752E+01	0.000E+00	4.752E+01	BI+3
10	3.062E+01	0.000E+00	3.062E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	5.817E+01	0.000E+00	5.817E+01	CE+3
14	2.634E+03	0.000E+00	2.634E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	9.889E+03	0.000E+00	9.889E+03	CO3-2
18	1.864E+03	0.000E+00	1.864E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.915E+00	0.000E+00	1.915E+00	CS+
21	4.789E-01	0.000E+00	4.789E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.588E+03	0.000E+00	3.588E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	7.619E+01	0.000E+00	7.619E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.863E+06	0.000E+00	3.863E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.883E+02	0.000E+00	3.883E+02	K+
32	0.000E+00	0.000E+00	0.000E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	2.521E+01	0.000E+00	2.521E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.707E+05	0.000E+00	3.707E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.908E+01	0.000E+00	1.908E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.989E+04	0.000E+00	4.989E+04	NO2-
44	5.494E+05	0.000E+00	5.494E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.647E+04	0.000E+00	7.647E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	9.160E-01	0.000E+00	9.160E-01	PB+4
49	3.139E+04	0.000E+00	3.139E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	2.592E-01	0.000E+00	2.592E-01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	5.869E+03	0.000E+00	5.869E+03	SO4-2
61	8.019E-05	0.000E+00	8.019E-05	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.725E+03	0.000E+00	2.725E+03	TOC
68	2.229E+02	0.000E+00	2.229E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	3.030E+01	0.000E+00	3.030E+01	ZRO2:2H2O
74	3.473E-03	0.000E+00	3.473E-03	C14 (Ci)
75	4.194E-03	0.000E+00	4.194E-03	Sr90 (Ci)
76	1.074E-06	0.000E+00	1.074E-06	Y90 (Ci)
77	3.016E+00	0.000E+00	3.016E+00	Tc99 (Ci)
78	4.789E-01	0.000E+00	4.789E-01	Cs137 (Ci)
79	7.315E-08	0.000E+00	7.315E-08	Ba137 (Ci)
80	3.491E+01	0.000E+00	3.491E+01	U235 (Ci)
81	5.283E+03	0.000E+00	5.283E+03	U238 (Ci)
82	6.416E-02	0.000E+00	6.416E-02	Np237 (Ci)
83	2.458E-06	0.000E+00	2.458E-06	Pu238 (Ci)
84	2.079E-02	0.000E+00	2.079E-02	Pu239 (Ci)
85	1.196E-03	0.000E+00	1.196E-03	Pu240 (Ci)
86	3.228E-05	0.000E+00	3.228E-05	Pu241 (Ci)
87	2.614E-03	0.000E+00	2.614E-03	Am241 (Ci)
88	2.640E-08	0.000E+00	2.640E-08	Cm244 (Ci)
89	5.015E+06	0.000E+00	5.015E+06	Total
Tot	5.015E+06	0.000E+00	5.015E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
61	5.444E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	4.709E+04	0.000E+00	4.709E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	2.728E-06	0.000E+00	2.728E-06	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	6.953E+01	0.000E+00	6.953E+01	BI+3
10	3.010E+01	0.000E+00	3.010E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	3.063E+01	0.000E+00	3.063E+01	CE+3
14	2.238E+03	0.000E+00	2.238E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	6.886E+03	0.000E+00	6.886E+03	CO3-2
18	4.278E+03	0.000E+00	4.278E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.138E+00	0.000E+00	2.138E+00	CS+
21	5.346E-01	0.000E+00	5.346E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	5.683E+03	0.000E+00	5.683E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	9.239E+01	0.000E+00	9.239E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.936E+06	0.000E+00	3.936E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.160E+02	0.000E+00	3.160E+02	K+
32	0.000E+00	0.000E+00	0.000E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.682E+01	0.000E+00	1.682E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.245E+05	0.000E+00	3.245E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.714E+01	0.000E+00	1.714E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.827E+04	0.000E+00	3.827E+04	NO2-
44	4.714E+05	0.000E+00	4.714E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	8.066E+04	0.000E+00	8.066E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	6.374E+00	0.000E+00	6.374E+00	PB+4
49	3.429E+04	0.000E+00	3.429E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	4.149E+00	0.000E+00	4.149E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.372E+03	0.000E+00	7.372E+03	SO4-2
61	2.368E-03	0.000E+00	2.368E-03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.719E+03	0.000E+00	2.719E+03	TOC
68	7.361E+02	0.000E+00	7.361E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	7.608E+01	0.000E+00	7.608E+01	ZRO2:2H2O
74	1.123E-02	0.000E+00	1.123E-02	C14 (Ci)
75	8.111E-03	0.000E+00	8.111E-03	Sr90 (Ci)
76	2.076E-06	0.000E+00	2.076E-06	Y90 (Ci)
77	6.779E+00	0.000E+00	6.779E+00	Tc99 (Ci)
78	5.346E-01	0.000E+00	5.346E-01	Cs137 (Ci)
79	8.166E-08	0.000E+00	8.166E-08	Ba137 (Ci)
80	5.130E+01	0.000E+00	5.130E+01	U235 (Ci)
81	7.768E+03	0.000E+00	7.768E+03	U238 (Ci)
82	1.653E-01	0.000E+00	1.653E-01	Np237 (Ci)
83	6.542E-06	0.000E+00	6.542E-06	Pu238 (Ci)
84	4.824E-02	0.000E+00	4.824E-02	Pu239 (Ci)
85	2.950E-03	0.000E+00	2.950E-03	Pu240 (Ci)
86	7.465E-05	0.000E+00	7.465E-05	Pu241 (Ci)
87	5.225E-03	0.000E+00	5.225E-03	Am241 (Ci)
88	8.040E-08	0.000E+00	8.040E-08	Cm244 (Ci)
89	4.903E+06	0.000E+00	4.903E+06	Total
Tot	4.903E+06	0.000E+00	4.903E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
62	5.464E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	5.169E+04	0.000E+00	5.169E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	2.694E-06	0.000E+00	2.694E-06	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	7.320E+01	0.000E+00	7.320E+01	BI+3
10	3.401E+01	0.000E+00	3.401E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	5.154E+01	0.000E+00	5.154E+01	CE+3
14	2.543E+03	0.000E+00	2.543E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.006E+04	0.000E+00	1.006E+04	CO3-2
18	2.290E+03	0.000E+00	2.290E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	3.763E+00	0.000E+00	3.763E+00	CS+
21	9.408E-01	0.000E+00	9.408E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	6.126E+03	0.000E+00	6.126E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.026E+02	0.000E+00	1.026E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.892E+06	0.000E+00	3.892E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.534E+02	0.000E+00	3.534E+02	K+
32	0.000E+00	0.000E+00	0.000E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.980E+01	0.000E+00	1.980E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.739E+05	0.000E+00	3.739E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.958E+01	0.000E+00	1.958E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.371E+04	0.000E+00	4.371E+04	NO2-
44	5.028E+05	0.000E+00	5.028E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	8.741E+04	0.000E+00	8.741E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	6.609E+00	0.000E+00	6.609E+00	PB+4
49	3.745E+04	0.000E+00	3.745E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	3.531E+00	0.000E+00	3.531E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.800E+03	0.000E+00	7.800E+03	SO4-2
61	2.424E-03	0.000E+00	2.424E-03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.889E+03	0.000E+00	2.889E+03	TOC
68	6.294E+02	0.000E+00	6.294E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	7.358E+01	0.000E+00	7.358E+01	ZRO2:2H2O
74	1.393E-02	0.000E+00	1.393E-02	C14 (Ci)
75	9.340E-03	0.000E+00	9.340E-03	Sr90 (Ci)
76	2.391E-06	0.000E+00	2.391E-06	Y90 (Ci)
77	6.574E+00	0.000E+00	6.574E+00	Tc99 (Ci)
78	9.408E-01	0.000E+00	9.408E-01	Cs137 (Ci)
79	1.437E-07	0.000E+00	1.437E-07	Ba137 (Ci)
80	4.664E+01	0.000E+00	4.664E+01	U235 (Ci)
81	7.055E+03	0.000E+00	7.055E+03	U238 (Ci)
82	2.196E-01	0.000E+00	2.196E-01	Np237 (Ci)
83	6.167E-06	0.000E+00	6.167E-06	Pu238 (Ci)
84	4.467E-02	0.000E+00	4.467E-02	Pu239 (Ci)
85	2.695E-03	0.000E+00	2.695E-03	Pu240 (Ci)
86	6.849E-05	0.000E+00	6.849E-05	Pu241 (Ci)
87	5.574E-03	0.000E+00	5.574E-03	Am241 (Ci)
88	9.770E-08	0.000E+00	9.770E-08	Cm244 (Ci)
89	5.020E+06	0.000E+00	5.020E+06	Total
Tot	5.020E+06	0.000E+00	5.020E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
63	5.476E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.125E+04	0.000E+00	3.125E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	3.577E-08	0.000E+00	3.577E-08	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	6.474E+01	0.000E+00	6.474E+01	BI+3
10	4.194E+01	0.000E+00	4.194E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	9.058E+01	0.000E+00	9.058E+01	CE+3
14	3.204E+03	0.000E+00	3.204E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.336E+04	0.000E+00	1.336E+04	CO3-2
18	2.065E+03	0.000E+00	2.065E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.340E+01	0.000E+00	1.340E+01	CS+
21	3.351E+00	0.000E+00	3.351E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	5.237E+03	0.000E+00	5.237E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.165E+02	0.000E+00	1.165E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.808E+06	0.000E+00	3.808E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	4.448E+02	0.000E+00	4.448E+02	K+
32	0.000E+00	0.000E+00	0.000E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	2.800E+01	0.000E+00	2.800E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.380E+05	0.000E+00	4.380E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.514E+01	0.000E+00	2.514E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	5.751E+04	0.000E+00	5.751E+04	NO2-
44	7.152E+05	0.000E+00	7.152E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	8.184E+04	0.000E+00	8.184E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	2.527E+00	0.000E+00	2.527E+00	PB+4
49	2.515E+04	0.000E+00	2.515E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	2.703E-01	0.000E+00	2.703E-01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	8.439E+03	0.000E+00	8.439E+03	SO4-2
61	3.600E-03	0.000E+00	3.600E-03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	3.329E+03	0.000E+00	3.329E+03	TOC
68	6.372E+02	0.000E+00	6.372E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	5.877E+01	0.000E+00	5.877E+01	ZRO2:2H2O
74	1.965E-02	0.000E+00	1.965E-02	C14 (Ci)
75	2.077E-02	0.000E+00	2.077E-02	Sr90 (Ci)
76	5.318E-06	0.000E+00	5.318E-06	Y90 (Ci)
77	1.075E+01	0.000E+00	1.075E+01	Tc99 (Ci)
78	3.351E+00	0.000E+00	3.351E+00	Cs137 (Ci)
79	5.118E-07	0.000E+00	5.118E-07	Ba137 (Ci)
80	7.055E+01	0.000E+00	7.055E+01	U235 (Ci)
81	1.065E+04	0.000E+00	1.065E+04	U238 (Ci)
82	1.792E-01	0.000E+00	1.792E-01	Np237 (Ci)
83	5.133E-06	0.000E+00	5.133E-06	Pu238 (Ci)
84	3.470E-02	0.000E+00	3.470E-02	Pu239 (Ci)
85	2.023E-03	0.000E+00	2.023E-03	Pu240 (Ci)
86	5.499E-05	0.000E+00	5.499E-05	Pu241 (Ci)
87	1.266E-02	0.000E+00	1.266E-02	Am241 (Ci)
88	2.864E-07	0.000E+00	2.864E-07	Cm244 (Ci)
89	5.193E+06	0.000E+00	5.193E+06	Total
Tot	5.193E+06	0.000E+00	5.193E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
64	5.485E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	8.524E+04	0.000E+00	8.524E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	1.381E-07	0.000E+00	1.381E-07	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	6.051E+01	0.000E+00	6.051E+01	BI+3
10	2.127E+01	0.000E+00	2.127E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	3.701E+01	0.000E+00	3.701E+01	CE+3
14	1.610E+03	0.000E+00	1.610E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	6.460E+03	0.000E+00	6.460E+03	CO3-2
18	1.897E+03	0.000E+00	1.897E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	5.206E+00	0.000E+00	5.206E+00	CS+
21	1.302E+00	0.000E+00	1.302E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	5.452E+03	0.000E+00	5.452E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	7.449E+01	0.000E+00	7.449E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.945E+06	0.000E+00	3.945E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.151E+02	0.000E+00	2.151E+02	K+
32	0.000E+00	0.000E+00	0.000E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.281E+01	0.000E+00	1.281E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	2.984E+05	0.000E+00	2.984E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.301E+01	0.000E+00	1.301E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.739E+04	0.000E+00	2.739E+04	NO2-
44	3.010E+05	0.000E+00	3.010E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.943E+04	0.000E+00	7.943E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	2.070E+00	0.000E+00	2.070E+00	PB+4
49	5.334E+04	0.000E+00	5.334E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.230E+00	0.000E+00	1.230E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	5.129E+03	0.000E+00	5.129E+03	SO4-2
61	1.879E-03	0.000E+00	1.879E-03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.804E+03	0.000E+00	1.804E+03	TOC
68	4.682E+02	0.000E+00	4.682E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	8.094E+01	0.000E+00	8.094E+01	ZRO2:2H2O
74	8.892E-03	0.000E+00	8.892E-03	C14 (Ci)
75	1.029E-02	0.000E+00	1.029E-02	Sr90 (Ci)
76	2.635E-06	0.000E+00	2.635E-06	Y90 (Ci)
77	5.153E+00	0.000E+00	5.153E+00	Tc99 (Ci)
78	1.302E+00	0.000E+00	1.302E+00	Cs137 (Ci)
79	1.988E-07	0.000E+00	1.988E-07	Ba137 (Ci)
80	1.315E+02	0.000E+00	1.315E+02	U235 (Ci)
81	1.994E+04	0.000E+00	1.994E+04	U238 (Ci)
82	9.697E-02	0.000E+00	9.697E-02	Np237 (Ci)
83	4.869E-06	0.000E+00	4.869E-06	Pu238 (Ci)
84	3.517E-02	0.000E+00	3.517E-02	Pu239 (Ci)
85	2.130E-03	0.000E+00	2.130E-03	Pu240 (Ci)
86	5.590E-05	0.000E+00	5.590E-05	Pu241 (Ci)
87	5.983E-03	0.000E+00	5.983E-03	Am241 (Ci)
88	1.163E-07	0.000E+00	1.163E-07	Cm244 (Ci)
89	4.810E+06	0.000E+00	4.810E+06	Total
Tot	4.810E+06	0.000E+00	4.810E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
65	5.501E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	7.152E+04	0.000E+00	7.152E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	1.108E-07	0.000E+00	1.108E-07	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	5.792E+01	0.000E+00	5.792E+01	BI+3
10	2.825E+01	0.000E+00	2.825E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	3.771E+01	0.000E+00	3.771E+01	CE+3
14	2.035E+03	0.000E+00	2.035E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	8.504E+03	0.000E+00	8.504E+03	CO3-2
18	2.162E+03	0.000E+00	2.162E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	4.063E+00	0.000E+00	4.063E+00	CS+
21	1.016E+00	0.000E+00	1.016E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	4.576E+03	0.000E+00	4.576E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	8.970E+01	0.000E+00	8.970E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.887E+06	0.000E+00	3.887E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.796E+02	0.000E+00	2.796E+02	K+
32	0.000E+00	0.000E+00	0.000E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.729E+01	0.000E+00	1.729E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.435E+05	0.000E+00	3.435E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.719E+01	0.000E+00	1.719E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.556E+04	0.000E+00	3.556E+04	NO2-
44	4.294E+05	0.000E+00	4.294E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	8.216E+04	0.000E+00	8.216E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	2.373E+00	0.000E+00	2.373E+00	PB+4
49	4.411E+04	0.000E+00	4.411E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.352E+00	0.000E+00	1.352E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	5.922E+03	0.000E+00	5.922E+03	SO4-2
61	2.843E-03	0.000E+00	2.843E-03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.093E+03	0.000E+00	2.093E+03	TOC
68	4.256E+02	0.000E+00	4.256E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	5.506E+01	0.000E+00	5.506E+01	ZRO2:2H2O
74	7.975E-03	0.000E+00	7.975E-03	C14 (Ci)
75	8.357E-03	0.000E+00	8.357E-03	Sr90 (Ci)
76	2.139E-06	0.000E+00	2.139E-06	Y90 (Ci)
77	4.669E+00	0.000E+00	4.669E+00	Tc99 (Ci)
78	1.016E+00	0.000E+00	1.016E+00	Cs137 (Ci)
79	1.552E-07	0.000E+00	1.552E-07	Ba137 (Ci)
80	8.952E+01	0.000E+00	8.952E+01	U235 (Ci)
81	1.355E+04	0.000E+00	1.355E+04	U238 (Ci)
82	9.476E-02	0.000E+00	9.476E-02	Np237 (Ci)
83	4.138E-06	0.000E+00	4.138E-06	Pu238 (Ci)
84	3.143E-02	0.000E+00	3.143E-02	Pu239 (Ci)
85	1.903E-03	0.000E+00	1.903E-03	Pu240 (Ci)
86	4.941E-05	0.000E+00	4.941E-05	Pu241 (Ci)
87	4.837E-03	0.000E+00	4.837E-03	Am241 (Ci)
88	8.927E-08	0.000E+00	8.927E-08	Cm244 (Ci)
89	4.917E+06	0.000E+00	4.917E+06	Total
Tot	4.917E+06	0.000E+00	4.917E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
66	5.506E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.533E+04	0.000E+00	3.533E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	5.144E-08	0.000E+00	5.144E-08	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	7.291E+01	0.000E+00	7.291E+01	BI+3
10	2.579E+01	0.000E+00	2.579E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	5.149E+01	0.000E+00	5.149E+01	CE+3
14	1.816E+03	0.000E+00	1.816E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	7.757E+03	0.000E+00	7.757E+03	CO3-2
18	1.332E+03	0.000E+00	1.332E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.367E+01	0.000E+00	1.367E+01	CS+
21	3.419E+00	0.000E+00	3.419E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	5.965E+03	0.000E+00	5.965E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	9.739E+01	0.000E+00	9.739E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.978E+06	0.000E+00	3.978E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.248E+02	0.000E+00	2.248E+02	K+
32	0.000E+00	0.000E+00	0.000E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.077E+01	0.000E+00	1.077E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	2.816E+05	0.000E+00	2.816E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.615E+01	0.000E+00	1.615E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.835E+04	0.000E+00	2.835E+04	NO2-
44	3.526E+05	0.000E+00	3.526E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.946E+04	0.000E+00	6.948E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	7.371E+00	0.000E+00	7.371E+00	PB+4
49	3.665E+04	0.000E+00	3.665E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	7.377E-01	0.000E+00	7.377E-01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	6.685E+03	0.000E+00	6.685E+03	SO4-2
61	3.388E-03	0.000E+00	3.388E-03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.202E+03	0.000E+00	2.202E+03	TOC
68	7.443E+02	0.000E+00	7.443E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	6.662E+01	0.000E+00	6.662E+01	ZRO2:2H2O
74	2.063E-02	0.000E+00	2.063E-02	C14 (Ci)
75	2.386E-02	0.000E+00	2.386E-02	Sr90 (Ci)
76	6.107E-06	0.000E+00	6.107E-06	Y90 (Ci)
77	1.084E+01	0.000E+00	1.084E+01	Tc99 (Ci)
78	3.419E+00	0.000E+00	3.419E+00	Cs137 (Ci)
79	5.222E-07	0.000E+00	5.222E-07	Ba137 (Ci)
80	1.126E+02	0.000E+00	1.126E+02	U235 (Ci)
81	1.695E+04	0.000E+00	1.695E+04	U238 (Ci)
82	1.773E-01	0.000E+00	1.773E-01	Np237 (Ci)
83	8.647E-06	0.000E+00	8.647E-06	Pu238 (Ci)
84	5.134E-02	0.000E+00	5.134E-02	Pu239 (Ci)
85	3.065E-03	0.000E+00	3.065E-03	Pu240 (Ci)
86	8.188E-05	0.000E+00	8.188E-05	Pu241 (Ci)
87	1.374E-02	0.000E+00	1.374E-02	Am241 (Ci)
88	3.365E-07	0.000E+00	3.365E-07	Cm244 (Ci)
89	4.808E+06	0.000E+00	4.808E+06	Total
Tot	4.808E+06	0.000E+00	4.808E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
67	5.526E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	4.089E+04	0.000E+00	4.089E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	5.877E-10	0.000E+00	5.877E-10	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	6.207E+01	0.000E+00	6.207E+01	BI+3
10	3.311E+01	0.000E+00	3.311E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	3.836E+01	0.000E+00	3.836E+01	CE+3
14	2.373E+03	0.000E+00	2.373E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.067E+04	0.000E+00	1.067E+04	CO3-2
18	1.522E+03	0.000E+00	1.522E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	9.175E+00	0.000E+00	9.175E+00	CS+
21	2.294E+00	0.000E+00	2.294E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	4.542E+03	0.000E+00	4.542E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.093E+02	0.000E+00	1.093E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.881E+06	0.000E+00	3.881E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.333E+02	0.000E+00	3.333E+02	K+
32	0.000E+00	0.000E+00	0.000E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.879E+01	0.000E+00	1.879E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.582E+05	0.000E+00	3.582E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.059E+01	0.000E+00	2.059E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.014E+04	0.000E+00	4.014E+04	NO2-
44	5.071E+05	0.000E+00	5.071E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	8.047E+04	0.000E+00	8.047E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	6.127E+00	0.000E+00	6.127E+00	PB+4
49	3.456E+04	0.000E+00	3.456E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	7.490E-02	0.000E+00	7.490E-02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.199E+03	0.000E+00	7.199E+03	SO4-2
61	5.153E-03	0.000E+00	5.153E-03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.744E+03	0.000E+00	2.744E+03	TOC
68	6.298E+02	0.000E+00	6.298E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	3.743E+01	0.000E+00	3.743E+01	ZRO2:2H2O
74	1.511E-02	0.000E+00	1.511E-02	C14 (Ci)
75	1.582E-02	0.000E+00	1.582E-02	Sr90 (Ci)
76	4.051E-06	0.000E+00	4.051E-06	Y90 (Ci)
77	9.646E+00	0.000E+00	9.646E+00	Tc99 (Ci)
78	2.294E+00	0.000E+00	2.294E+00	Cs137 (Ci)
79	3.504E-07	0.000E+00	3.504E-07	Ba137 (Ci)
80	6.506E+01	0.000E+00	6.506E+01	U235 (Ci)
81	9.729E+03	0.000E+00	9.729E+03	U238 (Ci)
82	1.825E-01	0.000E+00	1.825E-01	Np237 (Ci)
83	7.573E-06	0.000E+00	7.573E-06	Pu238 (Ci)
84	4.138E-02	0.000E+00	4.138E-02	Pu239 (Ci)
85	2.460E-03	0.000E+00	2.460E-03	Pu240 (Ci)
86	7.030E-05	0.000E+00	7.030E-05	Pu241 (Ci)
87	9.449E-03	0.000E+00	9.449E-03	Am241 (Ci)
88	2.421E-07	0.000E+00	2.421E-07	Cm244 (Ci)
89	4.972E+06	0.000E+00	4.972E+06	Total
Tot	4.972E+06	0.000E+00	4.972E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
68	5.536E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	4.870E+04	0.000E+00	4.870E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	4.601E-08	0.000E+00	4.601E-08	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	6.128E+01	0.000E+00	6.128E+01	BI+3
10	3.940E+01	0.000E+00	3.940E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	2.834E+01	0.000E+00	2.834E+01	CE+3
14	2.753E+03	0.000E+00	2.753E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.194E+04	0.000E+00	1.194E+04	CO3-2
18	1.912E+03	0.000E+00	1.912E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	4.431E+00	0.000E+00	4.431E+00	CS+
21	1.108E+00	0.000E+00	1.108E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	4.397E+03	0.000E+00	4.397E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.223E+02	0.000E+00	1.223E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.813E+06	0.000E+00	3.813E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.705E+02	0.000E+00	3.705E+02	K+
32	0.000E+00	0.000E+00	0.000E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	2.114E+01	0.000E+00	2.114E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.152E+05	0.000E+00	4.152E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.440E+01	0.000E+00	2.440E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.764E+04	0.000E+00	4.764E+04	NO2-
44	6.278E+05	0.000E+00	6.278E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	8.753E+04	0.000E+00	8.753E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	6.293E+00	0.000E+00	6.293E+00	PB+4
49	3.034E+04	0.000E+00	3.034E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	2.504E-01	0.000E+00	2.504E-01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	8.967E+03	0.000E+00	8.967E+03	SO4-2
61	3.554E-03	0.000E+00	3.554E-03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	3.044E+03	0.000E+00	3.044E+03	TOC
68	8.337E+02	0.000E+00	8.337E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	4.337E+01	0.000E+00	4.337E+01	ZRO2:2H2O
74	1.299E-02	0.000E+00	1.299E-02	C14 (Ci)
75	8.713E-03	0.000E+00	8.713E-03	Sr90 (Ci)
76	2.230E-06	0.000E+00	2.230E-06	Y90 (Ci)
77	1.317E+01	0.000E+00	1.317E+01	Tc99 (Ci)
78	1.108E+00	0.000E+00	1.108E+00	Cs137 (Ci)
79	1.692E-07	0.000E+00	1.692E-07	Ba137 (Ci)
80	5.359E+01	0.000E+00	5.359E+01	U235 (Ci)
81	8.031E+03	0.000E+00	8.031E+03	U238 (Ci)
82	3.229E-01	0.000E+00	3.229E-01	Np237 (Ci)
83	7.556E-06	0.000E+00	7.556E-06	Pu238 (Ci)
84	4.534E-02	0.000E+00	4.534E-02	Pu239 (Ci)
85	2.758E-03	0.000E+00	2.758E-03	Pu240 (Ci)
86	7.804E-05	0.000E+00	7.804E-05	Pu241 (Ci)
87	4.543E-03	0.000E+00	4.543E-03	Am241 (Ci)
88	1.078E-07	0.000E+00	1.078E-07	Cm244 (Ci)
89	5.104E+06	0.000E+00	5.104E+06	Total
Tot	5.104E+06	0.000E+00	5.104E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
69	5.556E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	4.616E+04	0.000E+00	4.616E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	3.919E-07	0.000E+00	3.919E-07	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	3.829E+01	0.000E+00	3.829E+01	BI+3
10	4.361E+01	0.000E+00	4.361E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	4.082E-01	0.000E+00	4.082E-01	CE+3
14	3.054E+03	0.000E+00	3.054E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.393E+04	0.000E+00	1.393E+04	CO3-2
18	2.309E+03	0.000E+00	2.309E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	3.744E+00	0.000E+00	3.744E+00	CS+
21	9.359E-01	0.000E+00	9.359E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	2.440E+03	0.000E+00	2.440E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.181E+02	0.000E+00	1.181E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.759E+06	0.000E+00	3.759E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	4.554E+02	0.000E+00	4.554E+02	K+
32	0.000E+00	0.000E+00	0.000E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	2.980E+01	0.000E+00	2.980E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.356E+05	0.000E+00	4.356E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.629E+01	0.000E+00	2.629E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	5.613E+04	0.000E+00	5.613E+04	NO2-
44	7.441E+05	0.000E+00	7.441E+05	NO3-

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45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.525E+04	0.000E+00	7.525E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	6.104E-01	0.000E+00	6.104E-01	PB+4
49	1.882E+04	0.000E+00	1.882E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	6.674E-02	0.000E+00	6.674E-02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	6.894E+03	0.000E+00	6.894E+03	SO4-2
61	4.492E-03	0.000E+00	4.492E-03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.986E+03	0.000E+00	2.986E+03	TOC
68	2.476E+02	0.000E+00	2.476E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.720E+01	0.000E+00	1.720E+01	ZRO2:2H2O
74	6.071E-03	0.000E+00	6.071E-03	C14 (Ci)
75	6.308E-03	0.000E+00	6.308E-03	Sr90 (Ci)
76	1.615E-06	0.000E+00	1.615E-06	Y90 (Ci)
77	3.529E+00	0.000E+00	3.529E+00	Tc99 (Ci)
78	9.359E-01	0.000E+00	9.359E-01	Cs137 (Ci)
79	1.430E-07	0.000E+00	1.430E-07	Ba137 (Ci)
80	1.799E+01	0.000E+00	1.799E+01	U235 (Ci)
81	2.719E+03	0.000E+00	2.719E+03	U238 (Ci)
82	6.603E-02	0.000E+00	6.603E-02	Np237 (Ci)
83	2.286E-06	0.000E+00	2.286E-06	Pu238 (Ci)
84	1.864E-02	0.000E+00	1.864E-02	Pu239 (Ci)
85	1.084E-03	0.000E+00	1.084E-03	Pu240 (Ci)
86	3.270E-05	0.000E+00	3.270E-05	Pu241 (Ci)
87	3.976E-03	0.000E+00	3.978E-03	Am241 (Ci)
88	6.021E-08	0.000E+00	6.021E-08	Cm244 (Ci)
89	5.167E+06	0.000E+00	5.167E+06	Total
Tot	5.167E+06	0.000E+00	5.167E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
70	5.565E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	4.055E+04	0.000E+00	4.055E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	3.406E-10	0.000E+00	3.406E-10	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	9.213E+01	0.000E+00	9.213E+01	BI+3
10	3.591E+01	0.000E+00	3.591E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	3.499E+01	0.000E+00	3.499E+01	CE+3
14	2.574E+03	0.000E+00	2.574E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.231E+04	0.000E+00	1.231E+04	CO3-2
18	1.438E+03	0.000E+00	1.438E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.270E+01	0.000E+00	1.270E+01	CS+
21	3.175E+00	0.000E+00	3.175E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	8.407E+03	0.000E+00	8.407E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.462E+02	0.000E+00	1.462E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.884E+06	0.000E+00	3.884E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.379E+02	0.000E+00	3.379E+02	K+
32	1.076E-01	0.000E+00	1.076E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.426E+01	0.000E+00	1.426E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.078E+05	0.000E+00	4.078E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.304E+01	0.000E+00	2.304E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.895E+04	0.000E+00	3.895E+04	NO2-
44	5.128E+05	0.000E+00	5.128E+05	NO3-

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45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.076E+05	0.000E+00	1.076E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.274E+01	0.000E+00	1.274E+01	PB+4
49	4.516E+04	0.000E+00	4.516E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	6.458E-02	0.000E+00	6.458E-02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.261E+04	0.000E+00	1.261E+04	SO4-2
61	2.061E+00	0.000E+00	2.061E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	3.782E+03	0.000E+00	3.782E+03	TOC
68	1.970E+03	0.000E+00	1.970E+03	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	9.992E+01	0.000E+00	9.992E+01	ZRO2:2H2O
74	3.646E-02	0.000E+00	3.646E-02	C14 (Ci)
75	1.951E-02	0.000E+00	1.951E-02	Sr90 (Ci)
76	4.995E-06	0.000E+00	4.995E-06	Y90 (Ci)
77	3.651E+01	0.000E+00	3.651E+01	Tc99 (Ci)
78	3.175E+00	0.000E+00	3.175E+00	Cs137 (Ci)
79	4.849E-07	0.000E+00	4.849E-07	Ba137 (Ci)
80	7.361E+01	0.000E+00	7.361E+01	U235 (Ci)
81	1.091E+04	0.000E+00	1.091E+04	U238 (Ci)
82	8.859E-01	0.000E+00	8.859E-01	Np237 (Ci)
83	1.634E-05	0.000E+00	1.634E-05	Pu238 (Ci)
84	8.066E-02	0.000E+00	8.066E-02	Pu239 (Ci)
85	4.893E-03	0.000E+00	4.893E-03	Pu240 (Ci)
86	1.425E-04	0.000E+00	1.425E-04	Pu241 (Ci)
87	1.267E-02	0.000E+00	1.267E-02	Am241 (Ci)
88	4.178E-07	0.000E+00	4.178E-07	Cm244 (Ci)
89	5.080E+06	0.000E+00	5.080E+06	Total
Tot	5.080E+06	0.000E+00	5.080E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
71	5.580E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.080E+04	0.000E+00	3.080E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	1.919E-07	0.000E+00	1.919E-07	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	2.304E+01	0.000E+00	2.304E+01	BI+3
10	1.783E+01	0.000E+00	1.783E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.261E+01	0.000E+00	1.261E+01	CE+3
14	1.248E+03	0.000E+00	1.248E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	5.332E+03	0.000E+00	5.332E+03	CO3-2
18	9.427E+02	0.000E+00	9.427E+02	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.185E+00	0.000E+00	2.185E+00	CS+
21	5.462E-01	0.000E+00	5.462E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	1.891E+03	0.000E+00	1.891E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	5.436E+01	0.000E+00	5.436E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.986E+06	0.000E+00	3.986E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.763E+02	0.000E+00	1.763E+02	K+
32	4.457E-02	0.000E+00	4.457E-02	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.019E+01	0.000E+00	1.019E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	2.024E+05	0.000E+00	2.024E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.095E+01	0.000E+00	1.095E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.184E+04	0.000E+00	2.184E+04	NO2-
44	2.936E+05	0.000E+00	2.936E+05	NO3-

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45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	4.543E+04	0.000E+00	4.543E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.835E+00	0.000E+00	1.835E+00	PB+4
49	1.530E+04	0.000E+00	1.530E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	3.071E-02	0.000E+00	3.071E-02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	3.535E+03	0.000E+00	3.535E+03	SO4-2
61	8.526E-01	0.000E+00	8.526E-01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.360E+03	0.000E+00	1.360E+03	TOC
68	2.734E+02	0.000E+00	2.734E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.625E+01	0.000E+00	1.625E+01	ZRO2:2H2O
74	4.695E-03	0.000E+00	4.695E-03	C14 (Ci)
75	3.982E-03	0.000E+00	3.982E-03	Sr90 (Ci)
76	1.019E-06	0.000E+00	1.019E-06	Y90 (Ci)
77	4.126E+00	0.000E+00	4.126E+00	Tc99 (Ci)
78	5.462E-01	0.000E+00	5.462E-01	Cs137 (Ci)
79	8.353E-08	0.000E+00	8.353E-08	Ba137 (Ci)
80	1.213E+01	0.000E+00	1.213E+01	U235 (Ci)
81	1.802E+03	0.000E+00	1.802E+03	U238 (Ci)
82	9.187E-02	0.000E+00	9.187E-02	Np237 (Ci)
83	2.959E-06	0.000E+00	2.959E-06	Pu238 (Ci)
84	1.693E-02	0.000E+00	1.693E-02	Pu239 (Ci)
85	1.021E-03	0.000E+00	1.021E-03	Pu240 (Ci)
86	3.092E-05	0.000E+00	3.092E-05	Pu241 (Ci)
87	2.329E-03	0.000E+00	2.329E-03	Am241 (Ci)
88	5.414E-08	0.000E+00	5.414E-08	Cm244 (Ci)
89	4.609E+06	0.000E+00	4.609E+06	Total
Tot	4.609E+06	0.000E+00	4.609E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
72	5.585E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.773E+04	0.000E+00	2.773E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	4.191E-09	0.000E+00	4.191E-09	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	7.288E+01	0.000E+00	7.288E+01	BI+3
10	3.617E+01	0.000E+00	3.617E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	5.071E+01	0.000E+00	5.071E+01	CE+3
14	2.610E+03	0.000E+00	2.610E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.124E+04	0.000E+00	1.124E+04	CO3-2
18	1.591E+03	0.000E+00	1.591E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.138E+01	0.000E+00	1.138E+01	CS+
21	2.845E+00	0.000E+00	2.845E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	9.116E+03	0.000E+00	9.116E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.317E+02	0.000E+00	1.317E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.883E+06	0.000E+00	3.883E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.943E+02	0.000E+00	3.943E+02	K+
32	4.387E-01	0.000E+00	4.387E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.861E+01	0.000E+00	1.861E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.737E+05	0.000E+00	3.737E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.268E+01	0.000E+00	2.268E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.255E+04	0.000E+00	4.255E+04	NO2-
44	5.723E+05	0.000E+00	5.723E+05	NO3-

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45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.552E+04	0.000E+00	7.552E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	5.378E+00	0.000E+00	5.378E+00	PB+4
49	2.857E+04	0.000E+00	2.857E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	2.912E-01	0.000E+00	2.912E-01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	8.348E+03	0.000E+00	8.348E+03	SO4-2
61	8.379E+00	0.000E+00	8.379E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	3.515E+03	0.000E+00	3.515E+03	TOC
68	9.166E+02	0.000E+00	9.166E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.137E+02	0.000E+00	1.137E+02	ZRO2:2H2O
74	1.931E-02	0.000E+00	1.931E-02	C14 (Ci)
75	1.887E-02	0.000E+00	1.887E-02	Sr90 (Ci)
76	4.832E-06	0.000E+00	4.832E-06	Y90 (Ci)
77	1.295E+01	0.000E+00	1.295E+01	Tc99 (Ci)
78	2.845E+00	0.000E+00	2.845E+00	Cs137 (Ci)
79	4.347E-07	0.000E+00	4.347E-07	Ba137 (Ci)
80	9.635E+01	0.000E+00	9.635E+01	U235 (Ci)
81	1.452E+04	0.000E+00	1.452E+04	U238 (Ci)
82	2.513E-01	0.000E+00	2.513E-01	Np237 (Ci)
83	1.070E-05	0.000E+00	1.070E-05	Pu238 (Ci)
84	5.396E-02	0.000E+00	5.396E-02	Pu239 (Ci)
85	3.259E-03	0.000E+00	3.259E-03	Pu240 (Ci)
86	9.864E-05	0.000E+00	9.864E-05	Pu241 (Ci)
87	1.196E-02	0.000E+00	1.196E-02	Am241 (Ci)
88	2.999E-07	0.000E+00	2.999E-07	Cm244 (Ci)
89	5.041E+06	0.000E+00	5.041E+06	Total
Tot	5.041E+06	0.000E+00	5.041E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
73	5.617E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.018E+04	0.000E+00	3.018E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	1.246E-11	0.000E+00	1.246E-11	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	5.111E+01	0.000E+00	5.111E+01	BI+3
10	2.921E+01	0.000E+00	2.921E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.069E+01	0.000E+00	1.069E+01	CE+3
14	1.918E+03	0.000E+00	1.918E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	8.954E+03	0.000E+00	8.954E+03	CO3-2
18	1.260E+03	0.000E+00	1.260E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.788E+00	0.000E+00	2.788E+00	CS+
21	6.970E-01	0.000E+00	6.970E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	4.784E+03	0.000E+00	4.784E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.253E+02	0.000E+00	1.253E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.916E+06	0.000E+00	3.916E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.427E+02	0.000E+00	2.427E+02	K+
32	1.113E-01	0.000E+00	1.113E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.070E+01	0.000E+00	1.070E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.017E+05	0.000E+00	3.017E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.865E+01	0.000E+00	1.865E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.028E+04	0.000E+00	3.028E+04	NO2-
44	4.438E+05	0.000E+00	4.438E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.912E+04	0.000E+00	6.912E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	7.620E+00	0.000E+00	7.620E+00	PB+4
49	2.113E+04	0.000E+00	2.113E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	3.976E-03	0.000E+00	3.976E-03	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	8.781E+03	0.000E+00	8.781E+03	SO4-2
61	2.129E+00	0.000E+00	2.129E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.659E+03	0.000E+00	2.659E+03	TOC
68	1.403E+03	0.000E+00	1.403E+03	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	7.057E+01	0.000E+00	7.057E+01	ZRO2:2H2O
74	1.436E-02	0.000E+00	1.436E-02	C14 (Ci)
75	6.062E-02	0.000E+00	6.062E-02	Sr90 (Ci)
76	1.552E-05	0.000E+00	1.552E-05	Y90 (Ci)
77	1.304E+01	0.000E+00	1.304E+01	Tc99 (Ci)
78	6.970E-01	0.000E+00	6.970E-01	Cs137 (Ci)
79	1.066E-07	0.000E+00	1.066E-07	Ba137 (Ci)
80	1.734E+01	0.000E+00	1.734E+01	U235 (Ci)
81	2.460E+03	0.000E+00	2.460E+03	U238 (Ci)
82	1.751E-01	0.000E+00	1.751E-01	Np237 (Ci)
83	1.136E-05	0.000E+00	1.136E-05	Pu238 (Ci)
84	5.512E-02	0.000E+00	5.512E-02	Pu239 (Ci)
85	3.421E-03	0.000E+00	3.421E-03	Pu240 (Ci)
86	1.073E-04	0.000E+00	1.073E-04	Pu241 (Ci)
87	2.123E-02	0.000E+00	2.123E-02	Am241 (Ci)
88	4.212E-07	0.000E+00	4.212E-07	Cm244 (Ci)
89	4.842E+06	0.000E+00	4.842E+06	Total
Tot	4.842E+06	0.000E+00	4.842E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
74	5.627E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.263E+04	0.000E+00	3.263E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	9.370E-12	0.000E+00	9.370E-12	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	6.526E+01	0.000E+00	6.526E+01	BI+3
10	3.562E+01	0.000E+00	3.562E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.054E+01	0.000E+00	1.054E+01	CE+3
14	2.421E+03	0.000E+00	2.421E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.041E+04	0.000E+00	1.041E+04	CO3-2
18	1.560E+03	0.000E+00	1.560E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	3.387E+00	0.000E+00	3.387E+00	CS+
21	8.467E-01	0.000E+00	8.467E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	7.597E+03	0.000E+00	7.597E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.279E+02	0.000E+00	1.279E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.861E+06	0.000E+00	3.861E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.677E+02	0.000E+00	3.677E+02	K+
32	4.905E-01	0.000E+00	4.905E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.493E+01	0.000E+00	1.493E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.685E+05	0.000E+00	3.685E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.265E+01	0.000E+00	2.265E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.804E+04	0.000E+00	3.804E+04	NO2-
44	5.531E+05	0.000E+00	5.531E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.987E+04	0.000E+00	7.987E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	8.457E+00	0.000E+00	8.457E+00	PB+4
49	2.652E+04	0.000E+00	2.652E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	4.641E-03	0.000E+00	4.641E-03	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	8.554E+03	0.000E+00	8.554E+03	SO4-2
61	9.364E+00	0.000E+00	9.364E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	3.208E+03	0.000E+00	3.208E+03	TOC
68	9.080E+02	0.000E+00	9.080E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	6.100E+01	0.000E+00	6.100E+01	ZRO2:2H2O
74	9.256E-03	0.000E+00	9.256E-03	C14 (Ci)
75	1.689E-02	0.000E+00	1.689E-02	Sr90 (Ci)
76	4.324E-06	0.000E+00	4.324E-06	Y90 (Ci)
77	8.775E+00	0.000E+00	8.775E+00	Tc99 (Ci)
78	8.467E-01	0.000E+00	8.467E-01	Cs137 (Ci)
79	1.296E-07	0.000E+00	1.296E-07	Ba137 (Ci)
80	1.991E+01	0.000E+00	1.991E+01	U235 (Ci)
81	2.829E+03	0.000E+00	2.829E+03	U238 (Ci)
82	1.735E-01	0.000E+00	1.735E-01	Np237 (Ci)
83	1.286E-05	0.000E+00	1.286E-05	Pu238 (Ci)
84	6.299E-02	0.000E+00	6.299E-02	Pu239 (Ci)
85	3.854E-03	0.000E+00	3.854E-03	Pu240 (Ci)
86	1.202E-04	0.000E+00	1.202E-04	Pu241 (Ci)
87	8.399E-03	0.000E+00	8.399E-03	Am241 (Ci)
88	2.199E-07	0.000E+00	2.199E-07	Cm244 (Ci)
89	4.994E+06	0.000E+00	4.994E+06	Total
Tot	4.994E+06	0.000E+00	4.994E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
75	5.634E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.629E+04	0.000E+00	3.629E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	5.776E-12	0.000E+00	5.776E-12	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	6.334E+01	0.000E+00	6.334E+01	BI+3
10	3.789E+01	0.000E+00	3.789E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.052E+01	0.000E+00	1.052E+01	CE+3
14	2.568E+03	0.000E+00	2.568E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.192E+04	0.000E+00	1.192E+04	CO3-2
18	1.664E+03	0.000E+00	1.664E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.699E+00	0.000E+00	2.699E+00	CS+
21	6.747E-01	0.000E+00	6.747E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	5.833E+03	0.000E+00	5.833E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.325E+02	0.000E+00	1.325E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.852E+06	0.000E+00	3.852E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.442E+02	0.000E+00	3.442E+02	K+
32	1.075E-01	0.000E+00	1.075E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.686E+01	0.000E+00	1.686E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.799E+05	0.000E+00	3.799E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.396E+01	0.000E+00	2.396E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.140E+04	0.000E+00	4.140E+04	NO2-
44	5.806E+05	0.000E+00	5.806E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	8.260E+04	0.000E+00	8.260E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	8.689E+00	0.000E+00	8.689E+00	PB+4
49	2.177E+04	0.000E+00	2.177E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.017E-03	0.000E+00	1.017E-03	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.015E+04	0.000E+00	1.015E+04	SO4-2
61	2.058E+00	0.000E+00	2.058E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	3.366E+03	0.000E+00	3.366E+03	TOC
68	1.367E+03	0.000E+00	1.367E+03	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	8.480E+01	0.000E+00	8.480E+01	ZRO2:2H2O
74	1.342E-02	0.000E+00	1.342E-02	C14 (Ci)
75	6.576E-02	0.000E+00	6.576E-02	Sr90 (Ci)
76	1.683E-05	0.000E+00	1.683E-05	Y90 (Ci)
77	1.157E+01	0.000E+00	1.157E+01	Tc99 (Ci)
78	6.747E-01	0.000E+00	6.747E-01	Cs137 (Ci)
79	1.033E-07	0.000E+00	1.033E-07	Ba137 (Ci)
80	1.371E+01	0.000E+00	1.371E+01	U235 (Ci)
81	1.930E+03	0.000E+00	1.930E+03	U238 (Ci)
82	1.128E-01	0.000E+00	1.128E-01	Np237 (Ci)
83	1.232E-05	0.000E+00	1.232E-05	Pu238 (Ci)
84	5.824E-02	0.000E+00	5.824E-02	Pu239 (Ci)
85	3.587E-03	0.000E+00	3.587E-03	Pu240 (Ci)
86	1.121E-04	0.000E+00	1.121E-04	Pu241 (Ci)
87	2.410E-02	0.000E+00	2.410E-02	Am241 (Ci)
88	4.961E-07	0.000E+00	4.961E-07	Cm244 (Ci)
89	5.031E+06	0.000E+00	5.031E+06	Total
Tot	5.031E+06	0.000E+00	5.031E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
76	5.639E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.086E+04	0.000E+00	2.086E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	6.056E+01	0.000E+00	6.056E+01	BI+3
10	4.972E+01	0.000E+00	4.972E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.670E+01	0.000E+00	1.670E+01	CE+3
14	3.278E+03	0.000E+00	3.278E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.433E+04	0.000E+00	1.433E+04	CO3-2
18	2.267E+03	0.000E+00	2.267E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	4.297E+00	0.000E+00	4.297E+00	CS+
21	1.074E+00	0.000E+00	1.074E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	6.639E+03	0.000E+00	6.639E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.563E+02	0.000E+00	1.563E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.760E+06	0.000E+00	3.760E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	4.791E+02	0.000E+00	4.791E+02	K+
32	4.069E-01	0.000E+00	4.069E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	2.249E+01	0.000E+00	2.249E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.483E+05	0.000E+00	4.483E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.099E+01	0.000E+00	3.099E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	5.433E+04	0.000E+00	5.433E+04	NO2-
44	8.096E+05	0.000E+00	8.096E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.086E+04	0.000E+00	7.086E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	9.712E+00	0.000E+00	9.712E+00	PB+4
49	1.479E+04	0.000E+00	1.479E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.774E-04	0.000E+00	1.774E-04	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.082E+04	0.000E+00	1.082E+04	SO4-2
61	7.737E+00	0.000E+00	7.737E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	4.030E+03	0.000E+00	4.030E+03	TOC
68	7.577E+02	0.000E+00	7.577E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	6.417E+01	0.000E+00	6.417E+01	ZRO2:2H2O
74	1.079E-02	0.000E+00	1.079E-02	C14 (Ci)
75	3.897E-02	0.000E+00	3.897E-02	Sr90 (Ci)
76	9.976E-06	0.000E+00	9.976E-06	Y90 (Ci)
77	8.395E+00	0.000E+00	8.395E+00	Tc99 (Ci)
78	1.074E+00	0.000E+00	1.074E+00	Cs137 (Ci)
79	1.646E-07	0.000E+00	1.646E-07	Ba137 (Ci)
80	1.667E+01	0.000E+00	1.667E+01	U235 (Ci)
81	2.467E+03	0.000E+00	2.467E+03	U238 (Ci)
82	9.564E-02	0.000E+00	9.564E-02	Np237 (Ci)
83	1.005E-05	0.000E+00	1.005E-05	Pu238 (Ci)
84	5.710E-02	0.000E+00	5.710E-02	Pu239 (Ci)
85	3.464E-03	0.000E+00	3.464E-03	Pu240 (Ci)
86	9.611E-05	0.000E+00	9.611E-05	Pu241 (Ci)
87	1.525E-02	0.000E+00	1.525E-02	Am241 (Ci)
88	3.013E-07	0.000E+00	3.013E-07	Cm244 (Ci)
89	5.222E+06	0.000E+00	5.222E+06	Total
Tot	5.222E+06	0.000E+00	5.222E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
77	5.663E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	4.424E+04	0.000E+00	4.424E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	4.017E-12	0.000E+00	4.017E-12	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	2.962E+01	0.000E+00	2.962E+01	BI+3
10	3.281E+01	0.000E+00	3.281E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.128E+01	0.000E+00	1.128E+01	CE+3
14	2.106E+03	0.000E+00	2.106E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	9.464E+03	0.000E+00	9.464E+03	CO3-2
18	1.890E+03	0.000E+00	1.890E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.945E+00	0.000E+00	2.945E+00	CS+
21	7.363E-01	0.000E+00	7.363E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	2.400E+03	0.000E+00	2.400E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	9.525E+01	0.000E+00	9.525E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.842E+06	0.000E+00	3.842E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.922E+02	0.000E+00	2.922E+02	K+
32	9.462E-02	0.000E+00	9.462E-02	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.712E+01	0.000E+00	1.712E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.342E+05	0.000E+00	3.342E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.030E+01	0.000E+00	2.030E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.655E+04	0.000E+00	3.655E+04	NO2-
44	5.492E+05	0.000E+00	5.492E+05	NO3-

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.429E+04	0.000E+00	6.429E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO3:44H2O
48	2.490E+00	0.000E+00	2.490E+00	PB+4
49	1.391E+04	0.000E+00	1.391E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	2.912E-04	0.000E+00	2.912E-04	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	5.626E+03	0.000E+00	5.626E+03	SO4-2
61	1.805E+00	0.000E+00	1.805E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.113E+03	0.000E+00	2.113E+03	TOC
68	2.967E+02	0.000E+00	2.967E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.740E+01	0.000E+00	1.740E+01	ZRO2:2H2O
74	5.403E-03	0.000E+00	5.403E-03	C14 (Ci)
75	1.244E-02	0.000E+00	1.244E-02	Sr90 (Ci)
76	3.184E-06	0.000E+00	3.184E-06	Y90 (Ci)
77	4.008E+00	0.000E+00	4.008E+00	Tc99 (Ci)
78	7.363E-01	0.000E+00	7.363E-01	Cs137 (Ci)
79	1.129E-07	0.000E+00	1.129E-07	Ba137 (Ci)
80	5.004E+00	0.000E+00	5.004E+00	U235 (Ci)
81	7.276E+02	0.000E+00	7.276E+02	U236 (Ci)
82	5.671E-02	0.000E+00	5.671E-02	Np237 (Ci)
83	3.703E-06	0.000E+00	3.703E-06	Pu238 (Ci)
84	2.299E-02	0.000E+00	2.299E-02	Pu239 (Ci)
85	1.383E-03	0.000E+00	1.383E-03	Pu240 (Ci)
86	4.206E-05	0.000E+00	4.206E-05	Pu241 (Ci)
87	5.129E-03	0.000E+00	5.129E-03	Am241 (Ci)
88	9.422E-06	0.000E+00	9.422E-08	Cm244 (Ci)
89	4.908E+06	0.000E+00	4.908E+06	Total
Tot	4.908E+06	0.000E+00	4.908E+06	

Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
78	5.665E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.454E+04	0.000E+00	3.454E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	4.827E+01	0.000E+00	4.827E+01	BI+3
10	4.591E+01	0.000E+00	4.591E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.408E+01	0.000E+00	1.408E+01	CE+3
14	2.934E+03	0.000E+00	2.934E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.324E+04	0.000E+00	1.324E+04	CO3-2
18	2.411E+03	0.000E+00	2.411E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	3.890E+00	0.000E+00	3.890E+00	CS+
21	9.726E-01	0.000E+00	9.726E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	4.486E+03	0.000E+00	4.486E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.399E+02	0.000E+00	1.399E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.759E+06	0.000E+00	3.759E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	4.052E+02	0.000E+00	4.052E+02	K+
32	1.889E-01	0.000E+00	1.889E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	2.213E+01	0.000E+00	2.213E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.330E+05	0.000E+00	4.330E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.851E+01	0.000E+00	2.851E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.985E+04	0.000E+00	4.985E+04	NO2-
44	7.553E+05	0.000E+00	7.553E+05	NO3-

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.466E+04	0.000E+00	7.466E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO3:44H2O
48	5.238E+00	0.000E+00	5.238E+00	PB+4
49	1.549E+04	0.000E+00	1.549E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.478E-04	0.000E+00	1.478E-04	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	8.807E+03	0.000E+00	8.807E+03	SO4-2
61	3.598E+00	0.000E+00	3.598E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	3.189E+03	0.000E+00	3.189E+03	TOC
68	6.376E+02	0.000E+00	6.376E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	4.590E+01	0.000E+00	4.590E+01	ZRO2:2H2O
74	9.061E-03	0.000E+00	9.061E-03	C14 (Ci)
75	3.216E-02	0.000E+00	3.216E-02	Sr90 (Ci)
76	8.234E-06	0.000E+00	8.234E-06	Y90 (Ci)
77	7.134E+00	0.000E+00	7.134E+00	Tc99 (Ci)
78	9.726E-01	0.000E+00	9.726E-01	Cs137 (Ci)
79	1.491E-07	0.000E+00	1.491E-07	Ba137 (Ci)
80	9.506E+00	0.000E+00	9.506E+00	U235 (Ci)
81	1.394E+03	0.000E+00	1.394E+03	U238 (Ci)
82	8.196E-02	0.000E+00	8.196E-02	Np237 (Ci)
83	6.875E-06	0.000E+00	6.875E-06	Pu238 (Ci)
84	3.893E-02	0.000E+00	3.893E-02	Pu239 (Ci)
85	2.356E-03	0.000E+00	2.356E-03	Pu240 (Ci)
86	6.828E-05	0.000E+00	6.828E-05	Pu241 (Ci)
87	1.219E-02	0.000E+00	1.219E-02	Am241 (Ci)
88	2.388E-07	0.000E+00	2.388E-07	Cm244 (Ci)
89	5.158E+06	0.000E+00	5.158E+06	Total
Tot	5.158E+06	0.000E+00	5.158E+06	

Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
79	5.687E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.225E+04	0.000E+00	3.225E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	3.831E+01	0.000E+00	3.831E+01	BI+3
10	3.557E+01	0.000E+00	3.557E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	8.550E+00	0.000E+00	8.550E+00	CE+3
14	2.291E+03	0.000E+00	2.291E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	9.962E+03	0.000E+00	9.962E+03	CO3-2
18	1.826E+03	0.000E+00	1.826E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.891E+00	0.000E+00	2.891E+00	CS+
21	7.227E-01	0.000E+00	7.227E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	5.392E+03	0.000E+00	5.392E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.181E+02	0.000E+00	1.181E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.847E+06	0.000E+00	3.847E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.527E+02	0.000E+00	3.527E+02	K+
32	3.665E-01	0.000E+00	3.665E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.507E+01	0.000E+00	1.507E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.456E+05	0.000E+00	3.456E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.230E+01	0.000E+00	2.230E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.830E+04	0.000E+00	3.830E+04	NO2-
44	5.798E+05	0.000E+00	5.798E+05	NO3-

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.157E+04	0.000E+00	6.157E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO3:44H2O
48	8.459E+00	0.000E+00	8.459E+00	PB+4
49	1.194E+04	0.000E+00	1.194E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	5.045E-05	0.000E+00	5.045E-05	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.706E+03	0.000E+00	7.706E+03	SO4-2
61	6.970E+00	0.000E+00	6.970E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	3.073E+03	0.000E+00	3.073E+03	TOC
68	4.352E+02	0.000E+00	4.352E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	7.678E+01	0.000E+00	7.678E+01	ZRO2:2H2O
74	4.808E-03	0.000E+00	4.808E-03	C14 (Ci)
75	1.669E-02	0.000E+00	1.669E-02	Sr90 (Ci)
76	4.272E-06	0.000E+00	4.272E-06	Y90 (Ci)
77	3.911E+00	0.000E+00	3.911E+00	Tc99 (Ci)
78	7.227E-01	0.000E+00	7.227E-01	Cs137 (Ci)
79	1.108E-07	0.000E+00	1.108E-07	Ba137 (Ci)
80	1.485E+01	0.000E+00	1.485E+01	U235 (Ci)
81	2.219E+03	0.000E+00	2.219E+03	U238 (Ci)
82	5.123E-02	0.000E+00	5.123E-02	Np237 (Ci)
83	7.559E-06	0.000E+00	7.559E-06	Pu238 (Ci)
84	4.638E-02	0.000E+00	4.638E-02	Pu239 (Ci)
85	2.837E-03	0.000E+00	2.837E-03	Pu240 (Ci)
86	7.142E-05	0.000E+00	7.142E-05	Pu241 (Ci)
87	6.155E-03	0.000E+00	6.155E-03	Am241 (Ci)
88	1.102E-07	0.000E+00	1.102E-07	Cm244 (Ci)
89	4.942E+06	0.000E+00	4.942E+06	Total
Tot	4.942E+06	0.000E+00	4.942E+06	

Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
80	5.695E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	5.909E+04	0.000E+00	5.909E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	2.366E-12	0.000E+00	2.366E-12	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	3.116E+01	0.000E+00	3.116E+01	BI+3
10	4.215E+01	0.000E+00	4.215E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	9.079E+00	0.000E+00	9.079E+00	CE+3
14	2.633E+03	0.000E+00	2.633E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.174E+04	0.000E+00	1.174E+04	CO3-2
18	2.473E+03	0.000E+00	2.473E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	3.243E+00	0.000E+00	3.243E+00	CS+
21	8.107E-01	0.000E+00	8.107E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	2.596E+03	0.000E+00	2.596E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.247E+02	0.000E+00	1.247E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.751E+06	0.000E+00	3.751E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.554E+02	0.000E+00	3.554E+02	K+
32	4.401E-02	0.000E+00	4.401E-02	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	2.027E+01	0.000E+00	2.027E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.141E+05	0.000E+00	4.141E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.610E+01	0.000E+00	2.610E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.608E+04	0.000E+00	4.608E+04	NO2-
44	7.074E+05	0.000E+00	7.074E+05	NO3-

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.567E+04	0.000E+00	7.567E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO3:44H2O
48	5.196E+00	0.000E+00	5.196E+00	PB+4
49	1.010E+04	0.000E+00	1.010E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.521E-04	0.000E+00	1.521E-04	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	6.966E+03	0.000E+00	6.966E+03	SO4-2
61	8.491E-01	0.000E+00	8.491E-01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.815E+03	0.000E+00	2.815E+03	TOC
68	2.642E+02	0.000E+00	2.642E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	4.041E+01	0.000E+00	4.041E+01	ZRO2:2H2O
74	3.859E-03	0.000E+00	3.859E-03	C14 (Ci)
75	8.400E-03	0.000E+00	8.400E-03	Sr90 (Ci)
76	2.150E-06	0.000E+00	2.150E-06	Y90 (Ci)
77	3.028E+00	0.000E+00	3.028E+00	Tc99 (Ci)
78	8.107E-01	0.000E+00	8.107E-01	Cs137 (Ci)
79	1.243E-07	0.000E+00	1.243E-07	Ba137 (Ci)
80	6.347E+00	0.000E+00	6.347E+00	U235 (Ci)
81	9.394E+02	0.000E+00	9.394E+02	U238 (Ci)
82	4.848E-02	0.000E+00	4.848E-02	Np237 (Ci)
83	3.912E-06	0.000E+00	3.912E-06	Pu238 (Ci)
84	2.355E-02	0.000E+00	2.355E-02	Pu239 (Ci)
85	1.413E-03	0.000E+00	1.413E-03	Pu240 (Ci)
86	3.774E-05	0.000E+00	3.774E-05	Pu241 (Ci)
87	2.595E-03	0.000E+00	2.595E-03	Am241 (Ci)
88	3.767E-08	0.000E+00	3.767E-08	Cm244 (Ci)
89	5.092E+06	0.000E+00	5.092E+06	Total
Tot	5.092E+06	0.000E+00	5.092E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
81	5.716E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.232E+04	0.000E+00	2.232E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	6.259E+01	0.000E+00	6.259E+01	BI+3
10	4.680E+01	0.000E+00	4.680E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	9.523E+00	0.000E+00	9.523E+00	CE+3
14	3.243E+03	0.000E+00	3.243E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.398E+04	0.000E+00	1.398E+04	CO3-2
18	1.936E+03	0.000E+00	1.936E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	3.593E+00	0.000E+00	3.593E+00	CS+
21	8.982E-01	0.000E+00	8.982E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	6.339E+03	0.000E+00	6.339E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.558E+02	0.000E+00	1.558E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.801E+06	0.000E+00	3.801E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	5.437E+02	0.000E+00	5.437E+02	K+
32	4.075E-01	0.000E+00	4.075E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	2.068E+01	0.000E+00	2.068E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.233E+05	0.000E+00	4.233E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.936E+01	0.000E+00	2.936E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	5.439E+04	0.000E+00	5.439E+04	NO2-
44	7.259E+05	0.000E+00	7.259E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.779E+04	0.000E+00	7.779E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	2.112E+01	0.000E+00	2.112E+01	PB+4
49	1.157E+04	0.000E+00	1.157E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	5.749E-05	0.000E+00	5.749E-05	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.325E+04	0.000E+00	1.325E+04	SO4-2
61	7.751E+00	0.000E+00	7.751E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	4.973E+03	0.000E+00	4.973E+03	TOC
68	5.303E+02	0.000E+00	5.303E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	8.260E+01	0.000E+00	8.260E+01	ZRO2:2H2O
74	5.497E-03	0.000E+00	5.497E-03	C14 (Ci)
75	2.214E-02	0.000E+00	2.214E-02	Sr90 (Ci)
76	5.666E-06	0.000E+00	5.666E-06	Y90 (Ci)
77	4.582E+00	0.000E+00	4.582E+00	Tc99 (Ci)
78	8.982E-01	0.000E+00	8.982E-01	Cs137 (Ci)
79	1.375E-07	0.000E+00	1.375E-07	Ba137 (Ci)
80	4.377E+01	0.000E+00	4.377E+01	U235 (Ci)
81	6.580E+03	0.000E+00	6.580E+03	U238 (Ci)
82	6.325E-02	0.000E+00	6.325E-02	Np237 (Ci)
83	1.209E-05	0.000E+00	1.209E-05	Pu238 (Ci)
84	6.721E-02	0.000E+00	6.721E-02	Pu239 (Ci)
85	4.049E-03	0.000E+00	4.049E-03	Pu240 (Ci)
86	9.562E-05	0.000E+00	9.562E-05	Pu241 (Ci)
87	7.292E-03	0.000E+00	7.292E-03	Am241 (Ci)
88	1.341E-07	0.000E+00	1.341E-07	Cm244 (Ci)
89	5.162E+06	0.000E+00	5.162E+06	Total
Tot	5.162E+06	0.000E+00	5.162E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
82	5.725E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.557E+04	0.000E+00	2.557E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	1.176E-12	0.000E+00	1.176E-12	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	3.971E+01	0.000E+00	3.971E+01	BI+3
10	4.874E+01	0.000E+00	4.874E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	8.472E+00	0.000E+00	8.472E+00	CE+3
14	2.906E+03	0.000E+00	2.906E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.274E+04	0.000E+00	1.274E+04	CO3-2
18	2.489E+03	0.000E+00	2.489E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	3.377E+00	0.000E+00	3.377E+00	CS+
21	8.444E-01	0.000E+00	8.444E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.147E+03	0.000E+00	3.147E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.573E+02	0.000E+00	1.573E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.744E+06	0.000E+00	3.744E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.715E+02	0.000E+00	3.715E+02	K+
32	8.808E-02	0.000E+00	8.808E-02	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	2.110E+01	0.000E+00	2.110E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.236E+05	0.000E+00	4.236E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.061E+01	0.000E+00	3.061E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.992E+04	0.000E+00	4.992E+04	NO2-
44	8.065E+05	0.000E+00	8.065E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	5.814E+04	0.000E+00	5.814E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	4.945E+00	0.000E+00	4.945E+00	PB+4
49	1.146E+04	0.000E+00	1.146E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	7.616E-04	0.000E+00	7.616E-04	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	8.031E+03	0.000E+00	8.031E+03	SO4-2
61	1.696E+00	0.000E+00	1.696E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.827E+03	0.000E+00	2.827E+03	TOC
68	3.956E+02	0.000E+00	3.956E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	2.918E-01	0.000E+00	2.918E-01	ZRO2:2H2O
74	4.305E-03	0.000E+00	4.305E-03	C14 (Ci)
75	7.496E-03	0.000E+00	7.496E-03	Sr90 (Ci)
76	1.919E-06	0.000E+00	1.919E-06	Y90 (Ci)
77	3.728E+00	0.000E+00	3.728E+00	Tc99 (Ci)
78	8.444E-01	0.000E+00	8.444E-01	Cs137 (Ci)
79	1.294E-07	0.000E+00	1.294E-07	Ba137 (Ci)
80	8.580E+00	0.000E+00	8.580E+00	U235 (Ci)
81	1.242E+03	0.000E+00	1.242E+03	U238 (Ci)
82	6.566E-02	0.000E+00	6.566E-02	Np237 (Ci)
83	4.754E-06	0.000E+00	4.754E-06	Pu238 (Ci)
84	2.599E-02	0.000E+00	2.599E-02	Pu239 (Ci)
85	1.571E-03	0.000E+00	1.571E-03	Pu240 (Ci)
86	4.545E-05	0.000E+00	4.545E-05	Pu241 (Ci)
87	2.772E-03	0.000E+00	2.772E-03	Am241 (Ci)
88	6.201E-08	0.000E+00	6.201E-08	Cm244 (Ci)
89	5.152E+06	0.000E+00	5.152E+06	Total
Tot	5.152E+06	0.000E+00	5.152E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
83	5.745E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	5.318E+04	0.000E+00	5.318E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	3.828E+01	0.000E+00	3.828E+01	BI+3
10	4.212E+01	0.000E+00	4.212E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	5.351E+00	0.000E+00	5.351E+00	CE+3
14	2.545E+03	0.000E+00	2.545E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.108E+04	0.000E+00	1.108E+04	CO3-2
18	2.261E+03	0.000E+00	2.261E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.474E+00	0.000E+00	2.474E+00	CS+
21	6.185E-01	0.000E+00	6.185E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	4.952E+03	0.000E+00	4.952E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.553E+02	0.000E+00	1.553E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.802E+06	0.000E+00	3.802E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.716E+02	0.000E+00	3.716E+02	K+
32	3.319E-02	0.000E+00	3.319E-02	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.530E+01	0.000E+00	1.530E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.796E+05	0.000E+00	3.796E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.685E+01	0.000E+00	2.685E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.380E+04	0.000E+00	4.380E+04	NO2-
44	6.390E+05	0.000E+00	6.390E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.117E+04	0.000E+00	7.117E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.592E+01	0.000E+00	1.592E+01	PB+4
49	8.038E+03	0.000E+00	8.038E+03	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	4.244E-06	0.000E+00	4.244E-06	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	9.502E+03	0.000E+00	9.502E+03	SO4-2
61	6.478E-01	0.000E+00	6.478E-01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	3.638E+03	0.000E+00	3.638E+03	TOC
68	5.225E+02	0.000E+00	5.225E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.444E+02	0.000E+00	1.444E+02	ZRO2:2H2O
74	2.540E-03	0.000E+00	2.540E-03	C14 (Ci)
75	1.314E-02	0.000E+00	1.314E-02	Sr90 (Ci)
76	3.364E-06	0.000E+00	3.364E-06	Y90 (Ci)
77	2.247E+00	0.000E+00	2.247E+00	Tc99 (Ci)
78	6.185E-01	0.000E+00	6.185E-01	Cs137 (Ci)
79	9.476E-08	0.000E+00	9.476E-08	Ba137 (Ci)
80	3.184E+01	0.000E+00	3.184E+01	U235 (Ci)
81	4.755E+03	0.000E+00	4.755E+03	U238 (Ci)
82	3.731E-02	0.000E+00	3.731E-02	Np237 (Ci)
83	1.046E-05	0.000E+00	1.046E-05	Pu238 (Ci)
84	6.575E-02	0.000E+00	6.575E-02	Pu239 (Ci)
85	4.005E-03	0.000E+00	4.005E-03	Pu240 (Ci)
86	9.925E-05	0.000E+00	9.925E-05	Pu241 (Ci)
87	3.411E-03	0.000E+00	3.411E-03	Am241 (Ci)
88	2.883E-08	0.000E+00	2.883E-08	Cm244 (Ci)
89	5.031E+06	0.000E+00	5.031E+06	Total
Tot	5.031E+06	0.000E+00	5.031E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
84	5.753E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	6.416E+04	0.000E+00	6.416E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	2.199E-12	0.000E+00	2.199E-12	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	4.316E+01	0.000E+00	4.316E+01	BI+3
10	3.846E+01	0.000E+00	3.846E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	8.058E+00	0.000E+00	8.058E+00	CE+3
14	2.394E+03	0.000E+00	2.394E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.036E+04	0.000E+00	1.036E+04	CO3-2
18	2.037E+03	0.000E+00	2.037E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.715E+00	0.000E+00	2.715E+00	CS+
21	6.787E-01	0.000E+00	6.787E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.816E+03	0.000E+00	3.816E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.254E+02	0.000E+00	1.254E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.796E+06	0.000E+00	3.796E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.226E+02	0.000E+00	3.226E+02	K+
32	1.518E-01	0.000E+00	1.518E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.696E+01	0.000E+00	1.696E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.857E+05	0.000E+00	3.857E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.420E+01	0.000E+00	2.420E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.018E+04	0.000E+00	4.018E+04	NO2-
44	6.221E+05	0.000E+00	6.221E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.504E+04	0.000E+00	7.504E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	5.441E+00	0.000E+00	5.441E+00	PB+4
49	1.670E+04	0.000E+00	1.670E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.423E-03	0.000E+00	1.423E-03	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.292E+03	0.000E+00	7.292E+03	SO4-2
61	2.905E+00	0.000E+00	2.905E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.562E+03	0.000E+00	2.562E+03	TOC
68	4.519E+02	0.000E+00	4.519E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	3.043E+01	0.000E+00	3.043E+01	ZRO2:2H2O
74	4.563E-03	0.000E+00	4.563E-03	C14 (Ci)
75	6.585E-03	0.000E+00	6.585E-03	Sr90 (Ci)
76	1.686E-06	0.000E+00	1.686E-06	Y90 (Ci)
77	3.979E+00	0.000E+00	3.979E+00	Tc99 (Ci)
78	6.787E-01	0.000E+00	6.787E-01	Cs137 (Ci)
79	1.040E-07	0.000E+00	1.040E-07	Ba137 (Ci)
80	1.307E+01	0.000E+00	1.307E+01	U235 (Ci)
81	1.885E+03	0.000E+00	1.885E+03	U238 (Ci)
82	7.685E-02	0.000E+00	7.685E-02	Np237 (Ci)
83	6.748E-06	0.000E+00	6.748E-06	Pu238 (Ci)
84	3.441E-02	0.000E+00	3.441E-02	Pu239 (Ci)
85	2.089E-03	0.000E+00	2.089E-03	Pu240 (Ci)
86	6.398E-05	0.000E+00	6.398E-05	Pu241 (Ci)
87	3.432E-03	0.000E+00	3.432E-03	Am241 (Ci)
88	8.874E-08	0.000E+00	8.874E-08	Cm244 (Ci)
89	5.028E+06	0.000E+00	5.028E+06	Total
Tot	5.028E+06	0.000E+00	5.028E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
85	5.769E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	4.631E+04	0.000E+00	4.631E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	3.197E+01	0.000E+00	3.197E+01	BI+3
10	3.808E+01	0.000E+00	3.808E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	5.435E+00	0.000E+00	5.435E+00	CE+3
14	2.117E+03	0.000E+00	2.117E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	9.015E+03	0.000E+00	9.015E+03	CO3-2
18	1.915E+03	0.000E+00	1.915E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.986E+00	0.000E+00	1.986E+00	CS+
21	4.964E-01	0.000E+00	4.964E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.551E+03	0.000E+00	3.551E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.440E+02	0.000E+00	1.440E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.831E+06	0.000E+00	3.831E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.640E+02	0.000E+00	2.640E+02	K+
32	5.707E-03	0.000E+00	5.707E-03	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.245E+01	0.000E+00	1.245E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.304E+05	0.000E+00	3.304E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.439E+01	0.000E+00	2.439E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.596E+04	0.000E+00	3.596E+04	NO2-
44	5.963E+05	0.000E+00	5.963E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	5.201E+04	0.000E+00	5.201E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	8.659E+00	0.000E+00	8.659E+00	PB+4
49	6.017E+03	0.000E+00	6.017E+03	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	2.268E-06	0.000E+00	2.268E-06	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	8.469E+03	0.000E+00	8.469E+03	SO4-2
61	1.228E-01	0.000E+00	1.228E-01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.344E+03	0.000E+00	2.344E+03	TOC
68	5.028E+02	0.000E+00	5.028E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	9.692E+01	0.000E+00	9.692E+01	ZRO2:2H2O
74	2.106E-03	0.000E+00	2.106E-03	C14 (Ci)
75	8.864E-03	0.000E+00	8.864E-03	Sr90 (Ci)
76	2.269E-06	0.000E+00	2.269E-06	Y90 (Ci)
77	1.808E+00	0.000E+00	1.808E+00	Tc99 (Ci)
78	4.964E-01	0.000E+00	4.964E-01	Cs137 (Ci)
79	7.599E-08	0.000E+00	7.599E-08	Ba137 (Ci)
80	2.910E+01	0.000E+00	2.910E+01	U235 (Ci)
81	4.367E+03	0.000E+00	4.367E+03	U238 (Ci)
82	3.295E-02	0.000E+00	3.295E-02	Np237 (Ci)
83	7.447E-06	0.000E+00	7.447E-06	Pu238 (Ci)
84	4.827E-02	0.000E+00	4.827E-02	Pu239 (Ci)
85	2.969E-03	0.000E+00	2.969E-03	Pu240 (Ci)
86	7.621E-05	0.000E+00	7.621E-05	Pu241 (Ci)
87	2.487E-03	0.000E+00	2.487E-03	Am241 (Ci)
88	1.956E-08	0.000E+00	1.956E-08	Cm244 (Ci)
89	4.925E+06	0.000E+00	4.925E+06	Total
Tot	4.925E+06	0.000E+00	4.925E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
86	5.764E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.307E+04	0.000E+00	2.307E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	4.139E+01	0.000E+00	4.139E+01	BI+3
10	4.866E+01	0.000E+00	4.866E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	8.920E+00	0.000E+00	8.920E+00	CE+3
14	3.276E+03	0.000E+00	3.276E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.562E+04	0.000E+00	1.562E+04	CO3-2
18	2.297E+03	0.000E+00	2.297E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	4.346E+00	0.000E+00	4.346E+00	CS+
21	1.086E+00	0.000E+00	1.086E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	4.014E+03	0.000E+00	4.014E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.505E+02	0.000E+00	1.505E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.761E+06	0.000E+00	3.761E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	5.100E+02	0.000E+00	5.100E+02	K+
32	8.742E-02	0.000E+00	8.742E-02	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	2.680E+01	0.000E+00	2.680E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.346E+05	0.000E+00	4.346E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.019E+01	0.000E+00	3.019E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	5.766E+04	0.000E+00	5.766E+04	NO2-
44	7.966E+05	0.000E+00	7.966E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.819E+04	0.000E+00	6.819E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.119E+01	0.000E+00	1.119E+01	PB+4
49	7.508E+03	0.000E+00	7.508E+03	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.118E-05	0.000E+00	1.118E-05	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	9.199E+03	0.000E+00	9.199E+03	SO4-2
61	1.680E+00	0.000E+00	1.680E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	4.237E+03	0.000E+00	4.237E+03	TOC
68	3.295E+02	0.000E+00	3.295E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	7.629E+01	0.000E+00	7.629E+01	ZRO2:2H2O
74	4.589E-03	0.000E+00	4.589E-03	C14 (Ci)
75	1.424E-02	0.000E+00	1.424E-02	Sr90 (Ci)
76	3.644E-06	0.000E+00	3.644E-06	Y90 (Ci)
77	3.767E+00	0.000E+00	3.767E+00	Tc99 (Ci)
78	1.086E+00	0.000E+00	1.086E+00	Cs137 (Ci)
79	1.666E-07	0.000E+00	1.666E-07	Ba137 (Ci)
80	1.349E+01	0.000E+00	1.349E+01	U235 (Ci)
81	2.022E+03	0.000E+00	2.022E+03	U238 (Ci)
82	5.511E-02	0.000E+00	5.511E-02	Np237 (Ci)
83	6.741E-06	0.000E+00	6.741E-06	Pu238 (Ci)
84	3.907E-02	0.000E+00	3.907E-02	Pu239 (Ci)
85	2.343E-03	0.000E+00	2.343E-03	Pu240 (Ci)
86	5.655E-05	0.000E+00	5.655E-05	Pu241 (Ci)
87	3.686E-03	0.000E+00	3.686E-03	Am241 (Ci)
88	5.115E-08	0.000E+00	5.115E-08	Cm244 (Ci)
89	5.191E+06	0.000E+00	5.191E+06	Total
Tot	5.191E+06	0.000E+00	5.191E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
87	5.794E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	6.549E+04	0.000E+00	6.549E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	2.827E+01	0.000E+00	2.827E+01	BI+3
10	3.656E+01	0.000E+00	3.656E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	5.951E+00	0.000E+00	5.951E+00	CE+3
14	2.097E+03	0.000E+00	2.097E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	9.231E+03	0.000E+00	9.231E+03	CO3-2
18	2.213E+03	0.000E+00	2.213E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.261E+00	0.000E+00	2.261E+00	CS+
21	5.653E-01	0.000E+00	5.653E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	2.654E+03	0.000E+00	2.654E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.295E+02	0.000E+00	1.295E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.809E+06	0.000E+00	3.809E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.606E+02	0.000E+00	2.606E+02	K+
32	6.449E-03	0.000E+00	6.449E-03	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.440E+01	0.000E+00	1.440E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.534E+05	0.000E+00	3.534E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.319E+01	0.000E+00	2.319E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.610E+04	0.000E+00	3.610E+04	NO2-
44	5.966E+05	0.000E+00	5.966E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.279E+04	0.000E+00	6.279E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	4.983E+00	0.000E+00	4.983E+00	PB+4
49	1.191E+04	0.000E+00	1.191E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	8.245E-07	0.000E+00	8.245E-07	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	6.665E+03	0.000E+00	6.665E+03	SO4-2
61	1.381E-01	0.000E+00	1.381E-01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.105E+03	0.000E+00	2.105E+03	TOC
68	3.081E+02	0.000E+00	3.081E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	5.195E+01	0.000E+00	5.195E+01	ZRO2:2H2O
74	2.183E-03	0.000E+00	2.183E-03	C14 (Ci)
75	6.183E-03	0.000E+00	6.183E-03	Sr90 (Ci)
76	1.583E-06	0.000E+00	1.583E-06	Y90 (Ci)
77	1.909E+00	0.000E+00	1.909E+00	Tc99 (Ci)
78	5.653E-01	0.000E+00	5.653E-01	Cs137 (Ci)
79	8.663E-08	0.000E+00	8.663E-08	Ba137 (Ci)
80	1.134E+01	0.000E+00	1.134E+01	U235 (Ci)
81	1.697E+03	0.000E+00	1.697E+03	U238 (Ci)
82	3.144E-02	0.000E+00	3.144E-02	Np237 (Ci)
83	3.647E-06	0.000E+00	3.647E-06	Pu238 (Ci)
84	2.276E-02	0.000E+00	2.276E-02	Pu239 (Ci)
85	1.381E-03	0.000E+00	1.381E-03	Pu240 (Ci)
86	3.531E-05	0.000E+00	3.531E-05	Pu241 (Ci)
87	1.605E-03	0.000E+00	1.605E-03	Am241 (Ci)
88	1.961E-08	0.000E+00	1.961E-08	Cm244 (Ci)
89	4.959E+06	0.000E+00	4.959E+06	Total
Tot	4.959E+06	0.000E+00	4.959E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
88	5.813E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.908E+04	0.000E+00	2.908E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	3.968E+01	0.000E+00	3.968E+01	BI+3
10	4.664E+01	0.000E+00	4.664E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	6.812E+00	0.000E+00	6.812E+00	CE+3
14	2.782E+03	0.000E+00	2.782E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.248E+04	0.000E+00	1.248E+04	CO3-2
18	2.287E+03	0.000E+00	2.287E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.687E+00	0.000E+00	2.687E+00	CS+
21	6.717E-01	0.000E+00	6.717E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.700E+03	0.000E+00	3.700E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.745E+02	0.000E+00	1.745E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.776E+06	0.000E+00	3.776E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.698E+02	0.000E+00	3.698E+02	K+
32	1.776E-02	0.000E+00	1.776E-02	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.954E+01	0.000E+00	1.954E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.030E+05	0.000E+00	4.030E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.980E+01	0.000E+00	2.980E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.793E+04	0.000E+00	4.793E+04	NO2-
44	7.537E+05	0.000E+00	7.537E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	5.882E+04	0.000E+00	5.882E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	8.589E+00	0.000E+00	8.589E+00	PB+4
49	8.865E+03	0.000E+00	8.865E+03	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	2.271E-06	0.000E+00	2.271E-06	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	9.380E+03	0.000E+00	9.380E+03	SO4-2
61	3.610E-01	0.000E+00	3.610E-01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	3.061E+03	0.000E+00	3.061E+03	TOC
68	4.266E+02	0.000E+00	4.266E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	7.260E+01	0.000E+00	7.260E+01	ZRO2:2H2O
74	2.456E-03	0.000E+00	2.456E-03	C14 (Ci)
75	8.598E-03	0.000E+00	8.598E-03	Sr90 (Ci)
76	2.201E-06	0.000E+00	2.201E-06	Y90 (Ci)
77	2.206E+00	0.000E+00	2.206E+00	Tc99 (Ci)
78	6.717E-01	0.000E+00	6.717E-01	Cs137 (Ci)
79	1.028E-07	0.000E+00	1.028E-07	Ba137 (Ci)
80	2.117E+01	0.000E+00	2.117E+01	U235 (Ci)
81	3.183E+03	0.000E+00	3.183E+03	U238 (Ci)
82	3.749E-02	0.000E+00	3.749E-02	Np237 (Ci)
83	5.851E-06	0.000E+00	5.851E-06	Pu238 (Ci)
84	3.452E-02	0.000E+00	3.452E-02	Pu239 (Ci)
85	2.097E-03	0.000E+00	2.097E-03	Pu240 (Ci)
86	5.206E-05	0.000E+00	5.206E-05	Pu241 (Ci)
87	2.183E-03	0.000E+00	2.183E-03	Am241 (Ci)
88	2.704E-08	0.000E+00	2.704E-08	Cm244 (Ci)
89	5.112E+06	0.000E+00	5.112E+06	Total
Tot	5.112E+06	0.000E+00	5.112E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
89	5.821E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.762E+04	0.000E+00	3.762E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	3.505E+01	0.000E+00	3.505E+01	BI+3
10	4.322E+01	0.000E+00	4.322E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	7.311E+00	0.000E+00	7.311E+00	CE+3
14	2.424E+03	0.000E+00	2.424E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.005E+04	0.000E+00	1.005E+04	CO3-2
18	2.215E+03	0.000E+00	2.215E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.542E+00	0.000E+00	2.542E+00	CS+
21	6.355E-01	0.000E+00	6.355E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.083E+03	0.000E+00	3.083E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.544E+02	0.000E+00	1.544E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.785E+06	0.000E+00	3.785E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.734E+02	0.000E+00	2.734E+02	K+
32	1.466E-03	0.000E+00	1.466E-03	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.466E+01	0.000E+00	1.466E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.752E+05	0.000E+00	3.752E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.741E+01	0.000E+00	2.741E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.106E+04	0.000E+00	4.106E+04	NO2-
44	7.107E+05	0.000E+00	7.107E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	5.180E+04	0.000E+00	5.180E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	6.156E+00	0.000E+00	6.156E+00	PB+4
49	8.558E+03	0.000E+00	8.558E+03	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.877E-07	0.000E+00	1.877E-07	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	8.533E+03	0.000E+00	8.533E+03	SO4-2
61	4.303E-02	0.000E+00	4.303E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.317E+03	0.000E+00	2.317E+03	TOC
68	3.962E+02	0.000E+00	3.962E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	5.592E+01	0.000E+00	5.592E+01	ZRO2:2H2O
74	2.344E-03	0.000E+00	2.344E-03	C14 (Ci)
75	6.473E-03	0.000E+00	6.473E-03	Sr90 (Ci)
76	1.657E-06	0.000E+00	1.657E-06	Y90 (Ci)
77	2.165E+00	0.000E+00	2.165E+00	Tc99 (Ci)
78	6.355E-01	0.000E+00	6.355E-01	Cs137 (Ci)
79	9.735E-08	0.000E+00	9.735E-08	Ba137 (Ci)
80	2.121E+01	0.000E+00	2.121E+01	U235 (Ci)
81	3.194E+03	0.000E+00	3.194E+03	U238 (Ci)
82	3.709E-02	0.000E+00	3.709E-02	Np237 (Ci)
83	4.518E-06	0.000E+00	4.518E-06	Pu238 (Ci)
84	2.582E-02	0.000E+00	2.582E-02	Pu239 (Ci)
85	1.573E-03	0.000E+00	1.573E-03	Pu240 (Ci)
86	3.989E-05	0.000E+00	3.989E-05	Pu241 (Ci)
87	1.774E-03	0.000E+00	1.774E-03	Am241 (Ci)
88	2.526E-08	0.000E+00	2.526E-08	Cm244 (Ci)
89	5.039E+06	0.000E+00	5.039E+06	Total
Tot	5.039E+06	0.000E+00	5.039E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
90	5.843E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	4.435E+04	0.000E+00	4.435E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	3.794E+01	0.000E+00	3.794E+01	BI+3
10	3.076E+01	0.000E+00	3.076E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	7.779E+00	0.000E+00	7.779E+00	CE+3
14	1.869E+03	0.000E+00	1.869E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	7.511E+03	0.000E+00	7.511E+03	CO3-2
18	1.482E+03	0.000E+00	1.482E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.764E+00	0.000E+00	1.764E+00	CS+
21	4.410E-01	0.000E+00	4.410E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.679E+03	0.000E+00	3.679E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.181E+02	0.000E+00	1.181E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.892E+06	0.000E+00	3.892E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.409E+02	0.000E+00	2.409E+02	K+
32	2.407E-04	0.000E+00	2.407E-04	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	9.861E+00	0.000E+00	9.861E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.018E+05	0.000E+00	3.018E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.974E+01	0.000E+00	1.974E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.126E+04	0.000E+00	3.126E+04	NO2-
44	4.806E+05	0.000E+00	4.806E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	5.900E+04	0.000E+00	5.900E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.113E+01	0.000E+00	1.113E+01	PB+4
49	1.798E+04	0.000E+00	1.798E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	3.078E-08	0.000E+00	3.078E-08	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	8.174E+03	0.000E+00	8.174E+03	SO4-2
61	1.686E-02	0.000E+00	1.686E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.540E+03	0.000E+00	2.540E+03	TOC
68	3.025E+02	0.000E+00	3.025E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	6.807E+01	0.000E+00	6.807E+01	ZRO2:2H2O
74	1.673E-03	0.000E+00	1.673E-03	C14 (Ci)
75	6.853E-03	0.000E+00	6.853E-03	Sr90 (Ci)
76	1.754E-06	0.000E+00	1.754E-06	Y90 (Ci)
77	1.618E+00	0.000E+00	1.618E+00	Tc99 (Ci)
78	4.410E-01	0.000E+00	4.410E-01	Cs137 (Ci)
79	6.751E-08	0.000E+00	6.751E-08	Ba137 (Ci)
80	2.901E+01	0.000E+00	2.901E+01	U235 (Ci)
81	4.370E+03	0.000E+00	4.370E+03	U238 (Ci)
82	2.990E-02	0.000E+00	2.990E-02	Np237 (Ci)
83	5.820E-06	0.000E+00	5.820E-06	Pu238 (Ci)
84	2.923E-02	0.000E+00	2.923E-02	Pu239 (Ci)
85	1.727E-03	0.000E+00	1.727E-03	Pu240 (Ci)
86	4.072E-05	0.000E+00	4.072E-05	Pu241 (Ci)
87	1.660E-03	0.000E+00	1.660E-03	Am241 (Ci)
88	2.246E-08	0.000E+00	2.246E-08	Cm244 (Ci)
89	4.852E+06	0.000E+00	4.852E+06	Total
Tot	4.852E+06	0.000E+00	4.852E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
91	5.844E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	7.065E+04	0.000E+00	7.065E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	6.040E+01	0.000E+00	6.040E+01	BI+3
10	4.231E+01	0.000E+00	4.231E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.188E+01	0.000E+00	1.188E+01	CE+3
14	2.649E+03	0.000E+00	2.649E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.043E+04	0.000E+00	1.043E+04	CO3-2
18	2.176E+03	0.000E+00	2.176E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.275E+00	0.000E+00	2.275E+00	CS+
21	5.688E-01	0.000E+00	5.688E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	6.191E+03	0.000E+00	6.191E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.695E+02	0.000E+00	1.695E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.785E+06	0.000E+00	3.785E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.451E+02	0.000E+00	3.451E+02	K+
32	4.204E-04	0.000E+00	4.204E-04	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.296E+01	0.000E+00	1.296E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.374E+05	0.000E+00	4.374E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.731E+01	0.000E+00	2.731E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.407E+04	0.000E+00	4.407E+04	NO2-
44	6.554E+05	0.000E+00	6.554E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	9.447E+04	0.000E+00	9.447E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.806E+01	0.000E+00	1.806E+01	PB+4
49	2.881E+04	0.000E+00	2.881E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	5.375E-08	0.000E+00	5.375E-08	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.216E+04	0.000E+00	1.216E+04	SO4-2
61	2.584E-02	0.000E+00	2.584E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	3.936E+03	0.000E+00	3.936E+03	TOC
68	4.424E+02	0.000E+00	4.424E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.144E+02	0.000E+00	1.144E+02	ZRO2:2H2O
74	2.206E-03	0.000E+00	2.206E-03	C14 (Ci)
75	1.077E-02	0.000E+00	1.077E-02	Sr90 (Ci)
76	2.758E-06	0.000E+00	2.758E-06	Y90 (Ci)
77	2.167E+00	0.000E+00	2.167E+00	Tc99 (Ci)
78	5.688E-01	0.000E+00	5.688E-01	Cs137 (Ci)
79	8.705E-08	0.000E+00	8.705E-08	Ba137 (Ci)
80	3.848E+01	0.000E+00	3.848E+01	U235 (Ci)
81	5.793E+03	0.000E+00	5.793E+03	U238 (Ci)
82	4.181E-02	0.000E+00	4.181E-02	Np237 (Ci)
83	9.168E-06	0.000E+00	9.168E-06	Pu238 (Ci)
84	4.688E-02	0.000E+00	4.688E-02	Pu239 (Ci)
85	2.751E-03	0.000E+00	2.751E-03	Pu240 (Ci)
86	6.399E-05	0.000E+00	6.399E-05	Pu241 (Ci)
87	2.450E-03	0.000E+00	2.450E-03	Am241 (Ci)
88	2.916E-08	0.000E+00	2.916E-08	Cm244 (Ci)
89	5.153E+06	0.000E+00	5.153E+06	Total
Tot	5.153E+06	0.000E+00	5.153E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
92	5.868E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	4.881E+04	0.000E+00	4.881E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	4.091E+01	0.000E+00	4.091E+01	BI+3
10	3.377E+01	0.000E+00	3.377E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.074E+01	0.000E+00	1.074E+01	CE+3
14	2.145E+03	0.000E+00	2.145E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	8.206E+03	0.000E+00	8.206E+03	CO3-2
18	1.817E+03	0.000E+00	1.817E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.644E+00	0.000E+00	1.644E+00	CS+
21	4.109E-01	0.000E+00	4.109E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.466E+03	0.000E+00	3.466E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.263E+02	0.000E+00	1.263E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.855E+06	0.000E+00	3.855E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.683E+02	0.000E+00	2.683E+02	K+
32	6.683E-05	0.000E+00	6.683E-05	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.076E+01	0.000E+00	1.076E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.414E+05	0.000E+00	3.414E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.160E+01	0.000E+00	2.160E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.594E+04	0.000E+00	3.594E+04	NO2-
44	5.442E+05	0.000E+00	5.442E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.633E+04	0.000E+00	6.633E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.315E+01	0.000E+00	1.315E+01	PB+4
49	2.186E+04	0.000E+00	2.186E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	8.544E-09	0.000E+00	8.544E-09	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	8.226E+03	0.000E+00	8.226E+03	SO4-2
61	2.049E-02	0.000E+00	2.049E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.721E+03	0.000E+00	2.721E+03	TOC
68	2.559E+02	0.000E+00	2.559E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	4.349E+01	0.000E+00	4.349E+01	ZRO2:2H2O
74	1.547E-03	0.000E+00	1.547E-03	C14 (Ci)
75	7.296E-03	0.000E+00	7.296E-03	Sr90 (Ci)
76	1.868E-06	0.000E+00	1.868E-06	Y90 (Ci)
77	1.515E+00	0.000E+00	1.515E+00	Tc99 (Ci)
78	4.109E-01	0.000E+00	4.109E-01	Cs137 (Ci)
79	6.291E-08	0.000E+00	6.291E-08	Ba137 (Ci)
80	2.809E+01	0.000E+00	2.809E+01	U235 (Ci)
81	4.231E+03	0.000E+00	4.231E+03	U238 (Ci)
82	2.781E-02	0.000E+00	2.781E-02	Np237 (Ci)
83	5.457E-06	0.000E+00	5.457E-06	Pu238 (Ci)
84	2.845E-02	0.000E+00	2.845E-02	Pu239 (Ci)
85	1.638E-03	0.000E+00	1.638E-03	Pu240 (Ci)
86	3.451E-05	0.000E+00	3.451E-05	Pu241 (Ci)
87	1.496E-03	0.000E+00	1.496E-03	Am241 (Ci)
88	2.286E-08	0.000E+00	2.286E-08	Cm244 (Ci)
89	4.940E+06	0.000E+00	4.940E+06	Total
Tot	4.940E+06	0.000E+00	4.940E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
93	5.872E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.175E+04	0.000E+00	3.175E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	4.476E+01	0.000E+00	4.476E+01	BI+3
10	4.159E+01	0.000E+00	4.159E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.479E+01	0.000E+00	1.479E+01	CE+3
14	2.566E+03	0.000E+00	2.566E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.232E+04	0.000E+00	1.232E+04	CO3-2
18	2.195E+03	0.000E+00	2.195E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.376E+00	0.000E+00	2.376E+00	CS+
21	5.941E-01	0.000E+00	5.941E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.639E+03	0.000E+00	3.639E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.472E+02	0.000E+00	1.472E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.810E+06	0.000E+00	3.810E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.186E+02	0.000E+00	3.186E+02	K+
32	3.181E-05	0.000E+00	3.181E-05	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.475E+01	0.000E+00	1.475E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.858E+05	0.000E+00	3.858E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.632E+01	0.000E+00	2.632E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.375E+04	0.000E+00	4.375E+04	NO2-
44	6.817E+05	0.000E+00	6.817E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.337E+04	0.000E+00	6.337E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.196E+01	0.000E+00	1.196E+01	PB+4
49	1.672E+04	0.000E+00	1.672E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	4.067E-09	0.000E+00	4.067E-09	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	8.993E+03	0.000E+00	8.993E+03	SO4-2
61	2.037E-02	0.000E+00	2.037E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.911E+03	0.000E+00	2.911E+03	TOC
68	2.769E+02	0.000E+00	2.769E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	4.060E+01	0.000E+00	4.060E+01	ZRO2:2H2O
74	2.030E-03	0.000E+00	2.030E-03	C14 (Ci)
75	8.743E-03	0.000E+00	8.743E-03	Sr90 (Ci)
76	2.238E-06	0.000E+00	2.238E-06	Y90 (Ci)
77	1.962E+00	0.000E+00	1.962E+00	Tc99 (Ci)
78	5.941E-01	0.000E+00	5.941E-01	Cs137 (Ci)
79	9.100E-08	0.000E+00	9.100E-08	Ba137 (Ci)
80	2.855E+01	0.000E+00	2.855E+01	U235 (Ci)
81	4.304E+03	0.000E+00	4.304E+03	U238 (Ci)
82	3.360E-02	0.000E+00	3.360E-02	Np237 (Ci)
83	5.063E-06	0.000E+00	5.063E-06	Pu238 (Ci)
84	2.774E-02	0.000E+00	2.774E-02	Pu239 (Ci)
85	1.592E-03	0.000E+00	1.592E-03	Pu240 (Ci)
86	3.327E-05	0.000E+00	3.327E-05	Pu241 (Ci)
87	1.430E-03	0.000E+00	1.430E-03	Am241 (Ci)
88	2.073E-08	0.000E+00	2.073E-08	Cm244 (Ci)
89	5.064E+06	0.000E+00	5.064E+06	Total
Tot	5.064E+06	0.000E+00	5.064E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
94	5.898E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.487E+04	0.000E+00	3.487E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	3.183E+01	0.000E+00	3.183E+01	BI+3
10	4.776E+01	0.000E+00	4.776E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.543E+01	0.000E+00	1.543E+01	CE+3
14	2.735E+03	0.000E+00	2.735E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.194E+04	0.000E+00	1.194E+04	CO3-2
18	2.788E+03	0.000E+00	2.788E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.769E+00	0.000E+00	2.769E+00	CS+
21	6.922E-01	0.000E+00	6.922E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	2.366E+03	0.000E+00	2.366E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.766E+02	0.000E+00	1.766E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.737E+06	0.000E+00	3.737E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.130E+02	0.000E+00	3.130E+02	K+
32	2.481E-04	0.000E+00	2.481E-04	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.948E+01	0.000E+00	1.948E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.164E+05	0.000E+00	4.164E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.053E+01	0.000E+00	3.053E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.662E+04	0.000E+00	4.662E+04	NO2-
44	8.102E+05	0.000E+00	8.102E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	5.201E+04	0.000E+00	5.201E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	2.325E+00	0.000E+00	2.325E+00	PB+4
49	1.088E+04	0.000E+00	1.088E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	3.173E-08	0.000E+00	3.173E-08	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.246E+03	0.000E+00	7.246E+03	SO4-2
61	4.468E-02	0.000E+00	4.468E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.249E+03	0.000E+00	2.249E+03	TOC
68	3.158E+02	0.000E+00	3.158E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	2.748E+01	0.000E+00	2.748E+01	ZRO2:2H2O
74	2.429E-03	0.000E+00	2.429E-03	C14 (Ci)
75	5.610E-03	0.000E+00	5.610E-03	Sr90 (Ci)
76	1.436E-06	0.000E+00	1.436E-06	Y90 (Ci)
77	2.270E+00	0.000E+00	2.270E+00	Tc99 (Ci)
78	6.922E-01	0.000E+00	6.922E-01	Cs137 (Ci)
79	1.061E-07	0.000E+00	1.061E-07	Ba137 (Ci)
80	9.540E+00	0.000E+00	9.540E+00	U235 (Ci)
81	1.439E+03	0.000E+00	1.439E+03	U238 (Ci)
82	3.807E-02	0.000E+00	3.807E-02	Np237 (Ci)
83	1.939E-06	0.000E+00	1.939E-06	Pu238 (Ci)
84	1.132E-02	0.000E+00	1.132E-02	Pu239 (Ci)
85	6.548E-04	0.000E+00	6.548E-04	Pu240 (Ci)
86	1.477E-05	0.000E+00	1.477E-05	Pu241 (Ci)
87	1.116E-03	0.000E+00	1.116E-03	Am241 (Ci)
88	1.889E-08	0.000E+00	1.889E-08	Cm244 (Ci)
89	5.138E+06	0.000E+00	5.138E+06	Total
Tot	5.138E+06	0.000E+00	5.138E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
95	5.901E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	7.326E+04	0.000E+00	7.326E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	3.171E+01	0.000E+00	3.171E+01	BI+3
10	4.131E+01	0.000E+00	4.131E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.338E+01	0.000E+00	1.338E+01	CE+3
14	2.446E+03	0.000E+00	2.446E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.103E+04	0.000E+00	1.103E+04	CO3-2
18	2.976E+03	0.000E+00	2.976E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.891E+00	0.000E+00	2.891E+00	CS+
21	7.227E-01	0.000E+00	7.227E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	2.354E+03	0.000E+00	2.354E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.453E+02	0.000E+00	1.453E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.758E+06	0.000E+00	3.758E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.140E+02	0.000E+00	3.140E+02	K+
32	7.707E-05	0.000E+00	7.707E-05	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.824E+01	0.000E+00	1.824E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.050E+05	0.000E+00	4.050E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.621E+01	0.000E+00	2.621E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.247E+04	0.000E+00	4.247E+04	NO2-
44	6.852E+05	0.000E+00	6.852E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.715E+04	0.000E+00	6.715E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	4.772E+00	0.000E+00	4.772E+00	PB+4
49	2.221E+04	0.000E+00	2.221E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	9.853E-09	0.000E+00	9.853E-09	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.166E+03	0.000E+00	7.166E+03	SO4-2
61	2.445E-02	0.000E+00	2.445E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.362E+03	0.000E+00	2.362E+03	TOC
68	2.496E+02	0.000E+00	2.496E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	2.844E+01	0.000E+00	2.844E+01	ZRO2:2H2O
74	2.503E-03	0.000E+00	2.503E-03	C14 (Ci)
75	6.207E-03	0.000E+00	6.207E-03	Sr90 (Ci)
76	1.589E-06	0.000E+00	1.589E-06	Y90 (Ci)
77	2.331E+00	0.000E+00	2.331E+00	Tc99 (Ci)
78	7.227E-01	0.000E+00	7.227E-01	Cs137 (Ci)
79	1.108E-07	0.000E+00	1.108E-07	Ba137 (Ci)
80	1.379E+01	0.000E+00	1.379E+01	U235 (Ci)
81	2.079E+03	0.000E+00	2.079E+03	U238 (Ci)
82	3.713E-02	0.000E+00	3.713E-02	Np237 (Ci)
83	2.486E-06	0.000E+00	2.486E-06	Pu238 (Ci)
84	1.322E-02	0.000E+00	1.322E-02	Pu239 (Ci)
85	7.770E-04	0.000E+00	7.770E-04	Pu240 (Ci)
86	1.793E-05	0.000E+00	1.793E-05	Pu241 (Ci)
87	1.238E-03	0.000E+00	1.238E-03	Am241 (Ci)
88	2.320E-08	0.000E+00	2.320E-08	Cm244 (Ci)
89	5.080E+06	0.000E+00	5.080E+06	Total
Tot	5.080E+06	0.000E+00	5.080E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
96	5.925E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	5.990E+04	0.000E+00	5.990E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	2.837E+01	0.000E+00	2.837E+01	BI+3
10	3.922E+01	0.000E+00	3.922E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.279E+01	0.000E+00	1.279E+01	CE+3
14	2.442E+03	0.000E+00	2.442E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.152E+04	0.000E+00	1.152E+04	CO3-2
18	2.956E+03	0.000E+00	2.956E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.779E+00	0.000E+00	2.779E+00	CS+
21	6.947E-01	0.000E+00	6.947E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	1.882E+03	0.000E+00	1.882E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.443E+02	0.000E+00	1.443E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.787E+06	0.000E+00	3.787E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.304E+02	0.000E+00	3.304E+02	K+
32	1.306E-06	0.000E+00	1.306E-06	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.988E+01	0.000E+00	1.988E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.775E+05	0.000E+00	3.775E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.509E+01	0.000E+00	2.509E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.145E+04	0.000E+00	4.145E+04	NO2-
44	6.580E+05	0.000E+00	6.580E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.115E+04	0.000E+00	6.115E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	3.808E+00	0.000E+00	3.808E+00	PB+4
49	1.458E+04	0.000E+00	1.458E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.669E-10	0.000E+00	1.669E-10	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	6.571E+03	0.000E+00	6.571E+03	SO4-2
61	3.857E-02	0.000E+00	3.857E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.324E+03	0.000E+00	2.324E+03	TOC
68	2.513E+02	0.000E+00	2.513E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.890E+01	0.000E+00	1.890E+01	ZRO2:2H2O
74	2.347E-03	0.000E+00	2.347E-03	C14 (Ci)
75	6.739E-03	0.000E+00	6.739E-03	Sr90 (Ci)
76	1.725E-06	0.000E+00	1.725E-06	Y90 (Ci)
77	2.136E+00	0.000E+00	2.136E+00	Tc99 (Ci)
78	6.947E-01	0.000E+00	6.947E-01	Cs137 (Ci)
79	1.065E-07	0.000E+00	1.065E-07	Ba137 (Ci)
80	1.127E+01	0.000E+00	1.127E+01	U235 (Ci)
81	1.701E+03	0.000E+00	1.701E+03	U238 (Ci)
82	3.322E-02	0.000E+00	3.322E-02	Np237 (Ci)
83	2.038E-06	0.000E+00	2.038E-06	Pu238 (Ci)
84	1.002E-02	0.000E+00	1.002E-02	Pu239 (Ci)
85	5.713E-04	0.000E+00	5.713E-04	Pu240 (Ci)
86	1.173E-05	0.000E+00	1.173E-05	Pu241 (Ci)
87	9.489E-04	0.000E+00	9.489E-04	Am241 (Ci)
88	1.791E-08	0.000E+00	1.791E-08	Cm244 (Ci)
89	5.027E+06	0.000E+00	5.027E+06	Total
Tot	5.027E+06	0.000E+00	5.027E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
97	5.931E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	5.942E+04	0.000E+00	5.942E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	4.035E+01	0.000E+00	4.035E+01	BI+3
10	4.561E+01	0.000E+00	4.561E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.343E+01	0.000E+00	1.343E+01	CE+3
14	2.669E+03	0.000E+00	2.669E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.156E+04	0.000E+00	1.156E+04	CO3-2
18	3.150E+03	0.000E+00	3.150E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.875E+00	0.000E+00	2.875E+00	CS+
21	7.187E-01	0.000E+00	7.187E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.809E+03	0.000E+00	3.809E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.721E+02	0.000E+00	1.721E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.753E+06	0.000E+00	3.753E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.332E+02	0.000E+00	3.332E+02	K+
32	1.747E-04	0.000E+00	1.747E-04	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.752E+01	0.000E+00	1.752E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.203E+05	0.000E+00	4.203E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.924E+01	0.000E+00	2.924E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.509E+04	0.000E+00	4.509E+04	NO2-
44	7.393E+05	0.000E+00	7.393E+05	NO3-
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.774E+04	0.000E+00	6.774E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	8.198E+00	0.000E+00	8.198E+00	PB+4
49	1.549E+04	0.000E+00	1.549E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	2.233E-08	0.000E+00	2.233E-08	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	9.150E+03	0.000E+00	9.150E+03	SO4-2
61	3.388E-02	0.000E+00	3.388E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.886E+03	0.000E+00	2.886E+03	TOC
68	3.961E+02	0.000E+00	3.961E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	7.283E+01	0.000E+00	7.283E+01	ZRO2:2H2O
74	2.662E-03	0.000E+00	2.662E-03	C14 (Ci)
75	7.975E-03	0.000E+00	7.975E-03	Sr90 (Ci)
76	2.041E-06	0.000E+00	2.041E-06	Y90 (Ci)
77	2.489E+00	0.000E+00	2.489E+00	Tc99 (Ci)
78	7.187E-01	0.000E+00	7.187E-01	Cs137 (Ci)
79	1.102E-07	0.000E+00	1.102E-07	Ba137 (Ci)
80	2.329E+01	0.000E+00	2.329E+01	U235 (Ci)
81	3.503E+03	0.000E+00	3.503E+03	U238 (Ci)
82	4.253E-02	0.000E+00	4.253E-02	Np237 (Ci)
83	5.209E-06	0.000E+00	5.209E-06	Pu238 (Ci)
84	2.799E-02	0.000E+00	2.799E-02	Pu239 (Ci)
85	1.669E-03	0.000E+00	1.669E-03	Pu240 (Ci)
86	4.085E-05	0.000E+00	4.085E-05	Pu241 (Ci)
87	1.926E-03	0.000E+00	1.926E-03	Am241 (Ci)
88	2.761E-08	0.000E+00	2.761E-08	Cm244 (Ci)
89	5.133E+06	0.000E+00	5.133E+06	Total
Tot	5.133E+06	0.000E+00	5.133E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
98	5.955E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	5.786E+04	0.000E+00	5.786E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	3.549E+01	0.000E+00	3.549E+01	BI+3
10	4.409E+01	0.000E+00	4.409E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	9.249E+00	0.000E+00	9.249E+00	CE+3
14	2.584E+03	0.000E+00	2.584E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.184E+04	0.000E+00	1.184E+04	CO3-2
18	2.471E+03	0.000E+00	2.471E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.887E+00	0.000E+00	2.887E+00	CS+
21	7.217E-01	0.000E+00	7.217E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.417E+03	0.000E+00	3.417E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.652E+02	0.000E+00	1.652E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.761E+06	0.000E+00	3.761E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.328E+02	0.000E+00	3.328E+02	K+
32	4.248E-04	0.000E+00	4.248E-04	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.916E+01	0.000E+00	1.916E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.116E+05	0.000E+00	4.116E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.810E+01	0.000E+00	2.810E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.458E+04	0.000E+00	4.458E+04	NO2-
44	7.229E+05	0.000E+00	7.229E+05	NO3-
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.676E+04	0.000E+00	6.676E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	5.043E+00	0.000E+00	5.043E+00	PB+4
49	1.466E+04	0.000E+00	1.466E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	5.175E-08	0.000E+00	5.175E-08	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	8.000E+03	0.000E+00	8.000E+03	SO4-2
61	3.293E-02	0.000E+00	3.293E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.581E+03	0.000E+00	2.581E+03	TOC
68	3.692E+02	0.000E+00	3.692E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	6.675E+01	0.000E+00	6.675E+01	ZRO2:2H2O
74	2.396E-03	0.000E+00	2.396E-03	C14 (Ci)
75	7.239E-03	0.000E+00	7.239E-03	Sr90 (Ci)
76	1.853E-06	0.000E+00	1.853E-06	Y90 (Ci)
77	2.211E+00	0.000E+00	2.211E+00	Tc99 (Ci)
78	7.217E-01	0.000E+00	7.217E-01	Cs137 (Ci)
79	1.106E-07	0.000E+00	1.106E-07	Ba137 (Ci)
80	1.721E+01	0.000E+00	1.721E+01	U235 (Ci)
81	2.589E+03	0.000E+00	2.589E+03	U238 (Ci)
82	3.634E-02	0.000E+00	3.634E-02	Np237 (Ci)
83	4.205E-06	0.000E+00	4.205E-06	Pu238 (Ci)
84	2.472E-02	0.000E+00	2.472E-02	Pu239 (Ci)
85	1.497E-03	0.000E+00	1.497E-03	Pu240 (Ci)
86	3.775E-05	0.000E+00	3.775E-05	Pu241 (Ci)
87	1.631E-03	0.000E+00	1.631E-03	Am241 (Ci)
88	2.025E-08	0.000E+00	2.025E-08	Cm244 (Ci)
89	5.110E+06	0.000E+00	5.110E+06	Total
Tot	5.110E+06	0.000E+00	5.110E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
99	5.962E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.155E+04	0.000E+00	3.155E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	5.843E+01	0.000E+00	5.843E+01	BI+3
10	4.598E+01	0.000E+00	4.598E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.529E+01	0.000E+00	1.529E+01	CE+3
14	2.984E+03	0.000E+00	2.984E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.204E+04	0.000E+00	1.204E+04	CO3-2
18	2.283E+03	0.000E+00	2.283E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.720E+00	0.000E+00	2.720E+00	CS+
21	6.801E-01	0.000E+00	6.801E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	4.927E+03	0.000E+00	4.927E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.735E+02	0.000E+00	1.735E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.791E+06	0.000E+00	3.791E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	4.034E+02	0.000E+00	4.034E+02	K+
32	1.130E-05	0.000E+00	1.130E-05	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.644E+01	0.000E+00	1.644E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.259E+05	0.000E+00	4.259E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.952E+01	0.000E+00	2.952E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	5.032E+04	0.000E+00	5.032E+04	NO2-
44	7.282E+05	0.000E+00	7.282E+05	NO3-
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.650E+04	0.000E+00	7.650E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.916E+01	0.000E+00	1.916E+01	PB+4
49	1.629E+04	0.000E+00	1.629E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.445E-09	0.000E+00	1.445E-09	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.235E+04	0.000E+00	1.235E+04	SO4-2
61	2.459E-02	0.000E+00	2.459E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	4.076E+03	0.000E+00	4.076E+03	TOC
68	3.982E+02	0.000E+00	3.982E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	7.171E+01	0.000E+00	7.171E+01	ZRO2:2H2O
74	2.551E-03	0.000E+00	2.551E-03	C14 (Ci)
75	1.174E-02	0.000E+00	1.174E-02	Sr90 (Ci)
76	3.004E-06	0.000E+00	3.004E-06	Y90 (Ci)
77	2.501E+00	0.000E+00	2.501E+00	Tc99 (Ci)
78	6.801E-01	0.000E+00	6.801E-01	Cs137 (Ci)
79	1.042E-07	0.000E+00	1.042E-07	Ba137 (Ci)
80	4.713E+01	0.000E+00	4.713E+01	U235 (Ci)
81	7.112E+03	0.000E+00	7.112E+03	U238 (Ci)
82	4.482E-02	0.000E+00	4.482E-02	Np237 (Ci)
83	8.697E-06	0.000E+00	8.697E-06	Pu238 (Ci)
84	4.383E-02	0.000E+00	4.383E-02	Pu239 (Ci)
85	2.556E-03	0.000E+00	2.556E-03	Pu240 (Ci)
86	5.544E-05	0.000E+00	5.544E-05	Pu241 (Ci)
87	2.367E-03	0.000E+00	2.367E-03	Am241 (Ci)
88	3.493E-08	0.000E+00	3.493E-08	Cm244 (Ci)
89	5.161E+06	0.000E+00	5.161E+06	Total
Tot	5.161E+06	0.000E+00	5.161E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
100	5.981E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	7.715E+04	0.000E+00	7.715E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	3.632E+01	0.000E+00	3.632E+01	BI+3
10	3.530E+01	0.000E+00	3.530E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.653E+01	0.000E+00	1.653E+01	CE+3
14	2.234E+03	0.000E+00	2.234E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	8.860E+03	0.000E+00	8.860E+03	CO3-2
18	3.074E+03	0.000E+00	3.074E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.252E+00	0.000E+00	2.252E+00	CS+
21	5.629E-01	0.000E+00	5.629E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.755E+03	0.000E+00	3.755E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.362E+02	0.000E+00	1.362E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.810E+06	0.000E+00	3.810E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.580E+02	0.000E+00	2.580E+02	K+
32	8.857E-07	0.000E+00	8.857E-07	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.211E+01	0.000E+00	1.211E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.666E+05	0.000E+00	3.666E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.265E+01	0.000E+00	2.265E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.597E+04	0.000E+00	3.597E+04	NO2-
44	5.925E+05	0.000E+00	5.925E+05	NO3-
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.643E+04	0.000E+00	6.643E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	8.979E+00	0.000E+00	8.979E+00	PB+4
49	2.072E+04	0.000E+00	2.072E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.132E-10	0.000E+00	1.132E-10	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.324E+03	0.000E+00	7.324E+03	SO4-2
61	4.113E-02	0.000E+00	4.113E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.520E+03	0.000E+00	2.520E+03	TOC
68	3.731E+02	0.000E+00	3.731E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	7.353E+01	0.000E+00	7.353E+01	ZRO2:2H2O
74	2.132E-03	0.000E+00	2.132E-03	C14 (Ci)
75	9.599E-03	0.000E+00	9.599E-03	Sr90 (Ci)
76	2.457E-06	0.000E+00	2.457E-06	Y90 (Ci)
77	1.993E+00	0.000E+00	1.993E+00	Tc99 (Ci)
78	5.629E-01	0.000E+00	5.629E-01	Cs137 (Ci)
79	8.633E-08	0.000E+00	8.633E-08	Ba137 (Ci)
80	1.971E+01	0.000E+00	1.971E+01	U235 (Ci)
81	2.964E+03	0.000E+00	2.964E+03	U238 (Ci)
82	3.315E-02	0.000E+00	3.315E-02	Np237 (Ci)
83	5.677E-06	0.000E+00	5.677E-06	Pu238 (Ci)
84	3.290E-02	0.000E+00	3.290E-02	Pu239 (Ci)
85	1.928E-03	0.000E+00	1.928E-03	Pu240 (Ci)
86	4.356E-05	0.000E+00	4.356E-05	Pu241 (Ci)
87	1.807E-03	0.000E+00	1.807E-03	Am241 (Ci)
88	1.957E-08	0.000E+00	1.957E-08	Cm244 (Ci)
89	4.995E+06	0.000E+00	4.995E+06	Total
Tot	4.995E+06	0.000E+00	4.995E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
101	5.989E-03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	9.799E+04	0.000E+00	9.799E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	4.023E+01	0.000E+00	4.023E+01	BI+3
10	3.583E+01	0.000E+00	3.583E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.765E+01	0.000E+00	1.765E+01	CE+3
14	2.306E+03	0.000E+00	2.306E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	9.257E+03	0.000E+00	9.257E+03	CO3-2
18	4.464E+03	0.000E+00	4.464E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.591E+00	0.000E+00	2.591E+00	CS+
21	6.476E-01	0.000E+00	6.476E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.843E+03	0.000E+00	3.843E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.338E+02	0.000E+00	1.338E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.790E+06	0.000E+00	3.790E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.726E+02	0.000E+00	2.726E+02	K+
32	2.317E-04	0.000E+00	2.317E-04	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.286E+01	0.000E+00	1.286E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.689E+05	0.000E+00	3.689E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.281E+01	0.000E+00	2.281E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.722E+04	0.000E+00	3.722E+04	NO2-
44	6.041E+05	0.000E+00	6.041E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.479E+04	0.000E+00	7.479E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	9.464E+00	0.000E+00	9.464E+00	PB+4
49	2.168E+04	0.000E+00	2.168E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	2.962E-08	0.000E+00	2.962E-08	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	8.008E+03	0.000E+00	8.008E+03	SO4-2
61	3.315E-02	0.000E+00	3.315E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.622E+03	0.000E+00	2.622E+03	TOC
68	3.636E+02	0.000E+00	3.636E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	6.510E+01	0.000E+00	6.510E+01	ZRO2:2H2O
74	2.428E-03	0.000E+00	2.428E-03	C14 (Ci)
75	1.000E-02	0.000E+00	1.000E-02	Sr90 (Ci)
76	2.561E-06	0.000E+00	2.561E-06	Y90 (Ci)
77	2.234E+00	0.000E+00	2.234E+00	Tc99 (Ci)
78	6.476E-01	0.000E+00	6.476E-01	Cs137 (Ci)
79	9.930E-08	0.000E+00	9.930E-08	Ba137 (Ci)
80	2.380E+01	0.000E+00	2.380E+01	U235 (Ci)
81	3.589E+03	0.000E+00	3.589E+03	U238 (Ci)
82	3.670E-02	0.000E+00	3.670E-02	Np237 (Ci)
83	5.643E-06	0.000E+00	5.643E-06	Pu238 (Ci)
84	3.209E-02	0.000E+00	3.209E-02	Pu239 (Ci)
85	1.878E-03	0.000E+00	1.878E-03	Pu240 (Ci)
86	4.191E-05	0.000E+00	4.191E-05	Pu241 (Ci)
87	1.868E-03	0.000E+00	1.868E-03	Am241 (Ci)
88	2.253E-08	0.000E+00	2.253E-08	Cm244 (Ci)
89	5.043E+06	0.000E+00	5.043E+06	Total
Tot	5.043E+06	0.000E+00	5.043E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
102	6.005E-03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	4.684E+04	0.000E+00	4.684E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	3.430E+01	0.000E+00	3.430E+01	BI+3
10	3.388E+01	0.000E+00	3.388E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.728E+01	0.000E+00	1.728E+01	CE+3
14	2.098E+03	0.000E+00	2.098E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	8.528E+03	0.000E+00	8.528E+03	CO3-2
18	2.416E+03	0.000E+00	2.416E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.479E+00	0.000E+00	2.479E+00	CS+
21	6.197E-01	0.000E+00	6.197E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.829E+03	0.000E+00	3.829E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.262E+02	0.000E+00	1.262E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.853E+06	0.000E+00	3.853E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.410E+02	0.000E+00	2.410E+02	K+
32	8.976E-07	0.000E+00	8.976E-07	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.191E+01	0.000E+00	1.191E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.281E+05	0.000E+00	3.281E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.155E+01	0.000E+00	2.155E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.355E+04	0.000E+00	3.355E+04	NO2-
44	5.675E+05	0.000E+00	5.675E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	5.385E+04	0.000E+00	5.385E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	7.123E+00	0.000E+00	7.123E+00	PB+4
49	1.527E+04	0.000E+00	1.527E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.148E-10	0.000E+00	1.148E-10	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	6.947E+03	0.000E+00	6.947E+03	SO4-2
61	2.925E-02	0.000E+00	2.925E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.339E+03	0.000E+00	2.339E+03	TOC
68	3.547E+02	0.000E+00	3.547E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	8.227E+01	0.000E+00	8.227E+01	ZRO2:2H2O
74	2.314E-03	0.000E+00	2.314E-03	C14 (Ci)
75	8.689E-03	0.000E+00	8.689E-03	Sr90 (Ci)
76	2.224E-06	0.000E+00	2.224E-06	Y90 (Ci)
77	2.107E+00	0.000E+00	2.107E+00	Tc99 (Ci)
78	6.197E-01	0.000E+00	6.197E-01	Cs137 (Ci)
79	9.504E-08	0.000E+00	9.504E-08	Ba137 (Ci)
80	2.067E+01	0.000E+00	2.067E+01	U235 (Ci)
81	3.110E+03	0.000E+00	3.110E+03	U238 (Ci)
82	3.372E-02	0.000E+00	3.372E-02	Np237 (Ci)
83	5.106E-06	0.000E+00	5.106E-06	Pu238 (Ci)
84	2.824E-02	0.000E+00	2.824E-02	Pu239 (Ci)
85	1.667E-03	0.000E+00	1.667E-03	Pu240 (Ci)
86	3.994E-05	0.000E+00	3.994E-05	Pu241 (Ci)
87	1.735E-03	0.000E+00	1.735E-03	Am241 (Ci)
88	2.035E-08	0.000E+00	2.035E-08	Cm244 (Ci)
89	4.924E+06	0.000E+00	4.924E+06	Total
Tot	4.924E+06	0.000E+00	4.924E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
103	6.013E-03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	8.673E+04	0.000E+00	8.673E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	2.416E+01	0.000E+00	2.416E+01	BI+3
10	3.103E+01	0.000E+00	3.103E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.712E+01	0.000E+00	1.712E+01	CE+3
14	1.743E+03	0.000E+00	1.743E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	7.075E+03	0.000E+00	7.075E+03	CO3-2
18	4.004E+03	0.000E+00	4.004E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.277E+00	0.000E+00	2.277E+00	CS+
21	5.693E-01	0.000E+00	5.693E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	2.240E+03	0.000E+00	2.240E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.045E+02	0.000E+00	1.045E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.827E+06	0.000E+00	3.827E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.818E+02	0.000E+00	1.818E+02	K+
32	7.169E-07	0.000E+00	7.169E-07	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.000E+01	0.000E+00	1.000E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.205E+05	0.000E+00	3.205E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.923E+01	0.000E+00	1.923E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.724E+04	0.000E+00	2.724E+04	NO2-
44	5.409E+05	0.000E+00	5.409E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	5.185E+04	0.000E+00	5.185E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	3.637E+00	0.000E+00	3.637E+00	PB+4
49	1.529E+04	0.000E+00	1.529E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	9.165E-11	0.000E+00	9.165E-11	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	5.693E+03	0.000E+00	5.693E+03	SO4-2
61	2.771E-02	0.000E+00	2.771E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.567E+03	0.000E+00	1.567E+03	TOC
68	2.795E+02	0.000E+00	2.795E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	3.865E+01	0.000E+00	3.865E+01	ZRO2:2H2O
74	2.131E-03	0.000E+00	2.131E-03	C14 (Ci)
75	8.543E-03	0.000E+00	8.543E-03	Sr90 (Ci)
76	2.187E-06	0.000E+00	2.187E-06	Y90 (Ci)
77	1.937E+00	0.000E+00	1.937E+00	Tc99 (Ci)
78	5.693E-01	0.000E+00	5.693E-01	Cs137 (Ci)
79	8.734E-08	0.000E+00	8.734E-08	Ba137 (Ci)
80	1.844E+01	0.000E+00	1.844E+01	U235 (Ci)
81	2.736E+03	0.000E+00	2.736E+03	U238 (Ci)
82	3.012E-02	0.000E+00	3.012E-02	Np237 (Ci)
83	3.317E-06	0.000E+00	3.317E-06	Pu238 (Ci)
84	1.884E-02	0.000E+00	1.884E-02	Pu239 (Ci)
85	1.073E-03	0.000E+00	1.073E-03	Pu240 (Ci)
86	2.311E-05	0.000E+00	2.311E-05	Pu241 (Ci)
87	1.724E-03	0.000E+00	1.724E-03	Am241 (Ci)
88	1.808E-08	0.000E+00	1.808E-08	Cm244 (Ci)
89	4.889E+06	0.000E+00	4.889E+06	Total
Tot	4.889E+06	0.000E+00	4.889E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
104	6.033E-03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.264E+04	0.000E+00	2.264E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	5.308E+01	0.000E+00	5.308E+01	BI+3
10	4.352E+01	0.000E+00	4.352E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.755E+01	0.000E+00	1.755E+01	CE+3
14	2.535E+03	0.000E+00	2.535E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	9.441E+03	0.000E+00	9.441E+03	CO3-2
18	2.748E+03	0.000E+00	2.748E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.617E+00	0.000E+00	2.617E+00	CS+
21	6.543E-01	0.000E+00	6.543E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	4.935E+03	0.000E+00	4.935E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.560E+02	0.000E+00	1.560E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.805E+06	0.000E+00	3.805E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.001E+02	0.000E+00	3.001E+02	K+
32	3.143E-06	0.000E+00	3.143E-06	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI-
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.029E+01	0.000E+00	1.029E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.857E+05	0.000E+00	3.857E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.717E-01	0.000E+00	2.717E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.937E+04	0.000E+00	3.937E+04	NO2-
44	7.115E+05	0.000E+00	7.115E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	5.956E+04	0.000E+00	5.956E-04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.760E+01	0.000E+00	1.760E+01	PB+4
49	1.421E+04	0.000E+00	1.421E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	4.018E-10	0.000E+00	4.018E-10	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.115E+04	0.000E+00	1.115E+04	SO4-2
61	3.713E-02	0.000E+00	3.713E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	3.573E+03	0.000E+00	3.573E+03	TOC
68	4.919E+02	0.000E+00	4.919E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	9.074E+01	0.000E+00	9.074E+01	ZRO2:2H2O
74	2.626E-03	0.000E+00	2.626E-03	C14 (Ci)
75	1.669E-02	0.000E+00	1.669E-02	Sr90 (Ci)
76	4.271E-06	0.000E+00	4.271E-06	Y90 (Ci)
77	2.541E+00	0.000E+00	2.541E+00	Tc99 (Ci)
78	6.543E-01	0.000E+00	6.543E-01	Cs137 (Ci)
79	1.003E-07	0.000E+00	1.003E-07	Ba137 (Ci)
80	5.135E+01	0.000E+00	5.135E+01	U235 (Ci)
81	7.660E+03	0.000E+00	7.660E+03	U238 (Ci)
82	4.541E-02	0.000E+00	4.541E-02	Np237 (Ci)
83	1.020E-05	0.000E+00	1.020E-05	Pu238 (Ci)
84	5.292E-02	0.000E+00	5.292E-02	Pu239 (Ci)
85	3.042E-03	0.000E+00	3.042E-03	Pu240 (Ci)
86	6.458E-05	0.000E+00	6.458E-05	Pu241 (Ci)
87	3.528E-03	0.000E+00	3.528E-03	Am241 (Ci)
88	3.112E-08	0.000E+00	3.112E-08	Cm244 (Ci)
89	5.073E+06	0.000E+00	5.073E+06	Total
Tot	5.073E+06	0.000E+00	5.073E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
105	6.037E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.205E+04	0.000E+00	3.205E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	3.759E+01	0.000E+00	3.759E+01	BI+3
10	3.529E+01	0.000E+00	3.529E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.700E+01	0.000E+00	1.700E+01	CE+3
14	2.023E+03	0.000E+00	2.023E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	7.794E+03	0.000E+00	7.794E+03	CO3-2
18	2.932E+03	0.000E+00	2.932E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.262E+00	0.000E+00	2.262E+00	CS+
21	5.705E-01	0.000E+00	5.705E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.376E+03	0.000E+00	3.376E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.257E+02	0.000E+00	1.257E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.846E+06	0.000E+00	3.846E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.214E+02	0.000E+00	2.214E+02	K+
32	1.152E-08	0.000E+00	1.152E-08	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	9.366E+00	0.000E+00	9.366E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.299E+05	0.000E+00	3.299E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.184E+01	0.000E+00	2.184E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.099E+04	0.000E+00	3.099E+04	NO2-
44	6.086E+05	0.000E+00	6.086E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	4.867E+04	0.000E+00	4.867E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	9.736E+00	0.000E+00	9.736E+00	PB+4
49	1.364E+04	0.000E+00	1.364E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.472E-10	0.000E+00	1.472E-10	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.213E+03	0.000E+00	7.213E+03	SO4-2
61	3.994E-02	0.000E+00	3.994E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.290E+03	0.000E+00	2.290E+03	TOC
68	3.931E+02	0.000E+00	3.931E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	5.116E+01	0.000E+00	5.116E+01	ZRO2:2H2O
74	2.246E-03	0.000E+00	2.246E-03	C14 (Ci)
75	1.401E-02	0.000E+00	1.401E-02	Sr90 (Ci)
76	3.587E-06	0.000E+00	3.587E-06	Y90 (Ci)
77	2.117E+00	0.000E+00	2.117E+00	Tc99 (Ci)
78	5.705E-01	0.000E+00	5.705E-01	Cs137 (Ci)
79	8.752E-08	0.000E+00	8.752E-08	Ba137 (Ci)
80	3.098E+01	0.000E+00	3.098E+01	U235 (Ci)
81	4.588E+03	0.000E+00	4.568E+03	U238 (Ci)
82	3.536E-02	0.000E+00	3.536E-02	Np237 (Ci)
83	6.732E-06	0.000E+00	6.732E-06	Pu238 (Ci)
84	3.924E-02	0.000E+00	3.924E-02	Pu239 (Ci)
85	2.234E-03	0.000E+00	2.234E-03	Pu240 (Ci)
86	4.540E-05	0.000E+00	4.540E-05	Pu241 (Ci)
87	2.904E-03	0.000E+00	2.904E-03	Am241 (Ci)
88	2.285E-08	0.000E+00	2.285E-08	Cm244 (Ci)
89	4.936E+06	0.000E+00	4.936E+06	Total
Tot	4.936E+06	0.000E+00	4.936E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
106	6.057E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	4.308E+04	0.000E+00	4.308E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	3.402E+01	0.000E+00	3.402E+01	BI+3
10	3.578E+01	0.000E+00	3.578E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.593E+01	0.000E+00	1.593E+01	CE+3
14	2.173E+03	0.000E+00	2.173E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	8.245E+03	0.000E+00	8.245E+03	CO3-2
18	3.850E+03	0.000E+00	3.850E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.689E+00	0.000E+00	1.689E+00	CS+
21	4.222E-01	0.000E+00	4.222E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	2.498E+03	0.000E+00	2.498E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.374E+02	0.000E+00	1.374E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.830E+06	0.000E+00	3.830E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.354E+02	0.000E+00	2.354E+02	K+
32	6.396E-08	0.000E+00	6.396E-08	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.064E+01	0.000E+00	1.064E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.320E+05	0.000E+00	3.320E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.276E+01	0.000E+00	2.276E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.298E+04	0.000E+00	3.298E+04	NO2-
44	6.132E+05	0.000E+00	6.132E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	4.793E+04	0.000E+00	4.793E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	9.330E+00	0.000E+00	9.330E+00	PB+4
49	1.111E+04	0.000E+00	1.111E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	8.177E-12	0.000E+00	8.177E-12	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.145E+03	0.000E+00	7.145E+03	SO4-2
61	5.994E-02	0.000E+00	5.994E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.186E+03	0.000E+00	2.186E+03	TOC
68	3.647E+02	0.000E+00	3.647E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	2.737E+01	0.000E+00	2.737E+01	ZRO2:2H2O
74	1.645E-03	0.000E+00	1.645E-03	C14 (Ci)
75	1.085E-02	0.000E+00	1.085E-02	Sr90 (Ci)
76	2.776E-06	0.000E+00	2.776E-06	Y90 (Ci)
77	1.547E+00	0.000E+00	1.547E+00	Tc99 (Ci)
78	4.222E-01	0.000E+00	4.222E-01	Cs137 (Ci)
79	6.471E-08	0.000E+00	6.471E-08	Ba137 (Ci)
80	3.061E+01	0.000E+00	3.061E+01	U235 (Ci)
81	4.575E+03	0.000E+00	4.575E+03	U238 (Ci)
82	2.806E-02	0.000E+00	2.806E-02	Np237 (Ci)
83	5.499E-06	0.000E+00	5.499E-06	Pu238 (Ci)
84	2.950E-02	0.000E+00	2.950E-02	Pu239 (Ci)
85	1.653E-03	0.000E+00	1.653E-03	Pu240 (Ci)
86	3.122E-05	0.000E+00	3.122E-05	Pu241 (Ci)
87	1.781E-03	0.000E+00	1.781E-03	Am241 (Ci)
88	1.518E-08	0.000E+00	1.518E-08	Cm244 (Ci)
89	4.936E+06	0.000E+00	4.936E+06	Total
Tot	4.936E+06	0.000E+00	4.936E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
137	6.064E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	8.267E+04	0.000E+00	8.267E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	3.322E+01	0.000E+00	3.322E+01	BI+3
10	3.691E+01	0.000E+00	3.691E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.717E+01	0.000E+00	1.717E+01	CE+3
14	2.309E+03	0.000E+00	2.309E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	8.840E+03	0.000E+00	8.840E+03	CO3-2
18	6.153E+03	0.000E+00	6.153E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.810E+00	0.000E+00	1.810E+00	CS+
21	4.524E-01	0.000E+00	4.524E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	2.272E+03	0.000E+00	2.272E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.435E+02	0.000E+00	1.435E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.776E+06	0.000E+00	3.776E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.561E+02	0.000E+00	2.561E+02	K+
32	2.431E-08	0.000E+00	2.431E-08	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.187E+01	0.000E+00	1.187E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.747E+05	0.000E+00	3.747E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.352E+01	0.000E+00	2.352E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.504E+04	0.000E+00	3.504E+04	NO2-
44	6.438E+05	0.000E+00	6.438E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.180E+04	0.000E+00	6.180E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	9.667E+00	0.000E+00	9.667E+00	PB+4
49	1.401E+04	0.000E+00	1.401E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	3.109E-12	0.000E+00	3.109E-12	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	6.985E+03	0.000E+00	6.985E+03	SO4-2
61	6.655E-02	0.000E+00	6.655E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.309E+03	0.000E+00	2.309E+03	TOC
68	3.763E+02	0.000E+00	3.763E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.996E+01	0.000E+00	1.996E+01	ZRO2:2H2O
74	1.781E-03	0.000E+00	1.781E-03	C14 (Ci)
75	1.387E-02	0.000E+00	1.387E-02	Sr90 (Ci)
76	3.551E-06	0.000E+00	3.551E-06	Y90 (Ci)
77	1.669E+00	0.000E+00	1.669E+00	Tc99 (Ci)
78	4.524E-01	0.000E+00	4.524E-01	Cs137 (Ci)
79	6.937E-08	0.000E+00	6.937E-08	Ba137 (Ci)
80	2.840E+01	0.000E+00	2.840E+01	U235 (Ci)
81	4.233E+03	0.000E+00	4.233E+03	U238 (Ci)
82	2.932E-02	0.000E+00	2.932E-02	Np237 (Ci)
83	5.758E-06	0.000E+00	5.758E-06	Pu238 (Ci)
84	3.200E-02	0.000E+00	3.200E-02	Pu239 (Ci)
85	1.786E-03	0.000E+00	1.786E-03	Pu240 (Ci)
86	3.225E-05	0.000E+00	3.225E-05	Pu241 (Ci)
87	2.006E-03	0.000E+00	2.006E-03	Am241 (Ci)
88	1.610E-08	0.000E+00	1.610E-08	Cm244 (Ci)
89	5.017E+06	0.000E+00	5.017E+06	Total
Tot	5.017E+06	0.000E+00	5.017E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
138	6.083E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	4.300E+04	0.000E+00	4.300E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	5.834E+01	0.000E+00	5.834E+01	BI+3
10	4.169E+01	0.000E+00	4.169E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.457E+01	0.000E+00	1.457E+01	CE+3
14	2.218E+03	0.000E+00	2.218E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	7.924E+03	0.000E+00	7.924E+03	CO3-2
18	4.480E+03	0.000E+00	4.480E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.332E+00	0.000E+00	1.332E+00	CS+
21	3.330E-01	0.000E+00	3.330E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	4.272E+03	0.000E+00	4.272E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.449E+02	0.000E+00	1.449E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.813E+06	0.000E+00	3.813E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.385E+02	0.000E+00	2.385E+02	K+
32	1.667E-08	0.000E+00	1.667E-08	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	8.069E+00	0.000E+00	8.069E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.600E+05	0.000E+00	3.600E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.584E+01	0.000E+00	2.584E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.309E+04	0.000E+00	3.309E+04	NO2-
44	6.515E+05	0.000E+00	6.515E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	5.552E+04	0.000E+00	5.552E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.427E+01	0.000E+00	1.427E+01	PB+4
49	1.536E+04	0.000E+00	1.536E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	6.175E+00	0.000E+00	6.175E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	9.403E+03	0.000E+00	9.403E+03	SO4-2
61	2.956E-02	0.000E+00	2.956E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	3.006E+03	0.000E+00	3.006E+03	TOC
68	3.874E+02	0.000E+00	3.874E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	6.318E+01	0.000E+00	6.318E+01	ZRO2:2H2O
74	1.390E-03	0.000E+00	1.390E-03	C14 (Ci)
75	1.591E-02	0.000E+00	1.591E-02	Sr90 (Ci)
76	4.074E-06	0.000E+00	4.074E-06	Y90 (Ci)
77	1.451E+00	0.000E+00	1.451E+00	Tc99 (Ci)
78	3.330E-01	0.000E+00	3.330E-01	Cs137 (Ci)
79	5.098E-08	0.000E+00	5.098E-08	Ba137 (Ci)
80	4.458E+01	0.000E+00	4.458E+01	U235 (Ci)
81	6.629E+03	0.000E+00	6.629E+03	U238 (Ci)
82	2.841E-02	0.000E+00	2.841E-02	Np237 (Ci)
83	8.730E-06	0.000E+00	8.730E-06	Pu238 (Ci)
84	4.337E-02	0.000E+00	4.337E-02	Pu239 (Ci)
85	2.461E-03	0.000E+00	2.461E-03	Pu240 (Ci)
86	4.924E-05	0.000E+00	4.924E-05	Pu241 (Ci)
87	2.966E-03	0.000E+00	2.966E-03	Am241 (Ci)
88	1.780E-08	0.000E+00	1.780E-08	Cm244 (Ci)
89	5.003E+06	0.000E+00	5.003E+06	Total
Tot	5.003E+06	0.000E+00	5.003E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
109	6.087E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	9.076E+04	0.000E+00	9.076E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	2.371E+01	0.000E+00	2.371E+01	BI+3
10	3.348E+01	0.000E+00	3.348E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.632E+01	0.000E+00	1.632E+01	CE+3
14	1.663E+03	0.000E+00	1.663E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	6.500E+03	0.000E+00	6.500E+03	CO3-2
18	6.555E+03	0.000E+00	6.555E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.320E+00	0.000E+00	1.320E+00	CS+
21	3.300E-01	0.000E+00	3.300E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	1.556E+03	0.000E+00	1.556E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.178E+02	0.000E+00	1.178E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.799E+06	0.000E+00	3.799E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.500E+02	0.000E+00	1.500E+02	K+
32	6.279E-09	0.000E+00	6.279E-09	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	8.446E+00	0.000E+00	8.446E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.256E+05	0.000E+00	3.256E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.062E+01	0.000E+00	2.062E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.432E+04	0.000E+00	2.432E+04	NO2-
44	5.912E+05	0.000E+00	5.912E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	4.541E+04	0.000E+00	4.541E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	2.802E+00	0.000E+00	2.802E+00	PB+4
49	9.618E+03	0.000E+00	9.618E+03	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.021E+00	0.000E+00	1.021E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	4.519E+03	0.000E+00	4.519E+03	SO4-2
61	4.814E-02	0.000E+00	4.814E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.301E+03	0.000E+00	1.301E+03	TOC
68	3.155E-02	0.000E+00	3.155E-02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.469E+01	0.000E+00	1.469E+01	ZRO2:2H2O
74	1.296E-03	0.000E+00	1.296E-03	C14 (Ci)
75	1.144E-02	0.000E+00	1.144E-02	Sr90 (Ci)
76	2.928E-06	0.000E+00	2.928E-06	Y90 (Ci)
77	1.263E+00	0.000E+00	1.263E+00	Tc99 (Ci)
78	3.300E-01	0.000E+00	3.300E-01	Cs137 (Ci)
79	5.063E-08	0.000E+00	5.063E-08	Ba137 (Ci)
80	1.559E+01	0.000E+00	1.559E+01	U235 (Ci)
81	2.249E+03	0.000E+00	2.249E+03	U238 (Ci)
82	2.156E-02	0.000E+00	2.156E-02	Np237 (Ci)
83	3.692E-06	0.000E+00	3.692E-06	Pu238 (Ci)
84	2.058E-02	0.000E+00	2.058E-02	Pu239 (Ci)
85	1.119E-03	0.000E+00	1.119E-03	Pu240 (Ci)
86	1.964E-05	0.000E+00	1.964E-05	Pu241 (Ci)
87	2.049E-03	0.000E+00	2.049E-03	Am241 (Ci)
88	1.231E-08	0.000E+00	1.231E-08	Cm244 (Ci)
89	4.905E+06	0.000E+00	4.905E+06	Total
Tot	4.905E+06	0.000E+00	4.905E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
110	6.110E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.650E+04	0.000E+00	3.650E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	4.654E-01	0.000E+00	4.654E-01	BI+3
10	4.716E+01	0.000E+00	4.716E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.625E-01	0.000E+00	1.625E-01	CE+3
14	2.110E+03	0.000E+00	2.110E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	8.423E+03	0.000E+00	8.423E+03	CO3-2
18	5.421E+03	0.000E+00	5.421E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.418E+00	0.000E+00	1.418E+00	CS+
21	3.545E-01	0.000E+00	3.545E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	2.618E+03	0.000E+00	2.618E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.504E+02	0.000E+00	1.504E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.762E+06	0.000E+00	3.762E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.196E+02	0.000E+00	2.196E+02	K+
32	2.379E-09	0.000E+00	2.379E-09	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.039E-01	0.000E+00	1.039E-01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.806E+05	0.000E+00	3.806E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.862E+01	0.000E+00	2.862E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.134E+04	0.000E+00	3.134E+04	NO2-
44	7.508E+05	0.000E+00	7.508E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	4.628E+04	0.000E+00	4.628E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	7.949E+00	0.000E+00	7.949E+00	PB+4
49	1.306E+04	0.000E+00	1.306E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	5.070E+00	0.000E+00	5.070E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.712E+03	0.000E+00	7.712E+03	SO4-2
61	2.156E-02	0.000E+00	2.156E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.914E+03	0.000E+00	1.914E+03	TOC
68	3.478E-02	0.000E+00	3.478E-02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.387E+01	0.000E+00	1.387E+01	ZRO2:2H2O
74	1.517E-03	0.000E+00	1.517E-03	C14 (Ci)
75	1.618E-02	0.000E+00	1.618E-02	Sr90 (Ci)
76	4.142E-06	0.000E+00	4.142E-06	Y90 (Ci)
77	1.634E+00	0.000E+00	1.634E+00	Tc99 (Ci)
78	3.545E-01	0.000E+00	3.545E-01	Cs137 (Ci)
79	5.434E-08	0.000E+00	5.434E-08	Ba137 (Ci)
80	3.812E+01	0.000E+00	3.812E+01	U235 (Ci)
81	5.587E+03	0.000E+00	5.587E+03	U238 (Ci)
82	2.666E-02	0.000E+00	2.666E-02	Np237 (Ci)
83	5.934E-06	0.000E+00	5.934E-06	Pu238 (Ci)
84	3.147E-02	0.000E+00	3.147E-02	Pu239 (Ci)
85	1.734E-03	0.000E+00	1.734E-03	Pu240 (Ci)
86	3.224E-05	0.000E+00	3.224E-05	Pu241 (Ci)
87	3.095E-03	0.000E+00	3.095E-03	Am241 (Ci)
88	2.228E-08	0.000E+00	2.228E-08	Cm244 (Ci)
89	5.049E+06	0.000E+00	5.049E+06	Total
Tot	5.049E+06	0.000E+00	5.049E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
111	6.111E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	6.970E+04	0.000E+00	6.970E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	1.950E-01	0.000E+00	1.950E-01	BI+3
10	3.459E-01	0.000E+00	3.459E-01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.527E+01	0.000E+00	1.527E+01	CE+3
14	1.761E+03	0.000E+00	1.761E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	7.330E+03	0.000E+00	7.330E+03	CO3-2
18	6.560E+03	0.000E+00	6.560E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.078E+00	0.000E+00	1.078E+00	CS+
21	2.695E-01	0.000E+00	2.695E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	1.109E+03	0.000E+00	1.109E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.197E+02	0.000E+00	1.197E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.800E+06	0.000E+00	3.800E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.780E+02	0.000E+00	1.780E+02	K+
32	2.579E-09	0.000E+00	2.579E-09	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.140E+01	0.000E+00	1.140E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.266E+05	0.000E+00	3.266E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.130E+01	0.000E+00	2.130E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.698E+04	0.000E+00	2.698E+04	NO2-
44	6.150E+05	0.000E+00	6.150E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	4.286E+04	0.000E+00	4.286E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	8.259E-01	0.000E+00	8.259E-01	PB+4
49	8.397E+03	0.000E+00	8.397E+03	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	2.259E-02	0.000E+00	2.259E-02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	3.988E+03	0.000E+00	3.988E+03	SO4-2
61	3.304E-02	0.000E+00	3.304E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.237E+03	0.000E+00	1.237E+03	TOC
68	2.637E+02	0.000E+00	2.637E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	4.358E+00	0.000E+00	4.358E+00	ZRO2:2H2O
74	1.111E-03	0.000E+00	1.111E-03	C14 (Ci)
75	1.112E-02	0.000E+00	1.112E-02	Sr90 (Ci)
76	2.846E-06	0.000E+00	2.846E-06	Y90 (Ci)
77	1.188E+00	0.000E+00	1.188E+00	Tc99 (Ci)
78	2.695E-01	0.000E+00	2.695E-01	Cs137 (Ci)
79	4.134E-08	0.000E+00	4.134E-08	Ba137 (Ci)
80	1.024E+01	0.000E+00	1.024E+01	U235 (Ci)
81	1.443E+03	0.000E+00	1.443E+03	U238 (Ci)
82	1.749E-02	0.000E+00	1.749E-02	Np237 (Ci)
83	2.764E-06	0.000E+00	2.764E-06	Pu238 (Ci)
84	1.509E-02	0.000E+00	1.509E-02	Pu239 (Ci)
85	8.040E-04	0.000E+00	8.040E-04	Pu240 (Ci)
86	1.328E-05	0.000E+00	1.328E-05	Pu241 (Ci)
87	1.996E-03	0.000E+00	1.996E-03	Am241 (Ci)
88	1.497E-08	0.000E+00	1.497E-08	Cm244 (Ci)
89	4.910E+06	0.000E+00	4.910E+06	Total
Tot	4.910E+06	0.000E+00	4.910E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
112	6.139E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	8.291E+04	0.000E+00	8.291E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	3.021E+01	0.000E+00	3.021E+01	BI+3
10	3.949E+01	0.000E+00	3.949E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.415E+01	0.000E+00	1.415E+01	CE+3
14	1.950E+03	0.000E+00	1.950E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	8.207E+03	0.000E+00	8.207E+03	CO3-2
18	1.039E+04	0.000E+00	1.039E+04	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	8.401E-01	0.000E+00	8.401E-01	CS+
21	2.100E-01	0.000E+00	2.100E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	1.646E+03	0.000E+00	1.646E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.282E+02	0.000E+00	1.282E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.749E+06	0.000E+00	3.749E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.254E+02	0.000E+00	2.254E+02	K+
32	8.360E-10	0.000E+00	8.360E-10	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.297E+01	0.000E+00	1.297E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.865E+05	0.000E+00	3.865E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.401E+01	0.000E+00	2.401E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.076E+04	0.000E+00	3.076E+04	NO2-
44	6.635E+05	0.000E+00	6.635E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.642E+04	0.000E+00	6.642E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	3.852E+00	0.000E+00	3.852E+00	PB+4
49	1.390E+04	0.000E+00	1.390E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.782E+00	0.000E+00	1.782E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	5.401E+03	0.000E+00	5.401E+03	SO4-2
61	1.810E-02	0.000E+00	1.810E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.652E+03	0.000E+00	1.652E+03	TOC
68	2.537E+02	0.000E+00	2.537E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	5.617E+00	0.000E+00	5.617E+00	ZRO2:2H2O
74	9.884E-04	0.000E+00	9.884E-04	C14 (Ci)
75	1.346E-02	0.000E+00	1.346E-02	Sr90 (Ci)
76	3.445E-06	0.000E+00	3.445E-06	Y90 (Ci)
77	1.269E+00	0.000E+00	1.269E+00	Tc99 (Ci)
78	2.100E-01	0.000E+00	2.100E-01	Cs137 (Ci)
79	3.219E-08	0.000E+00	3.219E-08	Ba137 (Ci)
80	2.108E+01	0.000E+00	2.108E+01	U235 (Ci)
81	3.065E+03	0.000E+00	3.065E+03	U238 (Ci)
82	1.668E-02	0.000E+00	1.668E-02	Np237 (Ci)
83	4.461E-06	0.000E+00	4.461E-06	Pu238 (Ci)
84	2.032E-02	0.000E+00	2.032E-02	Pu239 (Ci)
85	1.093E-03	0.000E+00	1.093E-03	Pu240 (Ci)
86	1.887E-05	0.000E+00	1.887E-05	Pu241 (Ci)
87	2.500E-03	0.000E+00	2.500E-03	Am241 (Ci)
88	2.255E-08	0.000E+00	2.255E-08	Cm244 (Ci)
89	5.020E+06	0.000E+00	5.020E+06	Total
Tot	5.020E+06	0.000E+00	5.020E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
113	6.139E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	9.223E+04	0.000E+00	9.223E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	3.715E+01	0.000E+00	3.715E+01	BI+3
10	4.230E+01	0.000E+00	4.230E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.575E+01	0.000E+00	1.575E+01	CE+3
14	2.016E+03	0.000E+00	2.016E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	7.795E+03	0.000E+00	7.795E+03	CO3-2
18	8.793E+03	0.000E+00	8.793E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.395E+00	0.000E+00	1.395E+00	CS+
21	3.488E-01	0.000E+00	3.488E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	2.403E+03	0.000E+00	2.403E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.397E+02	0.000E+00	1.397E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.732E+06	0.000E+00	3.732E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.090E+02	0.000E+00	2.090E+02	K+
32	4.673E-09	0.000E+00	4.673E-09	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	9.209E+00	0.000E+00	9.209E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.989E+05	0.000E+00	3.989E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.569E+01	0.000E+00	2.569E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.982E+04	0.000E+00	2.982E+04	NO2-
44	7.071E+05	0.000E+00	7.071E+05	NO3-

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45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.337E+04	0.000E+00	6.337E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	8.748E+00	0.000E+00	8.748E+00	PB+4
49	1.242E+04	0.000E+00	1.242E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.731E+00	0.000E+00	1.731E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.297E+03	0.000E+00	7.297E+03	SO4-2
61	3.096E-02	0.000E+00	3.096E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.074E+03	0.000E+00	2.074E+03	TOC
68	3.695E+02	0.000E+00	3.695E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	2.375E+01	0.000E+00	2.375E+01	ZRO2:2H2O
74	1.466E-03	0.000E+00	1.466E-03	C14 (Ci)
75	1.573E-02	0.000E+00	1.573E-02	Sr90 (Ci)
76	4.026E-06	0.000E+00	4.026E-06	Y90 (Ci)
77	1.540E+00	0.000E+00	1.540E+00	Tc99 (Ci)
78	3.488E-01	0.000E+00	3.488E-01	Cs137 (Ci)
79	5.345E-08	0.000E+00	5.345E-08	Ba137 (Ci)
80	3.356E+01	0.000E+00	3.356E+01	U235 (Ci)
81	4.915E-03	0.000E+00	4.915E-03	U238 (Ci)
82	2.677E-02	0.000E+00	2.677E-02	Np237 (Ci)
83	6.433E-06	0.000E+00	6.433E-06	Pu238 (Ci)
84	3.334E-02	0.000E+00	3.334E-02	Pu239 (Ci)
85	1.846E-03	0.000E+00	1.846E-03	Pu240 (Ci)
86	3.452E-05	0.000E+00	3.452E-05	Pu241 (Ci)
87	2.969E-03	0.000E+00	2.969E-03	Am241 (Ci)
88	1.967E-08	0.000E+00	1.967E-08	Cm244 (Ci)
89	5.064E+06	0.000E+00	5.064E+06	Total
Tot	5.064E+06	0.000E+00	5.064E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
114	6.169E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.069E+04	0.000E+00	2.069E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	5.809E+01	0.000E+00	5.809E+01	BI+3
10	5.414E+01	0.000E+00	5.414E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.798E+01	0.000E+00	1.798E+01	CE+3
14	2.643E+03	0.000E+00	2.643E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.061E+04	0.000E+00	1.061E+04	CO3-2
18	4.100E+03	0.000E+00	4.100E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	8.065E-01	0.000E+00	8.065E-01	CS+
21	2.016E-01	0.000E+00	2.016E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.028E+03	0.000E+00	3.028E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.720E+02	0.000E+00	1.720E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.731E+06	0.000E+00	3.731E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.963E+02	0.000E+00	2.963E+02	K+
32	9.122E-10	0.000E+00	9.122E-10	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.562E+01	0.000E+00	1.562E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.236E+05	0.000E+00	4.236E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.306E+01	0.000E+00	3.306E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.117E+04	0.000E+00	4.117E+04	NO2-
44	8.519E+05	0.000E+00	8.519E+05	NO3-

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45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	4.786E+04	0.000E+00	4.786E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	7.793E+00	0.000E+00	7.793E+00	PB+4
49	1.485E+04	0.000E+00	1.485E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	7.255E+00	0.000E+00	7.255E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	8.794E+03	0.000E+00	8.794E+03	SO4-2
61	1.878E-02	0.000E+00	1.878E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.329E+03	0.000E+00	2.329E+03	TOC
68	3.176E+02	0.000E+00	3.176E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	7.516E+00	0.000E+00	7.516E+00	ZRO2:2H2O
74	1.047E-03	0.000E+00	1.047E-03	C14 (Ci)
75	1.531E-02	0.000E+00	1.531E-02	Sr90 (Ci)
76	3.920E-06	0.000E+00	3.920E-06	Y90 (Ci)
77	1.531E+00	0.000E+00	1.531E+00	Tc99 (Ci)
78	2.016E-01	0.000E+00	2.016E-01	Cs137 (Ci)
79	3.082E-08	0.000E+00	3.082E-08	Ba137 (Ci)
80	3.689E+01	0.000E+00	3.689E+01	U235 (Ci)
81	5.446E-03	0.000E+00	5.446E-03	U238 (Ci)
82	2.084E-02	0.000E+00	2.084E-02	Np237 (Ci)
83	6.286E-06	0.000E+00	6.286E-06	Pu238 (Ci)
84	2.738E-02	0.000E+00	2.738E-02	Pu239 (Ci)
85	1.486E-03	0.000E+00	1.486E-03	Pu240 (Ci)
86	2.619E-05	0.000E+00	2.619E-05	Pu241 (Ci)
87	3.022E-03	0.000E+00	3.022E-03	Am241 (Ci)
88	3.079E-08	0.000E+00	3.079E-08	Cm244 (Ci)
89	5.163E+06	0.000E+00	5.163E+06	Total
Tot	5.163E+06	0.000E+00	5.163E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
115	6.172E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.934E+04	0.000E+00	3.934E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	7.527E+01	0.000E+00	7.527E+01	BI+3
10	6.004E+01	0.000E+00	6.004E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.504E+01	0.000E+00	1.504E+01	CE+3
14	2.982E+03	0.000E+00	2.982E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.190E+04	0.000E+00	1.190E+04	CO3-2
18	5.491E+03	0.000E+00	5.491E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	7.291E-01	0.000E+00	7.291E-01	CS+
21	1.823E-01	0.000E+00	1.823E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.773E+03	0.000E+00	3.773E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.935E+02	0.000E+00	1.935E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.703E+06	0.000E+00	3.703E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.717E+02	0.000E+00	3.717E+02	K+
32	7.266E-10	0.000E+00	7.266E-10	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.627E+01	0.000E+00	1.627E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.687E+05	0.000E+00	4.687E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.699E+01	0.000E+00	3.699E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.693E+04	0.000E+00	4.693E+04	NO2-
44	8.794E+05	0.000E+00	8.794E+05	NO3-

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45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.554E+04	0.000E+00	6.554E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.612E+01	0.000E+00	1.612E+01	PB+4
49	1.878E+04	0.000E+00	1.878E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	9.899E+00	0.000E+00	9.899E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.167E+04	0.000E+00	1.167E+04	SO4-2
61	1.038E-02	0.000E+00	1.038E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	3.093E+03	0.000E+00	3.093E+03	TOC
68	3.263E+02	0.000E+00	3.263E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	5.303E+00	0.000E+00	5.303E+00	ZRO2:2H2O
74	9.990E-04	0.000E+00	9.990E-04	C14 (Ci)
75	1.652E-02	0.000E+00	1.652E-02	Sr90 (Ci)
76	4.229E-06	0.000E+00	4.229E-06	Y90 (Ci)
77	1.511E+00	0.000E+00	1.511E+00	Tc99 (Ci)
78	1.823E-01	0.000E+00	1.823E-01	Cs137 (Ci)
79	2.779E-08	0.000E+00	2.779E-08	Ba137 (Ci)
80	5.443E+01	0.000E+00	5.443E+01	U235 (Ci)
81	8.123E-03	0.000E+00	8.123E-03	U238 (Ci)
82	2.307E-02	0.000E+00	2.307E-02	Np237 (Ci)
83	8.454E-06	0.000E+00	8.454E-06	Pu238 (Ci)
84	3.637E-02	0.000E+00	3.637E-02	Pu239 (Ci)
85	2.019E-03	0.000E+00	2.019E-03	Pu240 (Ci)
86	3.720E-05	0.000E+00	3.720E-05	Pu241 (Ci)
87	2.685E-03	0.000E+00	2.685E-03	Am241 (Ci)
88	3.170E-08	0.000E+00	3.170E-08	Cm244 (Ci)
89	5.261E+06	0.000E+00	5.261E+06	Total
Tot	5.261E+06	0.000E+00	5.261E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
116	6.195E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	1.104E+05	0.000E+00	1.104E+05	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	4.992E+01	0.000E+00	4.992E+01	BI+3
10	3.301E+01	0.000E+00	3.301E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	8.535E+00	0.000E+00	8.535E+00	CE+3
14	1.589E+03	0.000E+00	1.589E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	5.904E+03	0.000E+00	5.904E+03	CO3-2
18	9.301E+03	0.000E+00	9.301E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	5.546E-01	0.000E+00	5.546E-01	CS+
21	1.387E-01	0.000E+00	1.387E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	2.656E+03	0.000E+00	2.656E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.075E+02	0.000E+00	1.075E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.843E+06	0.000E+00	3.843E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.860E+02	0.000E+00	1.860E+02	K+
32	1.956E-09	0.000E+00	1.956E-09	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	7.012E+00	0.000E+00	7.012E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.186E+05	0.000E+00	3.186E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.056E+01	0.000E+00	2.056E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.431E+04	0.000E+00	2.431E+04	NO2-
44	4.505E+05	0.000E+00	4.505E+05	NO3-

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45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.999E+04	0.000E+00	6.999E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.015E+01	0.000E+00	1.015E+01	PB+4
49	1.819E+04	0.000E+00	1.819E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	7.992E+00	0.000E+00	7.992E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.274E+03	0.000E+00	7.274E+03	SO4-2
61	1.011E-02	0.000E+00	1.011E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.661E+03	0.000E+00	1.661E+03	TOC
68	1.936E+02	0.000E+00	1.936E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.020E+01	0.000E+00	1.020E+01	ZRO2:2H2O
74	6.830E-04	0.000E+00	6.830E-04	C14 (Ci)
75	8.307E-03	0.000E+00	8.307E-03	Sr90 (Ci)
76	2.127E-06	0.000E+00	2.127E-06	Y90 (Ci)
77	8.928E-01	0.000E+00	8.928E-01	Tc99 (Ci)
78	1.387E-01	0.000E+00	1.387E-01	Cs137 (Ci)
79	2.117E-08	0.000E+00	2.117E-08	Ba137 (Ci)
80	3.095E+01	0.000E+00	3.095E+01	U235 (Ci)
81	4.621E-03	0.000E+00	4.621E-03	U238 (Ci)
82	1.567E-02	0.000E+00	1.567E-02	Np237 (Ci)
83	4.561E-06	0.000E+00	4.561E-06	Pu238 (Ci)
84	2.111E-02	0.000E+00	2.111E-02	Pu239 (Ci)
85	1.185E-03	0.000E+00	1.185E-03	Pu240 (Ci)
86	2.303E-05	0.000E+00	2.303E-05	Pu241 (Ci)
87	1.361E-03	0.000E+00	1.361E-03	Am241 (Ci)
88	1.631E-08	0.000E+00	1.631E-08	Cm244 (Ci)
89	4.860E+06	0.000E+00	4.860E+06	Total
Tot	4.860E+06	0.000E+00	4.860E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
117	6.226E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	6.811E+04	0.000E+00	6.811E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	4.778E+01	0.000E+00	4.778E+01	BI+3
10	5.002E+01	0.000E+00	5.002E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	2.109E+01	0.000E+00	2.109E+01	CE+3
14	2.574E+03	0.000E+00	2.574E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	9.981E+03	0.000E+00	9.981E+03	CO3-2
18	5.993E+03	0.000E+00	5.993E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.191E+00	0.000E+00	1.191E+00	CS+
21	2.977E-01	0.000E+00	2.977E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	2.666E+03	0.000E+00	2.666E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.698E+02	0.000E+00	1.698E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.703E+06	0.000E+00	3.703E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.756E+02	0.000E+00	2.756E+02	K+
32	9.967E-09	0.000E+00	9.967E-09	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.421E+01	0.000E+00	1.421E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.396E+05	0.000E+00	4.396E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.112E+01	0.000E+00	3.112E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.005E+04	0.000E+00	4.005E+04	NO2-
44	8.043E+05	0.000E+00	8.043E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.321E+04	0.000E+00	6.321E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	7.636E+00	0.000E+00	7.636E+00	PB+4
49	1.624E+04	0.000E+00	1.624E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	3.880E+00	0.000E+00	3.880E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	8.346E+03	0.000E+00	8.346E+03	SO4-2
61	3.921E-02	0.000E+00	3.921E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.152E+03	0.000E+00	2.152E+03	TOC
68	3.349E+02	0.000E+00	3.349E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.015E+01	0.000E+00	1.015E+01	ZRO2:2H2O
74	1.331E-03	0.000E+00	1.331E-03	C14 (Ci)
75	1.299E-02	0.000E+00	1.299E-02	Sr90 (Ci)
76	3.325E-06	0.000E+00	3.325E-06	Y90 (Ci)
77	1.653E+00	0.000E+00	1.653E+00	Tc99 (Ci)
78	2.977E-01	0.000E+00	2.977E-01	Cs137 (Ci)
79	4.558E-08	0.000E+00	4.558E-08	Ba137 (Ci)
80	3.062E+01	0.000E+00	3.062E+01	U235 (Ci)
81	4.549E+03	0.000E+00	4.549E+03	U238 (Ci)
82	2.654E-02	0.000E+00	2.654E-02	Np237 (Ci)
83	5.157E-06	0.000E+00	5.157E-06	Pu238 (Ci)
84	2.215E-02	0.000E+00	2.215E-02	Pu239 (Ci)
85	1.197E-03	0.000E+00	1.197E-03	Pu240 (Ci)
86	2.072E-05	0.000E+00	2.072E-05	Pu241 (Ci)
87	2.229E-03	0.000E+00	2.229E-03	Am241 (Ci)
88	2.683E-08	0.000E+00	2.683E-08	Cm244 (Ci)
89	5.167E+06	0.000E+00	5.167E+06	Total
Tot	5.167E+06	0.000E+00	5.167E+06	

 Fri Sep 06 11:38:07 1996 **CASE.250.llw**

Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
118	6.226E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	4.860E+04	0.000E+00	4.860E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	2.520E+01	0.000E+00	2.520E+01	BI+3
10	4.028E+01	0.000E+00	4.028E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.656E+01	0.000E+00	1.656E+01	CE+3
14	2.065E+03	0.000E+00	2.065E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	8.900E+03	0.000E+00	8.900E+03	CO3-2
18	5.220E+03	0.000E+00	5.220E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	4.364E-01	0.000E+00	4.364E-01	CS+
21	1.091E-01	0.000E+00	1.091E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	1.374E+03	0.000E+00	1.374E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.319E+02	0.000E+00	1.319E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.780E+06	0.000E+00	3.780E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.377E+02	0.000E+00	2.377E+02	K+
32	3.844E-11	0.000E+00	3.844E-11	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.546E+01	0.000E+00	1.546E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.572E+05	0.000E+00	3.572E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.459E+01	0.000E+00	2.459E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.335E+04	0.000E+00	3.335E+04	NO2-
44	6.934E+05	0.000E+00	6.934E+05	NO3-

 Fri Sep 06 11:38:07 1996 **CASE.250.llw**

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	4.475E+04	0.000E+00	4.475E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	7.358E-01	0.000E+00	7.358E-01	PB+4
49	8.960E+03	0.000E+00	8.960E+03	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	3.691E-01	0.000E+00	3.691E-01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	4.634E+03	0.000E+00	4.634E+03	SO4-2
61	1.674E-02	0.000E+00	1.674E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.549E+03	0.000E+00	1.549E+03	TOC
68	2.196E+02	0.000E+00	2.196E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	3.535E+00	0.000E+00	3.535E+00	ZRO2:2H2O
74	6.453E-04	0.000E+00	6.453E-04	C14 (Ci)
75	1.115E-02	0.000E+00	1.115E-02	Sr90 (Ci)
76	2.854E-06	0.000E+00	2.854E-06	Y90 (Ci)
77	1.112E+00	0.000E+00	1.112E+00	Tc99 (Ci)
78	1.091E-01	0.000E+00	1.091E-01	Cs137 (Ci)
79	1.668E-08	0.000E+00	1.668E-08	Ba137 (Ci)
80	1.097E+01	0.000E+00	1.097E+01	U235 (Ci)
81	1.577E+03	0.000E+00	1.577E+03	U238 (Ci)
82	1.140E-02	0.000E+00	1.140E-02	Np237 (Ci)
83	3.460E-06	0.000E+00	3.460E-06	Pu238 (Ci)
84	1.170E-02	0.000E+00	1.170E-02	Pu239 (Ci)
85	5.958E-04	0.000E+00	5.958E-04	Pu240 (Ci)
86	9.133E-06	0.000E+00	9.133E-06	Pu241 (Ci)
87	2.073E-03	0.000E+00	2.073E-03	Am241 (Ci)
88	2.508E-08	0.000E+00	2.508E-08	Cm244 (Ci)
89	4.989E+06	0.000E+00	4.989E+06	Total
Tot	4.989E+06	0.000E+00	4.989E+06	

 Fri Sep 06 11:38:07 1996 **CASE.250.llw**

Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
119	6.227E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.482E+04	0.000E+00	2.482E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	7.276E+01	0.000E+00	7.276E+01	BI+3
10	6.293E+01	0.000E+00	6.293E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.875E+01	0.000E+00	1.875E+01	CE+3
14	2.949E+03	0.000E+00	2.949E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.013E+04	0.000E+00	1.013E+04	CO3-2
18	3.759E+03	0.000E+00	3.759E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.193E+00	0.000E+00	1.193E+00	CS+
21	2.981E-01	0.000E+00	2.981E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.770E+03	0.000E+00	3.770E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.973E+02	0.000E+00	1.973E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.711E+06	0.000E+00	3.711E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.444E+02	0.000E+00	3.444E+02	K+
32	5.307E-11	0.000E+00	5.307E-11	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.113E+01	0.000E+00	1.113E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.506E+05	0.000E+00	4.506E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.914E+01	0.000E+00	3.914E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.690E+04	0.000E+00	4.690E+04	NO2-
44	8.799E+05	0.000E+00	8.799E+05	NO3-

 Fri Sep 06 11:38:07 1996 **CASE.250.llw**

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	5.581E+04	0.000E+00	5.581E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	2.245E+01	0.000E+00	2.245E+01	PB+4
49	1.717E+04	0.000E+00	1.717E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	3.761E+00	0.000E+00	3.761E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.373E+04	0.000E+00	1.373E+04	SO4-2
61	1.856E-02	0.000E+00	1.856E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.703E+03	0.000E+00	2.703E+03	TOC
68	3.470E+02	0.000E+00	3.470E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	4.028E+00	0.000E+00	4.028E+00	ZRO2:2H2O
74	1.529E-03	0.000E+00	1.529E-03	C14 (Ci)
75	1.267E-02	0.000E+00	1.267E-02	Sr90 (Ci)
76	3.242E-06	0.000E+00	3.242E-06	Y90 (Ci)
77	2.072E+00	0.000E+00	2.072E+00	Tc99 (Ci)
78	2.981E-01	0.000E+00	2.981E-01	Cs137 (Ci)
79	4.550E-08	0.000E+00	4.550E-08	Ba137 (Ci)
80	6.281E+01	0.000E+00	6.281E+01	U235 (Ci)
81	9.409E+03	0.000E+00	9.409E+03	U238 (Ci)
82	4.081E-02	0.000E+00	4.081E-02	Np237 (Ci)
83	7.503E-06	0.000E+00	7.503E-06	Pu238 (Ci)
84	3.115E-02	0.000E+00	3.115E-02	Pu239 (Ci)
85	1.723E-03	0.000E+00	1.723E-03	Pu240 (Ci)
86	3.272E-05	0.000E+00	3.272E-05	Pu241 (Ci)
87	2.099E-03	0.000E+00	2.099E-03	Am241 (Ci)
88	4.035E-08	0.000E+00	4.035E-08	Cm244 (Ci)
89	5.224E+06	0.000E+00	5.224E+06	Total
Tot	5.224E+06	0.000E+00	5.224E+06	

 Fri Sep 06 11:38:07 1996 **CASE.250.llw**

Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
120	6.258E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.925E+04	0.000E+00	2.925E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	6.444E+01	0.000E+00	6.444E+01	BI+3
10	5.679E+01	0.000E+00	5.679E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.865E+01	0.000E+00	1.865E+01	CE+3
14	2.872E+03	0.000E+00	2.872E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.121E+04	0.000E+00	1.121E+04	CO3-2
18	4.358E+03	0.000E+00	4.358E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	6.245E-01	0.000E+00	6.245E-01	CS+
21	1.561E-01	0.000E+00	1.561E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.292E+03	0.000E+00	3.292E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.825E+02	0.000E+00	1.825E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.719E+06	0.000E+00	3.719E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.304E+02	0.000E+00	3.304E+02	K+
32	1.494E-10	0.000E+00	1.494E-10	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.646E+01	0.000E+00	1.646E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.440E+05	0.000E+00	4.440E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.512E+01	0.000E+00	3.512E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.570E+04	0.000E+00	4.570E+04	NO2-
44	8.601E+05	0.000E+00	8.601E+05	NO3-

 Fri Sep 06 11:38:07 1996 **CASE.250.llw**

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	5.582E+04	0.000E+00	5.582E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.055E+01	0.000E+00	1.055E+01	PB+4
49	1.725E+04	0.000E+00	1.725E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	8.238E+00	0.000E+00	8.238E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	9.664E+03	0.000E+00	9.664E+03	SO4-2
61	1.612E-02	0.000E+00	1.612E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.532E+03	0.000E+00	2.532E+03	TOC
68	2.798E+02	0.000E+00	2.798E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	4.545E+00	0.000E+00	4.545E+00	ZRO2:2H2O
74	8.879E-04	0.000E+00	8.879E-04	C14 (Ci)
75	1.340E-02	0.000E+00	1.340E-02	Sr90 (Ci)
76	3.429E-06	0.000E+00	3.429E-06	Y90 (Ci)
77	1.424E+00	0.000E+00	1.424E+00	Tc99 (Ci)
78	1.561E-01	0.000E+00	1.561E-01	Cs137 (Ci)
79	2.384E-08	0.000E+00	2.384E-08	Ba137 (Ci)
80	3.196E+01	0.000E+00	3.196E+01	U235 (Ci)
81	4.756E+03	0.000E+00	4.756E+03	U238 (Ci)
82	1.925E-02	0.000E+00	1.925E-02	Np237 (Ci)
83	5.910E-06	0.000E+00	5.910E-06	Pu238 (Ci)
84	2.440E-02	0.000E+00	2.440E-02	Pu239 (Ci)
85	1.334E-03	0.000E+00	1.334E-03	Pu240 (Ci)
86	2.378E-05	0.000E+00	2.378E-05	Pu241 (Ci)
87	2.231E-03	0.000E+00	2.231E-03	Am241 (Ci)
88	3.104E-08	0.000E+00	3.104E-08	Cm244 (Ci)
89	5.205E+06	0.000E+00	5.205E+06	Total
Tot	5.205E+06	0.000E+00	5.205E+06	

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Fri Sep 06 11:38:07 1996 **CASE.250.llw**

Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
121	6.261E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	1.936E+04	0.000E+00	1.936E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	8.156E+01	0.000E+00	8.106E+01	BI+3
10	6.370E+01	0.000E+00	6.370E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	2.145E+01	0.000E+00	2.145E+01	CE+3
14	2.998E+03	0.000E+00	2.998E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.121E+04	0.000E+00	1.121E+04	CO3-2
18	3.963E+03	0.000E+00	3.963E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	8.662E-01	0.000E+00	8.662E-01	CS+
21	2.165E-01	0.000E+00	2.165E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	4.341E+03	0.000E+00	4.341E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	2.058E+02	0.000E+00	2.058E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.700E+06	0.000E+00	3.700E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.229E+02	0.000E+00	3.229E+02	K+
32	6.961E-10	0.000E+00	6.961E-10	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.546E+01	0.000E+00	1.546E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.721E+05	0.000E+00	4.721E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.960E+01	0.000E+00	3.960E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.681E+04	0.000E+00	4.681E+04	NO2-
44	9.240E+05	0.000E+00	9.240E+05	NO3-

Fri Sep 06 11:38:07 1996 **CASE.250.llw**

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	5.622E+04	0.000E+00	5.622E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.147E+01	0.000E+00	1.147E+01	PB+4
49	2.367E+04	0.000E+00	2.367E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.491E+01	0.000E+00	1.491E+01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.085E+04	0.000E+00	1.085E+04	SO4-2
61	1.773E-02	0.000E+00	1.773E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.542E+03	0.000E+00	2.542E+03	TOC
68	3.289E+02	0.000E+00	3.289E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.130E+01	0.000E+00	1.130E+01	ZRO2:2H2O
74	1.114E-03	0.000E+00	1.114E-03	C14 (Ci)
75	1.418E-02	0.000E+00	1.418E-02	Sr90 (Ci)
76	3.629E-06	0.000E+00	3.629E-06	Y90 (Ci)
77	1.585E+00	0.000E+00	1.585E+00	Tc99 (Ci)
78	2.165E-01	0.000E+00	2.165E-01	Cs137 (Ci)
79	3.310E-08	0.000E+00	3.310E-08	Ba137 (Ci)
80	2.760E+01	0.000E+00	2.760E+01	U235 (Ci)
81	4.079E+03	0.000E+00	4.079E+03	U238 (Ci)
82	2.680E-02	0.000E+00	2.680E-02	Np237 (Ci)
83	7.508E-06	0.000E+00	7.508E-06	Pu238 (Ci)
84	2.502E-02	0.000E+00	2.502E-02	Pu239 (Ci)
85	1.358E-03	0.000E+00	1.358E-03	Pu240 (Ci)
86	2.402E-05	0.000E+00	2.402E-05	Pu241 (Ci)
87	2.144E-03	0.000E+00	2.144E-03	Am241 (Ci)
88	3.122E-08	0.000E+00	3.122E-08	Cm244 (Ci)
89	5.279E+06	0.000E+00	5.279E+06	Total
Tot	5.279E+06	0.000E+00	5.279E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
122	6.284E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	4.778E+04	0.000E+00	4.778E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	3.821E+01	0.000E+00	3.821E+01	BI+3
10	4.177E+01	0.000E+00	4.177E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.632E+01	0.000E+00	1.632E+01	CE+3
14	2.147E+03	0.000E+00	2.147E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	8.063E+03	0.000E+00	8.063E+03	CO3-2
18	4.645E+03	0.000E+00	4.645E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	5.537E-01	0.000E+00	5.537E-01	CS+
21	1.384E-01	0.000E+00	1.384E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	1.993E+03	0.000E+00	1.993E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.349E+02	0.000E+00	1.349E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.793E+06	0.000E+00	3.793E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.371E+02	0.000E+00	2.371E+02	K+
32	2.877E-11	0.000E+00	2.877E-11	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.207E+01	0.000E+00	1.207E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.535E+05	0.000E+00	3.535E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.581E+01	0.000E+00	2.581E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.449E+04	0.000E+00	3.449E+04	NO2-
44	6.676E+05	0.000E+00	6.676E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	4.754E+04	0.000E+00	4.754E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	7.090E+00	0.000E+00	7.090E+00	PB+4
49	1.130E+04	0.000E+00	1.130E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	2.017E+00	0.000E+00	2.017E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.108E+03	0.000E+00	7.108E+03	SO4-2
61	1.605E-02	0.000E+00	1.805E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.795E+03	0.000E+00	1.795E+03	TOC
68	2.309E+02	0.000E+00	2.309E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	3.071E+00	0.000E+00	3.071E+00	ZRO2:2H2O
74	7.592E-04	0.000E+00	7.592E-04	C14 (Ci)
75	9.636E-03	0.000E+00	9.636E-03	Sr90 (Ci)
76	2.467E-06	0.000E+00	2.467E-06	Y90 (Ci)
77	1.187E+00	0.000E+00	1.187E+00	Tc99 (Ci)
78	1.384E-01	0.000E+00	1.384E-01	Cs137 (Ci)
79	2.113E-08	0.000E+00	2.113E-08	Ba137 (Ci)
80	2.780E+01	0.000E+00	2.780E+01	U235 (Ci)
81	4.150E+03	0.000E+00	4.150E+03	U238 (Ci)
82	1.723E-02	0.000E+00	1.723E-02	Np237 (Ci)
83	4.507E-06	0.000E+00	4.507E-06	Pu238 (Ci)
84	1.573E-02	0.000E+00	1.573E-02	Pu239 (Ci)
85	8.377E-04	0.000E+00	8.377E-04	Pu240 (Ci)
86	1.416E-05	0.000E+00	1.416E-05	Pu241 (Ci)
87	1.678E-03	0.000E+00	1.678E-03	Am241 (Ci)
88	2.520E-08	0.000E+00	2.520E-08	Cm244 (Ci)
89	4.980E+06	0.000E+00	4.980E+06	Total
Tot	4.980E+06	0.000E+00	4.980E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
123	6.293E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.145E+04	0.000E+00	3.145E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	1.112E+02	0.000E+00	1.112E+02	BI+3
10	6.850E+01	0.000E+00	6.850E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.518E+01	0.000E+00	1.518E+01	CE+3
14	2.731E+03	0.000E+00	2.731E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	9.172E+03	0.000E+00	9.172E+03	CO3-2
18	3.655E+03	0.000E+00	3.655E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.282E+00	0.000E+00	1.282E+00	CS+
21	3.206E-01	0.000E+00	3.206E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	5.749E+03	0.000E+00	5.749E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	2.088E+02	0.000E+00	2.088E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.750E+06	0.000E+00	3.750E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.044E+02	0.000E+00	3.044E+02	K+
32	9.085E-12	0.000E+00	9.085E-12	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	7.737E+00	0.000E+00	7.737E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.443E+05	0.000E+00	4.443E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	4.276E+01	0.000E+00	4.276E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.095E+04	0.000E+00	4.095E+04	NO2-
44	7.982E+05	0.000E+00	7.982E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.316E+04	0.000E+00	6.316E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	2.384E+01	0.000E+00	2.384E+01	PB+4
49	3.465E+04	0.000E+00	3.465E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	5.701E+00	0.000E+00	5.701E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.391E+04	0.000E+00	1.391E+04	SO4-2
61	1.019E-02	0.000E+00	1.019E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.146E+03	0.000E+00	2.146E+03	TOC
68	2.873E+02	0.000E+00	2.873E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	6.286E+00	0.000E+00	6.286E+00	ZRO2:2H2O
74	1.584E-03	0.000E+00	1.584E-03	C14 (Ci)
75	1.063E-02	0.000E+00	1.063E-02	Sr90 (Ci)
76	2.720E-06	0.000E+00	2.720E-06	Y90 (Ci)
77	1.995E+00	0.000E+00	1.995E+00	Tc99 (Ci)
78	3.206E-01	0.000E+00	3.206E-01	Cs137 (Ci)
79	4.902E-08	0.000E+00	4.902E-08	Ba137 (Ci)
80	2.171E+01	0.000E+00	2.171E+01	U235 (Ci)
81	3.186E+03	0.000E+00	3.186E+03	U238 (Ci)
82	4.456E-02	0.000E+00	4.456E-02	Np237 (Ci)
83	5.391E-06	0.000E+00	5.391E-06	Pu238 (Ci)
84	2.526E-02	0.000E+00	2.526E-02	Pu239 (Ci)
85	1.417E-03	0.000E+00	1.417E-03	Pu240 (Ci)
86	2.854E-05	0.000E+00	2.854E-05	Pu241 (Ci)
87	1.386E-03	0.000E+00	1.386E-03	Am241 (Ci)
88	3.639E-08	0.000E+00	3.639E-08	Cm244 (Ci)
89	5.200E+06	0.000E+00	5.200E+06	Total
Tot	5.200E+06	0.000E+00	5.200E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
124	6.315E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.690E+04	0.000E+00	3.690E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	9.738E+01	0.000E+00	9.738E+01	BI+3
10	6.040E+01	0.000E+00	6.040E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.641E+01	0.000E+00	1.641E+01	CE+3
14	2.783E+03	0.000E+00	2.783E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.023E+04	0.000E+00	1.023E+04	CO3-2
18	4.125E+03	0.000E+00	4.125E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	8.570E-01	0.000E+00	8.570E-01	CS+
21	2.142E-01	0.000E+00	2.142E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	5.089E+03	0.000E+00	5.089E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.916E+02	0.000E+00	1.916E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.758E+06	0.000E+00	3.758E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.199E+02	0.000E+00	3.199E+02	K+
32	1.127E-12	0.000E+00	1.127E-12	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.428E+01	0.000E+00	1.428E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.418E+05	0.000E+00	4.418E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.787E-01	0.000E+00	3.787E-01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.381E+04	0.000E+00	4.381E+04	NO2-
44	7.772E+05	0.000E+00	7.772E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.596E+04	0.000E+00	6.596E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.337E+01	0.000E+00	1.337E+01	PB+4
49	3.423E+04	0.000E+00	3.423E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.192E+01	0.000E+00	1.192E+01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.129E+04	0.000E+00	1.129E+04	SO4-2
61	1.642E-02	0.000E+00	1.642E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.324E+03	0.000E+00	2.324E+03	TOC
68	3.174E+02	0.000E+00	3.174E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	8.475E+00	0.000E+00	8.475E+00	ZRO2:2H2O
74	1.092E-03	0.000E+00	1.092E-03	C14 (Ci)
75	9.735E-03	0.000E+00	9.735E-03	Sr90 (Ci)
76	2.492E-06	0.000E+00	2.492E-06	Y90 (Ci)
77	1.498E+00	0.000E+00	1.498E+00	Tc99 (Ci)
78	2.142E-01	0.000E+00	2.142E-01	Cs137 (Ci)
79	3.277E-08	0.000E+00	3.277E-08	Ba137 (Ci)
80	9.534E+00	0.000E+00	9.534E+00	U235 (Ci)
81	1.393E+03	0.000E+00	1.393E+03	U238 (Ci)
82	2.818E-02	0.000E+00	2.818E-02	Np237 (Ci)
83	5.556E-06	0.000E+00	5.556E-06	Pu238 (Ci)
84	1.455E-02	0.000E+00	1.455E-02	Pu239 (Ci)
85	7.757E-04	0.000E+00	7.757E-04	Pu240 (Ci)
86	1.299E-05	0.000E+00	1.299E-05	Pu241 (Ci)
87	1.382E-03	0.000E+00	1.382E-03	Am241 (Ci)
88	2.965E-08	0.000E+00	2.965E-08	Cm244 (Ci)
89	5.194E+06	0.000E+00	5.194E+06	Total
Tot	5.194E+06	0.000E+00	5.194E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
125	6.324E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	7.506E+04	0.000E+00	7.506E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	1.022E+02	0.000E+00	1.022E+02	BI+3
10	5.966E+01	0.000E+00	5.966E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.347E+01	0.000E+00	1.347E+01	CE+3
14	2.540E+03	0.000E+00	2.540E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	8.647E+03	0.000E+00	8.647E+03	CO3-2
18	5.814E+03	0.000E+00	5.814E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.040E+00	0.000E+00	1.040E+00	CS+
21	2.601E-01	0.000E+00	2.601E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	5.218E+03	0.000E+00	5.218E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.836E+02	0.000E+00	1.836E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.744E+06	0.000E+00	3.744E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.805E+02	0.000E+00	2.805E+02	K+
32	1.132E-09	0.000E+00	1.132E-09	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	7.685E+00	0.000E+00	7.685E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.389E+05	0.000E+00	4.389E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.706E+01	0.000E+00	3.706E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.770E+04	0.000E+00	3.770E+04	NO2-
44	7.261E+05	0.000E+00	7.261E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.444E+04	0.000E+00	7.444E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	2.086E+01	0.000E+00	2.086E+01	PB+4
49	3.249E+04	0.000E+00	3.249E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	9.930E+00	0.000E+00	9.930E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.329E+04	0.000E+00	1.329E+04	SO4-2
61	1.162E-02	0.000E+00	1.162E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.323E+03	0.000E+00	2.323E+03	TOC
68	2.947E+02	0.000E+00	2.947E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	8.324E+00	0.000E+00	8.324E+00	ZRO2:2H2O
74	1.286E-03	0.000E+00	1.286E-03	C14 (Ci)
75	1.170E-02	0.000E+00	1.170E-02	Sr90 (Ci)
76	2.994E-06	0.000E+00	2.994E-06	Y90 (Ci)
77	1.634E+00	0.000E+00	1.634E+00	Tc99 (Ci)
78	2.601E-01	0.000E+00	2.601E-01	Cs137 (Ci)
79	3.972E-08	0.000E+00	3.972E-08	Ba137 (Ci)
80	4.717E+00	0.000E+00	4.717E+00	U235 (Ci)
81	7.027E+02	0.000E+00	7.027E+02	U238 (Ci)
82	3.368E-02	0.000E+00	3.368E-02	Np237 (Ci)
83	6.355E-06	0.000E+00	6.355E-06	Pu238 (Ci)
84	3.206E-02	0.000E+00	3.206E-02	Pu239 (Ci)
85	1.802E-03	0.000E+00	1.802E-03	Pu240 (Ci)
86	3.548E-05	0.000E+00	3.548E-05	Pu241 (Ci)
87	1.905E-03	0.000E+00	1.905E-03	Am241 (Ci)
88	2.973E-08	0.000E+00	2.973E-08	Cm244 (Ci)
89	5.165E+06	0.000E+00	5.165E+06	Total
Tot	5.165E+06	0.000E+00	5.165E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
126	6.344E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	5.846E+04	0.000E+00	5.846E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	6.911E+01	0.000E+00	6.911E+01	BI+3
10	4.809E+01	0.000E+00	4.809E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.299E+01	0.000E+00	1.299E+01	CE+3
14	2.422E+03	0.000E+00	2.422E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	9.441E+03	0.000E+00	9.441E+03	CO3-2
18	4.972E+03	0.000E+00	4.972E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	6.855E-01	0.000E+00	6.855E-01	CS+
21	1.714E-01	0.000E+00	1.714E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.615E+03	0.000E+00	3.615E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.563E+02	0.000E+00	1.563E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.791E+06	0.000E+00	3.791E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.099E+02	0.000E+00	3.099E+02	K+
32	0.000E+00	0.000E+00	0.000E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.559E+01	0.000E+00	1.559E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.990E+05	0.000E+00	3.990E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.018E+01	0.000E+00	3.018E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.308E+04	0.000E+00	4.308E+04	NO2-
44	6.544E+05	0.000E+00	6.544E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.996E+04	0.000E+00	6.996E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	9.613E+00	0.000E+00	9.613E+00	PB+4
49	2.903E+04	0.000E+00	2.903E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	8.438E+00	0.000E+00	8.438E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	8.715E+03	0.000E+00	8.715E+03	SO4-2
61	1.637E-02	0.000E+00	1.637E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.146E+03	0.000E+00	2.146E+03	TOC
68	3.017E+02	0.000E+00	3.017E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	6.083E+00	0.000E+00	6.083E+00	ZRO2:2H2O
74	8.819E-04	0.000E+00	8.819E-04	C14 (Ci)
75	8.899E-03	0.000E+00	8.899E-03	Sr90 (Ci)
76	2.278E-06	0.000E+00	2.278E-06	Y90 (Ci)
77	1.240E+00	0.000E+00	1.240E+00	Tc99 (Ci)
78	1.714E-01	0.000E+00	1.714E-01	Cs137 (Ci)
79	2.621E-08	0.000E+00	2.621E-08	Ba137 (Ci)
80	6.137E+00	0.000E+00	6.137E+00	U235 (Ci)
81	8.943E+02	0.000E+00	8.943E+02	U238 (Ci)
82	2.248E-02	0.000E+00	2.248E-02	Np237 (Ci)
83	4.083E-06	0.000E+00	4.083E-06	Pu238 (Ci)
84	9.404E-03	0.000E+00	9.404E-03	Pu239 (Ci)
85	4.890E-04	0.000E+00	4.890E-04	Pu240 (Ci)
86	7.495E-06	0.000E+00	7.495E-06	Pu241 (Ci)
87	1.171E-03	0.000E+00	1.171E-03	Am241 (Ci)
88	2.505E-08	0.000E+00	2.505E-08	Cm244 (Ci)
89	5.072E+06	0.000E+00	5.072E+06	Total
Tot	5.072E+06	0.000E+00	5.072E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
127	6.357E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	1.808E+04	0.000E+00	1.808E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	1.147E+02	0.000E+00	1.147E+02	BI+3
10	6.494E+01	0.000E+00	6.494E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.498E+01	0.000E+00	1.498E+01	CE+3
14	2.942E+03	0.000E+00	2.942E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.078E+04	0.000E+00	1.078E+04	CO3-2
18	3.307E+03	0.000E+00	3.307E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	9.350E-01	0.000E+00	9.350E-01	CS+
21	2.337E-01	0.000E+00	2.337E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	6.148E+03	0.000E+00	6.148E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	2.100E+02	0.000E+00	2.100E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.767E+06	0.000E+00	3.767E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.362E+02	0.000E+00	3.362E+02	K+
32	0.000E+00	0.000E+00	0.000E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.477E+01	0.000E+00	1.477E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.577E+05	0.000E+00	4.577E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	4.093E+01	0.000E+00	4.093E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.600E+04	0.000E+00	4.600E+04	NO2-
44	8.095E+05	0.000E+00	8.095E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.847E+04	0.000E+00	6.847E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.449E+01	0.000E+00	1.449E+01	PB+4
49	3.817E+04	0.000E+00	3.817E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	2.263E+01	0.000E+00	2.263E+01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.227E+04	0.000E+00	1.227E+04	SO4-2
61	1.816E-02	0.000E+00	1.816E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.565E+03	0.000E+00	2.565E+03	TOC
68	3.525E+02	0.000E+00	3.525E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.379E+01	0.000E+00	1.379E+01	ZRO2:2H2O
74	1.147E-03	0.000E+00	1.147E-03	C14 (Ci)
75	1.043E-02	0.000E+00	1.043E-02	Sr90 (Ci)
76	2.670E-06	0.000E+00	2.670E-06	Y90 (Ci)
77	1.474E+00	0.000E+00	1.474E+00	Tc99 (Ci)
78	2.337E-01	0.000E+00	2.337E-01	Cs137 (Ci)
79	3.576E-08	0.000E+00	3.576E-08	Ba137 (Ci)
80	7.542E+00	0.000E+00	7.542E+00	U235 (Ci)
81	1.138E+03	0.000E+00	1.138E+03	U238 (Ci)
82	3.125E-02	0.000E+00	3.125E-02	Np237 (Ci)
83	7.560E-06	0.000E+00	7.560E-06	Pu238 (Ci)
84	1.317E-02	0.000E+00	1.317E-02	Pu239 (Ci)
85	6.764E-04	0.000E+00	6.764E-04	Pu240 (Ci)
86	9.215E-06	0.000E+00	9.215E-06	Pu241 (Ci)
87	1.153E-03	0.000E+00	1.153E-03	Am241 (Ci)
88	2.764E-08	0.000E+00	2.764E-08	Cm244 (Ci)
89	5.245E+06	0.000E+00	5.245E+06	Total
Tot	5.245E+06	0.000E+00	5.245E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
128	6.374E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	5.428E+04	0.000E+00	5.428E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	6.257E+01	0.000E+00	6.257E+01	BI+3
10	4.673E+01	0.000E+00	4.673E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.440E+01	0.000E+00	1.440E+01	CE+3
14	2.614E+03	0.000E+00	2.614E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.028E+04	0.000E+00	1.028E+04	CO3-2
18	5.076E+03	0.000E+00	5.076E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	4.001E-01	0.000E+00	4.001E-01	CS+
21	1.000E-01	0.000E+00	1.000E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.539E+03	0.000E+00	3.539E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.592E+02	0.000E+00	1.592E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.770E+06	0.000E+00	3.770E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.171E+02	0.000E+00	3.171E+02	K+
32	0.000E+00	0.000E+00	0.000E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.908E+01	0.000E+00	1.908E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.265E+05	0.000E+00	4.265E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.957E+01	0.000E+00	2.957E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.461E+04	0.000E+00	4.461E+04	NO2-
44	7.150E+05	0.000E+00	7.150E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.338E+04	0.000E+00	7.338E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	3.910E+00	0.000E+00	3.910E+00	PB+4
49	2.844E+04	0.000E+00	2.844E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	2.388E+01	0.000E+00	2.388E+01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.578E+03	0.000E+00	7.578E+03	SO4-2
61	2.212E-02	0.000E+00	2.212E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.484E+03	0.000E+00	2.484E+03	TOC
68	3.336E+02	0.000E+00	3.336E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.303E+01	0.000E+00	1.303E+01	ZRO2:2H2O
74	5.189E-04	0.000E+00	5.189E-04	C14 (Ci)
75	9.912E-03	0.000E+00	9.912E-03	Sr90 (Ci)
76	2.537E-06	0.000E+00	2.537E-06	Y90 (Ci)
77	7.766E-01	0.000E+00	7.766E-01	Tc99 (Ci)
78	1.000E-01	0.000E+00	1.000E-01	Cs137 (Ci)
79	1.530E-08	0.000E+00	1.530E-08	Ba137 (Ci)
80	7.164E+00	0.000E+00	7.164E+00	U235 (Ci)
81	1.055E+03	0.000E+00	1.055E+03	U238 (Ci)
82	1.167E-02	0.000E+00	1.167E-02	Np237 (Ci)
83	7.613E-06	0.000E+00	7.613E-06	Pu238 (Ci)
84	1.314E-02	0.000E+00	1.314E-02	Pu239 (Ci)
85	6.845E-04	0.000E+00	6.845E-04	Pu240 (Ci)
86	9.413E-06	0.000E+00	9.413E-06	Pu241 (Ci)
87	1.100E-03	0.000E+00	1.100E-03	Am241 (Ci)
88	1.657E-08	0.000E+00	1.657E-08	Cm244 (Ci)
89	5.143E+06	0.000E+00	5.143E+06	Total
Tot	5.143E+06	0.000E+00	5.143E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
129	6.367E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.691E+04	0.000E+00	3.691E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	1.247E+02	0.000E+00	1.247E+02	BI+3
10	5.498E+01	0.000E+00	5.498E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.059E+01	0.000E+00	1.059E+01	CE+3
14	2.962E+03	0.000E+00	2.962E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	7.675E+03	0.000E+00	7.675E+03	CO3-2
18	2.552E+03	0.000E+00	2.552E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	9.615E-01	0.000E+00	9.615E-01	CS+
21	2.404E-01	0.000E+00	2.404E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	7.943E+03	0.000E+00	7.943E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.791E+02	0.000E+00	1.791E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.853E+06	0.000E+00	3.853E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.503E+02	0.000E+00	2.503E+02	K+
32	0.000E+00	0.000E+00	0.000E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	6.547E+00	0.000E+00	6.547E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.176E+05	0.000E+00	4.176E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.448E+01	0.000E+00	3.448E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.490E+04	0.000E+00	3.490E+04	NO2-
44	5.981E+05	0.000E+00	5.981E+05	NO3-

Fri Sep 06 11:38:07 1996 **CASE.250.llw**

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	8.429E+04	0.000E+00	8.429E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.924E+01	0.000E+00	1.924E+01	PB+4
49	5.977E+04	0.000E+00	5.977E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.041E+00	0.000E+00	1.041E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.295E+04	0.000E+00	1.295E+04	SO4-2
61	6.373E-03	0.000E+00	6.373E-03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.797E+03	0.000E+00	1.797E+03	TOC
68	3.511E+02	0.000E+00	3.511E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	2.281E+01	0.000E+00	2.281E+01	ZRO2:2H2O
74	1.263E-03	0.000E+00	1.263E-03	C14 (Ci)
75	3.769E-03	0.000E+00	3.769E-03	Sr90 (Ci)
76	9.648E-07	0.000E+00	9.648E-07	Y90 (Ci)
77	1.484E+00	0.000E+00	1.484E+00	Tc99 (Ci)
78	2.404E-01	0.000E+00	2.404E-01	Cs137 (Ci)
79	3.681E-08	0.000E+00	3.681E-08	Ba137 (Ci)
80	1.255E+00	0.000E+00	1.255E+00	U235 (Ci)
81	1.844E+02	0.000E+00	1.844E+02	U238 (Ci)
82	3.431E-02	0.000E+00	3.431E-02	Np237 (Ci)
83	1.117E-06	0.000E+00	1.117E-06	Pu238 (Ci)
84	5.863E-03	0.000E+00	5.863E-03	Pu239 (Ci)
85	1.467E-04	0.000E+00	1.467E-04	Pu240 (Ci)
86	9.805E-07	0.000E+00	9.805E-07	Pu241 (Ci)
87	4.554E-04	0.000E+00	4.554E-04	Am241 (Ci)
88	1.877E-08	0.000E+00	1.877E-08	Cm244 (Ci)
89	5.120E+06	0.000E+00	5.120E+06	Total
Tot	5.120E+06	0.000E+00	5.120E+06	

 Fri Sep 06 11:38:07 1996 **CASE.250.llw**

Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
130	6.408E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.058E+04	0.000E+00	3.058E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	7.331E+01	0.000E+00	7.331E+01	BI+3
10	5.421E+01	0.000E+00	5.421E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.577E+01	0.000E+00	1.577E+01	CE+3
14	3.288E+03	0.000E+00	3.288E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.224E+04	0.000E+00	1.224E+04	CO3-2
18	3.769E+03	0.000E+00	3.769E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	6.561E-01	0.000E+00	6.561E-01	CS+
21	1.640E-01	0.000E+00	1.640E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.773E+03	0.000E+00	3.773E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.713E+02	0.000E+00	1.713E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.731E+06	0.000E+00	3.731E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.895E+02	0.000E+00	3.895E+02	K+
32	0.000E+00	0.000E+00	0.000E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	2.419E+01	0.000E+00	2.419E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.654E+05	0.000E+00	4.654E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.381E+01	0.000E+00	3.381E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	5.750E+04	0.000E+00	5.750E+04	NO2-
44	8.358E+05	0.000E+00	8.358E+05	NO3-

 Fri Sep 06 11:38:07 1996 **CASE.250.llw**

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.900E+04	0.000E+00	6.900E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	3.393E+00	0.000E+00	3.393E+00	PB+4
49	2.649E+04	0.000E+00	2.649E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	6.159E+00	0.000E+00	6.159E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	9.653E+03	0.000E+00	9.653E+03	SO4-2
61	2.485E-02	0.000E+00	2.485E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.871E+03	0.000E+00	2.871E+03	TOC
68	5.463E+02	0.000E+00	5.463E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	5.423E+00	0.000E+00	5.423E+00	ZRO2:2H2O
74	1.323E-03	0.000E+00	1.323E-03	C14 (Ci)
75	7.168E-03	0.000E+00	7.168E-03	Sr90 (Ci)
76	1.835E-06	0.000E+00	1.835E-06	Y90 (Ci)
77	2.126E+00	0.000E+00	2.126E+00	Tc99 (Ci)
78	1.640E-01	0.000E+00	1.640E-01	Cs137 (Ci)
79	2.511E-08	0.000E+00	2.511E-08	Ba137 (Ci)
80	2.182E+00	0.000E+00	2.182E+00	U235 (Ci)
81	3.232E+02	0.000E+00	3.232E+02	U238 (Ci)
82	3.802E-02	0.000E+00	3.802E-02	Np237 (Ci)
83	2.331E-06	0.000E+00	2.331E-06	Pu238 (Ci)
84	4.077E-03	0.000E+00	4.077E-03	Pu239 (Ci)
85	1.917E-04	0.000E+00	1.917E-04	Pu240 (Ci)
86	2.457E-06	0.000E+00	2.457E-06	Pu241 (Ci)
87	7.963E-04	0.000E+00	7.963E-04	Am241 (Ci)
88	1.844E-08	0.000E+00	1.844E-08	Cm244 (Ci)
89	5.252E+06	0.000E+00	5.252E+06	Total
Tot	5.252E+06	0.000E+00	5.252E+06	

 Fri Sep 06 11:38:07 1996 **CASE.250.llw**

Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
131	6.415E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	5.370E+04	0.000E+00	5.370E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	7.584E+01	0.000E+00	7.584E+01	BI+3
10	4.414E+01	0.000E+00	4.414E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.005E-01	0.000E+00	1.005E-01	CE+3
14	2.371E+03	0.000E+00	2.371E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	8.167E+03	0.000E+00	8.167E+03	CO3-2
18	3.942E+03	0.000E+00	3.942E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	5.419E-01	0.000E+00	5.419E-01	CS+
21	1.355E-01	0.000E+00	1.355E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	4.452E+03	0.000E+00	4.452E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.437E+02	0.000E+00	1.437E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.627E+06	0.000E+00	3.627E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.638E+02	0.000E+00	2.638E+02	K+
32	2.504E-02	0.000E+00	2.504E-02	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.223E+01	0.000E+00	1.223E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.821E+05	0.000E+00	3.821E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.772E+01	0.000E+00	2.772E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.599E+04	0.000E+00	3.599E+04	NO2-
44	5.780E+05	0.000E+00	5.780E+05	NO3-

 Fri Sep 06 11:38:07 1996 **CASE.250.llw**

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.222E+04	0.000E+00	7.222E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	9.712E+00	0.000E+00	9.712E+00	PB+4
49	4.388E+04	0.000E+00	4.388E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	7.179E+00	0.000E+00	7.179E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	8.899E+03	0.000E+00	8.899E+03	SO4-2
61	4.888E-01	0.000E+00	4.888E-01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.932E+03	0.000E+00	1.932E+03	TOC
68	3.480E+02	0.000E+00	3.480E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	9.928E+00	0.000E+00	9.928E+00	ZRO2:2H2O
74	8.040E-04	0.000E+00	8.040E-04	C14 (Ci)
75	5.894E-03	0.000E+00	5.894E-03	Sr90 (Ci)
76	1.509E-06	0.000E+00	1.509E-06	Y90 (Ci)
77	1.068E+00	0.000E+00	1.068E+00	Tc99 (Ci)
78	1.355E-01	0.000E+00	1.355E-01	Cs137 (Ci)
79	2.074E-08	0.000E+00	2.074E-08	Ba137 (Ci)
80	4.451E+00	0.000E+00	4.451E+00	U235 (Ci)
81	6.582E+02	0.000E+00	6.582E+02	U238 (Ci)
82	2.175E-02	0.000E+00	2.175E-02	Np237 (Ci)
83	3.023E-06	0.000E+00	3.023E-06	Pu238 (Ci)
84	9.372E-03	0.000E+00	9.372E-03	Pu239 (Ci)
85	4.896E-04	0.000E+00	4.896E-04	Pu240 (Ci)
86	1.072E-05	0.000E+00	1.072E-05	Pu241 (Ci)
87	6.218E-04	0.000E+00	6.218E-04	Am241 (Ci)
88	1.404E-08	0.000E+00	1.404E-08	Cm244 (Ci)
89	5.022E+06	0.000E+00	5.022E+06	Total
Tot	5.022E+06	0.000E+00	5.022E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
132	6.430E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.213E+04	0.000E+00	3.213E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	4.384E+01	0.000E+00	4.384E+01	BI+3
10	3.056E+01	0.000E+00	3.056E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	8.173E+00	0.000E+00	8.173E+00	CE+3
14	1.935E+03	0.000E+00	1.935E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	7.698E+03	0.000E+00	7.698E+03	CO3-2
18	1.971E+03	0.000E+00	1.971E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	5.422E-01	0.000E+00	5.422E-01	CS+
21	1.356E-01	0.000E+00	1.356E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	6.221E+03	0.000E+00	6.221E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.037E+02	0.000E+00	1.037E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.896E+06	0.000E+00	3.896E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.431E+02	0.000E+00	3.431E+02	K+
32	7.549E-01	0.000E+00	7.549E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.229E+01	0.000E+00	1.229E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.081E+05	0.000E+00	3.081E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.945E+01	0.000E+00	1.945E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.168E+04	0.000E+00	3.168E+04	NO2-
44	4.639E+05	0.000E+00	4.639E+05	NO3-

 Fri Sep 06 11:38:07 1996 **CASE.250.llw**

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.250E+04	0.000E+00	6.250E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	6.133E+00	0.000E+00	6.133E+00	PB+4
49	2.780E+04	0.000E+00	2.780E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	4.536E+00	0.000E+00	4.536E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.281E+03	0.000E+00	7.281E+03	SO4-2
61	1.437E+01	0.000E+00	1.437E+01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.153E+03	0.000E+00	2.153E+03	TOC
68	9.321E-02	0.000E+00	9.321E-02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	4.770E+00	0.000E+00	4.770E+00	ZRO2:2H2O
74	9.767E-04	0.000E+00	9.767E-04	C14 (Ci)
75	2.444E-03	0.000E+00	2.444E-03	Sr90 (Ci)
76	6.256E-07	0.000E+00	6.256E-07	Y90 (Ci)
77	1.155E+00	0.000E+00	1.155E+00	Tc99 (Ci)
78	1.356E-01	0.000E+00	1.356E-01	Cs137 (Ci)
79	2.073E-08	0.000E+00	2.073E-08	Ba137 (Ci)
80	1.920E+00	0.000E+00	1.920E+00	U235 (Ci)
81	2.771E+02	0.000E+00	2.771E+02	U238 (Ci)
82	1.537E-02	0.000E+00	1.537E-02	Np237 (Ci)
83	4.490E-06	0.000E+00	4.490E-06	Pu238 (Ci)
84	3.182E-02	0.000E+00	3.182E-02	Pu239 (Ci)
85	2.118E-03	0.000E+00	2.118E-03	Pu240 (Ci)
86	7.326E-05	0.000E+00	7.326E-05	Pu241 (Ci)
87	1.493E-03	0.000E+00	1.493E-03	Am241 (Ci)
88	2.309E-08	0.000E+00	2.309E-08	Cm244 (Ci)
89	4.850E+06	0.000E+00	4.850E+06	Total
Tot	4.850E+06	0.000E+00	4.850E+06	

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Fri Sep 06 11:38:07 1996 CASE.250.llw

Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
133	6.436E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.131E+04	0.000E+00	3.131E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	1.141E+02	0.000E+00	1.141E+02	BI+3
10	5.323E-01	0.000E+00	5.323E-01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	6.588E+00	0.000E+00	6.588E+00	CE+3
14	2.008E+03	0.000E+00	2.008E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	5.971E+03	0.000E+00	5.971E+03	CO3-2
18	2.675E+03	0.000E+00	2.675E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.047E+00	0.000E+00	1.047E+00	CS+
21	2.617E-01	0.000E+00	2.617E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	6.036E+03	0.000E+00	6.036E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.595E+02	0.000E+00	1.595E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.895E+06	0.000E+00	3.895E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.101E+02	0.000E+00	2.101E+02	K+
32	0.000E+00	0.000E+00	0.000E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	2.232E+00	0.000E+00	2.232E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.278E+05	0.000E+00	3.278E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.331E-01	0.000E+00	3.331E-01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.662E+04	0.000E+00	2.662E+04	NO2-
44	5.029E+05	0.000E+00	5.029E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	5.937E+04	0.000E+00	5.937E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	2.233E+01	0.000E+00	2.233E+01	PB+4
49	4.246E+04	0.000E+00	4.246E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.114E+00	0.000E+00	1.114E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.229E+04	0.000E+00	1.229E+04	SO4-2
61	2.438E-03	0.000E+00	2.438E-03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.399E+03	0.000E+00	1.399E+03	TOC
68	2.368E+02	0.000E+00	2.368E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	6.510E+00	0.000E+00	6.510E+00	ZRO2:2H2O
74	1.271E-03	0.000E+00	1.271E-03	C14 (Ci)
75	3.845E-03	0.000E+00	3.845E-03	Sr90 (Ci)
76	9.843E-07	0.000E+00	9.843E-07	Y90 (Ci)
77	1.487E+00	0.000E+00	1.487E+00	Tc99 (Ci)
78	2.617E-01	0.000E+00	2.617E-01	Cs137 (Ci)
79	4.004E-08	0.000E+00	4.004E-08	Ba137 (Ci)
80	2.603E+00	0.000E+00	2.603E+00	U235 (Ci)
81	3.793E+02	0.000E+00	3.793E+02	U238 (Ci)
82	3.798E-02	0.000E+00	3.798E-02	Np237 (Ci)
83	1.118E-06	0.000E+00	1.118E-06	Pu238 (Ci)
84	4.256E-03	0.000E+00	4.256E-03	Pu239 (Ci)
85	1.937E-04	0.000E+00	1.937E-04	Pu240 (Ci)
86	1.397E-06	0.000E+00	1.397E-06	Pu241 (Ci)
87	3.564E-04	0.000E+00	3.564E-04	Am241 (Ci)
88	2.324E-08	0.000E+00	2.324E-08	Cm244 (Ci)
89	4.916E+06	0.000E+00	4.916E+06	Total
Tot	4.916E+06	0.000E+00	4.916E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
134	6.462E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.081E+04	0.000E+00	2.081E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	7.434E+01	0.000E+00	7.434E+01	BI+3
10	5.849E-01	0.000E+00	5.849E-01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.564E+01	0.000E+00	1.564E+01	CE+3
14	3.157E+03	0.000E+00	3.157E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.177E+04	0.000E+00	1.177E+04	CO3-2
18	3.053E+03	0.000E+00	3.053E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.318E+00	0.000E+00	1.318E+00	CS+
21	3.295E-01	0.000E+00	3.295E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	5.125E+03	0.000E+00	5.125E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.872E+02	0.000E+00	1.872E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.742E+06	0.000E+00	3.742E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	4.084E+02	0.000E+00	4.084E+02	K+
32	2.518E-01	0.000E+00	2.518E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.762E+01	0.000E+00	1.762E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.504E+05	0.000E+00	4.504E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.680E-01	0.000E+00	3.680E-01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	5.184E+04	0.000E+00	5.184E+04	NO2-
44	8.353E+05	0.000E+00	8.353E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.335E+04	0.000E+00	6.335E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.353E+01	0.000E+00	1.353E+01	PB+4
49	2.158E+04	0.000E+00	2.158E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	6.502E+00	0.000E+00	6.502E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.278E+04	0.000E+00	1.278E+04	SO4-2
61	4.797E+00	0.000E+00	4.797E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.896E+03	0.000E+00	2.896E+03	TOC
68	7.327E+02	0.000E+00	7.327E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	4.994E+00	0.000E+00	4.994E+00	ZRO2:2H2O
74	1.836E-03	0.000E+00	1.836E-03	C14 (Ci)
75	5.633E-03	0.000E+00	5.633E-03	Sr90 (Ci)
76	1.442E-06	0.000E+00	1.442E-06	Y90 (Ci)
77	2.671E+00	0.000E+00	2.671E+00	Tc99 (Ci)
78	3.295E-01	0.000E+00	3.295E-01	Cs137 (Ci)
79	5.040E-08	0.000E+00	5.040E-08	Ba137 (Ci)
80	3.571E+00	0.000E+00	3.571E+00	U235 (Ci)
81	5.323E+02	0.000E+00	5.323E+02	U238 (Ci)
82	3.536E-02	0.000E+00	3.536E-02	Np237 (Ci)
83	3.468E-06	0.000E+00	3.468E-06	Pu238 (Ci)
84	1.347E-02	0.000E+00	1.347E-02	Pu239 (Ci)
85	8.437E-04	0.000E+00	8.437E-04	Pu240 (Ci)
86	2.607E-05	0.000E+00	2.607E-05	Pu241 (Ci)
87	2.606E-03	0.000E+00	2.606E-03	Am241 (Ci)
88	5.431E-08	0.000E+00	5.431E-08	Cm244 (Ci)
89	5.225E+06	0.000E+00	5.225E+06	Total
Tot	5.225E+06	0.000E+00	5.225E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
135	6.467E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.910E+04	0.000E+00	2.910E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	4.557E+01	0.000E+00	4.557E+01	BI+3
10	4.256E-01	0.000E+00	4.256E-01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.453E+01	0.000E+00	1.453E+01	CE+3
14	2.609E+03	0.000E+00	2.609E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.022E+04	0.000E+00	1.022E+04	CO3-2
18	2.867E+03	0.000E+00	2.867E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.148E+00	0.000E+00	1.148E+00	CS+
21	2.869E-01	0.000E+00	2.869E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	2.863E+03	0.000E+00	2.863E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.350E+02	0.000E+00	1.350E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.785E+06	0.000E+00	3.785E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.314E+02	0.000E+00	3.314E+02	K+
32	9.561E-02	0.000E+00	9.561E-02	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.866E+01	0.000E+00	1.866E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.980E+05	0.000E+00	3.980E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.668E-01	0.000E+00	2.668E-01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.539E+04	0.000E+00	4.539E+04	NO2-
44	6.850E+05	0.000E+00	6.850E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.010E+04	0.000E+00	7.010E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	4.727E+00	0.000E+00	4.727E+00	PB+4
49	1.953E+04	0.000E+00	1.953E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	5.414E+00	0.000E+00	5.414E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	8.719E+03	0.000E+00	8.719E+03	SO4-2
61	1.826E+00	0.000E+00	1.826E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.453E+03	0.000E+00	2.453E+03	TOC
68	5.562E+02	0.000E+00	5.562E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	3.815E+00	0.000E+00	3.815E+00	ZRO2:2H2O
74	1.605E-03	0.000E+00	1.605E-03	C14 (Ci)
75	4.421E-03	0.000E+00	4.421E-03	Sr90 (Ci)
76	1.132E-06	0.000E+00	1.132E-06	Y90 (Ci)
77	2.509E+00	0.000E+00	2.509E+00	Tc99 (Ci)
78	2.869E-01	0.000E+00	2.869E-01	Cs137 (Ci)
79	4.386E-08	0.000E+00	4.386E-08	Ba137 (Ci)
80	2.810E+00	0.000E+00	2.810E+00	U235 (Ci)
81	4.228E+02	0.000E+00	4.228E+02	U238 (Ci)
82	2.869E-02	0.000E+00	2.869E-02	Np237 (Ci)
83	2.267E-06	0.000E+00	2.267E-06	Pu238 (Ci)
84	6.253E-03	0.000E+00	6.253E-03	Pu239 (Ci)
85	3.792E-04	0.000E+00	3.792E-04	Pu240 (Ci)
86	1.066E-05	0.000E+00	1.066E-05	Pu241 (Ci)
87	2.602E-03	0.000E+00	2.602E-03	Am241 (Ci)
88	5.309E-08	0.000E+00	5.309E-08	Cm244 (Ci)
89	5.063E+06	0.000E+00	5.063E+06	Total
Tot	5.063E+06	0.000E+00	5.063E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
136	6.490E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.057E+04	0.000E+00	2.057E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	6.056E+01	0.000E+00	6.056E+01	BI+3
10	4.361E-01	0.000E+00	4.361E-01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.273E+01	0.000E+00	1.273E+01	CE+3
14	2.616E+03	0.000E+00	2.616E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.046E+04	0.000E+00	1.046E+04	CO3-2
18	2.224E+03	0.000E+00	2.224E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	9.608E-01	0.000E+00	9.608E-01	CS+
21	2.402E-01	0.000E+00	2.402E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	8.566E+03	0.000E+00	8.566E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.511E+02	0.000E+00	1.511E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.836E+06	0.000E+00	3.836E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	4.655E+02	0.000E+00	4.655E+02	K+
32	1.011E+00	0.000E+00	1.011E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.482E+01	0.000E+00	1.482E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.828E+05	0.000E+00	3.828E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.780E-01	0.000E+00	2.780E-01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.176E+04	0.000E+00	4.176E+04	NO2-
44	6.432E+05	0.000E+00	6.432E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.812E+04	0.000E+00	6.812E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.206E+01	0.000E+00	1.206E+01	PB+4
49	2.093E+04	0.000E+00	2.093E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	3.969E+00	0.000E+00	3.969E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.143E+04	0.000E+00	1.143E+04	SO4-2
61	1.923E+01	0.000E+00	1.923E+01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.971E+03	0.000E+00	2.971E+03	TOC
68	1.214E+03	0.000E+00	1.214E+03	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	8.175E+00	0.000E+00	8.175E+00	ZRO2:2H2O
74	1.564E-03	0.000E+00	1.564E-03	C14 (Ci)
75	3.602E-03	0.000E+00	3.602E-03	Sr90 (Ci)
76	9.220E-07	0.000E+00	9.220E-07	Y90 (Ci)
77	1.921E+00	0.000E+00	1.921E+00	Tc99 (Ci)
78	2.402E-01	0.000E+00	2.402E-01	Cs137 (Ci)
79	3.674E-08	0.000E+00	3.674E-08	Ba137 (Ci)
80	4.654E+00	0.000E+00	4.654E+00	U235 (Ci)
81	6.872E+02	0.000E+00	6.872E+02	U238 (Ci)
82	2.588E-02	0.000E+00	2.588E-02	Np237 (Ci)
83	5.729E-06	0.000E+00	5.729E-06	Pu238 (Ci)
84	4.124E-02	0.000E+00	4.124E-02	Pu239 (Ci)
85	2.733E-03	0.000E+00	2.733E-03	Pu240 (Ci)
86	9.421E-05	0.000E+00	9.421E-05	Pu241 (Ci)
87	2.368E-03	0.000E+00	2.368E-03	Am241 (Ci)
88	4.066E-08	0.000E+00	4.066E-08	Cm244 (Ci)
89	5.053E+06	0.000E+00	5.053E+06	Total
Tot	5.053E+06	0.000E+00	5.053E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
137	6.499E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.427E+04	0.000E+00	2.427E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	7.231E+01	0.000E+00	7.231E+01	BI+3
10	5.157E+01	0.000E+00	5.157E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	2.009E+01	0.000E+00	2.009E+01	CE+3
14	3.011E+03	0.000E+00	3.011E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.160E+04	0.000E+00	1.160E+04	CO3-2
18	2.709E+03	0.000E+00	2.709E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.880E+00	0.000E+00	1.880E+00	CS+
21	4.700E-01	0.000E+00	4.700E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	1.052E+04	0.000E+00	1.052E+04	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.684E+02	0.000E+00	1.684E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.769E+06	0.000E+00	3.769E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	5.435E+02	0.000E+00	5.435E+02	K+
32	1.208E+00	0.000E+00	1.208E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.629E+01	0.000E+00	1.629E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.521E+05	0.000E+00	4.521E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.280E+01	0.000E+00	3.280E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.765E+04	0.000E+00	4.765E+04	NO2-
44	7.780E+05	0.000E+00	7.780E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.737E+04	0.000E+00	7.737E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.548E+01	0.000E+00	1.548E+01	PB+4
49	2.151E+04	0.000E+00	2.151E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.959E+00	0.000E+00	1.959E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.484E+04	0.000E+00	1.484E+04	SO4-2
61	2.298E+01	0.000E+00	2.298E+01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	3.622E+03	0.000E+00	3.622E+03	TOC
68	6.054E+02	0.000E+00	6.054E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.333E+01	0.000E+00	1.333E+01	ZRO2:2H2O
74	2.430E-03	0.000E+00	2.430E-03	C14 (Ci)
75	5.791E-03	0.000E+00	5.791E-03	Sr90 (Ci)
76	1.482E-06	0.000E+00	1.482E-06	Y90 (Ci)
77	3.543E+00	0.000E+00	3.543E+00	Tc99 (Ci)
78	4.700E-01	0.000E+00	4.700E-01	Cs137 (Ci)
79	7.184E-08	0.000E+00	7.184E-08	Ba137 (Ci)
80	8.218E+00	0.000E+00	8.218E+00	U235 (Ci)
81	1.240E+03	0.000E+00	1.240E+03	U238 (Ci)
82	5.208E-02	0.000E+00	5.208E-02	Np237 (Ci)
83	2.585E-06	0.000E+00	2.585E-06	Pu238 (Ci)
84	8.326E-03	0.000E+00	8.326E-03	Pu239 (Ci)
85	4.601E-04	0.000E+00	4.601E-04	Pu240 (Ci)
86	1.178E-05	0.000E+00	1.178E-05	Pu241 (Ci)
87	3.216E-03	0.000E+00	3.216E-03	Am241 (Ci)
88	7.595E-08	0.000E+00	7.595E-08	Cm244 (Ci)
89	5.217E+06	0.000E+00	5.217E+06	Total
Tot	5.217E+06	0.000E+00	5.217E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
138	6.520E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.214E+04	0.000E+00	3.214E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	5.687E+01	0.000E+00	5.687E+01	BI+3
10	4.415E+01	0.000E+00	4.415E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.894E+01	0.000E+00	1.894E+01	CE+3
14	2.777E+03	0.000E+00	2.777E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.136E+04	0.000E+00	1.136E+04	CO3-2
18	2.913E+03	0.000E+00	2.913E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	9.985E-01	0.000E+00	9.985E-01	CS+
21	2.496E-01	0.000E+00	2.496E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	4.608E+03	0.000E+00	4.608E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.457E+02	0.000E+00	1.457E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.785E+06	0.000E+00	3.785E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.705E+02	0.000E+00	3.705E+02	K+
32	2.308E-01	0.000E+00	2.308E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	2.087E+01	0.000E+00	2.087E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.249E+05	0.000E+00	4.249E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.779E+01	0.000E+00	2.779E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.724E+04	0.000E+00	4.724E+04	NO2-
44	7.055E+05	0.000E+00	7.055E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.690E+04	0.000E+00	7.690E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	2.973E+00	0.000E+00	2.973E+00	PB+4
49	2.762E+04	0.000E+00	2.762E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.047E+01	0.000E+00	1.047E+01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	8.545E+03	0.000E+00	8.545E+03	SO4-2
61	4.399E+00	0.000E+00	4.399E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.594E+03	0.000E+00	2.594E+03	TOC
68	5.364E+02	0.000E+00	5.364E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.313E+01	0.000E+00	1.313E+01	ZRO2:2H2O
74	1.531E-03	0.000E+00	1.531E-03	C14 (Ci)
75	5.058E-03	0.000E+00	5.058E-03	Sr90 (Ci)
76	1.295E-06	0.000E+00	1.295E-06	Y90 (Ci)
77	2.459E+00	0.000E+00	2.459E+00	Tc99 (Ci)
78	2.496E-01	0.000E+00	2.496E-01	Cs137 (Ci)
79	3.817E-08	0.000E+00	3.817E-08	Ba137 (Ci)
80	1.786E+00	0.000E+00	1.786E+00	U235 (Ci)
81	2.663E+02	0.000E+00	2.663E+02	U238 (Ci)
82	2.691E-02	0.000E+00	2.691E-02	Np237 (Ci)
83	3.679E-06	0.000E+00	3.679E-06	Pu238 (Ci)
84	1.125E-02	0.000E+00	1.125E-02	Pu239 (Ci)
85	6.574E-04	0.000E+00	6.574E-04	Pu240 (Ci)
86	1.731E-05	0.000E+00	1.731E-05	Pu241 (Ci)
87	2.637E-03	0.000E+00	2.637E-03	Am241 (Ci)
88	5.039E-08	0.000E+00	5.039E-08	Cm244 (Ci)
89	5.133E+06	0.000E+00	5.133E+06	Total
Tot	5.133E+06	0.000E+00	5.133E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
139	6.527E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	4.187E+04	0.000E+00	4.187E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	6.098E+01	0.000E+00	6.098E+01	BI+3
10	4.011E+01	0.000E+00	4.011E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.128E+01	0.000E+00	1.128E+01	CE+3
14	2.438E+03	0.000E+00	2.438E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	9.145E+03	0.000E+00	9.145E+03	CO3-2
18	2.788E+03	0.000E+00	2.788E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	7.224E-01	0.000E+00	7.224E-01	CS+
21	1.806E-01	0.000E+00	1.806E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	4.756E+03	0.000E+00	4.756E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.352E+02	0.000E+00	1.352E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.832E+06	0.000E+00	3.832E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.141E+02	0.000E+00	3.141E+02	K+
32	2.271E-01	0.000E+00	2.271E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.453E+01	0.000E+00	1.453E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.839E+05	0.000E+00	3.839E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.551E+01	0.000E+00	2.551E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.867E+04	0.000E+00	3.867E+04	NO2-
44	5.787E+05	0.000E+00	5.787E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.647E+04	0.000E+00	7.647E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	7.967E+00	0.000E+00	7.967E+00	PB+4
49	4.050E+04	0.000E+00	4.050E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.054E+01	0.000E+00	1.054E+01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	9.240E+03	0.000E+00	9.240E+03	SO4-2
61	4.327E+00	0.000E+00	4.327E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.325E+03	0.000E+00	2.325E+03	TOC
68	8.174E+02	0.000E+00	8.174E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.046E+01	0.000E+00	1.046E+01	ZRO2:2H2O
74	1.182E-03	0.000E+00	1.182E-03	C14 (Ci)
75	4.131E-03	0.000E+00	4.131E-03	Sr90 (Ci)
76	1.057E-06	0.000E+00	1.057E-06	Y90 (Ci)
77	1.509E+00	0.000E+00	1.509E+00	Tc99 (Ci)
78	1.806E-01	0.000E+00	1.806E-01	Cs137 (Ci)
79	2.763E-08	0.000E+00	2.763E-08	Ba137 (Ci)
80	2.313E+00	0.000E+00	2.313E+00	U235 (Ci)
81	3.391E+02	0.000E+00	3.391E+02	U238 (Ci)
82	2.293E-02	0.000E+00	2.293E-02	Np237 (Ci)
83	5.299E-06	0.000E+00	5.299E-06	Pu238 (Ci)
84	2.638E-02	0.000E+00	2.638E-02	Pu239 (Ci)
85	1.688E-03	0.000E+00	1.688E-03	Pu240 (Ci)
86	5.530E-05	0.000E+00	5.530E-05	Pu241 (Ci)
87	1.537E-03	0.000E+00	1.537E-03	Am241 (Ci)
88	2.771E-08	0.000E+00	2.771E-08	Cm244 (Ci)
89	5.023E+06	0.000E+00	5.023E+06	Total
Tot	5.023E+06	0.000E+00	5.023E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
140	6.553E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.599E+04	0.000E+00	2.599E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	9.539E+01	0.000E+00	9.539E+01	BI+3
10	6.194E+01	0.000E+00	6.194E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.651E+01	0.000E+00	1.651E+01	CE+3
14	3.192E+03	0.000E+00	3.192E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.179E+04	0.000E+00	1.179E+04	CO3-2
18	3.215E+03	0.000E+00	3.215E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.458E+00	0.000E+00	1.458E+00	CS+
21	3.644E-01	0.000E+00	3.644E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	5.548E+03	0.000E+00	5.548E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	2.011E+02	0.000E+00	2.011E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.752E+06	0.000E+00	3.752E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.868E+02	0.000E+00	3.868E+02	K+
32	7.676E-02	0.000E+00	7.676E-02	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.652E+01	0.000E+00	1.652E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.631E+05	0.000E+00	4.631E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.888E+01	0.000E+00	3.888E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	5.008E+04	0.000E+00	5.008E+04	NO2-
44	8.166E+05	0.000E+00	8.166E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.126E+04	0.000E+00	7.126E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.613E+01	0.000E+00	1.613E+01	PB+4
49	3.177E+04	0.000E+00	3.177E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	7.606E+00	0.000E+00	7.606E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.415E+04	0.000E+00	1.415E+04	SO4-2
61	1.471E+00	0.000E+00	1.471E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.757E+03	0.000E+00	2.757E+03	TOC
68	5.601E+02	0.000E+00	5.601E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	9.402E+00	0.000E+00	9.402E+00	ZRO2:2H2O
74	1.875E-03	0.000E+00	1.875E-03	C14 (Ci)
75	6.345E-03	0.000E+00	6.345E-03	Sr90 (Ci)
76	1.624E-06	0.000E+00	1.624E-06	Y90 (Ci)
77	2.672E+00	0.000E+00	2.672E+00	Tc99 (Ci)
78	3.644E-01	0.000E+00	3.644E-01	Cs137 (Ci)
79	5.573E-08	0.000E+00	5.573E-08	Ba137 (Ci)
80	4.559E+00	0.000E+00	4.559E+00	U235 (Ci)
81	6.803E+02	0.000E+00	6.803E+02	U238 (Ci)
82	3.885E-02	0.000E+00	3.885E-02	Np237 (Ci)
83	3.312E-06	0.000E+00	3.312E-06	Pu238 (Ci)
84	8.516E-03	0.000E+00	8.516E-03	Pu239 (Ci)
85	4.630E-04	0.000E+00	4.630E-04	Pu240 (Ci)
86	1.055E-05	0.000E+00	1.055E-05	Pu241 (Ci)
87	2.445E-03	0.000E+00	2.445E-03	Am241 (Ci)
88	5.575E-08	0.000E+00	5.575E-08	Cm244 (Ci)
89	5.252E+06	0.000E+00	5.252E+06	Total
Tot	5.252E+06	0.000E+00	5.252E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
141	6.554E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	4.617E+04	0.000E+00	4.617E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	6.747E+01	0.000E+00	6.747E+01	BI+3
10	3.784E+01	0.000E+00	3.784E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.457E+01	0.000E+00	1.457E+01	CE+3
14	2.250E+03	0.000E+00	2.250E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	8.430E+03	0.000E+00	8.430E+03	CO3-2
18	2.439E+03	0.000E+00	2.439E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.623E+00	0.000E+00	1.623E+00	CS+
21	4.056E-01	0.000E+00	4.056E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	6.900E+03	0.000E+00	6.900E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.410E+02	0.000E+00	1.410E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.841E+06	0.000E+00	3.841E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.496E+02	0.000E+00	3.496E+02	K+
32	5.277E-01	0.000E+00	5.277E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.256E+01	0.000E+00	1.256E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.834E+05	0.000E+00	3.834E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.433E+01	0.000E+00	2.433E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.592E+04	0.000E+00	3.592E+04	NO2-
44	5.603E+05	0.000E+00	5.603E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	8.134E+04	0.000E+00	8.134E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.063E+01	0.000E+00	1.063E+01	PB+4
49	3.881E+04	0.000E+00	3.881E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	7.626E+00	0.000E+00	7.626E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.227E+04	0.000E+00	1.227E+04	SO4-2
61	1.004E+01	0.000E+00	1.004E+01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.927E+03	0.000E+00	2.927E+03	TOC
68	4.924E+02	0.000E+00	4.924E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.392E+01	0.000E+00	1.392E+01	ZRO2:2H2O
74	1.971E-03	0.000E+00	1.971E-03	C14 (Ci)
75	5.310E-03	0.000E+00	5.310E-03	Sr90 (Ci)
76	1.359E-06	0.000E+00	1.359E-06	Y90 (Ci)
77	2.695E+00	0.000E+00	2.695E+00	Tc99 (Ci)
78	4.058E-01	0.000E+00	4.058E-01	Cs137 (Ci)
79	6.204E-08	0.000E+00	6.204E-08	Ba137 (Ci)
80	5.832E+00	0.000E+00	5.832E+00	U235 (Ci)
81	8.782E+02	0.000E+00	8.782E+02	U238 (Ci)
82	5.066E-02	0.000E+00	5.066E-02	Np237 (Ci)
83	3.627E-06	0.000E+00	3.627E-06	Pu238 (Ci)
84	9.171E-03	0.000E+00	9.171E-03	Pu239 (Ci)
85	5.090E-04	0.000E+00	5.090E-04	Pu240 (Ci)
86	1.248E-05	0.000E+00	1.248E-05	Pu241 (Ci)
87	1.833E-03	0.000E+00	1.833E-03	Am241 (Ci)
88	5.150E-08	0.000E+00	5.150E-08	Cm244 (Ci)
89	5.022E+06	0.000E+00	5.022E+06	Total
Tot	5.022E+06	0.000E+00	5.022E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
142	6.579E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.243E+04	0.000E+00	2.243E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	7.026E+01	0.000E+00	7.026E+01	BI+3
10	3.878E+01	0.000E+00	3.878E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.864E+01	0.000E+00	1.864E+01	CE+3
14	2.271E+03	0.000E+00	2.271E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	8.038E+03	0.000E+00	8.038E+03	CO3-2
18	1.880E+03	0.000E+00	1.880E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.927E+00	0.000E+00	1.927E+00	CS+
21	4.818E-01	0.000E+00	4.818E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	6.552E+03	0.000E+00	6.552E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.469E+02	0.000E+00	1.469E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.873E+06	0.000E+00	3.873E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.304E+02	0.000E+00	3.304E+02	K+
32	3.614E-01	0.000E+00	3.614E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.064E+01	0.000E+00	1.064E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.602E+05	0.000E+00	3.602E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.483E+01	0.000E+00	2.483E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.613E+04	0.000E+00	3.613E+04	NO2-
44	5.731E+05	0.000E+00	5.731E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.266E+04	0.000E+00	7.266E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.493E+01	0.000E+00	1.493E+01	PB+4
49	2.519E+04	0.000E+00	2.519E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	2.188E+00	0.000E+00	2.188E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.497E+04	0.000E+00	1.497E+04	SO4-2
61	6.878E+00	0.000E+00	6.878E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	3.158E+03	0.000E+00	3.158E+03	TOC
68	4.642E+02	0.000E+00	4.642E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.747E+01	0.000E+00	1.747E+01	ZRO2:2H2O
74	2.250E-03	0.000E+00	2.250E-03	C14 (Ci)
75	5.064E-03	0.000E+00	5.064E-03	Sr90 (Ci)
76	1.296E-06	0.000E+00	1.296E-06	Y90 (Ci)
77	3.014E+00	0.000E+00	3.014E+00	Tc99 (Ci)
78	4.818E-01	0.000E+00	4.818E-01	Cs137 (Ci)
79	7.365E-08	0.000E+00	7.365E-08	Ba137 (Ci)
80	9.911E+00	0.000E+00	9.911E+00	U235 (Ci)
81	1.497E+03	0.000E+00	1.497E+03	U238 (Ci)
82	6.164E-02	0.000E+00	6.164E-02	Np237 (Ci)
83	2.540E-06	0.000E+00	2.540E-06	Pu238 (Ci)
84	5.249E-03	0.000E+00	5.249E-03	Pu239 (Ci)
85	2.337E-04	0.000E+00	2.337E-04	Pu240 (Ci)
86	3.366E-06	0.000E+00	3.366E-06	Pu241 (Ci)
87	1.883E-03	0.000E+00	1.883E-03	Am241 (Ci)
88	6.068E-08	0.000E+00	6.068E-08	Cm244 (Ci)
89	5.000E+06	0.000E+00	5.000E+06	Total
Tot	5.000E+06	0.000E+00	5.000E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
143	6.589E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	5.541E+04	0.000E+00	5.541E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	7.698E+01	0.000E+00	7.698E+01	BI+3
10	4.453E+01	0.000E+00	4.453E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	2.429E+01	0.000E+00	2.429E+01	CE+3
14	2.932E+03	0.000E+00	2.932E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.114E+04	0.000E+00	1.114E+04	CO3-2
18	2.859E+03	0.000E+00	2.859E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.211E+00	0.000E+00	2.211E+00	CS+
21	5.528E-01	0.000E+00	5.528E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	5.774E+03	0.000E+00	5.774E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.624E+02	0.000E+00	1.624E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.760E+06	0.000E+00	3.760E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.945E+02	0.000E+00	3.945E+02	K+
32	1.165E-01	0.000E+00	1.165E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.929E+01	0.000E+00	1.929E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.807E+05	0.000E+00	4.807E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.827E+01	0.000E+00	2.827E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.928E+04	0.000E+00	4.928E+04	NO2-
44	7.116E+05	0.000E+00	7.116E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.041E+05	0.000E+00	1.041E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.113E+01	0.000E+00	1.113E+01	PB+4
49	4.230E+04	0.000E+00	4.230E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	2.763E+00	0.000E+00	2.763E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.612E+04	0.000E+00	1.612E+04	SO4-2
61	2.226E+00	0.000E+00	2.226E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	3.800E+03	0.000E+00	3.800E+03	TOC
68	5.642E+02	0.000E+00	5.642E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	2.082E+01	0.000E+00	2.082E+01	ZRO2:2H2O
74	2.524E-03	0.000E+00	2.524E-03	C14 (Ci)
75	5.405E-03	0.000E+00	5.405E-03	Sr90 (Ci)
76	1.384E-06	0.000E+00	1.384E-06	Y90 (Ci)
77	3.572E+00	0.000E+00	3.572E+00	Tc99 (Ci)
78	5.528E-01	0.000E+00	5.528E-01	Cs137 (Ci)
79	8.449E-08	0.000E+00	8.449E-08	Ba137 (Ci)
80	9.676E+00	0.000E+00	9.676E+00	U235 (Ci)
81	1.463E+03	0.000E+00	1.463E+03	U238 (Ci)
82	5.989E-02	0.000E+00	5.989E-02	Np237 (Ci)
83	2.603E-06	0.000E+00	2.603E-06	Pu238 (Ci)
84	5.863E-03	0.000E+00	5.863E-03	Pu239 (Ci)
85	2.543E-04	0.000E+00	2.543E-04	Pu240 (Ci)
86	2.942E-06	0.000E+00	2.942E-06	Pu241 (Ci)
87	2.937E-03	0.000E+00	2.937E-03	Am241 (Ci)
88	7.653E-08	0.000E+00	7.653E-08	Cm244 (Ci)
89	5.245E+06	0.000E+00	5.245E+06	Total
Tot	5.245E+06	0.000E+00	5.245E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
144	6.610E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.411E+04	0.000E+00	3.411E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	7.858E+01	0.000E+00	7.858E+01	BI+3
10	4.771E+01	0.000E+00	4.771E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	2.052E+01	0.000E+00	2.052E+01	CE+3
14	2.704E+03	0.000E+00	2.704E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	9.860E+03	0.000E+00	9.860E+03	CO3-2
18	2.839E+03	0.000E+00	2.839E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.763E+00	0.000E+00	1.763E+00	CS+
21	4.407E-01	0.000E+00	4.407E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	7.995E+03	0.000E+00	7.995E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.678E+02	0.000E+00	1.678E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.804E+06	0.000E+00	3.804E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.988E+02	0.000E+00	3.988E+02	K+
32	5.958E-01	0.000E+00	5.958E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.408E+01	0.000E+00	1.408E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.230E+05	0.000E+00	4.230E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.013E+01	0.000E+00	3.013E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.294E+04	0.000E+00	4.294E+04	NO2-
44	6.951E+05	0.000E+00	6.951E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.568E+04	0.000E+00	7.568E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.270E+01	0.000E+00	1.270E+01	PB+4
49	3.080E+04	0.000E+00	3.080E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	3.957E+00	0.000E+00	3.957E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.320E+04	0.000E+00	1.320E+04	SO4-2
61	1.133E+01	0.000E+00	1.133E+01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.956E+03	0.000E+00	2.956E+03	TOC
68	4.762E+02	0.000E+00	4.762E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.714E+01	0.000E+00	1.714E+01	ZRO2:2H2O
74	2.143E-03	0.000E+00	2.143E-03	C14 (Ci)
75	5.421E-03	0.000E+00	5.421E-03	Sr90 (Ci)
76	1.388E-06	0.000E+00	1.388E-06	Y90 (Ci)
77	3.005E+00	0.000E+00	3.005E+00	Tc99 (Ci)
78	4.407E-01	0.000E+00	4.407E-01	Cs137 (Ci)
79	6.736E-08	0.000E+00	6.736E-08	Ba137 (Ci)
80	6.112E+00	0.000E+00	6.112E+00	U235 (Ci)
81	9.195E+02	0.000E+00	9.195E+02	U238 (Ci)
82	5.074E-02	0.000E+00	5.074E-02	Np237 (Ci)
83	2.415E-06	0.000E+00	2.415E-06	Pu238 (Ci)
84	6.033E-03	0.000E+00	6.033E-03	Pu239 (Ci)
85	2.862E-04	0.000E+00	2.862E-04	Pu240 (Ci)
86	4.731E-06	0.000E+00	4.731E-06	Pu241 (Ci)
87	2.413E-03	0.000E+00	2.413E-03	Am241 (Ci)
88	6.351E-08	0.000E+00	6.351E-08	Cm244 (Ci)
89	5.146E+06	0.000E+00	5.146E+06	Total
Tot	5.146E+06	0.000E+00	5.146E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
145	6.621E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	4.162E+04	0.000E+00	4.162E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	4.232E-01	0.000E+00	4.232E-01	BI+3
10	2.674E+01	0.000E+00	2.674E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.839E+01	0.000E+00	1.839E+01	CE+3
14	1.756E+03	0.000E+00	1.756E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	6.714E+03	0.000E+00	6.714E+03	CO3-2
18	1.663E+03	0.000E+00	1.663E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.100E+00	0.000E+00	1.100E+00	CS+
21	2.749E-01	0.000E+00	2.749E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.413E+03	0.000E+00	3.413E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	9.320E+01	0.000E+00	9.320E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.909E+06	0.000E+00	3.909E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.254E+02	0.000E+00	2.254E+02	K+
32	4.633E-02	0.000E+00	4.633E-02	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.184E+01	0.000E+00	1.184E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.024E+05	0.000E+00	3.024E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.676E+01	0.000E+00	1.676E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.013E+04	0.000E+00	3.013E+04	NO2-
44	4.399E+05	0.000E+00	4.399E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.407E+04	0.000E+00	6.407E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	5.182E+00	0.000E+00	5.182E+00	PB+4
49	3.146E+04	0.000E+00	3.146E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.059E+00	0.000E+00	1.059E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	6.067E+03	0.000E+00	6.067E+03	SO4-2
61	8.697E-01	0.000E+00	8.697E-01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.987E+03	0.000E+00	1.987E+03	TOC
68	2.964E+02	0.000E+00	2.964E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.685E+01	0.000E+00	1.685E+01	ZRO2:2H2O
74	1.264E-03	0.000E+00	1.264E-03	C14 (Ci)
75	2.817E-03	0.000E+00	2.817E-03	Sr90 (Ci)
76	7.211E-07	0.000E+00	7.211E-07	Y90 (Ci)
77	1.831E+00	0.000E+00	1.831E+00	Tc99 (Ci)
78	2.749E-01	0.000E+00	2.749E-01	Cs137 (Ci)
79	4.202E-08	0.000E+00	4.202E-08	Ba137 (Ci)
80	4.139E+00	0.000E+00	4.139E+00	U235 (Ci)
81	6.253E+02	0.000E+00	6.253E+02	U238 (Ci)
82	2.819E-02	0.000E+00	2.819E-02	Np237 (Ci)
83	1.200E-06	0.000E+00	1.200E-06	Pu238 (Ci)
84	3.945E-03	0.000E+00	3.945E-03	Pu239 (Ci)
85	1.674E-04	0.000E+00	1.674E-04	Pu240 (Ci)
86	1.807E-06	0.000E+00	1.807E-06	Pu241 (Ci)
87	1.630E-03	0.000E+00	1.630E-03	Am241 (Ci)
88	3.969E-08	0.000E+00	3.969E-08	Cm244 (Ci)
89	4.842E+06	0.000E+00	4.842E+06	Total
Tot	4.842E+06	0.000E+00	4.842E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
146	6.632E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	4.628E+04	0.000E+00	4.628E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	4.393E+01	0.000E+00	4.393E+01	BI+3
10	2.602E+01	0.000E+00	2.602E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.411E+01	0.000E+00	1.411E+01	CE+3
14	1.647E+03	0.000E+00	1.647E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	6.440E+03	0.000E+00	6.440E+03	CO3-2
18	2.326E+03	0.000E+00	2.326E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.049E+00	0.000E+00	1.049E+00	CS+
21	2.621E-01	0.000E+00	2.621E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.542E+03	0.000E+00	3.542E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	9.800E+01	0.000E+00	9.800E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.912E+06	0.000E+00	3.912E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.241E+02	0.000E+00	2.241E+02	K+
32	1.067E-01	0.000E+00	1.067E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.024E+01	0.000E+00	1.024E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	2.934E+05	0.000E+00	2.934E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.650E+01	0.000E+00	1.650E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.591E+04	0.000E+00	2.591E+04	NO2-
44	4.121E+05	0.000E+00	4.121E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.623E+04	0.000E+00	6.623E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	4.394E+00	0.000E+00	4.394E+00	PB+4
49	2.965E+04	0.000E+00	2.965E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.461E+00	0.000E+00	1.461E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	8.099E+03	0.000E+00	8.099E+03	SO4-2
61	2.232E+00	0.000E+00	2.232E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.750E+03	0.000E+00	1.750E+03	TOC
68	2.948E+02	0.000E+00	2.948E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.138E+01	0.000E+00	1.138E+01	ZRO2:2H2O
74	1.240E-03	0.000E+00	1.240E-03	C14 (Ci)
75	2.989E-03	0.000E+00	2.989E-03	Sr90 (Ci)
76	7.650E-07	0.000E+00	7.650E-07	Y90 (Ci)
77	1.860E+00	0.000E+00	1.860E+00	Tc99 (Ci)
78	2.621E-01	0.000E+00	2.621E-01	Cs137 (Ci)
79	4.007E-08	0.000E+00	4.007E-08	Ba137 (Ci)
80	4.122E+00	0.000E+00	4.122E+00	U235 (Ci)
81	6.208E+02	0.000E+00	6.208E+02	U238 (Ci)
82	2.381E-02	0.000E+00	2.381E-02	Np237 (Ci)
83	1.252E-06	0.000E+00	1.252E-06	Pu238 (Ci)
84	4.465E-03	0.000E+00	4.465E-03	Pu239 (Ci)
85	1.731E-04	0.000E+00	1.731E-04	Pu240 (Ci)
86	1.937E-06	0.000E+00	1.937E-06	Pu241 (Ci)
87	1.911E-03	0.000E+00	1.911E-03	Am241 (Ci)
88	4.184E-08	0.000E+00	4.184E-08	Cm244 (Ci)
89	4.808E+06	0.000E+00	4.808E+06	Total
Tot	4.808E+06	0.000E+00	4.808E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
147	6.641E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.094E+04	0.000E+00	3.094E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	7.237E+01	0.000E+00	7.237E+01	BI+3
10	4.497E+01	0.000E+00	4.497E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	2.574E+01	0.000E+00	2.574E+01	CE+3
14	2.952E+03	0.000E+00	2.952E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.155E+04	0.000E+00	1.155E+04	CO3-2
18	2.483E+03	0.000E+00	2.483E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.396E+00	0.000E+00	2.396E+00	CS+
21	5.991E-01	0.000E+00	5.991E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	5.566E+03	0.000E+00	5.566E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.617E+02	0.000E+00	1.617E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.800E+06	0.000E+00	3.800E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.926E+02	0.000E+00	3.926E+02	K+
32	7.518E-02	0.000E+00	7.518E-02	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	2.023E+01	0.000E+00	2.023E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.450E+05	0.000E+00	4.450E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.846E+01	0.000E+00	2.846E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.982E+04	0.000E+00	4.982E+04	NO2-
44	7.232E+05	0.000E+00	7.232E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	8.537E+04	0.000E+00	8.537E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	9.863E+00	0.000E+00	9.863E+00	PB+4
49	2.889E+04	0.000E+00	2.889E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	2.046E+00	0.000E+00	2.046E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.436E+04	0.000E+00	1.436E+04	SO4-2
61	1.437E+00	0.000E+00	1.437E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	3.468E+03	0.000E+00	3.468E+03	TOC
68	5.065E+02	0.000E+00	5.065E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	2.432E+01	0.000E+00	2.432E+01	ZRO2:2H2O
74	2.648E-03	0.000E+00	2.648E-03	C14 (Ci)
75	5.813E-03	0.000E+00	5.813E-03	Sr90 (Ci)
76	1.488E-06	0.000E+00	1.488E-06	Y90 (Ci)
77	3.784E+00	0.000E+00	3.784E+00	Tc99 (Ci)
78	5.991E-01	0.000E+00	5.991E-01	Cs137 (Ci)
79	9.156E-08	0.000E+00	9.156E-08	Ba137 (Ci)
80	7.765E+00	0.000E+00	7.765E+00	U235 (Ci)
81	1.173E+03	0.000E+00	1.173E+03	U238 (Ci)
82	5.507E-02	0.000E+00	5.507E-02	Np237 (Ci)
83	2.227E-06	0.000E+00	2.227E-06	Pu238 (Ci)
84	6.402E-03	0.000E+00	6.402E-03	Pu239 (Ci)
85	2.742E-04	0.000E+00	2.742E-04	Pu240 (Ci)
86	2.986E-06	0.000E+00	2.986E-06	Pu241 (Ci)
87	3.401E-03	0.000E+00	3.401E-03	Am241 (Ci)
88	8.162E-08	0.000E+00	8.162E-08	Cm244 (Ci)
89	5.204E+06	0.000E+00	5.204E+06	Total
Tot	5.204E+06	0.000E+00	5.204E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
148	6.663E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	4.902E+04	0.000E+00	4.902E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	6.229E+01	0.000E+00	6.229E+01	BI+3
10	4.142E+01	0.000E+00	4.142E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	2.831E+01	0.000E+00	2.831E+01	CE+3
14	2.704E+03	0.000E+00	2.704E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.090E+04	0.000E+00	1.090E+04	CO3-2
18	2.668E+03	0.000E+00	2.668E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.764E+00	0.000E+00	1.764E+00	CS+
21	4.411E-01	0.000E+00	4.411E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	4.520E+03	0.000E+00	4.520E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.503E+02	0.000E+00	1.503E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.792E+06	0.000E+00	3.792E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.933E+02	0.000E+00	2.933E+02	K+
32	1.507E-02	0.000E+00	1.507E-02	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.838E+01	0.000E+00	1.838E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.282E+05	0.000E+00	4.282E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.585E+01	0.000E+00	2.585E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.234E+04	0.000E+00	4.234E+04	NO2-
44	6.761E+05	0.000E+00	6.761E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.752E+04	0.000E+00	7.752E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.854E+00	0.000E+00	1.854E+00	PB+4
49	4.256E+04	0.000E+00	4.256E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.030E+00	0.000E+00	1.030E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.001E+04	0.000E+00	1.001E+04	SO4-2
61	2.982E-01	0.000E+00	2.982E-01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.071E+03	0.000E+00	2.071E+03	TOC
68	4.126E+02	0.000E+00	4.126E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	2.316E+01	0.000E+00	2.316E+01	ZRO2:2H2O
74	1.838E-03	0.000E+00	1.838E-03	C14 (Ci)
75	5.319E-03	0.000E+00	5.319E-03	Sr90 (Ci)
76	1.362E-06	0.000E+00	1.362E-06	Y90 (Ci)
77	2.672E+00	0.000E+00	2.672E+00	Tc99 (Ci)
78	4.411E-01	0.000E+00	4.411E-01	Cs137 (Ci)
79	6.742E-08	0.000E+00	6.742E-08	Ba137 (Ci)
80	2.973E+00	0.000E+00	2.973E+00	U235 (Ci)
81	4.358E+02	0.000E+00	4.358E+02	U238 (Ci)
82	2.284E-02	0.000E+00	2.284E-02	Np237 (Ci)
83	1.121E-06	0.000E+00	1.121E-06	Pu238 (Ci)
84	9.193E-03	0.000E+00	9.193E-03	Pu239 (Ci)
85	4.066E-04	0.000E+00	4.066E-04	Pu240 (Ci)
86	6.457E-06	0.000E+00	6.457E-06	Pu241 (Ci)
87	3.142E-03	0.000E+00	3.142E-03	Am241 (Ci)
88	5.959E-08	0.000E+00	5.959E-08	Cm244 (Ci)
89	5.141E+06	0.000E+00	5.141E+06	Total
Tot	5.141E+06	0.000E+00	5.141E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
149	6.667E-03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.858E+04	0.000E+00	2.858E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	7.380E+01	0.000E+00	7.380E+01	BI+3
10	3.645E+01	0.000E+00	3.645E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	2.070E+01	0.000E+00	2.070E+01	CE+3
14	2.243E+03	0.000E+00	2.243E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	8.386E+03	0.000E+00	8.386E+03	CO3-2
18	1.837E+03	0.000E+00	1.837E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.926E+00	0.000E+00	1.926E+00	CS+
21	4.814E-01	0.000E+00	4.814E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	5.261E+03	0.000E+00	5.261E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.527E+02	0.000E+00	1.527E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.860E+06	0.000E+00	3.860E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.368E+02	0.000E+00	2.368E+02	K+
32	1.428E-02	0.000E+00	1.428E-02	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.088E+01	0.000E+00	1.088E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.594E+05	0.000E+00	3.594E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.341E+01	0.000E+00	2.341E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.203E+04	0.000E+00	3.203E+04	NO2-
44	5.460E+05	0.000E+00	5.460E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.397E+04	0.000E+00	7.397E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	9.245E+00	0.000E+00	9.245E+00	PB+4
49	3.503E+04	0.000E+00	3.503E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.750E+00	0.000E+00	1.750E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.418E+04	0.000E+00	1.418E+04	SO4-2
61	2.777E-01	0.000E+00	2.777E-01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.458E+03	0.000E+00	2.458E+03	TOC
68	4.212E+02	0.000E+00	4.212E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.955E+01	0.000E+00	1.955E+01	ZRO2:2H2O
74	1.964E-03	0.000E+00	1.964E-03	C14 (Ci)
75	5.505E-03	0.000E+00	5.505E-03	Sr90 (Ci)
76	1.409E-06	0.000E+00	1.409E-06	Y90 (Ci)
77	2.632E+00	0.000E+00	2.632E+00	Tc99 (Ci)
78	4.814E-01	0.000E+00	4.814E-01	Cs137 (Ci)
79	7.359E-08	0.000E+00	7.359E-08	Ba137 (Ci)
80	8.690E+00	0.000E+00	8.690E+00	U235 (Ci)
81	1.304E+03	0.000E+00	1.304E+03	U238 (Ci)
82	4.062E-02	0.000E+00	4.062E-02	Np237 (Ci)
83	2.082E-06	0.000E+00	2.082E-06	Pu238 (Ci)
84	8.591E-03	0.000E+00	8.591E-03	Pu239 (Ci)
85	3.111E-04	0.000E+00	3.111E-04	Pu240 (Ci)
86	2.781E-06	0.000E+00	2.781E-06	Pu241 (Ci)
87	2.219E-03	0.000E+00	2.219E-03	Am241 (Ci)
88	5.367E-08	0.000E+00	5.367E-08	Cm244 (Ci)
89	4.992E+06	0.000E+00	4.992E+06	Total
Tot	4.992E+06	0.000E+00	4.992E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
150	6.666E-03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.897E+04	0.000E+00	3.897E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	6.403E+01	0.000E+00	6.403E+01	BI+3
10	3.276E+01	0.000E+00	3.276E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.724E+01	0.000E+00	1.724E+01	CE+3
14	2.006E+03	0.000E+00	2.006E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	6.543E+03	0.000E+00	6.543E+03	CO3-2
18	1.752E+03	0.000E+00	1.752E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.116E+00	0.000E+00	1.116E+00	CS+
21	2.790E-01	0.000E+00	2.790E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	4.557E+03	0.000E+00	4.557E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.328E+02	0.000E+00	1.328E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.899E+06	0.000E+00	3.899E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.348E+02	0.000E+00	2.348E+02	K+
32	1.150E-02	0.000E+00	1.150E-02	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.090E+01	0.000E+00	1.090E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.432E+05	0.000E+00	3.432E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.083E+01	0.000E+00	2.083E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.993E+04	0.000E+00	2.993E+04	NO2-
44	4.695E+05	0.000E+00	4.695E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.798E+04	0.000E+00	7.798E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	8.738E+00	0.000E+00	8.738E+00	PB+4
49	4.340E+04	0.000E+00	4.340E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.103E+00	0.000E+00	1.103E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.224E+04	0.000E+00	1.224E+04	SO4-2
61	2.276E-01	0.000E+00	2.276E-01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.923E+03	0.000E+00	1.923E+03	TOC
68	6.927E+02	0.000E+00	6.927E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.692E+01	0.000E+00	1.692E+01	ZRO2:2H2O
74	1.863E-03	0.000E+00	1.863E-03	C14 (Ci)
75	5.905E-03	0.000E+00	5.905E-03	Sr90 (Ci)
76	1.512E-06	0.000E+00	1.512E-06	Y90 (Ci)
77	1.845E+00	0.000E+00	1.845E+00	Tc99 (Ci)
78	2.790E-01	0.000E+00	2.790E-01	Cs137 (Ci)
79	4.264E-08	0.000E+00	4.264E-08	Ba137 (Ci)
80	4.189E+00	0.000E+00	4.189E+00	U235 (Ci)
81	6.165E+02	0.000E+00	6.165E+02	U238 (Ci)
82	2.480E-02	0.000E+00	2.480E-02	Np237 (Ci)
83	1.267E-06	0.000E+00	1.267E-06	Pu238 (Ci)
84	7.664E-03	0.000E+00	7.664E-03	Pu239 (Ci)
85	2.614E-04	0.000E+00	2.614E-04	Pu240 (Ci)
86	2.188E-06	0.000E+00	2.188E-06	Pu241 (Ci)
87	1.866E-03	0.000E+00	1.866E-03	Am241 (Ci)
88	4.112E-08	0.000E+00	4.112E-08	Cm244 (Ci)
89	4.933E+06	0.000E+00	4.933E+06	Total
Tot	4.933E+06	0.000E+00	4.933E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
151	6.698E-03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.525E+04	0.000E+00	2.525E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	1.167E+02	0.000E+00	1.167E+02	BI+3
10	4.789E+01	0.000E+00	4.789E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	2.238E+01	0.000E+00	2.238E+01	CE+3
14	2.547E+03	0.000E+00	2.547E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	8.865E+03	0.000E+00	8.865E+03	CO3-2
18	2.026E+03	0.000E+00	2.026E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.698E+00	0.000E+00	1.698E+00	CS+
21	4.245E-01	0.000E+00	4.245E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	7.761E+03	0.000E+00	7.761E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.912E+02	0.000E+00	1.912E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.846E+06	0.000E+00	3.846E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.555E+02	0.000E+00	2.555E+02	K+
32	7.156E-03	0.000E+00	7.156E-03	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	8.815E+00	0.000E+00	8.815E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.212E+05	0.000E+00	4.212E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.079E+01	0.000E+00	3.079E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.502E+04	0.000E+00	3.502E+04	NO2-
44	6.372E+05	0.000E+00	6.372E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	8.809E+04	0.000E+00	8.809E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.542E+01	0.000E+00	1.542E+01	PB+4
49	4.404E+04	0.000E+00	4.404E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	3.234E+00	0.000E+00	3.234E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.912E+04	0.000E+00	1.912E+04	SO4-2
61	1.418E-01	0.000E+00	1.418E-01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	3.134E+03	0.000E+00	3.134E+03	TOC
68	4.994E+02	0.000E+00	4.994E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	2.075E+01	0.000E+00	2.075E+01	ZRO2:2H2O
74	1.845E-03	0.000E+00	1.845E-03	C14 (Ci)
75	4.713E-03	0.000E+00	4.713E-03	Sr90 (Ci)
76	1.206E-06	0.000E+00	1.206E-06	Y90 (Ci)
77	2.537E+00	0.000E+00	2.537E+00	Tc99 (Ci)
78	4.245E-01	0.000E+00	4.245E-01	Cs137 (Ci)
79	6.488E-08	0.000E+00	6.488E-08	Ba137 (Ci)
80	1.004E+01	0.000E+00	1.004E+01	U235 (Ci)
81	1.511E+03	0.000E+00	1.511E+03	U238 (Ci)
82	4.709E-02	0.000E+00	4.709E-02	Np237 (Ci)
83	2.996E-06	0.000E+00	2.996E-06	Pu238 (Ci)
84	1.077E-02	0.000E+00	1.077E-02	Pu239 (Ci)
85	3.568E-04	0.000E+00	3.568E-04	Pu240 (Ci)
86	2.970E-06	0.000E+00	2.970E-06	Pu241 (Ci)
87	1.992E-03	0.000E+00	1.992E-03	Am241 (Ci)
88	5.321E-08	0.000E+00	5.321E-08	Cm244 (Ci)
89	5.141E+06	0.000E+00	5.141E+06	Total
Tot	5.141E+06	0.000E+00	5.141E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
152	6.715E-03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.739E+04	0.000E+00	3.739E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	9.187E+01	0.000E+00	9.187E+01	BI+3
10	3.892E+01	0.000E+00	3.892E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.788E+01	0.000E+00	1.788E+01	CE+3
14	2.173E+03	0.000E+00	2.173E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	7.907E+03	0.000E+00	7.907E+03	CO3-2
18	1.909E+03	0.000E+00	1.909E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.647E+00	0.000E+00	1.647E+00	CS+
21	4.117E-01	0.000E+00	4.117E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	6.662E+03	0.000E+00	6.662E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.632E+02	0.000E+00	1.632E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.872E+06	0.000E+00	3.872E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.269E+02	0.000E+00	2.269E+02	K+
32	9.305E-03	0.000E+00	9.305E-03	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	7.831E+00	0.000E+00	7.831E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.790E+05	0.000E+00	3.790E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.519E+01	0.000E+00	2.519E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.968E+04	0.000E+00	2.968E+04	NO2-
44	5.326E+05	0.000E+00	5.326E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	8.505E+04	0.000E+00	8.505E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.336E+01	0.000E+00	1.336E+01	PB+4
49	4.648E+04	0.000E+00	4.648E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	2.773E+00	0.000E+00	2.773E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.681E+04	0.000E+00	1.681E+04	SO4-2
61	1.831E-01	0.000E+00	1.831E-01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.708E+03	0.000E+00	2.708E+03	TOC
68	6.152E+02	0.000E+00	6.152E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	3.972E+01	0.000E+00	3.972E+01	ZRO2:2H2O
74	1.884E-03	0.000E+00	1.884E-03	C14 (Ci)
75	5.572E-03	0.000E+00	5.572E-03	Sr90 (Ci)
76	1.426E-06	0.000E+00	1.426E-06	Y90 (Ci)
77	2.242E+00	0.000E+00	2.242E+00	Tc99 (Ci)
78	4.117E-01	0.000E+00	4.117E-01	Cs137 (Ci)
79	6.293E-08	0.000E+00	6.293E-08	Ba137 (Ci)
80	1.132E+01	0.000E+00	1.132E+01	U235 (Ci)
81	1.654E+03	0.000E+00	1.654E+03	U238 (Ci)
82	4.233E-02	0.000E+00	4.233E-02	Np237 (Ci)
83	3.114E-06	0.000E+00	3.114E-06	Pu238 (Ci)
84	1.206E-02	0.000E+00	1.206E-02	Pu239 (Ci)
85	4.602E-04	0.000E+00	4.602E-04	Pu240 (Ci)
86	5.463E-06	0.000E+00	5.463E-06	Pu241 (Ci)
87	1.701E-03	0.000E+00	1.701E-03	Am241 (Ci)
88	4.504E-08	0.000E+00	4.504E-08	Cm244 (Ci)
89	5.021E+06	0.000E+00	5.021E+06	Total
Tot	5.021E+06	0.000E+00	5.021E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
153	6.722E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	7.483E+04	0.000E+00	7.483E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	5.253E+01	0.000E+00	5.253E+01	BI+3
10	3.128E+01	0.000E+00	3.128E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	9.007E+00	0.000E+00	9.007E+00	CE+3
14	1.765E+03	0.000E+00	1.765E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	7.641E+03	0.000E+00	7.641E+03	CO3-2
18	2.670E+03	0.000E+00	2.670E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.159E+00	0.000E+00	1.159E+00	CS+
21	2.897E-01	0.000E+00	2.897E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	6.004E+03	0.000E+00	6.004E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.262E+02	0.000E+00	1.262E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.670E+06	0.000E+00	3.670E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.947E+02	0.000E+00	1.947E+02	K+
32	1.261E-04	0.000E+00	1.261E-04	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	8.025E+00	0.000E+00	8.025E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.379E+05	0.000E+00	3.379E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.008E+01	0.000E+00	2.008E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.480E+04	0.000E+00	2.480E+04	NO2-
44	4.402E+05	0.000E+00	4.402E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	8.080E+04	0.000E+00	8.080E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	7.380E+00	0.000E+00	7.380E+00	PB+4
49	3.448E+04	0.000E+00	3.448E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	2.926E-01	0.000E+00	2.926E-01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.015E+04	0.000E+00	1.015E+04	SO4-2
61	5.755E-02	0.000E+00	5.755E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.307E+03	0.000E+00	1.307E+03	TOC
68	9.714E+02	0.000E+00	9.714E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.448E+02	0.000E+00	1.448E+02	ZRO2:2H2O
74	2.226E-03	0.000E+00	2.226E-03	C14 (Ci)
75	7.731E-03	0.000E+00	7.731E-03	Sr90 (Ci)
76	1.979E-06	0.000E+00	1.979E-06	Y90 (Ci)
77	1.627E+00	0.000E+00	1.627E+00	Tc99 (Ci)
78	2.897E-01	0.000E+00	2.897E-01	Cs137 (Ci)
79	4.428E-08	0.000E+00	4.428E-08	Ba137 (Ci)
80	1.922E+01	0.000E+00	1.922E+01	U235 (Ci)
81	2.590E+03	0.000E+00	2.590E+03	U238 (Ci)
82	1.994E-02	0.000E+00	1.994E-02	Np237 (Ci)
83	3.837E-06	0.000E+00	3.837E-06	Pu238 (Ci)
84	2.182E-02	0.000E+00	2.182E-02	Pu239 (Ci)
85	1.062E-03	0.000E+00	1.062E-03	Pu240 (Ci)
86	1.850E-05	0.000E+00	1.850E-05	Pu241 (Ci)
87	1.942E-03	0.000E+00	1.942E-03	Am241 (Ci)
88	3.414E-08	0.000E+00	3.414E-08	Cm244 (Ci)
89	4.891E+06	0.000E+00	4.892E+06	Total
Tot	4.891E+06	0.000E+00	4.891E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
154	6.739E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.959E+04	0.000E+00	3.959E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	5.499E+01	0.000E+00	5.499E+01	BI+3
10	3.597E+01	0.000E+00	3.597E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	8.967E+00	0.000E+00	8.967E+00	CE+3
14	2.269E+03	0.000E+00	2.269E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	9.862E+03	0.000E+00	9.862E+03	CO3-2
18	2.291E+03	0.000E+00	2.291E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.995E+00	0.000E+00	1.995E+00	CS+
21	4.988E-01	0.000E+00	4.988E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	5.746E+03	0.000E+00	5.746E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.393E+02	0.000E+00	1.393E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.872E+06	0.000E+00	3.872E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.675E+02	0.000E+00	2.675E+02	K+
32	6.552E-05	0.000E+00	6.552E-05	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.520E+01	0.000E+00	1.520E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.340E+05	0.000E+00	3.340E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.297E+01	0.000E+00	2.297E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.436E+04	0.000E+00	3.436E+04	NO2-
44	5.492E+05	0.000E+00	5.492E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	5.862E+04	0.000E+00	5.862E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	2.970E+00	0.000E+00	2.970E+00	PB+4
49	1.964E+04	0.000E+00	1.964E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.520E-01	0.000E+00	1.520E-01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	9.491E+03	0.000E+00	9.491E+03	SO4-2
61	1.017E-01	0.000E+00	1.017E-01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.747E+03	0.000E+00	1.747E+03	TOC
68	7.560E+02	0.000E+00	7.560E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.400E+02	0.000E+00	1.400E+02	ZRO2:2H2O
74	2.764E-03	0.000E+00	2.764E-03	C14 (Ci)
75	8.217E-03	0.000E+00	8.217E-03	Sr90 (Ci)
76	2.104E-06	0.000E+00	2.104E-06	Y90 (Ci)
77	2.526E+00	0.000E+00	2.526E+00	Tc99 (Ci)
78	4.988E-01	0.000E+00	4.988E-01	Cs137 (Ci)
79	7.625E-08	0.000E+00	7.625E-08	Ba137 (Ci)
80	1.959E+01	0.000E+00	1.959E+01	U235 (Ci)
81	2.629E+03	0.000E+00	2.629E+03	U238 (Ci)
82	2.829E-02	0.000E+00	2.829E-02	Np237 (Ci)
83	9.233E-06	0.000E+00	9.233E-06	Pu238 (Ci)
84	2.477E-02	0.000E+00	2.477E-02	Pu239 (Ci)
85	1.192E-03	0.000E+00	1.192E-03	Pu240 (Ci)
86	1.996E-05	0.000E+00	1.996E-05	Pu241 (Ci)
87	2.334E-03	0.000E+00	2.334E-03	Am241 (Ci)
88	3.987E-08	0.000E+00	3.987E-08	Cm244 (Ci)
89	4.940E+06	0.000E+00	4.940E+06	Total
Tot	4.940E+06	0.000E+00	4.940E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
155	6.745E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	4.466E+04	0.000E+00	4.466E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	6.042E+01	0.000E+00	6.042E+01	BI+3
10	3.176E+01	0.000E+00	3.176E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	9.363E+00	0.000E+00	9.363E+00	CE+3
14	1.919E+03	0.000E+00	1.919E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	7.911E+03	0.000E+00	7.911E+03	CO3-2
18	1.877E+03	0.000E+00	1.877E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.294E+00	0.000E+00	1.294E+00	CS+
21	3.235E-01	0.000E+00	3.235E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	5.243E+03	0.000E+00	5.243E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.347E+02	0.000E+00	1.347E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.905E+06	0.000E+00	3.905E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.083E+02	0.000E+00	2.083E+02	K+
32	4.553E-04	0.000E+00	4.553E-04	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	9.267E+00	0.000E+00	9.267E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.174E+05	0.000E+00	3.174E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.040E+01	0.000E+00	2.040E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.638E+04	0.000E+00	2.638E+04	NO2-
44	4.521E+05	0.000E+00	4.521E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.921E+04	0.000E+00	6.921E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	7.649E+00	0.000E+00	7.649E+00	PB+4
49	3.234E+04	0.000E+00	3.234E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.055E+00	0.000E+00	1.055E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.194E+04	0.000E+00	1.194E+04	SO4-2
61	3.069E-02	0.000E+00	3.069E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.688E+03	0.000E+00	1.688E+03	TOC
68	7.748E+02	0.000E+00	7.748E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	8.115E-01	0.000E+00	8.115E-01	ZRO2:2H2O
74	1.745E-03	0.000E+00	1.745E-03	C14 (Ci)
75	6.733E-03	0.000E+00	6.733E-03	Sr90 (Ci)
76	1.724E-06	0.000E+00	1.724E-06	Y90 (Ci)
77	1.568E+00	0.000E+00	1.568E+00	Tc99 (Ci)
78	3.235E-01	0.000E+00	3.235E-01	Cs137 (Ci)
79	4.945E-08	0.000E+00	4.945E-08	Ba137 (Ci)
80	1.204E+01	0.000E+00	1.204E+01	U235 (Ci)
81	1.637E+03	0.000E+00	1.637E+03	U238 (Ci)
82	2.387E-02	0.000E+00	2.387E-02	Np237 (Ci)
83	4.667E-06	0.000E+00	4.667E-06	Pu238 (Ci)
84	1.642E-02	0.000E+00	1.642E-02	Pu239 (Ci)
85	7.277E-04	0.000E+00	7.277E-04	Pu240 (Ci)
86	1.126E-05	0.000E+00	1.126E-05	Pu241 (Ci)
87	1.329E-03	0.000E+00	1.329E-03	Am241 (Ci)
88	2.626E-08	0.000E+00	2.626E-08	Cm244 (Ci)
89	4.878E+06	0.000E+00	4.878E+06	Total
Tot	4.878E+06	0.000E+00	4.878E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
156	6.767E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	4.547E+04	0.000E+00	4.547E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	7.096E+01	0.000E+00	7.096E+01	BI+3
10	4.490E+01	0.000E+00	4.490E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	8.387E+00	0.000E+00	8.387E+00	CE+3
14	2.689E+03	0.000E+00	2.689E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.050E+04	0.000E+00	1.050E+04	CO3-2
18	2.566E+03	0.000E+00	2.566E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.762E+00	0.000E+00	1.762E+00	CS+
21	4.405E-01	0.000E+00	4.405E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	6.374E+03	0.000E+00	6.374E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	2.011E+02	0.000E+00	2.011E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.825E+06	0.000E+00	3.825E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.643E+02	0.000E+00	2.643E+02	K+
32	7.647E-05	0.000E+00	7.647E-05	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.037E+01	0.000E+00	1.037E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.963E+05	0.000E+00	3.963E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.898E+01	0.000E+00	2.898E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.464E+04	0.000E+00	3.464E+04	NO2-
44	6.417E+05	0.000E+00	6.417E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.359E+04	0.000E+00	7.359E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.208E+01	0.000E+00	1.208E+01	PB+4
49	2.498E+04	0.000E+00	2.498E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.774E-01	0.000E+00	1.774E-01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.686E+04	0.000E+00	1.686E+04	SO4-2
61	5.492E-02	0.000E+00	5.492E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.897E+03	0.000E+00	1.897E+03	TOC
68	9.011E+02	0.000E+00	9.011E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.197E+02	0.000E+00	1.197E+02	ZRO2:2H2O
74	2.654E-03	0.000E+00	2.654E-03	C14 (Ci)
75	8.484E-03	0.000E+00	8.484E-03	Sr90 (Ci)
76	2.172E-06	0.000E+00	2.172E-06	Y90 (Ci)
77	2.614E+00	0.000E+00	2.614E+00	Tc99 (Ci)
78	4.405E-01	0.000E+00	4.405E-01	Cs137 (Ci)
79	6.735E-08	0.000E+00	6.735E-08	Ba137 (Ci)
80	2.124E+01	0.000E+00	2.124E+01	U235 (Ci)
81	2.942E+03	0.000E+00	2.942E+03	U238 (Ci)
82	4.235E-02	0.000E+00	4.235E-02	Np237 (Ci)
83	1.248E-05	0.000E+00	1.248E-05	Pu238 (Ci)
84	2.353E-02	0.000E+00	2.353E-02	Pu239 (Ci)
85	1.083E-03	0.000E+00	1.083E-03	Pu240 (Ci)
86	1.740E-05	0.000E+00	1.740E-05	Pu241 (Ci)
87	1.624E-03	0.000E+00	1.624E-03	Am241 (Ci)
88	3.306E-08	0.000E+00	3.306E-08	Cm244 (Ci)
89	5.083E+06	0.000E+00	5.083E+06	Total
Tot	5.083E+06	0.000E+00	5.083E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
157	6.771E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.990E+04	0.000E+00	2.990E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	5.394E+01	0.000E+00	5.394E+01	BI+3
10	4.007E+01	0.000E+00	4.007E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	5.857E+00	0.000E+00	5.857E+00	CE+3
14	2.642E+03	0.000E+00	2.642E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	9.932E+03	0.000E+00	9.932E+03	CO3-2
18	1.923E+03	0.000E+00	1.923E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.543E+00	0.000E+00	1.543E+00	CS+
21	3.857E-01	0.000E+00	3.857E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	4.324E+03	0.000E+00	4.324E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	2.103E+02	0.000E+00	2.103E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.862E+06	0.000E+00	3.862E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.541E+02	0.000E+00	2.541E+02	K+
32	3.619E-05	0.000E+00	3.619E-05	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	8.213E+00	0.000E+00	8.213E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.562E+05	0.000E+00	3.562E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.611E+01	0.000E+00	2.611E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.096E+04	0.000E+00	3.096E+04	NO2-
44	5.847E+05	0.000E+00	5.847E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.757E+04	0.000E+00	6.757E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.567E-01	0.000E+00	1.567E-01	PB+4
49	2.003E+04	0.000E+00	2.003E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	8.394E-02	0.000E+00	8.394E-02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.927E+04	0.000E+00	1.927E+04	SO4-2
61	3.035E-02	0.000E+00	3.035E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.751E+03	0.000E+00	1.751E+03	TOC
68	7.273E+02	0.000E+00	7.273E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	6.188E+01	0.000E+00	6.188E+01	ZRO2:2H2O
74	1.870E-03	0.000E+00	1.870E-03	C14 (Ci)
75	7.213E-03	0.000E+00	7.213E-03	Sr90 (Ci)
76	1.846E-06	0.000E+00	1.846E-06	Y90 (Ci)
77	1.944E+00	0.000E+00	1.944E+00	Tc99 (Ci)
78	3.857E-01	0.000E+00	3.857E-01	Cs137 (Ci)
79	5.897E-08	0.000E+00	5.897E-08	Ba137 (Ci)
80	1.663E+01	0.000E+00	1.663E+01	U235 (Ci)
81	2.372E-03	0.000E+00	2.372E-03	U238 (Ci)
82	3.471E-02	0.000E+00	3.471E-02	Np237 (Ci)
83	6.195E-06	0.000E+00	6.195E-06	Pu238 (Ci)
84	1.383E-02	0.000E+00	1.383E-02	Pu239 (Ci)
85	6.230E-04	0.000E+00	6.230E-04	Pu240 (Ci)
86	9.368E-06	0.000E+00	9.368E-06	Pu241 (Ci)
87	1.107E-03	0.000E+00	1.107E-03	Am241 (Ci)
88	2.729E-08	0.000E+00	2.729E-08	Cm244 (Ci)
89	4.992E+06	0.000E+00	4.992E+06	Total
Tot	4.992E+06	0.000E+00	4.992E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
158	6.799E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	7.302E+04	0.000E+00	7.302E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	6.209E+01	0.000E+00	6.209E+01	BI+3
10	4.502E+01	0.000E+00	4.502E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	6.948E+00	0.000E+00	6.948E+00	CE+3
14	2.894E+03	0.000E+00	2.894E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.163E+04	0.000E+00	1.163E+04	CO3-2
18	3.249E+03	0.000E+00	3.249E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.515E+00	0.000E+00	2.515E+00	CS+
21	6.289E-01	0.000E+00	6.289E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	5.993E+03	0.000E+00	5.993E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.877E+02	0.000E+00	1.877E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.763E+06	0.000E+00	3.763E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.190E+02	0.000E+00	3.190E+02	K+
32	1.545E-05	0.000E+00	1.545E-05	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.666E+01	0.000E+00	1.666E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.361E+05	0.000E+00	4.361E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.883E+01	0.000E+00	2.883E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.066E+04	0.000E+00	4.066E+04	NO2-
44	6.879E+05	0.000E+00	6.879E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	8.209E+04	0.000E+00	8.209E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	6.709E+00	0.000E+00	6.709E+00	PB+4
49	2.799E+04	0.000E+00	2.799E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	3.585E-02	0.000E+00	3.585E-02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.384E+04	0.000E+00	1.384E+04	SO4-2
61	6.496E-02	0.000E+00	6.496E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.074E+03	0.000E+00	2.074E+03	TOC
68	5.554E+02	0.000E+00	5.554E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.394E+02	0.000E+00	1.394E+02	ZRO2:2H2O
74	2.450E-03	0.000E+00	2.450E-03	C14 (Ci)
75	8.861E-03	0.000E+00	8.861E-03	Sr90 (Ci)
76	2.268E-06	0.000E+00	2.268E-06	Y90 (Ci)
77	2.590E+00	0.000E+00	2.590E+00	Tc99 (Ci)
78	6.289E-01	0.000E+00	6.289E-01	Cs137 (Ci)
79	9.613E-08	0.000E+00	9.613E-08	Ba137 (Ci)
80	2.264E+01	0.000E+00	2.264E+01	U235 (Ci)
81	3.088E-03	0.000E+00	3.088E-03	U238 (Ci)
82	3.395E-02	0.000E+00	3.395E-02	Np237 (Ci)
83	1.095E-05	0.000E+00	1.095E-05	Pu238 (Ci)
84	2.574E-02	0.000E+00	2.574E-02	Pu239 (Ci)
85	1.248E-03	0.000E+00	1.248E-03	Pu240 (Ci)
86	2.065E-05	0.000E+00	2.065E-05	Pu241 (Ci)
87	1.763E-03	0.000E+00	1.763E-03	Am241 (Ci)
88	3.051E-08	0.000E+00	3.051E-08	Cm244 (Ci)
89	5.150E+06	0.000E+00	5.150E+06	Total
Tot	5.150E+06	0.000E+00	5.150E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
159	6.800E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.933E+04	0.000E+00	2.933E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	8.183E+01	0.000E+00	8.183E+01	BI+3
10	4.152E+01	0.000E+00	4.152E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.918E+01	0.000E+00	1.918E+01	CE+3
14	2.651E+03	0.000E+00	2.651E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.044E+04	0.000E+00	1.044E+04	CO3-2
18	1.961E+03	0.000E+00	1.961E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.570E+00	0.000E+00	1.570E+00	CS+
21	3.924E-01	0.000E+00	3.924E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	6.688E+03	0.000E+00	6.688E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.849E+02	0.000E+00	1.849E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.845E+06	0.000E+00	3.845E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.812E+02	0.000E+00	2.812E+02	K+
32	8.935E-04	0.000E+00	8.935E-04	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.305E+01	0.000E+00	1.305E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.082E+05	0.000E+00	4.082E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.667E+01	0.000E+00	2.667E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.610E+04	0.000E+00	3.610E+04	NO2-
44	6.083E+05	0.000E+00	6.083E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	8.531E+04	0.000E+00	8.531E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	9.820E+00	0.000E+00	9.820E+00	PB+4
49	4.234E+04	0.000E+00	4.234E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.493E+00	0.000E+00	1.493E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.649E+04	0.000E+00	1.649E+04	SO4-2
61	4.188E-02	0.000E+00	4.188E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.347E+03	0.000E+00	2.347E+03	TOC
68	7.692E+02	0.000E+00	7.692E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	7.882E+01	0.000E+00	7.882E+01	ZRO2:2H2O
74	2.004E-03	0.000E+00	2.004E-03	C14 (Ci)
75	7.499E-03	0.000E+00	7.499E-03	Sr90 (Ci)
76	1.920E-06	0.000E+00	1.920E-06	Y90 (Ci)
77	2.267E+00	0.000E+00	2.267E+00	Tc99 (Ci)
78	3.924E-01	0.000E+00	3.924E-01	Cs137 (Ci)
79	5.998E-08	0.000E+00	5.998E-08	Ba137 (Ci)
80	1.278E+01	0.000E+00	1.278E+01	U235 (Ci)
81	1.773E-03	0.000E+00	1.773E-03	U238 (Ci)
82	3.168E-02	0.000E+00	3.168E-02	Np237 (Ci)
83	3.386E-06	0.000E+00	3.386E-06	Pu238 (Ci)
84	1.738E-02	0.000E+00	1.738E-02	Pu239 (Ci)
85	7.371E-04	0.000E+00	7.371E-04	Pu240 (Ci)
86	1.041E-05	0.000E+00	1.041E-05	Pu241 (Ci)
87	2.325E-03	0.000E+00	2.325E-03	Am241 (Ci)
88	4.729E-08	0.000E+00	4.729E-08	Cm244 (Ci)
89	5.096E+06	0.000E+00	5.096E+06	Total
Tot	5.096E+06	0.000E+00	5.096E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
160	6.828E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.255E+04	0.000E+00	2.255E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	8.084E+01	0.000E+00	8.084E+01	BI+3
10	4.950E+01	0.000E+00	4.950E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.035E+01	0.000E+00	1.035E+01	CE+3
14	2.921E+03	0.000E+00	2.921E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.126E+04	0.000E+00	1.126E+04	CO3-2
18	2.290E+03	0.000E+00	2.290E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.899E+00	0.000E+00	1.899E+00	CS+
21	4.747E-01	0.000E+00	4.747E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	8.064E+03	0.000E+00	8.064E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	2.039E+02	0.000E+00	2.039E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.811E+06	0.000E+00	3.811E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.913E+02	0.000E+00	2.913E+02	K+
32	6.992E-05	0.000E+00	6.992E-05	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.339E+01	0.000E+00	1.339E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.116E+05	0.000E+00	4.116E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.170E+01	0.000E+00	3.170E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.877E+04	0.000E+00	3.877E+04	NO2-
44	7.096E+05	0.000E+00	7.096E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.529E+04	0.000E+00	6.529E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	8.773E+00	0.000E+00	8.773E+00	PB+4
49	2.935E+04	0.000E+00	2.935E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.406E+01	0.000E+00	1.406E+01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.581E+04	0.000E+00	1.581E+04	SO4-2
61	3.101E-02	0.000E+00	3.101E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.995E+03	0.000E+00	1.995E+03	TOC
68	7.198E+02	0.000E+00	7.198E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.895E+02	0.000E+00	1.895E+02	ZRO2:2H2O
74	2.453E-03	0.000E+00	2.453E-03	C14 (Ci)
75	9.358E-03	0.000E+00	9.358E-03	Sr90 (Ci)
76	2.395E-06	0.000E+00	2.395E-06	Y90 (Ci)
77	2.868E+00	0.000E+00	2.868E+00	Tc99 (Ci)
78	4.747E-01	0.000E+00	4.747E-01	Cs137 (Ci)
79	7.258E-08	0.000E+00	7.258E-08	Ba137 (Ci)
80	2.664E+01	0.000E+00	2.664E+01	U235 (Ci)
81	3.604E-03	0.000E+00	3.604E-03	U238 (Ci)
82	4.110E-02	0.000E+00	4.110E-02	Np237 (Ci)
83	1.352E-05	0.000E+00	1.352E-05	Pu238 (Ci)
84	3.141E-02	0.000E+00	3.141E-02	Pu239 (Ci)
85	1.518E-03	0.000E+00	1.518E-03	Pu240 (Ci)
86	2.598E-05	0.000E+00	2.598E-05	Pu241 (Ci)
87	2.343E-03	0.000E+00	2.343E-03	Am241 (Ci)
88	4.058E-08	0.000E+00	4.058E-08	Cm244 (Ci)
89	5.130E+06	0.000E+00	5.130E+06	Total
Tot	5.130E+06	0.000E+00	5.130E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
161	6.830E-03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	4.285E+04	0.000E+00	4.285E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	6.423E+01	0.000E+00	6.423E+01	BI+3
10	4.570E+01	0.000E+00	4.570E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	6.668E+00	0.000E+00	6.666E+00	CE+3
14	2.731E+03	0.000E+00	2.731E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.006E+04	0.000E+00	1.006E+04	CO3-2
18	3.025E+03	0.000E+00	3.025E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.192E+00	0.000E+00	2.192E+00	CS+
21	5.481E-01	0.000E+00	5.481E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	6.535E+03	0.000E+00	6.535E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.743E+02	0.000E+00	1.743E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.776E+06	0.000E+00	3.776E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.655E+02	0.000E+00	2.655E+02	K+
32	2.035E-06	0.000E+00	2.035E-06	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.413E+01	0.000E+00	1.413E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.167E+05	0.000E+00	4.167E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.931E+01	0.000E+00	2.931E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.619E+04	0.000E+00	3.619E+04	NO2-
44	7.100E+05	0.000E+00	7.100E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.646E+04	0.000E+00	6.646E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	3.043E+00	0.000E+00	3.043E+00	PB+4
49	2.776E+04	0.000E+00	2.776E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	4.229E+00	0.000E+00	4.229E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.101E+04	0.000E+00	1.101E+04	SO4-2
61	3.647E-02	0.000E+00	3.647E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.870E+03	0.000E+00	1.870E+03	TOC
68	3.886E+02	0.000E+00	3.888E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	2.654E+02	0.000E+00	2.654E+02	ZRO2:2H2O
74	2.582E-03	0.000E+00	2.582E-03	C14 (Ci)
75	9.264E-03	0.000E+00	9.264E-03	Sr90 (Ci)
76	2.372E-06	0.000E+00	2.372E-06	Y90 (Ci)
77	3.483E+00	0.000E+00	3.483E+00	Tc99 (Ci)
78	5.461E-01	0.000E+00	5.461E-01	Cs137 (Ci)
79	8.380E-08	0.000E+00	8.360E-08	Ba137 (Ci)
80	3.240E+01	0.000E+00	3.240E+01	U235 (Ci)
81	4.304E+03	0.000E+00	4.304E+03	U238 (Ci)
82	5.463E-02	0.000E+00	5.463E-02	Np237 (Ci)
83	2.790E-05	0.000E+00	2.790E-05	Pu238 (Ci)
84	4.566E-02	0.000E+00	4.566E-02	Pu239 (Ci)
85	2.209E-03	0.000E+00	2.209E-03	Pu240 (Ci)
86	3.799E-05	0.000E+00	3.799E-05	Pu241 (Ci)
87	1.830E-03	0.000E+00	1.830E-03	Am241 (Ci)
88	2.470E-08	0.000E+00	2.470E-08	Cm244 (Ci)
89	5.116E+06	0.000E+00	5.116E+06	Total
Tot	5.116E+06	0.000E+00	5.116E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
162	6.856E-03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.919E+04	0.000E+00	2.919E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	7.543E+01	0.000E+00	7.543E+01	BI+3
10	4.560E+01	0.000E+00	4.560E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	7.065E+00	0.000E+00	7.065E+00	CE+3
14	2.523E+03	0.000E+00	2.523E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	6.986E+03	0.000E+00	6.986E+03	CO3-2
18	2.173E+03	0.000E+00	2.173E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.308E+00	0.000E+00	1.308E+00	CS+
21	3.270E-01	0.000E+00	3.270E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	6.528E+03	0.000E+00	6.528E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.900E+02	0.000E+00	1.900E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.847E+06	0.000E+00	3.847E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.454E+02	0.000E+00	2.454E+02	K+
32	4.224E-06	0.000E+00	4.224E-06	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	8.626E+00	0.000E+00	8.626E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.621E+05	0.000E+00	3.621E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.524E+01	0.000E+00	2.524E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.214E+04	0.000E+00	3.214E+04	NO2-
44	6.092E+05	0.000E+00	6.092E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.078E+04	0.000E+00	6.078E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.272E+01	0.000E+00	1.272E+01	PB+4
49	2.573E+04	0.000E+00	2.573E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	2.027E+01	0.000E+00	2.027E+01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.583E+04	0.000E+00	1.583E+04	SO4-2
61	2.142E-02	0.000E+00	2.142E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.715E+03	0.000E+00	1.715E+03	TOC
68	4.759E+02	0.000E+00	4.759E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.359E+02	0.000E+00	1.359E+02	ZRO2:2H2O
74	1.618E-03	0.000E+00	1.618E-03	C14 (Ci)
75	6.351E-03	0.000E+00	6.351E-03	Sr90 (Ci)
76	1.626E-06	0.000E+00	1.626E-06	Y90 (Ci)
77	2.090E+00	0.000E+00	2.090E+00	Tc99 (Ci)
78	3.270E-01	0.000E+00	3.270E-01	Cs137 (Ci)
79	5.000E-08	0.000E+00	5.000E-08	Ba137 (Ci)
80	2.367E+01	0.000E+00	2.367E+01	U235 (Ci)
81	3.267E+03	0.000E+00	3.267E+03	U238 (Ci)
82	3.629E-02	0.000E+00	3.629E-02	Np237 (Ci)
83	1.012E-05	0.000E+00	1.012E-05	Pu238 (Ci)
84	2.209E-02	0.000E+00	2.209E-02	Pu239 (Ci)
85	1.084E-03	0.000E+00	1.084E-03	Pu240 (Ci)
86	1.876E-05	0.000E+00	1.876E-05	Pu241 (Ci)
87	1.447E-03	0.000E+00	1.447E-03	Am241 (Ci)
88	2.855E-08	0.000E+00	2.855E-08	Cm244 (Ci)
89	5.005E+06	0.000E+00	5.005E+06	Total
Tot	5.005E+06	0.000E+00	5.005E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
163	6.858E-03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	4.494E+04	0.000E+00	4.494E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	8.604E+01	0.000E+00	8.604E+01	BI+3
10	4.877E+01	0.000E+00	4.877E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	8.143E+00	0.000E+00	8.143E+00	CE+3
14	2.704E+03	0.000E+00	2.704E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	9.928E+03	0.000E+00	9.928E+03	CO3-2
18	3.174E+03	0.000E+00	3.174E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.447E+00	0.000E+00	1.447E+00	CS+
21	3.617E-01	0.000E+00	3.617E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	1.083E+04	0.000E+00	1.083E+04	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.656E+02	0.000E+00	1.656E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.783E+06	0.000E+00	3.783E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.811E+02	0.000E+00	2.811E+02	K+
32	1.170E-07	0.000E+00	1.170E-07	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.570E+01	0.000E+00	1.570E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.230E+05	0.000E+00	4.230E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.109E+01	0.000E+00	3.109E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.949E+04	0.000E+00	3.949E+04	NO2-
44	6.976E+05	0.000E+00	6.976E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.903E+04	0.000E+00	6.903E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	9.896E-01	0.000E+00	9.896E-01	PB+4
49	3.335E+04	0.000E+00	3.335E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	2.691E+01	0.000E+00	2.691E+01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	9.538E+03	0.000E+00	9.538E+03	SO4-2
61	3.690E-02	0.000E+00	3.690E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.910E+03	0.000E+00	1.910E+03	TOC
68	2.954E+02	0.000E+00	2.954E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	3.340E+02	0.000E+00	3.340E+02	ZRO2:2H2O
74	2.254E-03	0.000E+00	2.254E-03	C14 (Ci)
75	8.308E-03	0.000E+00	8.308E-03	Sr90 (Ci)
76	2.127E-06	0.000E+00	2.127E-06	Y90 (Ci)
77	3.428E+00	0.000E+00	3.428E+00	Tc99 (Ci)
78	3.617E-01	0.000E+00	3.617E-01	Cs137 (Ci)
79	5.531E-08	0.000E+00	5.531E-08	Ba137 (Ci)
80	3.795E+01	0.000E+00	3.795E+01	U235 (Ci)
81	4.970E+03	0.000E+00	4.970E+03	U238 (Ci)
82	4.934E-02	0.000E+00	4.934E-02	Np237 (Ci)
83	2.675E-05	0.000E+00	2.675E-05	Pu238 (Ci)
84	5.059E-02	0.000E+00	5.059E-02	Pu239 (Ci)
85	2.516E-03	0.000E+00	2.516E-03	Pu240 (Ci)
86	4.532E-05	0.000E+00	4.532E-05	Pu241 (Ci)
87	2.815E-03	0.000E+00	2.815E-03	Am241 (Ci)
88	3.833E-08	0.000E+00	3.833E-08	Cm244 (Ci)
89	5.128E+06	0.000E+00	5.128E+06	Total
Tot	5.128E+06	0.000E+00	5.128E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
164	6.875E-03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	5.903E+04	0.000E+00	5.903E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	4.140E+01	0.000E+00	4.140E+01	BI+3
10	2.577E+01	0.000E+00	2.577E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	3.945E+00	0.000E+00	3.945E+00	CE+3
14	1.466E+03	0.000E+00	1.466E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	5.227E+03	0.000E+00	5.227E+03	CO3-2
18	2.441E+03	0.000E+00	2.441E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	8.607E-01	0.000E+00	8.607E-01	CS+
21	2.152E-01	0.000E+00	2.152E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	4.203E+03	0.000E+00	4.203E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.044E+02	0.000E+00	1.044E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.923E+06	0.000E+00	3.923E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.329E+02	0.000E+00	1.329E+02	K+
32	1.931E-06	0.000E+00	1.931E-06	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	5.864E+00	0.000E+00	5.864E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	2.603E+05	0.000E+00	2.603E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.652E+01	0.000E+00	1.652E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	1.892E+04	0.000E+00	1.892E+04	NO2-
44	3.659E+05	0.000E+00	3.659E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	5.710E+04	0.000E+00	5.710E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	4.186E+00	0.000E+00	4.186E+00	PB+4
49	2.256E+04	0.000E+00	2.256E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	9.210E+00	0.000E+00	9.210E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.660E+03	0.000E+00	7.660E+03	SO4-2
61	1.183E-02	0.000E+00	1.183E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	9.233E+02	0.000E+00	9.233E+02	TOC
68	2.225E+02	0.000E+00	2.225E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.059E+02	0.000E+00	1.059E+02	ZRO2:2H2O
74	1.089E-03	0.000E+00	1.089E-03	C14 (Ci)
75	4.078E-03	0.000E+00	4.078E-03	Sr90 (Ci)
76	1.044E-06	0.000E+00	1.044E-06	Y90 (Ci)
77	1.513E+00	0.000E+00	1.513E+00	Tc99 (Ci)
78	2.152E-01	0.000E+00	2.152E-01	Cs137 (Ci)
79	3.290E-08	0.000E+00	3.290E-08	Ba137 (Ci)
80	1.401E+01	0.000E+00	1.401E+01	U235 (Ci)
81	1.879E+03	0.000E+00	1.879E+03	U238 (Ci)
82	2.400E-02	0.000E+00	2.400E-02	Np237 (Ci)
83	9.860E-06	0.000E+00	9.860E-06	Pu238 (Ci)
84	1.748E-02	0.000E+00	1.748E-02	Pu239 (Ci)
85	8.505E-04	0.000E+00	8.505E-04	Pu240 (Ci)
86	1.477E-05	0.000E+00	1.477E-05	Pu241 (Ci)
87	9.845E-04	0.000E+00	9.845E-04	Am241 (Ci)
88	1.631E-08	0.000E+00	1.631E-08	Cm244 (Ci)
89	4.727E+06	0.000E+00	4.727E+06	Total
Tot	4.727E+06	0.000E+00	4.727E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
165	6.887E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.680E+04	0.000E+00	3.680E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	6.150E+01	0.000E+00	6.150E+01	BI+3
10	4.761E+01	0.000E+00	4.761E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	6.350E+00	0.000E+00	6.350E+00	CE+3
14	2.730E+03	0.000E+00	2.730E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	9.372E+03	0.000E+00	9.372E+03	CO3-2
18	2.544E+03	0.000E+00	2.544E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.453E+00	0.000E+00	1.453E+00	CS+
21	3.632E-01	0.000E+00	3.632E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	4.686E+03	0.000E+00	4.686E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	2.249E+02	0.000E+00	2.249E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.809E+06	0.000E+00	3.809E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.573E+02	0.000E+00	2.573E+02	K+
32	6.243E-07	0.000E+00	6.243E-07	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	5.069E+00	0.000E+00	5.069E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.930E+05	0.000E+00	3.930E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.081E+01	0.000E+00	3.081E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.217E+04	0.000E+00	3.217E+04	NO2-
44	6.550E+05	0.000E+00	6.550E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.303E+04	0.000E+00	7.303E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	2.194E+01	0.000E+00	2.194E+01	PB+4
49	2.111E+04	0.000E+00	2.111E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	3.162E+00	0.000E+00	3.162E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SN+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	2.109E+04	0.000E+00	2.109E+04	SO4-2
61	7.012E-03	0.000E+00	7.012E-03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.881E+03	0.000E+00	1.881E+03	TOC
68	6.318E-02	0.000E+00	6.318E-02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	6.958E+01	0.000E+00	6.958E+01	ZRO2:2H2O
74	1.759E-03	0.000E+00	1.759E-03	C14 (Ci)
75	6.761E-03	0.000E+00	6.761E-03	Sr90 (Ci)
76	1.731E-06	0.000E+00	1.731E-06	Y90 (Ci)
77	2.226E+00	0.000E+00	2.226E+00	Tc99 (Ci)
78	3.632E-01	0.000E+00	3.632E-01	Cs137 (Ci)
79	5.554E-08	0.000E+00	5.554E-08	Ba137 (Ci)
80	2.216E+01	0.000E+00	2.216E+01	U235 (Ci)
81	3.210E+03	0.000E+00	3.210E+03	U238 (Ci)
82	4.476E-02	0.000E+00	4.476E-02	Np237 (Ci)
83	7.701E-06	0.000E+00	7.701E-06	Pu238 (Ci)
84	1.433E-02	0.000E+00	1.433E-02	Pu239 (Ci)
85	6.708E-04	0.000E+00	6.708E-04	Pu240 (Ci)
86	1.048E-05	0.000E+00	1.048E-05	Pu241 (Ci)
87	1.208E-03	0.000E+00	1.208E-03	Am241 (Ci)
88	3.271E-08	0.000E+00	3.271E-08	Cm244 (Ci)
89	5.063E+06	0.000E+00	5.063E+06	Total
Tot	5.063E+06	0.000E+00	5.063E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
166	6.906E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	4.217E+04	0.000E+00	4.217E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	6.562E+01	0.000E+00	6.562E+01	BI+3
10	4.858E+01	0.000E+00	4.858E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	8.146E+00	0.000E+00	8.146E+00	CE+3
14	3.011E+03	0.000E+00	3.011E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.190E+04	0.000E+00	1.190E+04	CO3-2
18	2.720E+03	0.000E+00	2.720E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.310E+00	0.000E+00	2.310E+00	CS+
21	5.775E-01	0.000E+00	5.775E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	5.237E+03	0.000E+00	5.237E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.955E+02	0.000E+00	1.955E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.777E+06	0.000E+00	3.777E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.359E+02	0.000E+00	3.359E+02	K+
32	8.122E-06	0.000E+00	8.122E-06	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.679E+01	0.000E+00	1.679E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.267E+05	0.000E+00	4.267E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.099E+01	0.000E+00	3.099E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.360E+04	0.000E+00	4.360E+04	NO2-
44	7.257E+05	0.000E+00	7.257E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.187E+04	0.000E+00	7.187E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	9.214E+00	0.000E+00	9.214E+00	PB+4
49	2.432E+04	0.000E+00	2.432E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	8.713E-01	0.000E+00	8.713E-01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SN+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.453E+04	0.000E+00	1.453E+04	SO4-2
61	8.321E-02	0.000E+00	8.321E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.250E+03	0.000E+00	2.250E+03	TOC
68	6.188E-02	0.000E+00	6.188E-02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	9.328E+01	0.000E+00	9.328E+01	ZRO2:2H2O
74	2.690E-03	0.000E+00	2.690E-03	C14 (Ci)
75	8.022E-03	0.000E+00	8.022E-03	Sr90 (Ci)
76	2.053E-06	0.000E+00	2.053E-06	Y90 (Ci)
77	2.994E+00	0.000E+00	2.994E+00	Tc99 (Ci)
78	5.775E-01	0.000E+00	5.775E-01	Cs137 (Ci)
79	8.629E-08	0.000E+00	8.629E-08	Ba137 (Ci)
80	1.846E+01	0.000E+00	1.846E+01	U235 (Ci)
81	2.550E+03	0.000E+00	2.550E+03	U238 (Ci)
82	4.226E-02	0.000E+00	4.226E-02	Np237 (Ci)
83	1.243E-05	0.000E+00	1.243E-05	Pu238 (Ci)
84	2.105E-02	0.000E+00	2.105E-02	Pu239 (Ci)
85	9.762E-04	0.000E+00	9.762E-04	Pu240 (Ci)
86	1.526E-05	0.000E+00	1.526E-05	Pu241 (Ci)
87	1.948E-03	0.000E+00	1.948E-03	Am241 (Ci)
88	3.879E-08	0.000E+00	3.879E-08	Cm244 (Ci)
89	5.151E+06	0.000E+00	5.151E+06	Total
Tot	5.151E+06	0.000E+00	5.151E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
167	6.906E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	6.493E+04	0.000E+00	6.493E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	3.549E+01	0.000E+00	3.549E+01	BI+3
10	2.558E+01	0.000E+00	2.558E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	3.716E+00	0.000E+00	3.716E+00	CE+3
14	1.533E+03	0.000E+00	1.533E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	5.628E+03	0.000E+00	5.628E+03	CO3-2
18	2.655E+03	0.000E+00	2.655E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	9.951E-01	0.000E+00	9.951E-01	CS+
21	2.488E-01	0.000E+00	2.488E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.575E+03	0.000E+00	3.575E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.043E+02	0.000E+00	1.043E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.911E+06	0.000E+00	3.911E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.457E+02	0.000E+00	1.457E+02	K+
32	1.994E-06	0.000E+00	1.994E-06	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	6.839E+00	0.000E+00	6.839E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	2.661E+05	0.000E+00	2.661E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.637E+01	0.000E+00	1.637E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.030E+04	0.000E+00	2.030E+04	NO2-
44	3.841E+05	0.000E+00	3.841E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	5.702E+04	0.000E+00	5.702E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	4.195E+00	0.000E+00	4.195E+00	PB+4
49	1.940E+04	0.000E+00	1.940E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	3.180E+00	0.000E+00	3.180E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SN+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.566E+03	0.000E+00	7.566E+03	SO4-2
61	1.152E-02	0.000E+00	1.152E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	9.903E+02	0.000E+00	9.903E+02	TOC
68	2.370E+02	0.000E+00	2.370E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	8.838E+01	0.000E+00	8.838E+01	ZRO2:2H2O
74	1.150E-03	0.000E+00	1.150E-03	C14 (Ci)
75	4.456E-03	0.000E+00	4.456E-03	Sr90 (Ci)
76	1.141E-06	0.000E+00	1.141E-06	Y90 (Ci)
77	1.538E+00	0.000E+00	1.538E+00	Tc99 (Ci)
78	2.488E-01	0.000E+00	2.488E-01	Cs137 (Ci)
79	3.803E-08	0.000E+00	3.803E-08	Ba137 (Ci)
80	1.247E+01	0.000E+00	1.247E+01	U235 (Ci)
81	1.687E+03	0.000E+00	1.687E+03	U238 (Ci)
82	2.266E-02	0.000E+00	2.266E-02	Np237 (Ci)
83	8.726E-06	0.000E+00	8.726E-06	Pu238 (Ci)
84	1.549E-02	0.000E+00	1.549E-02	Pu239 (Ci)
85	7.520E-04	0.000E+00	7.520E-04	Pu240 (Ci)
86	1.279E-05	0.000E+00	1.279E-05	Pu241 (Ci)
87	1.086E-03	0.000E+00	1.086E-03	Am241 (Ci)
88	1.855E-08	0.000E+00	1.855E-08	Cm244 (Ci)
89	4.743E+06	0.000E+00	4.743E+06	Total
Tot	4.743E+06	0.000E+00	4.743E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
166	6.932E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	4.142E+04	0.000E+00	4.142E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	5.387E+01	0.000E+00	5.387E+01	BI+3
10	4.189E+01	0.000E+00	4.189E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	5.752E+00	0.000E+00	5.752E+00	CE+3
14	2.410E+03	0.000E+00	2.410E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	8.287E+03	0.000E+00	8.287E+03	CO3-2
18	2.478E+03	0.000E+00	2.478E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.281E+00	0.000E+00	1.281E+00	CS+
21	3.202E-01	0.000E+00	3.202E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	4.173E+03	0.000E+00	4.173E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.970E+02	0.000E+00	1.970E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.837E+06	0.000E+00	3.837E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.275E+02	0.000E+00	2.275E+02	K+
32	9.099E-07	0.000E+00	9.099E-07	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	4.766E+00	0.000E+00	4.766E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.601E+05	0.000E+00	3.601E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.710E+01	0.000E+00	2.710E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.862E+04	0.000E+00	2.862E+04	NO2-
44	5.781E+05	0.000E+00	5.781E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.118E+04	0.000E+00	7.118E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.882E+01	0.000E+00	1.882E+01	PB+4
49	2.131E+04	0.000E+00	2.131E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	3.161E+00	0.000E+00	3.161E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SN+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.823E+04	0.000E+00	1.823E+04	SO4-2
61	7.209E-03	0.000E+00	7.209E-03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.642E+03	0.000E+00	1.642E+03	TOC
68	5.486E+02	0.000E+00	5.486E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	6.440E+01	0.000E+00	6.440E+01	ZRO2:2H2O
74	1.566E-03	0.000E+00	1.566E-03	C14 (Ci)
75	5.976E-03	0.000E+00	5.976E-03	Sr90 (Ci)
76	1.530E-06	0.000E+00	1.530E-06	Y90 (Ci)
77	1.984E+00	0.000E+00	1.984E+00	Tc99 (Ci)
78	3.202E-01	0.000E+00	3.202E-01	Cs137 (Ci)
79	4.897E-08	0.000E+00	4.897E-08	Ba137 (Ci)
80	1.893E+01	0.000E+00	1.893E+01	U235 (Ci)
81	2.728E+03	0.000E+00	2.728E+03	U238 (Ci)
82	4.007E-02	0.000E+00	4.007E-02	Np237 (Ci)
83	6.842E-06	0.000E+00	6.842E-06	Pu238 (Ci)
84	1.285E-02	0.000E+00	1.285E-02	Pu239 (Ci)
85	6.040E-04	0.000E+00	6.040E-04	Pu240 (Ci)
86	9.565E-06	0.000E+00	9.565E-06	Pu241 (Ci)
87	1.063E-03	0.000E+00	1.063E-03	Am241 (Ci)
88	2.913E-08	0.000E+00	2.913E-08	Cm244 (Ci)
89	4.975E+06	0.000E+00	4.975E+06	Total
Tot	4.975E+06	0.000E+00	4.975E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
169	6.940E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	7.342E+04	0.000E+00	7.342E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	8.166E-01	0.000E+00	8.166E-01	BI+3
10	5.202E-01	0.000E+00	5.202E-01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	7.767E+00	0.000E+00	7.767E+00	CE+3
14	2.904E+03	0.000E+00	2.904E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.052E+04	0.000E+00	1.052E+04	CO3-2
18	3.970E+03	0.000E+00	3.970E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.616E+00	0.000E+00	1.616E+00	CS+
21	4.539E-01	0.000E+00	4.539E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	7.431E+03	0.000E+00	7.431E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	2.073E+02	0.000E+00	2.073E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.733E+06	0.000E+00	3.733E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.621E+02	0.000E+00	2.621E+02	K+
32	1.507E-06	0.000E+00	1.507E-06	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.160E+01	0.000E+00	1.160E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.666E+05	0.000E+00	4.666E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.327E+01	0.000E+00	3.327E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.828E+04	0.000E+00	3.828E+04	NO2-
44	7.235E+05	0.000E+00	7.235E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	8.981E+04	0.000E+00	8.981E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.128E+01	0.000E+00	1.128E+01	PB+4
49	3.459E+04	0.000E+00	3.459E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.806E+01	0.000E+00	1.806E+01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.604E+04	0.000E+00	1.604E+04	SO4-2
61	1.917E-02	0.000E+00	1.917E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.970E+03	0.000E+00	1.970E+03	TOC
68	4.725E+02	0.000E+00	4.725E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.666E+02	0.000E+00	1.666E+02	ZRO2:2H2O
74	2.199E-03	0.000E+00	2.199E-03	C14 (Ci)
75	7.774E-03	0.000E+00	7.774E-03	Sr90 (Ci)
76	1.990E-06	0.000E+00	1.990E-06	Y90 (Ci)
77	3.021E+00	0.000E+00	3.021E+00	Tc99 (Ci)
78	4.539E-01	0.000E+00	4.539E-01	Cs137 (Ci)
79	6.940E-08	0.000E+00	6.940E-08	Ba137 (Ci)
80	2.609E+01	0.000E+00	2.609E+01	U235 (Ci)
81	3.567E+03	0.000E+00	3.567E+03	U238 (Ci)
82	4.812E-02	0.000E+00	4.812E-02	Np237 (Ci)
83	1.635E-05	0.000E+00	1.635E-05	Pu238 (Ci)
84	2.667E-02	0.000E+00	2.667E-02	Pu239 (Ci)
85	1.389E-03	0.000E+00	1.389E-03	Pu240 (Ci)
86	2.375E-05	0.000E+00	2.375E-05	Pu241 (Ci)
87	2.001E-03	0.000E+00	2.001E-03	Am241 (Ci)
88	3.725E-08	0.000E+00	3.725E-08	Cm244 (Ci)
89	5.207E+06	0.000E+00	5.207E+06	Total
Tot	5.207E+06	0.000E+00	5.207E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
170	6.960E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	4.275E+04	0.000E+00	4.275E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	6.290E-01	0.000E+00	6.290E-01	BI+3
10	4.341E-01	0.000E+00	4.341E-01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	4.867E+00	0.000E+00	4.867E+00	CE+3
14	2.652E+03	0.000E+00	2.652E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	9.764E+03	0.000E+00	9.764E+03	CO3-2
18	2.838E+03	0.000E+00	2.838E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	7.682E-01	0.000E+00	7.682E-01	CS+
21	1.921E-01	0.000E+00	1.921E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.605E+03	0.000E+00	3.605E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.733E+02	0.000E+00	1.733E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.792E+06	0.000E+00	3.792E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.599E+02	0.000E+00	2.599E+02	K+
32	6.852E-09	0.000E+00	6.852E-09	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.312E+01	0.000E+00	1.312E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.919E+05	0.000E+00	3.919E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.758E+01	0.000E+00	2.758E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.750E+04	0.000E+00	3.750E+04	NO2-
44	6.595E+05	0.000E+00	6.595E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.834E+04	0.000E+00	6.834E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	7.487E+00	0.000E+00	7.487E+00	PB+4
49	2.429E+04	0.000E+00	2.429E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.231E+00	0.000E+00	1.231E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.264E+04	0.000E+00	1.264E+04	SO4-2
61	7.661E-03	0.000E+00	7.661E-03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.837E+03	0.000E+00	1.837E+03	TOC
68	5.321E+02	0.000E+00	5.321E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	2.624E+01	0.000E+00	2.624E+01	ZRO2:2H2O
74	9.626E-04	0.000E+00	9.626E-04	C14 (Ci)
75	5.607E-03	0.000E+00	5.607E-03	Sr90 (Ci)
76	1.435E-06	0.000E+00	1.435E-06	Y90 (Ci)
77	1.194E+00	0.000E+00	1.194E+00	Tc99 (Ci)
78	1.921E-01	0.000E+00	1.921E-01	Cs137 (Ci)
79	2.937E-08	0.000E+00	2.937E-08	Ba137 (Ci)
80	1.055E+01	0.000E+00	1.055E+01	U235 (Ci)
81	1.520E+03	0.000E+00	1.520E+03	U238 (Ci)
82	1.876E-02	0.000E+00	1.876E-02	Np237 (Ci)
83	5.932E-06	0.000E+00	5.932E-06	Pu238 (Ci)
84	1.346E-02	0.000E+00	1.346E-02	Pu239 (Ci)
85	6.422E-04	0.000E+00	6.422E-04	Pu240 (Ci)
86	8.532E-06	0.000E+00	8.532E-06	Pu241 (Ci)
87	1.160E-03	0.000E+00	1.160E-03	Am241 (Ci)
88	2.170E-08	0.000E+00	2.170E-08	Cm244 (Ci)
89	5.050E+06	0.000E+00	5.050E+06	Total
Tot	5.050E+06	0.000E+00	5.050E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
171	6.971E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.625E+04	0.000E+00	2.625E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	7.406E-01	0.000E+00	7.406E-01	BI+3
10	5.388E-01	0.000E+00	5.388E-01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	7.207E+00	0.000E+00	7.207E+00	CE+3
14	3.294E+03	0.000E+00	3.294E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.174E+04	0.000E+00	1.174E+04	CO3-2
18	2.678E+03	0.000E+00	2.678E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.274E+00	0.000E+00	1.274E+00	CS+
21	3.185E-01	0.000E+00	3.185E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	4.387E+03	0.000E+00	4.387E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	2.408E+02	0.000E+00	2.408E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.758E+06	0.000E+00	3.758E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.208E+02	0.000E+00	3.208E+02	K+
32	3.819E-08	0.000E+00	3.819E-08	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.195E+01	0.000E+00	1.195E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.417E+05	0.000E+00	4.417E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.456E+01	0.000E+00	3.456E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.276E+04	0.000E+00	4.276E+04	NO2-
44	7.885E+05	0.000E+00	7.885E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.985E+04	0.000E+00	6.985E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.736E+01	0.000E+00	1.736E+01	PB+4
49	2.227E+04	0.000E+00	2.227E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.443E+00	0.000E+00	1.443E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.970E+04	0.000E+00	1.970E+04	SO4-2
61	1.014E-02	0.000E+00	1.014E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.224E+03	0.000E+00	2.224E+03	TOC
68	6.804E+02	0.000E+00	6.804E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	3.152E+01	0.000E+00	3.152E+01	ZRO2:2H2O
74	1.491E-03	0.000E+00	1.491E-03	C14 (Ci)
75	7.358E-03	0.000E+00	7.358E-03	Sr90 (Ci)
76	1.884E-06	0.000E+00	1.884E-06	Y90 (Ci)
77	1.903E+00	0.000E+00	1.903E+00	Tc99 (Ci)
78	3.185E-01	0.000E+00	3.185E-01	Cs137 (Ci)
79	4.870E-08	0.000E+00	4.870E-08	Ba137 (Ci)
80	1.515E+01	0.000E+00	1.515E+01	U235 (Ci)
81	2.205E+03	0.000E+00	2.205E+03	U238 (Ci)
82	3.465E-02	0.000E+00	3.465E-02	Np237 (Ci)
83	7.339E-06	0.000E+00	7.339E-06	Pu238 (Ci)
84	1.838E-02	0.000E+00	1.838E-02	Pu239 (Ci)
85	8.668E-04	0.000E+00	8.668E-04	Pu240 (Ci)
86	1.108E-05	0.000E+00	1.108E-05	Pu241 (Ci)
87	1.492E-03	0.000E+00	1.492E-03	Am241 (Ci)
88	3.352E-08	0.000E+00	3.352E-08	Cm244 (Ci)
89	5.194E+06	0.000E+00	5.194E+06	Total
Tot	5.194E+06	0.000E+00	5.194E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
172	6.987E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.865E+04	0.000E+00	3.865E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	6.084E-01	0.000E+00	6.084E-01	BI+3
10	4.624E-01	0.000E+00	4.624E-01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	6.508E+00	0.000E+00	6.508E+00	CE+3
14	2.699E+03	0.000E+00	2.699E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	9.225E+03	0.000E+00	9.225E+03	CO3-2
18	2.680E+03	0.000E+00	2.680E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.164E+00	0.000E+00	1.164E+00	CS+
21	2.910E-01	0.000E+00	2.910E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.655E+03	0.000E+00	3.655E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	2.069E+02	0.000E+00	2.069E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.812E+06	0.000E+00	3.812E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.594E+02	0.000E+00	2.594E+02	K+
32	3.448E-08	0.000E+00	3.448E-08	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	7.016E+00	0.000E+00	7.016E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.813E+05	0.000E+00	3.813E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.970E+01	0.000E+00	2.970E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.419E+04	0.000E+00	3.419E+04	NO2-
44	6.500E+05	0.000E+00	6.500E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.659E+04	0.000E+00	6.659E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.913E+01	0.000E+00	1.913E+01	PB+4
49	2.030E+04	0.000E+00	2.030E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.005E+00	0.000E+00	1.005E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.840E+04	0.000E+00	1.840E+04	SO4-2
61	7.520E-03	0.000E+00	7.520E-03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.859E+03	0.000E+00	1.859E+03	TOC
68	6.808E+02	0.000E+00	6.808E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	2.291E+01	0.000E+00	2.291E+01	ZRO2:2H2O
74	1.369E-03	0.000E+00	1.369E-03	C14 (Ci)
75	6.578E-03	0.000E+00	6.578E-03	Sr90 (Ci)
76	1.684E-06	0.000E+00	1.684E-06	Y90 (Ci)
77	1.663E+00	0.000E+00	1.663E+00	Tc99 (Ci)
78	2.910E-01	0.000E+00	2.910E-01	Cs137 (Ci)
79	4.450E-08	0.000E+00	4.450E-08	Ba137 (Ci)
80	1.469E+01	0.000E+00	1.469E+01	U235 (Ci)
81	2.170E+03	0.000E+00	2.170E+03	U238 (Ci)
82	3.651E-02	0.000E+00	3.651E-02	Np237 (Ci)
83	5.046E-06	0.000E+00	5.046E-06	Pu238 (Ci)
84	9.576E-03	0.000E+00	9.576E-03	Pu239 (Ci)
85	4.344E-04	0.000E+00	4.344E-04	Pu240 (Ci)
86	5.714E-06	0.000E+00	5.714E-06	Pu241 (Ci)
87	9.069E-04	0.000E+00	9.069E-04	Am241 (Ci)
88	2.712E-08	0.000E+00	2.712E-08	Cm244 (Ci)
89	5.042E+06	0.000E+00	5.042E+06	Total
Tot	5.042E+06	0.000E+00	5.042E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
173	7.000E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.128E+04	0.000E+00	3.128E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	6.629E+01	0.000E+00	6.629E+01	BI+3
10	4.756E+01	0.000E+00	4.756E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	6.207E+00	0.000E+00	6.207E+00	CE+3
14	2.897E+03	0.000E+00	2.897E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.058E+04	0.000E+00	1.058E+04	CO3-2
18	2.654E+03	0.000E+00	2.654E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.002E+00	0.000E+00	1.002E+00	CS+
21	2.505E-01	0.000E+00	2.505E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.797E+03	0.000E+00	3.797E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.898E+02	0.000E+00	1.898E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.790E+06	0.000E+00	3.790E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.048E+02	0.000E+00	3.048E+02	K+
32	2.930E-09	0.000E+00	2.930E-09	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.382E+01	0.000E+00	1.382E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.966E+05	0.000E+00	3.966E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.024E+01	0.000E+00	3.024E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.103E+04	0.000E+00	4.103E+04	NO2-
44	7.101E+05	0.000E+00	7.101E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.078E+04	0.000E+00	6.078E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.180E+01	0.000E+00	1.180E+01	PB+4
49	1.968E+04	0.000E+00	1.968E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.125E+00	0.000E+00	1.125E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.457E+04	0.000E+00	1.457E+04	SO4-2
61	1.067E-02	0.000E+00	1.067E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.117E+03	0.000E+00	2.117E+03	TOC
68	5.834E+02	0.000E+00	5.834E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	2.790E+01	0.000E+00	2.790E+01	ZRO2:2H2O
74	1.248E-03	0.000E+00	1.248E-03	C14 (Ci)
75	6.856E-03	0.000E+00	6.856E-03	Sr90 (Ci)
76	1.755E-06	0.000E+00	1.755E-06	Y90 (Ci)
77	1.649E+00	0.000E+00	1.649E+00	Tc99 (Ci)
78	2.505E-01	0.000E+00	2.505E-01	Cs137 (Ci)
79	3.830E-08	0.000E+00	3.830E-08	Ba137 (Ci)
80	1.371E+01	0.000E+00	1.371E+01	U235 (Ci)
81	1.988E+03	0.000E+00	1.988E+03	U238 (Ci)
82	2.586E-02	0.000E+00	2.586E-02	Np237 (Ci)
83	5.966E-06	0.000E+00	5.988E-06	Pu238 (Ci)
84	1.475E-02	0.000E+00	1.475E-02	Pu239 (Ci)
85	7.099E-04	0.000E+00	7.099E-04	Pu240 (Ci)
86	9.421E-06	0.000E+00	9.421E-06	Pu241 (Ci)
87	1.702E-03	0.000E+00	1.702E-03	Am241 (Ci)
88	3.364E-08	0.000E+00	3.364E-08	Cm244 (Ci)
89	5.087E+06	0.000E+00	5.087E+06	Total
Tot	5.087E+06	0.000E+00	5.087E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
174	7.014E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.108E+04	0.000E+00	3.108E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	6.379E+01	0.000E+00	6.379E+01	BI+3
10	4.334E+01	0.000E+00	4.334E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	5.238E+00	0.000E+00	5.238E+00	CE+3
14	2.655E+03	0.000E+00	2.655E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	9.657E+03	0.000E+00	9.657E+03	CO3-2
18	2.545E+03	0.000E+00	2.545E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	7.545E-01	0.000E+00	7.545E-01	CS+
21	1.886E-01	0.000E+00	1.886E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	3.690E+03	0.000E+00	3.690E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.690E+02	0.000E+00	1.690E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.815E+06	0.000E+00	3.815E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.607E+02	0.000E+00	2.607E+02	K+
32	2.701E-09	0.000E+00	2.701E-09	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.346E+01	0.000E+00	1.346E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.694E+05	0.000E+00	3.694E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.748E+01	0.000E+00	2.748E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.830E+04	0.000E+00	3.830E+04	NO2-
44	6.617E+05	0.000E+00	6.617E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	5.525E+04	0.000E+00	5.525E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	6.966E+00	0.000E+00	6.966E+00	PB+4
49	2.010E+04	0.000E+00	2.010E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.198E+00	0.000E+00	1.198E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.215E+04	0.000E+00	1.215E+04	SO4-2
61	9.899E-03	0.000E+00	9.899E-03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.863E+03	0.000E+00	1.863E+03	TOC
68	5.705E+02	0.000E+00	5.705E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	2.547E+01	0.000E+00	2.547E+01	ZRO2:2H2O
74	9.320E-04	0.000E+00	9.320E-04	C14 (Ci)
75	5.711E-03	0.000E+00	5.711E-03	Sr90 (Ci)
76	1.462E-06	0.000E+00	1.462E-06	Y90 (Ci)
77	1.152E+00	0.000E+00	1.152E+00	Tc99 (Ci)
78	1.886E-01	0.000E+00	1.886E-01	Cs137 (Ci)
79	2.884E-08	0.000E+00	2.884E-08	Ba137 (Ci)
80	1.013E+01	0.000E+00	1.013E+01	U235 (Ci)
81	1.458E+03	0.000E+00	1.458E+03	U238 (Ci)
82	1.864E-02	0.000E+00	1.864E-02	Np237 (Ci)
83	6.362E-06	0.000E+00	6.362E-06	Pu238 (Ci)
84	1.311E-02	0.000E+00	1.311E-02	Pu239 (Ci)
85	6.152E-04	0.000E+00	6.152E-04	Pu240 (Ci)
86	8.212E-06	0.000E+00	8.212E-06	Pu241 (Ci)
87	1.112E-03	0.000E+00	1.112E-03	Am241 (Ci)
88	2.047E-08	0.000E+00	2.047E-08	Cm244 (Ci)
89	5.024E+06	0.000E+00	5.024E+06	Total
Tot	5.024E+06	0.000E+00	5.024E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
175	7.029E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	9.669E+04	0.000E+00	9.669E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	4.851E+01	0.000E+00	4.851E+01	BI+3
10	3.025E+02	0.000E+00	3.025E+02	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	5.511E+00	0.000E+00	5.511E+00	CE+3
14	3.403E+03	0.000E+00	3.403E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	4.379E+04	0.000E+00	4.379E+04	CO3-2
18	3.949E+03	0.000E+00	3.949E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	4.925E+00	0.000E+00	4.925E+00	CS+
21	1.231E+00	0.000E+00	1.231E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	5.267E+03	0.000E+00	5.267E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	8.623E+02	0.000E+00	8.623E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.774E+06	0.000E+00	3.774E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.307E+03	0.000E+00	1.307E+03	K+
32	5.165E-01	0.000E+00	5.165E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	2.617E+02	0.000E+00	2.617E+02	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.161E+05	0.000E+00	4.161E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.426E+02	0.000E+00	2.426E+02	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	1.464E+05	0.000E+00	1.464E+05	NO2-
44	4.748E+05	0.000E+00	4.748E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.524E+04	0.000E+00	6.524E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.672E+02	0.000E+00	1.672E+02	PB+4
49	2.455E+04	0.000E+00	2.455E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	3.867E-02	0.000E+00	3.867E-02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.322E+04	0.000E+00	1.322E+04	SO4-2
61	9.835E+00	0.000E+00	9.835E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.308E+04	0.000E+00	2.308E+04	TOC
68	4.793E+02	0.000E+00	4.793E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	2.530E+00	0.000E+00	2.530E+00	ZRO2:2H2O
74	3.331E-04	0.000E+00	3.331E-04	C14 (Ci)
75	2.588E-01	0.000E+00	2.588E-01	Sr90 (Ci)
76	6.625E-05	0.000E+00	6.625E-05	Y90 (Ci)
77	1.523E+01	0.000E+00	1.523E+01	Tc99 (Ci)
78	1.231E+00	0.000E+00	1.231E+00	Cs137 (Ci)
79	1.882E-07	0.000E+00	1.882E-07	Ba137 (Ci)
80	4.111E+00	0.000E+00	4.111E+00	U235 (Ci)
81	6.033E+02	0.000E+00	6.033E+02	U238 (Ci)
82	7.478E-03	0.000E+00	7.478E-03	Np237 (Ci)
83	7.767E-06	0.000E+00	7.767E-06	Pu238 (Ci)
84	3.199E-01	0.000E+00	3.199E-01	Pu239 (Ci)
85	1.827E-02	0.000E+00	1.827E-02	Pu240 (Ci)
86	9.115E-05	0.000E+00	9.115E-05	Pu241 (Ci)
87	5.479E-02	0.000E+00	5.479E-02	Am241 (Ci)
88	7.692E-09	0.000E+00	7.692E-09	Cm244 (Ci)
89	5.091E+06	0.000E+00	5.091E+06	Total
Tot	5.091E+06	0.000E+00	5.091E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
176	7.045E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	8.474E+04	0.000E+00	8.474E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	7.186E+01	0.000E+00	7.186E+01	BI+3
10	4.480E+01	0.000E+00	4.480E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	7.508E+00	0.000E+00	7.508E+00	CE+3
14	2.934E+03	0.000E+00	2.934E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.005E+04	0.000E+00	1.005E+04	CO3-2
18	3.927E+03	0.000E+00	3.927E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	8.632E-01	0.000E+00	8.632E-01	CS+
21	2.158E-01	0.000E+00	2.158E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	4.225E+03	0.000E+00	4.225E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	2.009E+02	0.000E+00	2.009E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.761E+06	0.000E+00	3.761E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.718E+02	0.000E+00	2.718E+02	K+
32	2.414E-09	0.000E+00	2.414E-09	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.231E+01	0.000E+00	1.231E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.324E+05	0.000E+00	4.324E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.868E+01	0.000E+00	2.868E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.986E+04	0.000E+00	3.986E+04	NO2-
44	6.904E+05	0.000E+00	6.904E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	8.014E+04	0.000E+00	8.014E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.074E+01	0.000E+00	1.074E+01	PB+4
49	2.572E+04	0.000E+00	2.572E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	5.531E-01	0.000E+00	5.531E-01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.566E+04	0.000E+00	1.566E+04	SO4-2
61	1.530E-02	0.000E+00	1.530E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.009E+03	0.000E+00	2.009E+03	TOC
68	7.399E+02	0.000E+00	7.399E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.441E+01	0.000E+00	1.441E+01	ZRO2:2H2O
74	9.787E-04	0.000E+00	9.787E-04	C14 (Ci)
75	6.310E-03	0.000E+00	6.310E-03	Sr90 (Ci)
76	1.615E-06	0.000E+00	1.615E-06	Y90 (Ci)
77	1.227E+00	0.000E+00	1.227E+00	Tc99 (Ci)
78	2.158E-01	0.000E+00	2.158E-01	Cs137 (Ci)
79	3.300E-08	0.000E+00	3.300E-08	Ba137 (Ci)
80	1.076E+01	0.000E+00	1.076E+01	U235 (Ci)
81	1.585E+03	0.000E+00	1.585E+03	U238 (Ci)
82	2.417E-02	0.000E+00	2.417E-02	Np237 (Ci)
83	9.229E-06	0.000E+00	9.229E-06	Pu238 (Ci)
84	1.993E-02	0.000E+00	1.993E-02	Pu239 (Ci)
85	8.828E-04	0.000E+00	8.828E-04	Pu240 (Ci)
86	1.043E-05	0.000E+00	1.043E-05	Pu241 (Ci)
87	1.110E-03	0.000E+00	1.110E-03	Am241 (Ci)
88	2.135E-08	0.000E+00	2.135E-08	Cm244 (Ci)
89	5.151E+06	0.000E+00	5.151E+06	Total
Tot	5.151E+06	0.000E+00	5.151E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
177	7.082E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.137E+04	0.000E+00	2.137E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	1.563E+01	0.000E+00	1.563E+01	BI+3
10	1.177E+03	0.000E+00	1.177E+03	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	2.025E+00	0.000E+00	2.025E+00	CE+3
14	7.287E+03	0.000E+00	7.287E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.616E+05	0.000E+00	1.616E+05	CO3-2
18	1.589E+03	0.000E+00	1.589E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.966E+01	0.000E+00	1.966E+01	CS+
21	4.916E+00	0.000E+00	4.916E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	1.891E+03	0.000E+00	1.891E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	3.238E+03	0.000E+00	3.238E+03	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.725E+06	0.000E+00	3.725E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	4.593E+03	0.000E+00	4.593E+03	K+
32	2.019E-01	0.000E+00	2.019E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.065E+03	0.000E+00	1.065E+03	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	5.266E+05	0.000E+00	5.266E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	9.610E+02	0.000E+00	9.610E+02	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	5.120E+05	0.000E+00	5.120E+05	NO2-
44	2.744E+05	0.000E+00	2.744E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.996E+04	0.000E+00	1.996E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	7.026E+02	0.000E+00	7.026E+02	PB+4
49	7.583E+03	0.000E+00	7.583E+03	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	4.799E-03	0.000E+00	4.799E-03	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	3.349E+04	0.000E+00	3.349E+04	SO4-2
61	3.842E+00	0.000E+00	3.842E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	9.168E+04	0.000E+00	9.168E+04	TOC
68	2.019E-02	0.000E+00	2.019E-02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.160E+00	0.000E+00	1.160E+00	ZRO2:2H2O
74	2.797E-04	0.000E+00	2.797E-04	C14 (Ci)
75	1.077E+00	0.000E+00	1.077E+00	Sr90 (Ci)
76	2.756E-04	0.000E+00	2.756E-04	Y90 (Ci)
77	6.287E+01	0.000E+00	6.287E+01	Tc99 (Ci)
78	4.916E+00	0.000E+00	4.916E+00	Cs137 (Ci)
79	7.513E-07	0.000E+00	7.513E-07	Ba137 (Ci)
80	2.434E+00	0.000E+00	2.434E+00	U235 (Ci)
81	3.656E+02	0.000E+00	3.656E+02	U238 (Ci)
82	8.077E-03	0.000E+00	8.077E-03	Np237 (Ci)
83	1.615E-06	0.000E+00	1.615E-06	Pu238 (Ci)
84	1.287E+00	0.000E+00	1.287E+00	Pu239 (Ci)
85	7.430E-02	0.000E+00	7.430E-02	Pu240 (Ci)
86	3.520E-04	0.000E+00	3.520E-04	Pu241 (Ci)
87	2.287E-01	0.000E+00	2.287E-01	Am241 (Ci)
88	5.565E-09	0.000E+00	5.565E-09	Cm244 (Ci)
89	5.396E+06	0.000E+00	5.396E+06	Total
Tot	5.396E+06	0.000E+00	5.396E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
178	7.099E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	1.957E+05	0.000E+00	1.957E+05	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	8.758E+00	0.000E+00	8.758E+00	BI+3
10	1.605E+03	0.000E+00	1.605E+03	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	9.688E-01	0.000E+00	9.688E-01	CE+3
14	1.452E+04	0.000E+00	1.452E+04	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	2.450E+05	0.000E+00	2.450E+05	CO3-2
18	2.791E+03	0.000E+00	2.791E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	4.320E+01	0.000E+00	4.320E+01	CS+
21	1.080E+01	0.000E+00	1.080E+01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	8.797E+03	0.000E+00	8.797E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	2.197E+01	0.000E+00	2.197E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.620E+06	0.000E+00	3.620E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.422E+04	0.000E+00	1.422E+04	K+
32	1.481E-01	0.000E+00	1.481E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.682E+00	0.000E+00	1.682E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	9.836E+05	0.000E+00	9.836E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.275E+03	0.000E+00	1.275E+03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	8.076E+05	0.000E+00	8.076E+05	NO2-
44	3.907E+05	0.000E+00	3.907E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	2.225E+04	0.000E+00	2.225E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	6.101E-01	0.000E+00	6.101E-01	PB+4
49	2.059E+04	0.000E+00	2.059E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	5.732E-02	0.000E+00	5.732E-02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	5.363E+04	0.000E+00	5.363E+04	SO4-2
61	2.818E+00	0.000E+00	2.818E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	9.561E+04	0.000E+00	9.561E+04	TOC
68	8.575E+01	0.000E+00	8.575E+01	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.314E+00	0.000E+00	1.314E+00	ZRO2:2H2O
74	1.497E-02	0.000E+00	1.497E-02	C14 (Ci)
75	2.060E+00	0.000E+00	2.060E+00	Sr90 (Ci)
76	5.273E-04	0.000E+00	5.273E-04	Y90 (Ci)
77	6.641E+01	0.000E+00	6.641E+01	Tc99 (Ci)
78	1.080E+01	0.000E+00	1.080E+01	Cs137 (Ci)
79	1.652E-06	0.000E+00	1.652E-06	Ba137 (Ci)
80	1.130E+00	0.000E+00	1.130E+00	U235 (Ci)
81	1.659E+02	0.000E+00	1.659E+02	U238 (Ci)
82	1.663E-03	0.000E+00	1.663E-03	Np237 (Ci)
83	1.200E-06	0.000E+00	1.200E-06	Pu238 (Ci)
84	3.919E+00	0.000E+00	3.919E+00	Pu239 (Ci)
85	2.265E-01	0.000E+00	2.265E-01	Pu240 (Ci)
86	1.068E-03	0.000E+00	1.068E-03	Pu241 (Ci)
87	6.558E-02	0.000E+00	6.558E-02	Am241 (Ci)
88	1.393E-09	0.000E+00	1.393E-09	Cm244 (Ci)
89	6.478E+06	0.000E+00	6.478E+06	Total
Tot	6.478E+06	0.000E+00	6.478E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
179	7.115E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	8.128E+04	0.000E+00	8.128E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	9.416E-01	0.000E+00	9.416E-01	BI+3
10	8.920E-01	0.000E+00	8.920E-01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	6.810E+00	0.000E+00	6.810E+00	CE+3
14	3.302E+03	0.000E+00	3.302E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.752E+04	0.000E+00	1.752E+04	CO3-2
18	3.892E+03	0.000E+00	3.892E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.673E+00	0.000E+00	1.673E+00	CS+
21	4.182E-01	0.000E+00	4.182E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	8.780E+03	0.000E+00	8.780E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.568E+02	0.000E+00	1.568E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.773E+06	0.000E+00	3.773E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	8.429E+02	0.000E+00	8.429E+02	K+
32	6.677E-01	0.000E+00	6.677E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.976E+01	0.000E+00	1.976E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.617E+05	0.000E+00	4.617E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	6.402E+01	0.000E+00	6.402E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	7.015E+04	0.000E+00	7.015E+04	NO2-
44	6.602E+05	0.000E+00	6.602E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	8.516E+04	0.000E+00	8.516E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	3.439E+00	0.000E+00	3.439E+00	PB+4
49	3.513E+04	0.000E+00	3.513E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	9.228E-02	0.000E+00	9.228E-02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.057E+04	0.000E+00	1.057E+04	SO4-2
61	1.272E+01	0.000E+00	1.272E+01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	5.450E+03	0.000E+00	5.450E+03	TOC
68	6.936E+02	0.000E+00	6.936E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	6.798E+00	0.000E+00	6.798E+00	ZRO2:2H2O
74	8.007E-04	0.000E+00	8.007E-04	C14 (Ci)
75	6.604E-02	0.000E+00	6.604E-02	Sr90 (Ci)
76	1.690E-05	0.000E+00	1.690E-05	Y90 (Ci)
77	2.464E+00	0.000E+00	2.464E+00	Tc99 (Ci)
78	4.182E-01	0.000E+00	4.182E-01	Cs137 (Ci)
79	6.399E-08	0.000E+00	6.399E-08	Ba137 (Ci)
80	4.878E+00	0.000E+00	4.878E+00	U235 (Ci)
81	7.198E+02	0.000E+00	7.198E+02	U238 (Ci)
82	1.027E-02	0.000E+00	1.027E-02	Np237 (Ci)
83	7.852E-06	0.000E+00	7.852E-06	Pu238 (Ci)
84	1.312E-01	0.000E+00	1.312E-01	Pu239 (Ci)
85	7.355E-03	0.000E+00	7.355E-03	Pu240 (Ci)
86	3.892E-05	0.000E+00	3.892E-05	Pu241 (Ci)
87	2.688E-03	0.000E+00	2.688E-03	Am241 (Ci)
88	7.938E-09	0.000E+00	7.938E-09	Cm244 (Ci)
89	5.216E+06	0.000E+00	5.216E+06	Total
Tot	5.216E+06	0.000E+00	5.216E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
180	7.133E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.301E+04	0.000E+00	2.301E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	8.032E+01	0.000E+00	8.032E+01	BI+3
10	4.467E+02	0.000E+00	4.467E+02	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	6.008E+00	0.000E+00	6.008E+00	CE+3
14	4.828E+03	0.000E+00	4.828E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	6.511E+04	0.000E+00	6.511E+04	CO3-2
18	2.313E+03	0.000E+00	2.313E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	7.159E+00	0.000E+00	7.159E+00	CS+
21	1.790E+00	0.000E+00	1.790E+00	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	7.985E+03	0.000E+00	7.985E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.262E+03	0.000E+00	1.262E+03	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.765E+06	0.000E+00	3.765E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.966E+03	0.000E+00	1.966E+03	K+
32	7.214E-01	0.000E+00	7.214E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	3.927E+02	0.000E+00	3.927E+02	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.844E+05	0.000E+00	4.844E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.588E+02	0.000E+00	3.588E+02	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.172E+05	0.000E+00	2.172E+05	NO2-
44	5.957E+05	0.000E+00	5.957E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	5.583E+04	0.000E+00	5.583E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	2.482E+02	0.000E+00	2.482E+02	PB+4
49	2.473E+04	0.000E+00	2.473E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	5.500E-02	0.000E+00	5.500E-02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.832E+04	0.000E+00	1.832E+04	SO4-2
61	1.374E+01	0.000E+00	1.374E+01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	3.448E+04	0.000E+00	3.448E+04	TOC
68	6.025E+02	0.000E+00	6.025E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	5.485E+00	0.000E+00	5.485E+00	ZRO2:2H2O
74	2.543E-04	0.000E+00	2.543E-04	C14 (Ci)
75	3.840E-01	0.000E+00	3.840E-01	Sr90 (Ci)
76	9.831E-05	0.000E+00	9.831E-05	Y90 (Ci)
77	2.244E+01	0.000E+00	2.244E+01	Tc99 (Ci)
78	1.790E+00	0.000E+00	1.790E+00	Cs137 (Ci)
79	2.735E-07	0.000E+00	2.735E-07	Ba137 (Ci)
80	3.937E+00	0.000E+00	3.937E+00	U235 (Ci)
81	5.815E+02	0.000E+00	5.815E+02	U238 (Ci)
82	7.223E-03	0.000E+00	7.223E-03	Np237 (Ci)
83	6.111E-06	0.000E+00	6.111E-06	Pu238 (Ci)
84	4.653E-01	0.000E+00	4.653E-01	Pu239 (Ci)
85	2.670E-02	0.000E+00	2.670E-02	Pu240 (Ci)
86	1.296E-04	0.000E+00	1.296E-04	Pu241 (Ci)
87	8.131E-02	0.000E+00	8.131E-02	Am241 (Ci)
88	5.429E-09	0.000E+00	5.429E-09	Cm244 (Ci)
89	5.304E+06	0.000E+00	5.304E+06	Total
Tot	5.304E+06	0.000E+00	5.304E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
181	7.161E+03	1.102E-03	0.000E+00	1.102E-03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	4.992E-04	0.000E+00	4.992E-04	AlIONH4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	1.002E-03	0.000E+00	1.002E-03	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	8.403E-01	0.000E+00	8.403E-01	BI+3
10	5.604E-01	0.000E+00	5.604E-01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	7.813E-02	0.000E+00	7.813E-02	CE+3
14	3.143E-03	0.000E+00	3.143E-03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.177E-04	0.000E+00	1.177E-04	CO3-2
18	1.298E-03	0.000E+00	1.298E-03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.084E-00	0.000E+00	1.084E+00	CS+
21	2.712E-01	0.000E+00	2.712E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	5.939E-03	0.000E+00	5.939E-03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	2.556E+02	0.000E+00	2.556E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.752E+06	0.000E+00	3.752E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	4.138E+02	0.000E+00	4.138E+02	K+
32	2.574E-01	0.000E+00	2.574E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.461E-01	0.000E+00	1.461E-01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO-5
39	5.534E+05	0.000E+00	5.534E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.625E-03	0.000E+00	3.625E-03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NIFEFECN6
43	4.782E-04	0.000E+00	4.782E-04	NO2-
44	7.544E+05	0.000E+00	7.544E+05	NO3-

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
182	7.163E+03	1.102E-03	0.000E+00	1.102E-03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	4.992E-04	0.000E+00	4.992E-04	AlIONH4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	1.002E-03	0.000E+00	1.002E-03	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	8.403E-01	0.000E+00	8.403E-01	BI+3
10	5.604E-01	0.000E+00	5.604E-01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	7.813E-02	0.000E+00	7.813E-02	CE+3
14	3.143E-03	0.000E+00	3.143E-03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.177E-04	0.000E+00	1.177E-04	CO3-2
18	1.298E-03	0.000E+00	1.298E-03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.084E-00	0.000E+00	1.084E+00	CS+
21	2.712E-01	0.000E+00	2.712E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	5.939E-03	0.000E+00	5.939E-03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	2.556E+02	0.000E+00	2.556E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.752E+06	0.000E+00	3.752E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	4.138E+02	0.000E+00	4.138E+02	K+
32	2.574E-01	0.000E+00	2.574E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.461E-01	0.000E+00	1.461E-01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO-5
39	5.534E+05	0.000E+00	5.534E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.625E-03	0.000E+00	3.625E-03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NIFEFECN6
43	4.782E-04	0.000E+00	4.782E-04	NO2-
44	7.544E+05	0.000E+00	7.544E+05	NO3-

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
183	7.164E+03	1.102E-03	0.000E+00	1.102E-03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	4.992E-04	0.000E+00	4.992E-04	AlIONH4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	1.002E-03	0.000E+00	1.002E-03	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	8.403E-01	0.000E+00	8.403E-01	BI+3
10	5.604E-01	0.000E+00	5.604E-01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	7.813E-02	0.000E+00	7.813E-02	CE+3
14	3.143E-03	0.000E+00	3.143E-03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.177E-04	0.000E+00	1.177E-04	CO3-2
18	1.298E-03	0.000E+00	1.298E-03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.084E-00	0.000E+00	1.084E+00	CS+
21	2.712E-01	0.000E+00	2.712E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	5.939E-03	0.000E+00	5.939E-03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	2.556E+02	0.000E+00	2.556E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.752E+06	0.000E+00	3.752E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	4.138E+02	0.000E+00	4.138E+02	K+
32	2.574E-01	0.000E+00	2.574E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.461E-01	0.000E+00	1.461E-01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO-5
39	5.534E+05	0.000E+00	5.534E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.625E-03	0.000E+00	3.625E-03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NIFEFECN6
43	4.782E-04	0.000E+00	4.782E-04	NO2-
44	7.544E+05	0.000E+00	7.544E+05	NO3-

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
184	7.165E+03	1.102E-03	0.000E+00	1.102E-03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	4.992E-04	0.000E+00	4.992E-04	AlIONH4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	1.002E-03	0.000E+00	1.002E-03	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	8.403E-01	0.000E+00	8.403E-01	BI+3
10	5.604E-01	0.000E+00	5.604E-01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	7.813E-02	0.000E+00	7.813E-02	CE+3
14	3.143E-03	0.000E+00	3.143E-03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.177E-04	0.000E+00	1.177E-04	CO3-2
18	1.298E-03	0.000E+00	1.298E-03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.084E-00	0.000E+00	1.084E+00	CS+
21	2.712E-01	0.000E+00	2.712E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	5.939E-03	0.000E+00	5.939E-03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	2.556E+02	0.000E+00	2.556E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.752E+06	0.000E+00	3.752E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	4.138E+02	0.000E+00	4.138E+02	K+
32	2.574E-01	0.000E+00	2.574E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.461E-01	0.000E+00	1.461E-01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO-5
39	5.534E+05	0.000E+00	5.534E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.625E-03	0.000E+00	3.625E-03	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NIFEFECN6
43	4.782E-04	0.000E+00	4.782E-04	NO2-
44	7.544E+05	0.000E+00	7.544E+05	NO3-

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
185	7.194E+03	1.102E-03	0.000E+00	1.102E-03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.761E-04	0.000E+00	3.761E-04	AlIONH4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	2.487E-01	0.000E+00	2.487E-01	B+3
7	6.788E-03	0.000E+00	6.788E-03	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	7.350E-01	0.000E+00	7.350E-01	BI+3
10	6.267E-01	0.000E+00	6.267E-01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	7.989E-02	0.000E+00	7.989E-02	CE+3
14	2.835E-03	0.000E+00	2.835E-03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.069E-04	0.000E+00	1.069E-04	CO3-2
18	2.894E-03	0.000E+00	2.894E-03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.585E+00	0.000E+00	1.585E+00	CS+
21	3.963E-01	0.000E+00	3.963E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	5.401E-03	0.000E+00	5.401E-03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	2.283E+02	0.000E+00	2.283E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.375E+06	0.000E+00	3.375E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.150E+02	0.000E+00	3.150E+02	K+
32	1.464E-01	0.000E+00	1.464E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	8.312E-03	0.000E+00	8.312E-03	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	7.270E+00	0.000E+00	7.270E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	3.117E-02	0.000E+00	3.117E-02	MO-5
39	4.267E+05	0.000E+00	4.267E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	4.174E-01	0.000E+00	4.174E-01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NIFEFECN6
43	4.546E-04	0.000E+00	4.546E-04	NO2-
44	7.243E+05	0.000E+00	7.243E+05	NO3-

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
186	7.195E+03	1.102E-03	0.000E+00	1.102E-03

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.761E-04	0.000E+00	3.761E-04	AlIONH4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	2.487E-01	0.000E+00	2.487E-01	B+3
7	6.788E-03	0.000E+00	6.788E-03	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	7.350E-01	0.000E+00	7.350E-01	BI+3
10	6.267E-01	0.000E+00	6.267E-01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	7.989E-02	0.000E+00	7.989E-02	CE+3
14	2.835E-03	0.000E+00	2.835E-03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.069E-04	0.000E+00	1.069E-04	CO3-2
18	2.894E-03	0.000E+00	2.894E-03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.585E+00	0.000E+00	1.585E+00	CS+
21	3.963E-01	0.000E+00	3.963E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	5.401E-03	0.000E+00	5.401E-03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	2.283E+02	0.000E+00	2.283E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.375E+06	0.000E+00	3.375E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.150E+02	0.000E+00	3.150E+02	K+
32	1.464E-01	0.000E+00	1.464E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	8.312E-03	0.000E+00	8.312E-03	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	7.270E+00	0.000E+00	7.270E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	3.117E-02	0.000E+00	3.117E-02	MO-5
39	4.267E+05	0.000E+00	4.267E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	4.174E-01	0.000E+00	4.174E-01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NIFEFECN6
43	4.546E-04	0.000E+00	4.546E-04	NO2-
44	7.243E+05	0.000E+00	7.243E+05	NO3-

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
185	7.199E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	1.706E+04	0.000E+00	1.706E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	9.969E+01	0.000E+00	9.969E+01	BI+3
10	6.198E+01	0.000E+00	6.198E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	9.635E+00	0.000E+00	9.635E+00	CE+3
14	3.384E+03	0.000E+00	3.384E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.171E+04	0.000E+00	1.171E+04	CO3-2
18	2.620E+03	0.000E+00	2.620E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.139E+00	0.000E+00	1.139E+00	CS+
21	2.849E-01	0.000E+00	2.849E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	9.662E+03	0.000E+00	9.662E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	2.409E+02	0.000E+00	2.409E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.750E+06	0.000E+00	3.750E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	4.727E+02	0.000E+00	4.727E+02	K+
32	8.324E-01	0.000E+00	8.324E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.379E+01	0.000E+00	1.379E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.695E+05	0.000E+00	4.695E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.974E+01	0.000E+00	3.974E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.933E+04	0.000E+00	4.933E+04	NO2-
44	8.404E+05	0.000E+00	6.404E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.933E+04	0.000E+00	6.933E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	2.148E+01	0.000E+00	2.148E+01	PB+4
49	2.792E+04	0.000E+00	2.792E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	2.950E-02	0.000E+00	2.950E-02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.767E+04	0.000E+00	1.767E+04	SO4-2
61	1.584E+01	0.000E+00	1.584E+01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.953E+03	0.000E+00	2.953E+03	TOC
68	9.793E-02	0.000E+00	9.793E-02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	5.240E+00	0.000E+00	5.240E+00	ZRO2:2H2O
74	1.243E-03	0.000E+00	1.243E-03	C14 (Ci)
75	8.250E-03	0.000E+00	8.250E-03	Sr90 (Ci)
76	2.112E-06	0.000E+00	2.112E-06	Y90 (Ci)
77	1.588E+00	0.000E+00	1.588E+00	Tc99 (Ci)
78	2.849E-01	0.000E+00	2.849E-01	Cs137 (Ci)
79	4.357E-08	0.000E+00	4.357E-08	Ba137 (Ci)
80	9.040E+00	0.000E+00	9.040E+00	U235 (Ci)
81	1.360E+03	0.000E+00	1.360E+03	U238 (Ci)
82	3.742E-02	0.000E+00	3.742E-02	Np237 (Ci)
83	5.035E-06	0.000E+00	5.035E-06	Pu238 (Ci)
84	1.291E-02	0.000E+00	1.291E-02	Pu239 (Ci)
85	5.728E-04	0.000E+00	5.728E-04	Pu240 (Ci)
86	5.447E-06	0.000E+00	5.447E-06	Pu241 (Ci)
87	1.102E-03	0.000E+00	1.102E-03	Am241 (Ci)
88	2.480E-08	0.000E+00	2.480E-08	Cm244 (Ci)
89	5.273E+06	0.000E+00	5.273E+06	Total
Tot	5.273E+06	0.000E+00	5.273E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
186	7.214E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.837E+04	0.000E+00	2.837E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	1.503E+00	0.000E+00	1.503E+00	B+3
7	4.102E-02	0.000E+00	4.102E-02	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	4.838E+01	0.000E+00	4.838E+01	BI+3
10	2.767E+01	0.000E+00	2.767E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	4.244E+00	0.000E+00	4.244E+00	CE+3
14	1.573E+03	0.000E+00	1.573E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	5.297E+03	0.000E+00	5.297E+03	CO3-2
18	2.564E+03	0.000E+00	2.564E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	8.181E-01	0.000E+00	8.181E-01	CS+
21	2.045E-01	0.000E+00	2.045E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	5.926E+03	0.000E+00	5.926E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.033E+02	0.000E+00	1.033E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.933E+06	0.000E+00	3.933E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.033E+03	0.000E+00	2.033E+03	K+
32	1.867E-01	0.000E+00	1.867E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	5.022E-02	0.000E+00	5.022E-02	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	6.528E+00	0.000E+00	6.528E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	1.895E-01	0.000E+00	1.895E-01	MO+6
39	2.755E+05	0.000E+00	2.755E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.722E+01	0.000E+00	1.722E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.848E+04	0.000E+00	2.848E+04	NO2-
44	3.599E+05	0.000E+00	3.599E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	7.154E+04	0.000E+00	7.154E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.190E+01	0.000E+00	1.190E+01	PB+4
49	2.360E+04	0.000E+00	2.360E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	3.615E+01	0.000E+00	3.615E+01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	6.222E+03	0.000E+00	6.222E+03	SO4-2
61	3.556E+00	0.000E+00	3.556E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.474E+03	0.000E+00	1.474E+03	TOC
68	4.421E+02	0.000E+00	4.421E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	3.371E-01	0.000E+00	3.371E-01	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	6.793E-01	0.000E+00	6.793E-01	ZRO2:2H2O
74	5.999E-04	0.000E+00	5.999E-04	C14 (Ci)
75	1.801E-03	0.000E+00	1.801E-03	Sr90 (Ci)
76	4.611E-07	0.000E+00	4.611E-07	Y90 (Ci)
77	7.500E-01	0.000E+00	7.500E-01	Tc99 (Ci)
78	2.045E-01	0.000E+00	2.045E-01	Cs137 (Ci)
79	3.125E-08	0.000E+00	3.125E-08	Ba137 (Ci)
80	8.782E-01	0.000E+00	8.782E-01	U235 (Ci)
81	1.317E+02	0.000E+00	1.317E+02	U238 (Ci)
82	5.124E-02	0.000E+00	5.124E-02	Np237 (Ci)
83	4.952E-04	0.000E+00	4.952E-04	Pu238 (Ci)
84	4.219E-03	0.000E+00	4.219E-03	Pu239 (Ci)
85	1.695E-04	0.000E+00	1.695E-04	Pu240 (Ci)
86	2.763E-06	0.000E+00	2.763E-06	Pu241 (Ci)
87	2.582E-04	0.000E+00	2.582E-04	Am241 (Ci)
88	1.242E-08	0.000E+00	1.242E-08	Cm244 (Ci)
89	4.745E+06	0.000E+00	4.745E+06	Total
Tot	4.745E+06	0.000E+00	4.745E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
187	7.229E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	1.665E+04	0.000E+00	1.665E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	1.205E+02	0.000E+00	1.205E+02	BI+3
10	3.712E+01	0.000E+00	3.712E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	6.606E+00	0.000E+00	6.606E+00	CE+3
14	2.839E+03	0.000E+00	2.839E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.041E+04	0.000E+00	1.041E+04	CO3-2
18	1.692E+03	0.000E+00	1.692E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	4.062E-01	0.000E+00	4.062E-01	CS+
21	1.015E-01	0.000E+00	1.015E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	1.265E+04	0.000E+00	1.265E+04	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.816E+02	0.000E+00	1.816E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.893E+06	0.000E+00	3.893E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	4.573E+02	0.000E+00	4.573E+02	K+
32	8.325E-01	0.000E+00	8.325E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.944E+01	0.000E+00	1.944E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.195E+05	0.000E+00	4.195E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.410E+01	0.000E+00	2.410E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.508E+04	0.000E+00	4.508E+04	NO2-
44	5.882E+05	0.000E+00	5.882E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	9.203E+04	0.000E+00	9.203E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	3.919E+00	0.000E+00	3.919E+00	PB+4
49	4.641E+04	0.000E+00	4.641E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.397E-04	0.000E+00	1.397E-04	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	8.465E+03	0.000E+00	8.465E+03	SO4-2
61	1.587E+01	0.000E+00	1.587E+01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.770E+03	0.000E+00	2.770E+03	TOC
68	6.240E+02	0.000E+00	6.240E+02	UO2-2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	8.873E+00	0.000E+00	8.873E+00	ZRO2:2H2O
74	3.237E-04	0.000E+00	3.237E-04	C14 (Ci)
75	3.396E-03	0.000E+00	3.396E-03	Sr90 (Ci)
76	8.694E-07	0.000E+00	8.694E-07	Y90 (Ci)
77	5.054E-01	0.000E+00	5.054E-01	Tc99 (Ci)
78	1.015E-01	0.000E+00	1.015E-01	Cs137 (Ci)
79	1.554E-08	0.000E+00	1.554E-08	Ba137 (Ci)
80	2.384E+00	0.000E+00	2.384E+00	U235 (Ci)
81	3.594E+02	0.000E+00	3.594E+02	U238 (Ci)
82	1.053E-02	0.000E+00	1.053E-02	Np237 (Ci)
83	3.376E-07	0.000E+00	3.376E-07	Pu238 (Ci)
84	1.734E-02	0.000E+00	1.734E-02	Pu239 (Ci)
85	6.208E-04	0.000E+00	6.208E-04	Pu240 (Ci)
86	3.649E-06	0.000E+00	3.649E-06	Pu241 (Ci)
87	4.534E-04	0.000E+00	4.534E-04	Am241 (Ci)
88	6.319E-09	0.000E+00	6.319E-09	Cm244 (Ci)
89	5.141E+06	0.000E+00	5.141E+06	Total
Tot	5.141E+06	0.000E+00	5.141E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
188	7.246E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	1.660E+04	0.000E+00	1.660E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	1.234E+02	0.000E+00	1.234E+02	BI+3
10	5.210E+01	0.000E+00	5.210E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	7.915E+00	0.000E+00	7.915E+00	CE+3
14	3.094E+03	0.000E+00	3.094E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.141E+04	0.000E+00	1.141E+04	CO3-2
18	2.111E+03	0.000E+00	2.111E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	7.366E-01	0.000E+00	7.366E-01	CS+
21	1.842E-01	0.000E+00	1.842E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	1.138E+04	0.000E+00	1.138E+04	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	2.194E+02	0.000E+00	2.194E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.832E+06	0.000E+00	3.832E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	4.549E+02	0.000E+00	4.549E+02	K+
32	6.657E-01	0.000E+00	6.657E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	2.073E+01	0.000E+00	2.073E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.479E+05	0.000E+00	4.479E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.417E+01	0.000E+00	3.417E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.885E+04	0.000E+00	4.885E+04	NO2-
44	7.024E+05	0.000E+00	7.024E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	8.325E+04	0.000E+00	6.325E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.311E+01	0.000E+00	1.311E+01	PB+4
49	4.141E+04	0.000E+00	4.141E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	5.585E-02	0.000E+00	5.585E-02	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.082E+04	0.000E+00	1.082E+04	SO4-2
61	1.268E+01	0.000E+00	1.268E+01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	3.004E+03	0.000E+00	3.004E+03	TOC
68	7.038E+02	0.000E+00	7.038E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	6.935E+00	0.000E+00	6.935E+00	ZRO2:2H2O
74	6.713E-04	0.000E+00	6.713E-04	C14 (Ci)
75	8.281E-03	0.000E+00	8.281E-03	Sr90 (Ci)
76	2.120E-06	0.000E+00	2.120E-06	Y90 (Ci)
77	1.113E+00	0.000E+00	1.113E+00	Tc99 (Ci)
78	1.842E-01	0.000E+00	1.842E-01	Cs137 (Ci)
79	2.817E-08	0.000E+00	2.817E-08	Ba137 (Ci)
80	3.744E+00	0.000E+00	3.744E+00	U235 (Ci)
81	5.580E+02	0.000E+00	5.580E+02	U238 (Ci)
82	2.052E-02	0.000E+00	2.052E-02	Np237 (Ci)
83	3.527E-06	0.000E+00	3.527E-06	Pu238 (Ci)
84	2.237E-02	0.000E+00	2.237E-02	Pu239 (Ci)
85	9.397E-04	0.000E+00	9.397E-04	Pu240 (Ci)
86	6.772E-06	0.000E+00	6.772E-06	Pu241 (Ci)
87	1.448E-03	0.000E+00	1.448E-03	Am241 (Ci)
88	1.373E-08	0.000E+00	1.373E-08	Cm244 (Ci)
89	5.216E+06	0.000E+00	5.216E+06	Total
Tot	5.216E+06	0.000E+00	5.216E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
189	7.259E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.760E+04	0.000E+00	2.760E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	9.024E+01	0.000E+00	9.024E+01	BI+3
10	3.902E+01	0.000E+00	3.902E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	6.867E+00	0.000E+00	6.867E+00	CE+3
14	2.706E+03	0.000E+00	2.706E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	9.852E+03	0.000E+00	9.652E+03	CO3-2
18	1.893E+03	0.000E+00	1.893E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	6.158E-01	0.000E+00	6.158E-01	CS+
21	1.540E-01	0.000E+00	1.540E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	8.070E+03	0.000E+00	8.070E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.566E+02	0.000E+00	1.566E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.645E+06	0.000E+00	3.645E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	4.248E+02	0.000E+00	4.248E+02	K+
32	4.226E-01	0.000E+00	4.226E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.850E-01	0.000E+00	1.850E-01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.236E+05	0.000E+00	4.236E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.462E+01	0.000E+00	2.462E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	4.682E+04	0.000E+00	4.682E+04	NO2-
44	5.835E+05	0.000E+00	5.835E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	9.187E+04	0.000E+00	9.187E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.069E+01	0.000E+00	1.069E+01	PB+4
49	5.810E+04	0.000E+00	5.810E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.914E-03	0.000E+00	1.914E-03	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	9.249E+03	0.000E+00	9.249E+03	SO4-2
61	8.070E+00	0.000E+00	8.070E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.639E+03	0.000E+00	2.639E+03	TOC
68	7.696E+02	0.000E+00	7.696E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	7.474E+00	0.000E+00	7.474E+00	ZRO2:2H2O
74	6.011E-04	0.000E+00	6.011E-04	C14 (Ci)
75	2.315E-03	0.000E+00	2.315E-03	Sr90 (Ci)
76	5.927E-07	0.000E+00	5.927E-07	Y90 (Ci)
77	8.310E-01	0.000E+00	8.310E-01	Tc99 (Ci)
78	1.540E-01	0.000E+00	1.540E-01	Cs137 (Ci)
79	2.355E-08	0.000E+00	2.355E-08	Ba137 (Ci)
80	1.279E+00	0.000E+00	1.279E+00	U235 (Ci)
81	1.917E+02	0.000E+00	1.917E+02	U238 (Ci)
82	2.008E-02	0.000E+00	2.008E-02	Np237 (Ci)
83	2.428E-07	0.000E+00	2.428E-07	Pu238 (Ci)
84	8.285E-03	0.000E+00	8.285E-03	Pu239 (Ci)
85	2.547E-04	0.000E+00	2.547E-04	Pu240 (Ci)
86	1.667E-06	0.000E+00	1.667E-06	Pu241 (Ci)
87	4.732E-04	0.000E+00	4.732E-04	Am241 (Ci)
88	1.305E-08	0.000E+00	1.305E-08	Cm244 (Ci)
89	5.112E+06	0.000E+00	5.112E+06	Total
Tot	5.112E+06	0.000E+00	5.112E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
190	7.272E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	1.764E+04	0.000E+00	1.764E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	7.219E+01	0.000E+00	7.219E+01	BI+3
10	4.291E+01	0.000E+00	4.291E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	6.654E+00	0.000E+00	6.654E+00	CE+3
14	2.276E+03	0.000E+00	2.276E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	8.177E+03	0.000E+00	8.177E+03	CO3-2
18	1.760E+03	0.000E+00	1.760E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	8.550E-01	0.000E+00	8.550E-01	CS+
21	2.137E-01	0.000E+00	2.137E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	5.610E+03	0.000E+00	5.610E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.571E+02	0.000E+00	1.571E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.863E+06	0.000E+00	3.863E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.377E+02	0.000E+00	3.377E+02	K+
32	2.463E-01	0.000E+00	2.463E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.038E+01	0.000E+00	1.038E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.581E+05	0.000E+00	3.581E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.721E+01	0.000E+00	2.721E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.771E+04	0.000E+00	3.771E+04	NO2-
44	5.632E+05	0.000E+00	5.632E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.610E+04	0.000E+00	6.610E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.920E+01	0.000E+00	1.920E+01	PB+4
49	3.879E+04	0.000E+00	3.879E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	6.597E-03	0.000E+00	6.597E-03	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	9.701E+03	0.000E+00	9.701E+03	SO4-2
61	4.694E+00	0.000E+00	4.694E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.024E+03	0.000E+00	2.024E+03	TOC
68	7.128E+02	0.000E+00	7.128E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.041E+00	0.000E+00	1.041E+00	ZRO2:2H2O
74	9.378E-04	0.000E+00	9.378E-04	C14 (Ci)
75	3.214E-03	0.000E+00	3.214E-03	Sr90 (Ci)
76	8.226E-07	0.000E+00	8.226E-07	Y90 (Ci)
77	1.190E+00	0.000E+00	1.190E+00	Tc99 (Ci)
78	2.137E-01	0.000E+00	2.137E-01	Cs137 (Ci)
79	3.269E-08	0.000E+00	3.269E-08	Ba137 (Ci)
80	1.317E+00	0.000E+00	1.317E+00	U235 (Ci)
81	1.972E+02	0.000E+00	1.972E+02	U238 (Ci)
82	2.958E-02	0.000E+00	2.958E-02	Np237 (Ci)
83	5.031E-07	0.000E+00	5.031E-07	Pu238 (Ci)
84	6.308E-03	0.000E+00	6.308E-03	Pu239 (Ci)
85	2.356E-04	0.000E+00	2.356E-04	Pu240 (Ci)
86	1.759E-06	0.000E+00	1.759E-06	Pu241 (Ci)
87	4.739E-04	0.000E+00	4.739E-04	Am241 (Ci)
88	1.934E-08	0.000E+00	1.934E-08	Cm244 (Ci)
89	4.975E+06	0.000E+00	4.975E+06	Total
Tot	4.975E+06	0.000E+00	4.975E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
191	7.290E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.207E+04	0.000E+00	3.207E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	7.116E+01	0.000E+00	7.116E+01	BI+3
10	3.440E+01	0.000E+00	3.440E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	5.897E+00	0.000E+00	5.897E+00	CE+3
14	3.267E+03	0.000E+00	3.267E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.334E+04	0.000E+00	1.334E+04	CO3-2
18	1.983E+03	0.000E+00	1.983E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	4.591E-01	0.000E+00	4.591E-01	CS+
21	1.148E-01	0.000E+00	1.148E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	6.951E+03	0.000E+00	6.951E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.279E+02	0.000E+00	1.279E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.857E+06	0.000E+00	3.857E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	6.191E+02	0.000E+00	6.191E+02	K+
32	4.800E-01	0.000E+00	4.800E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	3.406E+01	0.000E+00	3.406E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.262E+05	0.000E+00	4.262E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.146E+01	0.000E+00	2.146E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	6.300E+04	0.000E+00	6.300E+04	NO2-
44	5.924E+05	0.000E+00	5.924E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	9.989E+04	0.000E+00	9.989E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	4.250E+00	0.000E+00	4.250E+00	PB+4
49	3.245E+04	0.000E+00	3.245E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	2.523E-03	0.000E+00	2.523E-03	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	8.417E+03	0.000E+00	8.417E+03	SO4-2
61	9.186E+00	0.000E+00	9.186E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	3.839E+03	0.000E+00	3.839E+03	TOC
68	7.239E+02	0.000E+00	7.239E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	5.111E+00	0.000E+00	5.111E+00	ZRO2:2H2O
74	4.062E-04	0.000E+00	4.062E-04	C14 (Ci)
75	2.307E-03	0.000E+00	2.307E-03	Sr90 (Ci)
76	5.905E-07	0.000E+00	5.905E-07	Y90 (Ci)
77	7.777E-01	0.000E+00	7.777E-01	Tc99 (Ci)
78	1.148E-01	0.000E+00	1.148E-01	Cs137 (Ci)
79	1.756E-08	0.000E+00	1.756E-08	Ba137 (Ci)
80	2.488E+00	0.000E+00	2.488E+00	U235 (Ci)
81	3.704E+02	0.000E+00	3.704E+02	U238 (Ci)
82	1.316E-02	0.000E+00	1.316E-02	Np237 (Ci)
83	1.727E-06	0.000E+00	1.727E-06	Pu238 (Ci)
84	8.224E-03	0.000E+00	8.224E-03	Pu239 (Ci)
85	3.091E-04	0.000E+00	3.091E-04	Pu240 (Ci)
86	2.507E-06	0.000E+00	2.507E-06	Pu241 (Ci)
87	9.845E-04	0.000E+00	9.845E-04	Am241 (Ci)
88	1.387E-08	0.000E+00	1.387E-08	Cm244 (Ci)
89	5.142E+06	0.000E+00	5.142E+06	Total
Tot	5.142E+06	0.000E+00	5.142E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
192	7.298E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.116E+04	0.000E+00	3.116E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	3.081E+00	0.000E+00	3.081E+00	B+3
7	8.411E-02	0.000E+00	8.411E-02	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	7.771E+01	0.000E+00	7.771E+01	BI+3
10	2.855E+01	0.000E+00	2.855E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	5.238E+00	0.000E+00	5.238E+00	CE+3
14	2.098E+03	0.000E+00	2.098E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	7.019E+03	0.000E+00	7.019E+03	CO3-2
18	3.832E+03	0.000E+00	3.832E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	8.859E-01	0.000E+00	8.859E-01	CS+
21	2.215E-01	0.000E+00	2.215E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	1.070E+04	0.000E+00	1.070E+04	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.251E+02	0.000E+00	1.251E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.895E+06	0.000E+00	3.895E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.974E+03	0.000E+00	3.974E+03	K+
32	2.476E-01	0.000E+00	2.476E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	1.030E-01	0.000E+00	1.030E-01	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.214E+01	0.000E+00	1.214E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	3.886E-01	0.000E+00	3.886E-01	MO+6
39	3.643E+05	0.000E+00	3.643E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.757E+01	0.000E+00	1.757E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.893E+04	0.000E+00	3.893E+04	NO2-
44	4.129E+05	0.000E+00	4.129E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.124E+05	0.000E+00	1.124E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	4.500E+00	0.000E+00	4.500E+00	PB+4
49	2.816E+04	0.000E+00	2.816E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	7.411E+01	0.000E+00	7.411E+01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	6.299E+03	0.000E+00	6.299E+03	SO4-2
61	4.720E+00	0.000E+00	4.720E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.002E+03	0.000E+00	2.002E+03	TOC
68	4.701E+02	0.000E+00	4.701E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	6.912E-01	0.000E+00	6.912E-01	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.985E+00	0.000E+00	1.985E+00	ZRO2:2H2O
74	2.908E-04	0.000E+00	2.908E-04	C14 (Ci)
75	1.148E-03	0.000E+00	1.148E-03	Sr90 (Ci)
76	2.939E-07	0.000E+00	2.939E-07	Y90 (Ci)
77	3.946E-01	0.000E+00	3.946E-01	Tc99 (Ci)
78	2.215E-01	0.000E+00	2.215E-01	Cs137 (Ci)
79	3.382E-08	0.000E+00	3.382E-08	Ba137 (Ci)
80	8.943E-01	0.000E+00	8.943E-01	U235 (Ci)
81	1.342E+02	0.000E+00	1.342E+02	U238 (Ci)
82	7.577E-02	0.000E+00	7.577E-02	Np237 (Ci)
83	1.015E-03	0.000E+00	1.015E-03	Pu238 (Ci)
84	8.620E-03	0.000E+00	8.620E-03	Pu239 (Ci)
85	3.038E-04	0.000E+00	3.038E-04	Pu240 (Ci)
86	4.988E-06	0.000E+00	4.988E-06	Pu241 (Ci)
87	2.551E-04	0.000E+00	2.551E-04	Am241 (Ci)
88	5.768E-09	0.000E+00	5.768E-09	Cm244 (Ci)
89	4.918E+06	0.000E+00	4.918E+06	Total
Tot	4.918E+06	0.000E+00	4.918E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
193	7.301E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.592E+04	0.000E+00	2.592E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	1.508E+00	0.000E+00	1.508E+00	B+3
7	4.116E-02	0.000E+00	4.116E-02	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	6.793E+01	0.000E+00	6.793E+01	BI+3
10	2.192E+01	0.000E+00	2.192E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	3.053E+00	0.000E+00	3.053E+00	CE+3
14	2.069E+03	0.000E+00	2.069E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	7.595E+03	0.000E+00	7.595E+03	CO3-2
18	2.398E+03	0.000E+00	2.398E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	4.759E-01	0.000E+00	4.759E-01	CS+
21	1.190E-01	0.000E+00	1.190E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	1.275E+04	0.000E+00	1.275E+04	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.035E+02	0.000E+00	1.035E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.966E+06	0.000E+00	3.966E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.252E+03	0.000E+00	2.252E+03	K+
32	1.051E+00	0.000E+00	1.051E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	5.040E-02	0.000E+00	5.040E-02	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.913E+01	0.000E+00	1.913E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	1.902E-01	0.000E+00	1.902E-01	MO+6
39	3.231E+05	0.000E+00	3.231E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.387E-01	0.000E+00	1.387E-01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.910E+04	0.000E+00	3.910E+04	NO2-
44	3.592E+05	0.000E+00	3.592E+05	NO3-

Fri Sep 06 11:38:07 1996 **CASE.250.llw**

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	9.599E+04	0.000E+00	9.599E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.494E+00	0.000E+00	1.494E+00	PB+4
49	2.603E+04	0.000E+00	2.603E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	3.629E+01	0.000E+00	3.629E+01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	4.981E+03	0.000E+00	4.981E+03	SO4-2
61	2.004E+01	0.000E+00	2.004E+01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.660E+03	0.000E+00	2.660E+03	TOC
68	3.247E+02	0.000E+00	3.247E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	3.383E-01	0.000E+00	3.383E-01	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.507E+01	0.000E+00	1.507E+01	ZRO2:2H2O
74	1.324E-04	0.000E+00	1.324E-04	C14 (Ci)
75	2.894E-03	0.000E+00	2.894E-03	Sr90 (Ci)
76	7.408E-07	0.000E+00	7.408E-07	Y90 (Ci)
77	1.667E-01	0.000E+00	1.667E-01	Tc99 (Ci)
78	1.190E-01	0.000E+00	1.190E-01	Cs137 (Ci)
79	1.817E-08	0.000E+00	1.817E-08	Ba137 (Ci)
80	1.935E+00	0.000E+00	1.935E+00	U235 (Ci)
81	2.877E+02	0.000E+00	2.877E+02	U238 (Ci)
82	3.713E-02	0.000E+00	3.713E-02	Np237 (Ci)
83	4.983E-04	0.000E+00	4.983E-04	Pu238 (Ci)
84	1.212E-02	0.000E+00	1.212E-02	Pu239 (Ci)
85	4.099E-04	0.000E+00	4.099E-04	Pu240 (Ci)
86	4.180E-06	0.000E+00	4.180E-06	Pu241 (Ci)
87	7.581E-04	0.000E+00	7.581E-04	Am241 (Ci)
88	4.916E-09	0.000E+00	4.916E-09	Cm244 (Ci)
89	4.872E+06	0.000E+00	4.872E+06	Total
Tot	4.872E+06	0.000E+00	4.872E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
194	7.331E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.698E+04	0.000E+00	2.698E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	8.976E+01	0.000E+00	8.976E+01	BI+3
10	4.333E+01	0.000E+00	4.333E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	8.049E+00	0.000E+00	8.049E+00	CE+3
14	3.196E+03	0.000E+00	3.196E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.248E+04	0.000E+00	1.248E+04	CO3-2
18	2.107E+03	0.000E+00	2.107E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	7.139E-01	0.000E+00	7.139E-01	CS+
21	1.777E-01	0.000E+00	1.777E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	1.179E+04	0.000E+00	1.179E+04	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.710E+02	0.000E+00	1.710E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.827E+06	0.000E+00	3.827E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	6.294E+02	0.000E+00	6.294E+02	K+
32	1.130E+00	0.000E+00	1.130E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	2.481E-01	0.000E+00	2.481E-01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.605E+05	0.000E+00	4.605E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.739E+01	0.000E+00	2.739E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	5.683E+04	0.000E+00	5.683E+04	NO2-
44	6.783E+05	0.000E+00	6.783E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	9.757E+04	0.000E+00	9.757E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.148E+01	0.000E+00	1.148E+01	PB+4
49	3.774E+04	0.000E+00	3.774E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	4.080E-03	0.000E+00	4.080E-03	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.023E+04	0.000E+00	1.023E+04	SO4-2
61	2.158E+01	0.000E+00	2.158E+01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	3.566E+03	0.000E+00	3.566E+03	TOC
68	8.949E+02	0.000E+00	8.949E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.345E+01	0.000E+00	1.345E+01	ZRO2:2H2O
74	7.115E-04	0.000E+00	7.115E-04	C14 (Ci)
75	2.729E-03	0.000E+00	2.729E-03	Sr90 (Ci)
76	6.985E-07	0.000E+00	6.985E-07	Y90 (Ci)
77	1.001E+00	0.000E+00	1.001E+00	Tc99 (Ci)
78	1.777E-01	0.000E+00	1.777E-01	Cs137 (Ci)
79	2.718E-08	0.000E+00	2.718E-08	Ba137 (Ci)
80	1.712E+00	0.000E+00	1.712E+00	U235 (Ci)
81	2.548E+02	0.000E+00	2.548E+02	U238 (Ci)
82	2.248E-02	0.000E+00	2.248E-02	Np237 (Ci)
83	1.068E-06	0.000E+00	1.068E-06	Pu238 (Ci)
84	9.224E-03	0.000E+00	9.224E-03	Pu239 (Ci)
85	2.799E-04	0.000E+00	2.799E-04	Pu240 (Ci)
86	2.019E-06	0.000E+00	2.019E-06	Pu241 (Ci)
87	6.895E-04	0.000E+00	6.895E-04	Am241 (Ci)
88	1.676E-08	0.000E+00	1.676E-08	Cm244 (Ci)
89	5.230E+06	0.000E+00	5.230E+06	Total
Tot	5.230E+06	0.000E+00	5.230E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
195	7.331E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.851E+04	0.000E+00	2.851E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	9.519E-01	0.000E+00	9.519E-01	B+3
7	2.598E-02	0.000E+00	2.598E-02	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	3.295E+01	0.000E+00	3.295E+01	BI+3
10	2.599E+01	0.000E+00	2.599E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	3.273E+00	0.000E+00	3.273E+00	CE+3
14	1.259E+03	0.000E+00	1.259E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	4.354E+03	0.000E+00	4.354E+03	CO3-2
18	1.995E+03	0.000E+00	1.995E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	7.022E-01	0.000E+00	7.022E-01	CS+
21	1.755E-01	0.000E+00	1.755E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	4.326E+03	0.000E+00	4.326E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	8.549E+01	0.000E+00	8.549E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.954E+06	0.000E+00	3.954E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.344E+03	0.000E+00	1.344E+03	K+
32	1.816E-01	0.000E+00	1.816E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	3.181E-02	0.000E+00	3.181E-02	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	3.973E+00	0.000E+00	3.973E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	1.201E-01	0.000E+00	1.201E-01	MO+6
39	2.400E+05	0.000E+00	2.400E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.621E-01	0.000E+00	1.621E-01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.280E+04	0.000E+00	2.280E+04	NO2-
44	3.158E+05	0.000E+00	3.158E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.083E+04	0.000E+00	6.083E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.403E+01	0.000E+00	1.403E+01	PB+4
49	2.335E+04	0.000E+00	2.335E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	2.290E+01	0.000E+00	2.290E+01	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	5.868E+03	0.000E+00	5.868E+03	SO4-2
61	3.461E+00	0.000E+00	3.461E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.196E+03	0.000E+00	1.196E+03	TOC
68	4.245E+02	0.000E+00	4.245E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	2.135E-01	0.000E+00	2.135E-01	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.943E+00	0.000E+00	1.943E+00	ZRO2:2H2O
74	6.034E-04	0.000E+00	6.034E-04	C14 (Ci)
75	1.900E-03	0.000E+00	1.900E-03	Sr90 (Ci)
76	4.863E-07	0.000E+00	4.863E-07	Y90 (Ci)
77	7.547E-01	0.000E+00	7.547E-01	Tc99 (Ci)
78	1.755E-01	0.000E+00	1.755E-01	Cs137 (Ci)
79	2.683E-08	0.000E+00	2.683E-08	Ba137 (Ci)
80	6.109E-01	0.000E+00	6.109E-01	U235 (Ci)
81	9.103E+01	0.000E+00	9.103E+01	U238 (Ci)
82	3.930E-02	0.000E+00	3.930E-02	Np237 (Ci)
83	3.138E-04	0.000E+00	3.138E-04	Pu238 (Ci)
84	2.905E-03	0.000E+00	2.905E-03	Pu239 (Ci)
85	1.066E-04	0.000E+00	1.066E-04	Pu240 (Ci)
86	1.658E-06	0.000E+00	1.658E-06	Pu241 (Ci)
87	2.533E-04	0.000E+00	2.533E-04	Am241 (Ci)
88	1.269E-08	0.000E+00	1.269E-08	Cm244 (Ci)
89	4.665E+06	0.000E+00	4.665E+06	Total
Tot	4.665E+06	0.000E+00	4.665E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
196	7.361E+03	1.102E+03	0.000E+00	1.102E+03

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	1.822E+04	0.000E+00	1.822E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	1.390E-01	0.000E+00	1.390E-01	B+3
7	3.793E-03	0.000E+00	3.793E-03	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	5.266E+01	0.000E+00	5.266E+01	BI+3
10	6.085E+01	0.000E+00	6.085E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	7.788E+00	0.000E+00	7.788E+00	CE+3
14	2.835E+03	0.000E+00	2.835E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.070E+04	0.000E+00	1.070E+04	CO3-2
18	2.352E+03	0.000E+00	2.352E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.457E+00	0.000E+00	1.457E+00	CS+
21	3.643E-01	0.000E+00	3.643E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	4.300E+03	0.000E+00	4.300E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.783E+02	0.000E+00	1.783E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.783E+06	0.000E+00	3.783E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	6.545E+02	0.000E+00	6.545E+02	K+
32	2.103E-01	0.000E+00	2.103E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	4.645E-03	0.000E+00	4.645E-03	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.124E+01	0.000E+00	1.124E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	1.753E-02	0.000E+00	1.753E-02	MO+6
39	4.152E+05	0.000E+00	4.152E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	3.802E+01	0.000E+00	3.802E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	5.147E+04	0.000E+00	5.147E+04	NO2-
44	7.445E+05	0.000E+00	7.445E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.657E+04	0.000E+00	6.657E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	3.632E+01	0.000E+00	3.632E+01	PB+4
49	1.598E+04	0.000E+00	1.598E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	3.343E+00	0.000E+00	3.343E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.413E+04	0.000E+00	1.413E+04	SO4-2
61	4.022E+00	0.000E+00	4.022E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.731E+03	0.000E+00	2.731E+03	TOC
68	1.103E+03	0.000E+00	1.103E+03	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	3.117E-02	0.000E+00	3.117E-02	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	2.734E+00	0.000E+00	2.734E+00	ZRO2:2H2O
74	1.667E-03	0.000E+00	1.667E-03	C14 (Ci)
75	4.538E-03	0.000E+00	4.538E-03	Sr90 (Ci)
76	1.162E-06	0.000E+00	1.162E-06	Y90 (Ci)
77	2.100E+00	0.000E+00	2.100E+00	Tc99 (Ci)
78	3.643E-01	0.000E+00	3.643E-01	Cs137 (Ci)
79	5.570E-08	0.000E+00	5.570E-08	Ba137 (Ci)
80	1.222E+00	0.000E+00	1.222E+00	U235 (Ci)
81	1.809E+02	0.000E+00	1.809E+02	U238 (Ci)
82	5.480E-02	0.000E+00	5.480E-02	Np237 (Ci)
83	4.650E-05	0.000E+00	4.650E-05	Pu238 (Ci)
84	2.306E-03	0.000E+00	2.306E-03	Pu239 (Ci)
85	7.820E-05	0.000E+00	7.820E-05	Pu240 (Ci)
86	8.325E-07	0.000E+00	8.325E-07	Pu241 (Ci)
87	6.950E-04	0.000E+00	6.950E-04	Am241 (Ci)
88	3.664E-08	0.000E+00	3.664E-08	Cm244 (Ci)
89	5.134E+06	0.000E+00	5.134E+06	Total
Tot	5.134E+06	0.000E+00	5.134E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
197	7.461E+03	5.115E+02	0.000E+00	5.115E+02

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	7.310E+03	0.000E+00	7.310E+03	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	5.712E-02	0.000E+00	5.712E-02	B+3
7	1.559E-03	0.000E+00	1.559E-03	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	2.025E+01	0.000E+00	2.025E+01	BI+3
10	3.240E+01	0.000E+00	3.240E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	2.518E+00	0.000E+00	2.518E+00	CE+3
14	1.171E+03	0.000E+00	1.171E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	4.550E+03	0.000E+00	4.550E+03	CO3-2
18	1.106E+03	0.000E+00	1.106E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	5.255E-01	0.000E+00	5.255E-01	CS+
21	1.314E-01	0.000E+00	1.314E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	1.132E+03	0.000E+00	1.132E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	6.588E+01	0.000E+00	6.588E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	1.752E+06	0.000E+00	1.752E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	2.538E+02	0.000E+00	2.538E+02	K+
32	9.078E-04	0.000E+00	9.078E-04	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	1.909E-03	0.000E+00	1.909E-03	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.996E+00	0.000E+00	1.996E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	7.204E-03	0.000E+00	7.204E-03	MO+6
39	1.810E+05	0.000E+00	1.810E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.902E+01	0.000E+00	1.902E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.015E+04	0.000E+00	2.015E+04	NO2-
44	3.493E+05	0.000E+00	3.493E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	2.408E+04	0.000E+00	2.408E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.962E+01	0.000E+00	1.962E+01	PB+4
49	5.603E+03	0.000E+00	5.603E+03	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.374E+00	0.000E+00	1.374E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	6.790E+03	0.000E+00	6.790E+03	SO4-2
61	1.734E-02	0.000E+00	1.734E-02	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	9.704E+02	0.000E+00	9.704E+02	TOC
68	4.921E+02	0.000E+00	4.921E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	1.281E-02	0.000E+00	1.281E-02	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.131E-02	0.000E+00	1.131E-02	ZRO2:2H2O
74	6.355E-04	0.000E+00	6.355E-04	C14 (Ci)
75	1.523E-03	0.000E+00	1.523E-03	Sr90 (Ci)
76	3.899E-07	0.000E+00	3.899E-07	Y90 (Ci)
77	8.060E-01	0.000E+00	8.060E-01	Tc99 (Ci)
78	1.314E-01	0.000E+00	1.314E-01	Cs137 (Ci)
79	2.009E-08	0.000E+00	2.009E-08	Ba137 (Ci)
80	7.382E-01	0.000E+00	7.382E-01	U235 (Ci)
81	1.084E+02	0.000E+00	1.084E+02	U238 (Ci)
82	1.995E-02	0.000E+00	1.995E-02	Np237 (Ci)
83	1.959E-05	0.000E+00	1.959E-05	Pu238 (Ci)
84	9.780E-04	0.000E+00	9.780E-04	Pu239 (Ci)
85	4.327E-05	0.000E+00	4.327E-05	Pu240 (Ci)
86	5.881E-07	0.000E+00	5.881E-07	Pu241 (Ci)
87	3.345E-04	0.000E+00	3.345E-04	Am241 (Ci)
88	1.498E-08	0.000E+00	1.498E-08	Cm244 (Ci)
89	2.356E+06	0.000E+00	2.356E+06	Total
Tot	2.356E+06	0.000E+00	2.356E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
198	7.468E+03	5.042E+02	0.000E+00	5.042E+02

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	1.789E+04	0.000E+00	1.789E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	1.545E+01	0.000E+00	1.545E+01	BI+3
10	2.260E+01	0.000E+00	2.260E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	2.186E+00	0.000E+00	2.186E+00	CE+3
14	1.794E+03	0.000E+00	1.794E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.110E+04	0.000E+00	1.110E+04	CO3-2
18	1.495E+03	0.000E+00	1.495E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	2.960E-01	0.000E+00	2.960E-01	CS+
21	7.401E-02	0.000E+00	7.401E-02	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	7.179E+02	0.000E+00	7.179E+02	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	7.111E+01	0.000E+00	7.111E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	1.711E+06	0.000E+00	1.711E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.465E+02	0.000E+00	3.465E+02	K+
32	0.000E+00	0.000E+00	0.000E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	2.310E+01	0.000E+00	2.310E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	2.195E+05	0.000E+00	2.195E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.409E+01	0.000E+00	1.409E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.035E+04	0.000E+00	3.035E+04	NO2-
44	3.827E+05	0.000E+00	3.827E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	3.805E+04	0.000E+00	3.805E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	5.209E-02	0.000E+00	5.209E-02	PB+4
49	2.899E+03	0.000E+00	2.899E+03	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	0.000E+00	0.000E+00	0.000E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	3.442E+03	0.000E+00	3.442E+03	SO4-2
61	0.000E+00	0.000E+00	0.000E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.726E+03	0.000E+00	1.726E+03	TOC
68	5.232E+01	0.000E+00	5.232E+01	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	0.000E+00	0.000E+00	0.000E+00	ZRO2:2H2O
74	6.249E-04	0.000E+00	6.249E-04	C14 (Ci)
75	8.456E-04	0.000E+00	8.456E-04	Sr90 (Ci)
76	2.165E-07	0.000E+00	2.165E-07	Y90 (Ci)
77	1.256E+00	0.000E+00	1.256E+00	Tc99 (Ci)
78	7.401E-02	0.000E+00	7.401E-02	Cs137 (Ci)
79	1.132E-08	0.000E+00	1.132E-08	Ba137 (Ci)
80	5.054E+00	0.000E+00	5.054E+00	U235 (Ci)
81	7.414E+02	0.000E+00	7.414E+02	U238 (Ci)
82	7.613E-03	0.000E+00	7.613E-03	Np237 (Ci)
83	8.638E-06	0.000E+00	8.638E-06	Pu238 (Ci)
84	1.121E-02	0.000E+00	1.121E-02	Pu239 (Ci)
85	4.921E-04	0.000E+00	4.921E-04	Pu240 (Ci)
86	6.135E-06	0.000E+00	6.135E-06	Pu241 (Ci)
87	2.377E-03	0.000E+00	2.377E-03	Am241 (Ci)
88	3.466E-08	0.000E+00	3.466E-08	Cm244 (Ci)
89	2.424E+06	0.000E+00	2.424E+06	Total
Tot	2.424E+06	0.000E+00	2.424E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
199	7.482E+03	9.310E+02	0.000E+00	9.310E+02

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	8.331E+04	0.000E+00	8.331E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	1.771E+01	0.000E+00	1.771E+01	BI+3
10	2.595E+01	0.000E+00	2.595E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	2.472E+00	0.000E+00	2.472E+00	CE+3
14	1.967E+03	0.000E+00	1.967E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.197E+04	0.000E+00	1.197E+04	CO3-2
18	3.689E+03	0.000E+00	3.689E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	3.473E-01	0.000E+00	3.473E-01	CS+
21	8.683E-02	0.000E+00	8.683E-02	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	8.324E+02	0.000E+00	8.324E+02	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	8.094E+01	0.000E+00	8.094E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.247E+06	0.000E+00	3.247E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.770E+02	0.000E+00	3.770E+02	K+
32	2.038E-04	0.000E+00	2.038E-04	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	2.436E+01	0.000E+00	2.436E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	2.883E+05	0.000E+00	2.883E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.618E+01	0.000E+00	1.618E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.330E+04	0.000E+00	3.330E+04	NO2-
44	4.272E+05	0.000E+00	4.272E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.258E+04	0.000E+00	6.258E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.522E+00	0.000E+00	1.522E+00	PB+4
49	5.180E+03	0.000E+00	5.180E+03	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	3.259E-07	0.000E+00	3.259E-07	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	4.115E+03	0.000E+00	4.115E+03	SO4-2
61	3.905E-03	0.000E+00	3.905E-03	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.881E+03	0.000E+00	1.881E+03	TOC
68	9.164E+01	0.000E+00	9.164E+01	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	2.772E-03	0.000E+00	2.772E-03	ZRO2:2H2O
74	7.005E-04	0.000E+00	7.005E-04	C14 (Ci)
75	9.957E-04	0.000E+00	9.957E-04	Sr90 (Ci)
76	2.549E-07	0.000E+00	2.549E-07	Y90 (Ci)
77	1.374E+00	0.000E+00	1.374E+00	Tc99 (Ci)
78	8.683E-02	0.000E+00	8.683E-02	Cs137 (Ci)
79	1.329E-08	0.000E+00	1.329E-08	Ba137 (Ci)
80	5.350E+00	0.000E+00	5.350E+00	U235 (Ci)
81	7.849E+02	0.000E+00	7.849E+02	U238 (Ci)
82	9.328E-03	0.000E+00	9.328E-03	Np237 (Ci)
83	9.107E-06	0.000E+00	9.107E-06	Pu238 (Ci)
84	1.182E-02	0.000E+00	1.182E-02	Pu239 (Ci)
85	5.187E-04	0.000E+00	5.187E-04	Pu240 (Ci)
86	6.466E-06	0.000E+00	6.466E-06	Pu241 (Ci)
87	2.515E-03	0.000E+00	2.515E-03	Am241 (Ci)
88	3.740E-08	0.000E+00	3.740E-08	Cm244 (Ci)
89	4.170E+06	0.000E+00	4.170E+06	Total
Tot	4.170E+06	0.000E+00	4.170E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
200	7.489E+03	3.449E+02	0.000E+00	3.449E+02

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.824E+04	0.000E+00	2.824E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	1.240E+01	0.000E+00	1.240E+01	BI+3
10	1.014E+01	0.000E+00	1.014E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	7.719E-01	0.000E+00	7.719E-01	CE+3
14	6.629E+02	0.000E+00	6.629E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	3.450E+03	0.000E+00	3.450E+03	CO3-2
18	1.288E+03	0.000E+00	1.288E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	7.229E-02	0.000E+00	7.229E-02	CS+
21	1.807E-02	0.000E+00	1.807E-02	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	5.847E+02	0.000E+00	5.847E+02	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	2.980E+01	0.000E+00	2.980E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	1.209E+06	0.000E+00	1.209E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.040E+02	0.000E+00	1.040E+02	K+
32	2.136E-05	0.000E+00	2.136E-05	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	6.899E+00	0.000E+00	6.899E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	9.892E+04	0.000E+00	9.892E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	6.288E+00	0.000E+00	6.288E+00	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	1.113E+04	0.000E+00	1.113E+04	NO2-
44	1.556E+05	0.000E+00	1.556E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.823E+04	0.000E+00	1.823E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	7.116E-02	0.000E+00	7.116E-02	PB+4
49	3.452E+03	0.000E+00	3.452E+03	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	3.415E-08	0.000E+00	3.415E-08	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.640E+03	0.000E+00	1.640E+03	SO4-2
61	4.092E-04	0.000E+00	4.092E-04	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	5.788E+02	0.000E+00	5.788E+02	TOC
68	4.435E+01	0.000E+00	4.435E+01	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	2.389E-02	0.000E+00	2.389E-02	ZRO2:2H2O
74	1.540E-04	0.000E+00	1.540E-04	C14 (Ci)
75	2.799E-04	0.000E+00	2.799E-04	Sr90 (Ci)
76	7.165E-08	0.000E+00	7.165E-08	Y90 (Ci)
77	2.947E-01	0.000E+00	2.947E-01	Tc99 (Ci)
78	1.807E-02	0.000E+00	1.807E-02	Cs137 (Ci)
79	2.765E-09	0.000E+00	2.765E-09	Ba137 (Ci)
80	1.563E+00	0.000E+00	1.563E+00	U235 (Ci)
81	2.313E+02	0.000E+00	2.313E+02	U238 (Ci)
82	1.870E-03	0.000E+00	1.870E-03	Np237 (Ci)
83	1.991E-06	0.000E+00	1.991E-06	Pu238 (Ci)
84	2.587E-03	0.000E+00	2.587E-03	Pu239 (Ci)
85	1.135E-04	0.000E+00	1.135E-04	Pu240 (Ci)
86	1.415E-06	0.000E+00	1.415E-06	Pu241 (Ci)
87	5.529E-04	0.000E+00	5.529E-04	Am241 (Ci)
88	8.054E-09	0.000E+00	8.054E-09	Cm244 (Ci)
89	1.532E+06	0.000E+00	1.532E+06	Total
Tot	1.532E+06	0.000E+00	1.532E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
201	7.492E+03	8.453E+02	0.000E+00	8.453E+02

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	8.929E+04	0.000E+00	8.929E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	2.556E+01	0.000E+00	2.556E+01	BI+3
10	3.734E+01	0.000E+00	3.734E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	3.247E+00	0.000E+00	3.247E+00	CE+3
14	2.056E+03	0.000E+00	2.056E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.065E+04	0.000E+00	1.065E+04	CO3-2
18	3.971E+03	0.000E+00	3.971E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	5.600E-01	0.000E+00	5.600E-01	CS+
21	1.400E-01	0.000E+00	1.400E-01	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	1.315E+03	0.000E+00	1.315E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.104E+02	0.000E+00	1.104E+02	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	2.874E+06	0.000E+00	2.874E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.677E+02	0.000E+00	3.677E+02	K+
32	6.977E-03	0.000E+00	6.977E-03	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.679E+01	0.000E+00	1.679E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	3.250E+05	0.000E+00	3.250E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.334E+01	0.000E+00	2.334E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.511E+04	0.000E+00	3.511E+04	NO2-
44	5.109E+05	0.000E+00	5.109E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	6.273E+04	0.000E+00	6.273E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.459E+01	0.000E+00	1.459E+01	PB+4
49	9.267E+03	0.000E+00	9.267E+03	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	1.115E-05	0.000E+00	1.115E-05	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SN+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	7.324E+03	0.000E+00	7.324E+03	SO4-2
61	1.337E-01	0.000E+00	1.337E-01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.873E+03	0.000E+00	1.873E+03	TOC
68	4.043E+02	0.000E+00	4.043E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	9.487E-02	0.000E+00	9.487E-02	ZRO2:2H2O
74	8.564E-04	0.000E+00	8.564E-04	C14 (Ci)
75	1.640E-03	0.000E+00	1.640E-03	Sr90 (Ci)
76	4.199E-07	0.000E+00	4.199E-07	Y90 (Ci)
77	1.389E+00	0.000E+00	1.389E+00	Tc99 (Ci)
78	1.400E-01	0.000E+00	1.400E-01	Cs137 (Ci)
79	2.142E-08	0.000E+00	2.142E-08	Ba137 (Ci)
80	3.826E+00	0.000E+00	3.826E+00	U235 (Ci)
81	5.614E+02	0.000E+00	5.614E+02	U238 (Ci)
82	1.830E-02	0.000E+00	1.830E-02	Np237 (Ci)
83	6.136E-06	0.000E+00	6.136E-06	Pu238 (Ci)
84	7.983E-03	0.000E+00	7.983E-03	Pu239 (Ci)
85	3.495E-04	0.000E+00	3.495E-04	Pu240 (Ci)
86	4.348E-06	0.000E+00	4.348E-06	Pu241 (Ci)
87	1.782E-03	0.000E+00	1.782E-03	Am241 (Ci)
88	3.311E-08	0.000E+00	3.311E-08	Cm244 (Ci)
89	3.932E+06	0.000E+00	3.932E+06	Total
Tot	3.932E+06	0.000E+00	3.932E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
202	7.533E+03	8.400E+02	0.000E+00	8.400E+02

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	9.833E+04	0.000E+00	9.833E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	4.221E+01	0.000E+00	4.221E+01	BI+3
10	2.020E+01	0.000E+00	2.020E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	2.365E+00	0.000E+00	2.365E+00	CE+3
14	1.632E+03	0.000E+00	1.632E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	7.172E+03	0.000E+00	7.172E+03	CO3-2
18	3.197E+03	0.000E+00	3.197E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.776E-01	0.000E+00	1.776E-01	CS+
21	4.439E-02	0.000E+00	4.439E-02	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	4.642E+03	0.000E+00	4.642E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	7.482E-01	0.000E+00	7.482E-01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	2.821E+06	0.000E+00	2.821E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.015E+02	0.000E+00	3.015E+02	K+
32	3.637E-01	0.000E+00	3.637E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.646E+01	0.000E+00	1.646E+01	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	4.110E+05	0.000E+00	4.110E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.274E+01	0.000E+00	1.274E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.867E+04	0.000E+00	2.867E+04	NO2-
44	3.289E+05	0.000E+00	3.289E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.494E+05	0.000E+00	1.494E+05	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	7.508E-01	0.000E+00	7.508E-01	PB+4
49	5.875E+04	0.000E+00	5.875E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	5.341E-03	0.000E+00	5.341E-03	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SN+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	4.040E+03	0.000E+00	4.040E+03	SO4-2
61	6.938E+00	0.000E+00	6.938E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	1.757E+03	0.000E+00	1.757E+03	TOC
68	2.224E+02	0.000E+00	2.224E+02	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	4.871E+00	0.000E+00	4.871E+00	ZRO2:2H2O
74	2.252E-04	0.000E+00	2.252E-04	C14 (Ci)
75	1.457E-03	0.000E+00	1.457E-03	Sr90 (Ci)
76	3.729E-07	0.000E+00	3.729E-07	Y90 (Ci)
77	4.702E-01	0.000E+00	4.702E-01	Tc99 (Ci)
78	4.439E-02	0.000E+00	4.439E-02	Cs137 (Ci)
79	6.793E-09	0.000E+00	6.793E-09	Ba137 (Ci)
80	2.419E+00	0.000E+00	2.419E+00	U235 (Ci)
81	3.590E+02	0.000E+00	3.590E+02	U238 (Ci)
82	4.478E-03	0.000E+00	4.478E-03	Np237 (Ci)
83	2.529E-06	0.000E+00	2.529E-06	Pu238 (Ci)
84	7.302E-03	0.000E+00	7.302E-03	Pu239 (Ci)
85	2.746E-04	0.000E+00	2.746E-04	Pu240 (Ci)
86	2.470E-06	0.000E+00	2.470E-06	Pu241 (Ci)
87	8.602E-04	0.000E+00	8.602E-04	Am241 (Ci)
88	1.048E-08	0.000E+00	1.048E-08	Cm244 (Ci)
89	3.916E+06	0.000E+00	3.916E+06	Total
Tot	3.916E+06	0.000E+00	3.916E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
203	7.568E+03	6.996E+02	0.000E+00	6.996E+02

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	3.145E+04	0.000E+00	3.145E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	1.141E+01	0.000E+00	1.141E+01	BI+3
10	4.001E+00	0.000E+00	4.001E+00	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	6.212E-01	0.000E+00	6.212E-01	CE+3
14	3.811E+02	0.000E+00	3.811E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	1.493E+03	0.000E+00	1.493E+03	CO3-2
18	8.871E+02	0.000E+00	8.871E+02	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	4.249E-02	0.000E+00	4.249E-02	CS+
21	1.062E-02	0.000E+00	1.062E-02	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	1.541E+03	0.000E+00	1.541E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	1.763E+01	0.000E+00	1.763E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	2.544E+06	0.000E+00	2.544E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	7.742E+01	0.000E+00	7.742E+01	K+
32	1.375E-01	0.000E+00	1.375E-01	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	3.788E+00	0.000E+00	3.788E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	1.224E+05	0.000E+00	1.224E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	2.562E+00	0.000E+00	2.562E+00	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	6.880E+03	0.000E+00	6.880E+03	NO2-
44	6.871E+04	0.000E+00	6.871E+04	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	5.092E+04	0.000E+00	5.092E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	2.785E-01	0.000E+00	2.785E-01	PB+4
49	2.099E+04	0.000E+00	2.099E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	2.016E-03	0.000E+00	2.016E-03	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SN+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	9.405E+02	0.000E+00	9.405E+02	SO4-2
61	2.623E+00	0.000E+00	2.623E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	4.596E+02	0.000E+00	4.596E+02	TOC
68	6.835E+01	0.000E+00	6.835E+01	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	1.832E+00	0.000E+00	1.832E+00	ZRO2:2H2O
74	3.204E-05	0.000E+00	3.204E-05	C14 (Ci)
75	4.526E-04	0.000E+00	4.526E-04	Sr90 (Ci)
76	1.159E-07	0.000E+00	1.159E-07	Y90 (Ci)
77	7.617E-02	0.000E+00	7.617E-02	Tc99 (Ci)
78	1.062E-02	0.000E+00	1.062E-02	Cs137 (Ci)
79	1.625E-09	0.000E+00	1.625E-09	Ba137 (Ci)
80	3.608E-01	0.000E+00	3.608E-01	U235 (Ci)
81	5.373E+01	0.000E+00	5.373E+01	U238 (Ci)
82	1.060E-03	0.000E+00	1.060E-03	Np237 (Ci)
83	2.653E-07	0.000E+00	2.653E-07	Pu238 (Ci)
84	1.864E-03	0.000E+00	1.864E-03	Pu239 (Ci)
85	6.449E-05	0.000E+00	6.449E-05	Pu240 (Ci)
86	4.432E-07	0.000E+00	4.432E-07	Pu241 (Ci)
87	1.335E-04	0.000E+00	1.335E-04	Am241 (Ci)
88	1.180E-09	0.000E+00	1.180E-09	Cm244 (Ci)
89	2.850E+06	0.000E+00	2.850E+06	Total
Tot	2.850E+06	0.000E+00	2.850E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
204	7.649E+03	8.531E+02	0.000E+00	8.531E+02

Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.066E+04	0.000E+00	2.066E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	5.016E+00	0.000E+00	5.016E+00	BI+3
10	1.964E+00	0.000E+00	1.964E+00	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	2.756E-01	0.000E+00	2.756E-01	CE+3
14	1.760E+02	0.000E+00	1.760E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	7.190E+02	0.000E+00	7.190E+02	CO3-2
18	6.289E+02	0.000E+00	6.289E+02	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.945E-02	0.000E+00	1.945E-02	CS+
21	4.863E-03	0.000E+00	4.863E-03	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	6.369E+02	0.000E+00	6.369E+02	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	8.114E+00	0.000E+00	8.114E+00	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.179E+06	0.000E+00	3.179E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	3.461E+01	0.000E+00	3.461E+01	K+
32	5.490E-02	0.000E+00	5.490E-02	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	1.758E+00	0.000E+00	1.758E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	5.644E+04	0.000E+00	5.644E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.250E+00	0.000E+00	1.250E+00	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	3.147E+03	0.000E+00	3.147E+03	NO2-
44	3.305E+04	0.000E+00	3.305E+04	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot(kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	2.267E+04	0.000E+00	2.267E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.118E-01	0.000E+00	1.118E-01	PB+4
49	8.562E+03	0.000E+00	8.562E+03	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	8.050E-04	0.000E+00	8.050E-04	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SN+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	4.348E+02	0.000E+00	4.348E+02	SO4-2
61	1.047E+00	0.000E+00	1.047E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	2.042E+02	0.000E+00	2.042E+02	TOC
68	2.889E+01	0.000E+00	2.889E+01	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	7.325E-01	0.000E+00	7.325E-01	ZRO2:2H2O
74	1.814E-05	0.000E+00	1.814E-05	C14 (Ci)
75	1.906E-04	0.000E+00	1.906E-04	Sr90 (Ci)
76	4.880E-08	0.000E+00	4.880E-08	Y90 (Ci)
77	4.064E-02	0.000E+00	4.064E-02	Tc99 (Ci)
78	4.863E-03	0.000E+00	4.863E-03	Cs137 (Ci)
79	7.442E-10	0.000E+00	7.442E-10	Ba137 (Ci)
80	1.998E-01	0.000E+00	1.998E-01	U235 (Ci)
81	2.971E+01	0.000E+00	2.971E+01	U238 (Ci)
82	4.873E-04	0.000E+00	4.873E-04	Np237 (Ci)
83	1.754E-07	0.000E+00	1.754E-07	Pu238 (Ci)
84	8.346E-04	0.000E+00	8.346E-04	Pu239 (Ci)
85	2.971E-05	0.000E+00	2.971E-05	Pu240 (Ci)
86	2.263E-07	0.000E+00	2.263E-07	Pu241 (Ci)
87	7.260E-05	0.000E+00	7.260E-05	Am241 (Ci)
88	7.511E-10	0.000E+00	7.511E-10	Cm244 (Ci)
89	3.325E+06	0.000E+00	3.325E+06	Total
Tot	3.325E+06	0.000E+00	3.325E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
205	7.655E+03	6.023E+02	0.000E+00	6.023E+02

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	9.067E+03	0.000E+00	9.067E+03	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	1.247E+01	0.000E+00	1.247E+01	BI+3
10	9.509E+00	0.000E+00	9.509E+00	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	7.305E-01	0.000E+00	7.305E-01	CE+3
14	6.237E+02	0.000E+00	6.237E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	3.184E+03	0.000E+00	3.184E+03	CO3-2
18	6.290E+02	0.000E+00	6.290E+02	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	6.510E-02	0.000E+00	6.510E-02	CS+
21	1.627E-02	0.000E+00	1.627E-02	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	6.865E+02	0.000E+00	6.865E+02	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	2.840E+01	0.000E+00	2.840E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	2.199E+06	0.000E+00	2.199E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	9.806E+01	0.000E+00	9.806E+01	K+
32	1.415E-02	0.000E+00	1.415E-02	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	6.401E+00	0.000E+00	6.401E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	8.784E+04	0.000E+00	8.784E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	5.906E+00	0.000E+00	5.906E+00	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	1.046E+04	0.000E+00	1.046E+04	NO2-
44	1.459E+05	0.000E+00	1.459E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.572E+04	0.000E+00	1.572E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	3.646E-02	0.000E+00	3.646E-02	PB+4
49	4.584E+03	0.000E+00	4.584E+03	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	2.793E-04	0.000E+00	2.793E-04	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.553E+03	0.000E+00	1.553E+03	SO4-2
61	2.697E-01	0.000E+00	2.697E-01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	5.497E+02	0.000E+00	5.497E+02	TOC
68	4.369E+01	0.000E+00	4.369E+01	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	2.278E-01	0.000E+00	2.278E-01	ZRO2:2H2O
74	1.366E-04	0.000E+00	1.366E-04	C14 (Ci)
75	2.899E-04	0.000E+00	2.899E-04	Sr90 (Ci)
76	7.421E-08	0.000E+00	7.421E-08	Y90 (Ci)
77	2.626E-01	0.000E+00	2.626E-01	Tc99 (Ci)
78	1.627E-02	0.000E+00	1.627E-02	Cs137 (Ci)
79	2.490E-09	0.000E+00	2.490E-09	Ba137 (Ci)
80	1.433E+00	0.000E+00	1.433E+00	U235 (Ci)
81	2.121E+02	0.000E+00	2.121E+02	U238 (Ci)
82	1.665E-03	0.000E+00	1.665E-03	Np237 (Ci)
83	1.776E-06	0.000E+00	1.776E-06	Pu238 (Ci)
84	2.444E-03	0.000E+00	2.444E-03	Pu239 (Ci)
85	1.054E-04	0.000E+00	1.054E-04	Pu240 (Ci)
86	1.282E-06	0.000E+00	1.282E-06	Pu241 (Ci)
87	4.966E-04	0.000E+00	4.966E-04	Am241 (Ci)
88	7.125E-09	0.000E+00	7.125E-09	Cm244 (Ci)
89	2.480E+06	0.000E+00	2.480E+06	Total
Tot	2.480E+06	0.000E+00	2.480E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
206	7.769E+03	9.450E+02	0.000E+00	9.450E+02

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	2.997E+04	0.000E+00	2.997E+04	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	4.068E+01	0.000E+00	4.068E+01	BI+3
10	2.261E+01	0.000E+00	2.261E+01	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	1.580E+00	0.000E+00	1.580E+00	CE+3
14	1.246E+03	0.000E+00	1.246E+03	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	4.422E+03	0.000E+00	4.422E+03	CO3-2
18	1.767E+03	0.000E+00	1.767E+03	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	6.189E-02	0.000E+00	6.189E-02	CS+
21	1.547E-02	0.000E+00	1.547E-02	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	2.120E+03	0.000E+00	2.120E+03	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	6.371E+01	0.000E+00	6.371E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	3.392E+06	0.000E+00	3.392E+06	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.291E+02	0.000E+00	1.291E+02	K+
32	9.673E-03	0.000E+00	9.673E-03	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	8.498E+00	0.000E+00	8.498E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	1.922E+05	0.000E+00	1.922E+05	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	1.396E+01	0.000E+00	1.396E+01	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	2.036E+04	0.000E+00	2.036E+04	NO2-
44	3.212E+05	0.000E+00	3.212E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	3.088E+04	0.000E+00	3.088E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	3.552E-02	0.000E+00	3.552E-02	PB+4
49	1.448E+04	0.000E+00	1.448E+04	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	7.068E-06	0.000E+00	7.068E-06	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	3.749E+03	0.000E+00	3.749E+03	SO4-2
61	1.845E-01	0.000E+00	1.845E-01	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	9.212E+02	0.000E+00	9.212E+02	TOC
68	7.223E+01	0.000E+00	7.223E+01	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	2.879E-01	0.000E+00	2.879E-01	ZRO2:2H2O
74	1.222E-04	0.000E+00	1.222E-04	C14 (Ci)
75	5.595E-04	0.000E+00	5.595E-04	Sr90 (Ci)
76	1.432E-07	0.000E+00	1.432E-07	Y90 (Ci)
77	1.955E-01	0.000E+00	1.955E-01	Tc99 (Ci)
78	1.547E-02	0.000E+00	1.547E-02	Cs137 (Ci)
79	2.365E-09	0.000E+00	2.365E-09	Ba137 (Ci)
80	2.603E+00	0.000E+00	2.603E+00	U235 (Ci)
81	3.913E+02	0.000E+00	3.913E+02	U238 (Ci)
82	1.613E-03	0.000E+00	1.613E-03	Np237 (Ci)
83	1.123E-06	0.000E+00	1.123E-06	Pu238 (Ci)
84	1.890E-03	0.000E+00	1.890E-03	Pu239 (Ci)
85	7.598E-05	0.000E+00	7.598E-05	Pu240 (Ci)
86	8.587E-07	0.000E+00	8.587E-07	Pu241 (Ci)
87	3.608E-04	0.000E+00	3.608E-04	Am241 (Ci)
88	4.871E-09	0.000E+00	4.871E-09	Cm244 (Ci)
89	4.014E+06	0.000E+00	4.014E+06	Total
Tot	4.014E+06	0.000E+00	4.014E+06	

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Batch	Time (days)	Vliq (kgal)	Vinsol (kgal)	Vtot (kgal)
207	7.794E+03	2.146E+02	0.000E+00	2.146E+02

Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
1	0.000E+00	0.000E+00	0.000E+00	AG+
2	9.799E+03	0.000E+00	9.799E+03	AL(OH)4-
3	0.000E+00	0.000E+00	0.000E+00	AL+3
4	0.000E+00	0.000E+00	0.000E+00	AM+3
5	0.000E+00	0.000E+00	0.000E+00	AS+5
6	0.000E+00	0.000E+00	0.000E+00	B+3
7	0.000E+00	0.000E+00	0.000E+00	BA+2
8	0.000E+00	0.000E+00	0.000E+00	BE+2
9	5.393E+00	0.000E+00	5.393E+00	BI+3
10	7.892E+00	0.000E+00	7.892E+00	CA+2
11	0.000E+00	0.000E+00	0.000E+00	CANCRINITE
12	0.000E+00	0.000E+00	0.000E+00	CD+2
13	7.631E-01	0.000E+00	7.631E-01	CE+3
14	6.263E+02	0.000E+00	6.263E+02	CL-
15	0.000E+00	0.000E+00	0.000E+00	CM+3
16	0.000E+00	0.000E+00	0.000E+00	CO+3
17	3.875E+03	0.000E+00	3.875E+03	CO3-2
18	6.361E+02	0.000E+00	6.361E+02	CR(OH)4-
19	0.000E+00	0.000E+00	0.000E+00	CR+3
20	1.034E-01	0.000E+00	1.034E-01	CS+
21	2.584E-02	0.000E+00	2.584E-02	CS-137
22	0.000E+00	0.000E+00	0.000E+00	CU+2
23	2.507E+02	0.000E+00	2.507E+02	F-
24	0.000E+00	0.000E+00	0.000E+00	FE+2
25	2.483E+01	0.000E+00	2.483E+01	FE+3
26	0.000E+00	0.000E+00	0.000E+00	FECN6-3
27	0.000E+00	0.000E+00	0.000E+00	H+
28	7.407E+05	0.000E+00	7.407E+05	H2O
29	0.000E+00	0.000E+00	0.000E+00	HG+2
30	0.000E+00	0.000E+00	0.000E+00	I-
31	1.210E+02	0.000E+00	1.210E+02	K+
32	0.000E+00	0.000E+00	0.000E+00	LA+3
33	0.000E+00	0.000E+00	0.000E+00	LI+
34	0.000E+00	0.000E+00	0.000E+00	MG+2
35	0.000E+00	0.000E+00	0.000E+00	MN+2
36	8.066E+00	0.000E+00	8.066E+00	MN+4
37	0.000E+00	0.000E+00	0.000E+00	MNO2
38	0.000E+00	0.000E+00	0.000E+00	MO+6
39	7.840E+04	0.000E+00	7.840E+04	NA+
40	0.000E+00	0.000E+00	0.000E+00	NB+5
41	4.919E+00	0.000E+00	4.919E+00	NI+3
42	0.000E+00	0.000E+00	0.000E+00	NI2FECN6
43	1.060E+04	0.000E+00	1.060E+04	NO2-
44	1.336E+05	0.000E+00	1.336E+05	NO3-

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Chem	Mliq (kg)	Minsol (kg)	Mtot (kg)	
45	0.000E+00	0.000E+00	0.000E+00	NP+4
46	1.397E+04	0.000E+00	1.397E+04	OH-
47	0.000E+00	0.000E+00	0.000E+00	P2O5:24WO2:44H2O
48	1.819E-02	0.000E+00	1.819E-02	PB+4
49	1.014E+03	0.000E+00	1.014E+03	PO4-3
50	0.000E+00	0.000E+00	0.000E+00	PU-239
51	0.000E+00	0.000E+00	0.000E+00	RB+
52	0.000E+00	0.000E+00	0.000E+00	RE+7
53	0.000E+00	0.000E+00	0.000E+00	RH+3
54	0.000E+00	0.000E+00	0.000E+00	RU+3
55	0.000E+00	0.000E+00	0.000E+00	SB+5
56	0.000E+00	0.000E+00	0.000E+00	SE+6
57	0.000E+00	0.000E+00	0.000E+00	SI+4
58	0.000E+00	0.000E+00	0.000E+00	SM+3
59	0.000E+00	0.000E+00	0.000E+00	SN+4
60	1.202E+03	0.000E+00	1.202E+03	SO4-2
61	0.000E+00	0.000E+00	0.000E+00	SR+2
62	0.000E+00	0.000E+00	0.000E+00	TCO4-
63	0.000E+00	0.000E+00	0.000E+00	TE+6
64	0.000E+00	0.000E+00	0.000E+00	TH+4
65	0.000E+00	0.000E+00	0.000E+00	TI+4
66	0.000E+00	0.000E+00	0.000E+00	TL+3
67	6.026E+02	0.000E+00	6.026E+02	TOC
68	1.827E+01	0.000E+00	1.827E+01	UO2+2
69	0.000E+00	0.000E+00	0.000E+00	V+5
70	0.000E+00	0.000E+00	0.000E+00	W+6
71	0.000E+00	0.000E+00	0.000E+00	ZN+2
72	0.000E+00	0.000E+00	0.000E+00	ZR+4
73	0.000E+00	0.000E+00	0.000E+00	ZRO2:2H2O
74	2.182E-04	0.000E+00	2.182E-04	C14 (Ci)
75	2.953E-04	0.000E+00	2.953E-04	Sr90 (Ci)
76	7.558E-08	0.000E+00	7.558E-08	Y90 (Ci)
77	4.386E-01	0.000E+00	4.386E-01	Tc99 (Ci)
78	2.584E-02	0.000E+00	2.584E-02	Cs137 (Ci)
79	3.954E-09	0.000E+00	3.954E-09	Ba137 (Ci)
80	1.765E+00	0.000E+00	1.765E+00	U235 (Ci)
81	2.589E+02	0.000E+00	2.589E+02	U238 (Ci)
82	2.658E-03	0.000E+00	2.658E-03	Np237 (Ci)
83	3.016E-06	0.000E+00	3.016E-06	Pu238 (Ci)
84	3.916E-03	0.000E+00	3.916E-03	Pu239 (Ci)
85	1.718E-04	0.000E+00	1.718E-04	Pu240 (Ci)
86	2.142E-06	0.000E+00	2.142E-06	Pu241 (Ci)
87	8.300E-04	0.000E+00	8.300E-04	Am241 (Ci)
88	1.210E-08	0.000E+00	1.210E-08	Cm244 (Ci)
89	9.953E+05	0.000E+00	9.953E+05	Total
Tot	9.953E+05	0.000E+00	9.953E+05	

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APPENDIX I

LOW-LEVEL WASTE COMPOSITION

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LOW-LEVEL WASTE COMPOSITION

	Al2O3	CaO	Cr2O3	K2O	Na2O	P2O5	SiO2	UO3	Cl-	F-	SO3	VAULTS
1	5.00E-02	1.00E-01	2.18E-03	1.41E-03	2.00E-01	7.88E-03	6.38E-01	4.77E-08	.00E+00	.00E+00	.00E+00	3.15E-01
2	5.00E-02	1.00E-01	4.73E-04	3.87E-04	2.00E-01	2.67E-03	6.46E-01	3.21E-04	.00E+00	.00E+00	.00E+00	3.41E-01
3	5.00E-02	1.00E-01	6.97E-04	8.39E-04	2.00E-01	5.45E-03	6.43E-01	2.14E-04	.00E+00	.00E+00	.00E+00	3.28E-01
4	5.00E-02	1.00E-01	2.76E-04	4.25E-03	2.00E-01	2.49E-03	6.43E-01	4.49E-05	.00E+00	.00E+00	.00E+00	3.15E-01
5	5.00E-02	1.00E-01	4.63E-04	4.12E-04	2.00E-01	2.64E-03	6.46E-01	3.09E-04	.00E+00	.00E+00	.00E+00	3.39E-01
6	5.00E-02	1.00E-01	4.92E-04	2.46E-03	2.00E-01	1.44E-03	6.45E-01	1.20E-04	.00E+00	.00E+00	.00E+00	3.41E-01
7	5.00E-02	1.00E-01	5.18E-04	3.87E-03	2.00E-01	7.43E-04	6.45E-01	.00E+00	.00E+00	.00E+00	.00E+00	3.41E-01
8	5.00E-02	1.00E-01	5.29E-04	7.82E-03	2.00E-01	2.96E-04	6.41E-01	.00E+00	.00E+00	.00E+00	.00E+00	3.41E-01
9	5.00E-02	1.00E-01	1.47E-04	3.16E-02	2.00E-01	9.87E-04	6.17E-01	.00E+00	.00E+00	.00E+00	.00E+00	3.41E-01
10	5.00E-02	1.00E-01	5.19E-04	4.46E-03	2.00E-01	6.76E-04	6.44E-01	.00E+00	.00E+00	.00E+00	.00E+00	3.41E-01
11	5.00E-02	1.00E-01	5.29E-04	7.82E-03	2.00E-01	2.96E-04	6.41E-01	.00E+00	.00E+00	.00E+00	.00E+00	3.41E-01
12	5.00E-02	1.00E-01	2.14E-04	2.74E-02	2.00E-01	8.65E-04	6.21E-01	.00E+00	.00E+00	.00E+00	.00E+00	3.41E-01
13	5.00E-02	1.00E-01	2.79E-04	2.62E-02	2.00E-01	7.33E-04	6.23E-01	6.05E-05	.00E+00	.00E+00	.00E+00	3.41E-01
14	5.00E-02	1.00E-01	2.14E-04	2.48E-03	2.00E-01	2.38E-03	6.44E-01	7.71E-05	.00E+00	.00E+00	.00E+00	3.41E-01
15	5.00E-02	1.00E-01	4.12E-04	8.42E-03	2.00E-01	2.05E-03	6.39E-01	2.41E-04	.00E+00	.00E+00	.00E+00	3.41E-01
16	5.00E-02	1.00E-01	3.73E-03	2.13E-03	2.00E-01	1.94E-03	6.41E-01	.00E+00	.00E+00	.00E+00	.00E+00	3.41E-01
17	5.00E-02	1.00E-01	2.93E-03	2.72E-03	2.00E-01	1.73E-03	6.42E-01	.00E+00	.00E+00	.00E+00	.00E+00	3.41E-01
18	5.00E-02	1.00E-01	2.08E-04	2.75E-03	2.00E-01	3.56E-03	6.43E-01	3.59E-06	.00E+00	.00E+00	.00E+00	3.41E-01
19	5.00E-02	1.00E-01	5.18E-04	5.21E-03	2.00E-01	9.16E-04	6.43E-01	.00E+00	.00E+00	.00E+00	.00E+00	3.41E-01
20	5.00E-02	1.00E-01	4.70E-04	6.80E-04	2.00E-01	2.64E-03	6.46E-01	3.20E-04	.00E+00	.00E+00	.00E+00	3.41E-01
21	5.00E-02	1.00E-01	4.25E-04	3.99E-03	2.00E-01	1.83E-03	6.44E-01	.00E+00	.00E+00	.00E+00	.00E+00	3.41E-01
22	5.00E-02	1.00E-01	2.08E-04	2.77E-03	2.00E-01	3.62E-03	6.43E-01	.00E+00	.00E+00	.00E+00	.00E+00	3.41E-01
23	5.00E-02	1.00E-01	4.14E-04	1.27E-03	2.00E-01	1.53E-03	6.46E-01	3.31E-04	.00E+00	.00E+00	.00E+00	1.26E-01
24	5.00E-02	1.00E-01	2.06E-04	3.52E-03	2.00E-01	2.00E-03	6.43E-01	6.50E-04	.00E+00	.00E+00	.00E+00	1.21E-01
25	5.00E-02	1.00E-01	2.43E-04	5.89E-04	2.00E-01	2.79E-03	6.46E-01	1.36E-04	.00E+00	.00E+00	.00E+00	2.91E-01
26	5.00E-02	1.00E-01	1.98E-04	2.21E-04	2.00E-01	8.55E-03	6.41E-01	6.52E-05	.00E+00	.00E+00	.00E+00	3.41E-01
27	5.00E-02	1.00E-01	8.95E-04	9.28E-04	2.00E-01	4.92E-04	6.46E-01	1.18E-03	.00E+00	.00E+00	.00E+00	2.74E-01
28	5.00E-02	1.00E-01	6.74E-04	6.00E-04	2.00E-01	6.88E-03	6.41E-01	8.11E-04	.00E+00	.00E+00	.00E+00	2.79E-01
29	5.00E-02	1.00E-01	2.59E-04	2.85E-04	2.00E-01	2.34E-03	6.47E-01	3.50E-04	.00E+00	.00E+00	.00E+00	2.21E-01
30	5.00E-02	1.00E-01	2.30E-03	1.38E-04	2.00E-01	3.66E-03	6.43E-01	8.10E-04	.00E+00	.00E+00	.00E+00	2.60E-01
31	5.00E-02	1.00E-01	1.01E-03	3.06E-04	2.00E-01	2.54E-03	6.45E-01	1.39E-03	.00E+00	.00E+00	.00E+00	2.77E-01
32	5.00E-02	1.00E-01	6.57E-04	2.75E-04	2.00E-01	8.91E-03	6.39E-01	5.19E-04	.00E+00	.00E+00	.00E+00	2.84E-01
33	5.00E-02	1.00E-01	4.47E-03	5.42E-04	2.00E-01	4.80E-03	6.40E-01	1.93E-04	.00E+00	.00E+00	.00E+00	3.09E-01
34	5.00E-02	1.00E-01	3.76E-03	2.38E-04	2.00E-01	1.37E-02	6.32E-01	4.03E-04	.00E+00	.00E+00	.00E+00	3.09E-01
35	5.00E-02	1.00E-01	5.83E-04	9.58E-04	2.00E-01	7.29E-03	6.41E-01	2.20E-04	.00E+00	.00E+00	.00E+00	1.90E-01
36	5.00E-02	1.00E-01	2.08E-03	9.04E-04	2.00E-01	7.53E-03	6.39E-01	1.29E-04	.00E+00	.00E+00	.00E+00	2.17E-01
37	5.00E-02	1.00E-01	2.33E-03	3.44E-04	2.00E-01	3.50E-03	6.43E-01	2.83E-04	.00E+00	.00E+00	.00E+00	1.36E-01
38	5.00E-02	1.00E-01	3.72E-03	1.67E-03	2.00E-01	5.64E-03	6.39E-01	2.32E-04	.00E+00	.00E+00	.00E+00	1.20E-01
39	5.00E-02	1.00E-01	3.27E-03	2.58E-04	2.00E-01	7.31E-03	6.39E-01	3.99E-04	.00E+00	.00E+00	.00E+00	2.26E-01
40	5.00E-02	1.00E-01	1.47E-03	1.73E-04	2.00E-01	1.53E-02	6.33E-01	3.22E-04	.00E+00	.00E+00	.00E+00	2.44E-01
41	5.00E-02	1.00E-01	1.27E-03	3.71E-04	2.00E-01	1.23E-02	6.36E-01	3.26E-04	.00E+00	.00E+00	.00E+00	1.14E-01
42	5.00E-02	1.00E-01	2.04E-03	6.14E-04	2.00E-01	8.35E-03	6.38E-01	4.34E-04	.00E+00	.00E+00	.00E+00	1.91E-01
43	5.00E-02	1.00E-01	3.02E-03	3.24E-04	2.00E-01	1.09E-02	6.35E-01	2.12E-04	.00E+00	.00E+00	.00E+00	5.46E-02
44	5.00E-02	1.00E-01	5.38E-04	4.62E-04	2.00E-01	1.82E-02	6.30E-01	2.31E-04	.00E+00	.00E+00	.00E+00	5.09E-02
45	5.00E-02	1.00E-01	5.18E-04	5.79E-04	2.00E-01	4.35E-03	6.44E-01	2.62E-04	.00E+00	.00E+00	.00E+00	2.80E-01
46	5.00E-02	1.00E-01	2.00E-03	1.28E-03	2.00E-01	6.51E-03	6.40E-01	1.19E-04	.00E+00	.00E+00	.00E+00	1.14E-01
47	5.00E-02	1.00E-01	2.40E-03	7.89E-04	2.00E-01	1.43E-02	6.32E-01	1.49E-04	.00E+00	.00E+00	.00E+00	3.90E-02
48	5.00E-02	1.00E-01	2.56E-03	1.18E-04	2.00E-01	1.18E-02	6.35E-01	3.25E-04	.00E+00	.00E+00	.00E+00	3.42E-02
49	5.00E-02	1.00E-01	7.69E-04	3.15E-04	2.00E-01	7.69E-03	6.41E-01	3.03E-04	.00E+00	.00E+00	.00E+00	4.77E-02
50	5.00E-02	1.00E-01	4.29E-04	3.57E-04	2.00E-01	1.14E-02	6.37E-01	2.41E-04	.00E+00	.00E+00	.00E+00	3.17E-02
51	5.00E-02	1.00E-01	4.02E-04	2.40E-04	2.00E-01	1.04E-02	6.39E-01	2.57E-04	.00E+00	.00E+00	.00E+00	1.97E-01
52	5.00E-02	1.00E-01	5.44E-04	3.81E-04	2.00E-01	7.06E-03	6.42E-01	1.84E-04	.00E+00	.00E+00	.00E+00	2.64E-01
53	5.00E-02	1.00E-01	5.69E-04	3.19E-04	2.00E-01	6.90E-03	6.42E-01	2.89E-04	.00E+00	.00E+00	.00E+00	2.87E-01
54	5.00E-02	1.00E-01	1.82E-03	2.34E-04	2.00E-01	1.71E-02	6.30E-01	2.34E-04	.00E+00	.00E+00	.00E+00	1.40E-01
55	5.00E-02	1.00E-01	2.27E-03	2.73E-04	2.00E-01	7.96E-03	6.39E-01	1.95E-04	.00E+00	.00E+00	.00E+00	2.78E-01
56	5.00E-02	1.00E-01	2.35E-03	1.78E-04	2.00E-01	1.08E-02	6.36E-01	3.39E-04	.00E+00	.00E+00	.00E+00	2.56E-01
57	5.00E-02	1.00E-01	1.44E-03	2.62E-04	2.00E-01	7.09E-03	6.41E-01	2.76E-04	.00E+00	.00E+00	.00E+00	2.97E-01
58	5.00E-02	1.00E-01	4.52E-04	1.54E-04	2.00E-01	1.12E-02	6.38E-01	2.77E-04	.00E+00	.00E+00	.00E+00	3.00E-01
59	5.00E-02	1.00E-01	4.91E-04	1.79E-04	2.00E-01	1.11E-02	6.38E-01	2.06E-04	.00E+00	.00E+00	.00E+00	2.75E-01
60	5.00E-02	1.00E-01	4.58E-04	1.82E-04	2.00E-01	9.11E-03	6.40E-01	9.17E-05	.00E+00	.00E+00	.00E+00	2.63E-01
61	5.00E-02	1.00E-01	1.20E-03	1.70E-04	2.00E-01	1.14E-02	6.37E-01	3.46E-04	.00E+00	.00E+00	.00E+00	2.31E-01
62	5.00E-02	1.00E-01	5.58E-04	1.64E-04	2.00E-01	1.08E-02	6.38E-01	2.57E-04	.00E+00	.00E+00	.00E+00	2.66E-01
63	5.00E-02	1.00E-01	4.30E-04	1.76E-04	2.00E-01	6.18E-03	6.43E-01	2.22E-04	.00E+00	.00E+00	.00E+00	3.11E-01
64	5.00E-02	1.00E-01	5.79E-04	1.25E-04	2.00E-01	1.92E-02	6.30E-01	2.39E-04	.00E+00	.00E+00	.00E+00	2.12E-01
65	5.00E-02	1.00E-01	5.74E-04	1.41E-04	2.00E-01	1.38E-02	6.35E-01	1.89E-04	.00E+00	.00E+00	.00E+00	2.44E-01
66	5.00E-02	1.00E-01	4.31E-04	1.38E-04	2.00E-01	1.40E-02	6.35E-01	4.03E-04	.00E+00	.00E+00	.00E+00	2.00E-01

	Al2O3	CaO	Cr2O3	K2O	Na2O	P2O5	SiO2	UO3	Cl-	F-	SO3	VAULTS
67	5.00E-02	1.00E-01	3.87E-04	1.61E-04	2.00E-01	1.04E-02	6.39E-01	2.68E-04	.00E+00	.00E+00	.00E+00	2.54E-01
68	5.00E-02	1.00E-01	4.20E-04	1.55E-04	2.00E-01	7.86E-03	6.41E-01	3.06E-04	.00E+00	.00E+00	.00E+00	2.95E-01
69	5.00E-02	1.00E-01	4.83E-04	1.81E-04	2.00E-01	4.65E-03	6.44E-01	8.67E-05	.00E+00	.00E+00	.00E+00	3.09E-01
70	5.00E-02	1.00E-01	3.21E-04	1.44E-04	2.00E-01	1.19E-02	6.37E-01	7.37E-04	.00E+00	.00E+00	.00E+00	2.90E-01
71	5.00E-02	1.00E-01	4.24E-04	1.51E-04	2.00E-01	8.13E-03	6.41E-01	2.06E-04	.00E+00	.00E+00	.00E+00	1.44E-01
72	5.00E-02	1.00E-01	3.88E-04	1.83E-04	2.00E-01	8.22E-03	6.41E-01	3.74E-04	.00E+00	.00E+00	.00E+00	2.65E-01
73	5.00E-02	1.00E-01	3.87E-04	1.40E-04	2.00E-01	7.53E-03	6.41E-01	7.09E-04	.00E+00	.00E+00	.00E+00	2.14E-01
74	5.00E-02	1.00E-01	3.91E-04	1.73E-04	2.00E-01	7.74E-03	6.41E-01	3.76E-04	.00E+00	.00E+00	.00E+00	2.62E-01
75	5.00E-02	1.00E-01	3.99E-04	1.57E-04	2.00E-01	6.17E-03	6.43E-01	5.49E-04	.00E+00	.00E+00	.00E+00	2.70E-01
76	5.00E-02	1.00E-01	4.61E-04	1.85E-04	2.00E-01	3.55E-03	6.45E-01	2.58E-04	.00E+00	.00E+00	.00E+00	3.18E-01
77	5.00E-02	1.00E-01	5.15E-04	1.52E-04	2.00E-01	4.48E-03	6.45E-01	1.35E-04	.00E+00	.00E+00	.00E+00	2.37E-01
78	5.00E-02	1.00E-01	5.07E-04	1.62E-04	2.00E-01	3.85E-03	6.45E-01	2.25E-04	.00E+00	.00E+00	.00E+00	3.08E-01
79	5.00E-02	1.00E-01	4.89E-04	1.80E-04	2.00E-01	3.77E-03	6.45E-01	1.95E-04	.00E+00	.00E+00	.00E+00	2.42E-01
80	5.00E-02	1.00E-01	5.44E-04	1.49E-04	2.00E-01	2.62E-03	6.46E-01	9.73E-05	.00E+00	.00E+00	.00E+00	2.94E-01
81	5.00E-02	1.00E-01	4.17E-04	2.23E-04	2.00E-01	2.94E-03	6.46E-01	1.91E-04	.00E+00	.00E+00	.00E+00	3.01E-01
82	5.00E-02	1.00E-01	5.36E-04	1.52E-04	2.00E-01	2.91E-03	6.46E-01	1.42E-04	.00E+00	.00E+00	.00E+00	3.01E-01
83	5.00E-02	1.00E-01	5.43E-04	1.70E-04	2.00E-01	2.28E-03	6.47E-01	2.10E-04	.00E+00	.00E+00	.00E+00	2.70E-01
84	5.00E-02	1.00E-01	4.81E-04	1.45E-04	2.00E-01	4.66E-03	6.44E-01	1.79E-04	.00E+00	.00E+00	.00E+00	2.74E-01
85	5.00E-02	1.00E-01	5.28E-04	1.39E-04	2.00E-01	1.96E-03	6.47E-01	2.32E-04	.00E+00	.00E+00	.00E+00	2.35E-01
86	5.00E-02	1.00E-01	4.82E-04	2.03E-04	2.00E-01	1.86E-03	6.47E-01	1.16E-04	.00E+00	.00E+00	.00E+00	3.09E-01
87	5.00E-02	1.00E-01	5.71E-04	1.28E-04	2.00E-01	3.63E-03	6.45E-01	1.33E-04	.00E+00	.00E+00	.00E+00	2.51E-01
88	5.00E-02	1.00E-01	5.17E-04	1.59E-04	2.00E-01	2.37E-03	6.47E-01	1.61E-04	.00E+00	.00E+00	.00E+00	2.86E-01
89	5.00E-02	1.00E-01	5.38E-04	1.26E-04	2.00E-01	2.45E-03	6.47E-01	1.61E-04	.00E+00	.00E+00	.00E+00	2.66E-01
90	5.00E-02	1.00E-01	4.48E-04	1.38E-04	2.00E-01	6.41E-03	6.43E-01	1.53E-04	.00E+00	.00E+00	.00E+00	2.14E-01
91	5.00E-02	1.00E-01	4.53E-04	1.37E-04	2.00E-01	7.09E-03	6.42E-01	1.54E-04	.00E+00	.00E+00	.00E+00	3.11E-01
92	5.00E-02	1.00E-01	4.85E-04	1.36E-04	2.00E-01	6.89E-03	6.42E-01	1.14E-04	.00E+00	.00E+00	.00E+00	2.42E-01
93	5.00E-02	1.00E-01	5.19E-04	1.43E-04	2.00E-01	4.66E-03	6.44E-01	1.09E-04	.00E+00	.00E+00	.00E+00	2.74E-01
94	5.00E-02	1.00E-01	6.10E-04	1.30E-04	2.00E-01	2.81E-03	6.46E-01	1.16E-04	.00E+00	.00E+00	.00E+00	2.96E-01
95	5.00E-02	1.00E-01	6.70E-04	1.34E-04	2.00E-01	5.90E-03	6.43E-01	9.40E-05	.00E+00	.00E+00	.00E+00	2.88E-01
96	5.00E-02	1.00E-01	7.14E-04	1.52E-04	2.00E-01	4.16E-03	6.45E-01	1.01E-04	.00E+00	.00E+00	.00E+00	2.68E-01
97	5.00E-02	1.00E-01	6.83E-04	1.38E-04	2.00E-01	3.96E-03	6.45E-01	1.44E-04	.00E+00	.00E+00	.00E+00	2.98E-01
98	5.00E-02	1.00E-01	5.47E-04	1.40E-04	2.00E-01	3.83E-03	6.45E-01	1.37E-04	.00E+00	.00E+00	.00E+00	2.92E-01
99	5.00E-02	1.00E-01	4.89E-04	1.64E-04	2.00E-01	4.62E-03	6.44E-01	1.43E-04	.00E+00	.00E+00	.00E+00	3.02E-01
100	5.00E-02	1.00E-01	7.64E-04	1.22E-04	2.00E-01	6.08E-03	6.43E-01	1.55E-04	.00E+00	.00E+00	.00E+00	2.60E-01
101	5.00E-02	1.00E-01	1.05E-03	1.22E-04	2.00E-01	6.00E-03	6.43E-01	1.43E-04	.00E+00	.00E+00	.00E+00	2.76E-01
102	5.00E-02	1.00E-01	6.71E-04	1.27E-04	2.00E-01	5.01E-03	6.44E-01	1.65E-04	.00E+00	.00E+00	.00E+00	2.33E-01
103	5.00E-02	1.00E-01	1.14E-03	9.83E-05	2.00E-01	5.13E-03	6.43E-01	1.33E-04	.00E+00	.00E+00	.00E+00	2.28E-01
104	5.00E-02	1.00E-01	6.49E-04	1.35E-04	2.00E-01	3.96E-03	6.45E-01	1.94E-04	.00E+00	.00E+00	.00E+00	2.74E-01
105	5.00E-02	1.00E-01	8.10E-04	1.16E-04	2.00E-01	4.45E-03	6.44E-01	1.82E-04	.00E+00	.00E+00	.00E+00	2.34E-01
106	5.00E-02	1.00E-01	1.06E-03	1.23E-04	2.00E-01	3.60E-03	6.45E-01	1.68E-04	.00E+00	.00E+00	.00E+00	2.36E-01
107	5.00E-02	1.00E-01	1.50E-03	1.19E-04	2.00E-01	4.02E-03	6.44E-01	1.53E-04	.00E+00	.00E+00	.00E+00	2.66E-01
108	5.00E-02	1.00E-01	1.13E-03	1.15E-04	2.00E-01	4.59E-03	6.44E-01	1.64E-04	.00E+00	.00E+00	.00E+00	2.56E-01
109	5.00E-02	1.00E-01	1.83E-03	7.99E-05	2.00E-01	3.18E-03	6.45E-01	1.48E-04	.00E+00	.00E+00	.00E+00	2.31E-01
110	5.00E-02	1.00E-01	1.30E-03	1.00E-04	2.00E-01	3.69E-03	6.45E-01	1.39E-04	.00E+00	.00E+00	.00E+00	2.70E-01
111	5.00E-02	1.00E-01	1.83E-03	9.45E-05	2.00E-01	2.77E-03	6.45E-01	1.23E-04	.00E+00	.00E+00	.00E+00	2.32E-01
112	5.00E-02	1.00E-01	2.45E-03	1.01E-04	2.00E-01	3.87E-03	6.43E-01	1.00E-04	.00E+00	.00E+00	.00E+00	2.74E-01
113	5.00E-02	1.00E-01	2.01E-03	9.09E-05	2.00E-01	3.35E-03	6.44E-01	1.41E-04	.00E+00	.00E+00	.00E+00	2.83E-01
114	5.00E-02	1.00E-01	8.82E-04	1.21E-04	2.00E-01	3.77E-03	6.45E-01	1.14E-04	.00E+00	.00E+00	.00E+00	3.01E-01
115	5.00E-02	1.00E-01	1.07E-03	1.38E-04	2.00E-01	4.31E-03	6.44E-01	1.06E-04	.00E+00	.00E+00	.00E+00	3.33E-01
116	5.00E-02	1.00E-01	2.66E-03	1.01E-04	2.00E-01	6.14E-03	6.41E-01	9.26E-05	.00E+00	.00E+00	.00E+00	2.26E-01
117	5.00E-02	1.00E-01	1.24E-03	1.09E-04	2.00E-01	4.46E-03	6.44E-01	1.16E-04	.00E+00	.00E+00	.00E+00	3.12E-01
118	5.00E-02	1.00E-01	1.33E-03	1.15E-04	2.00E-01	2.70E-03	6.46E-01	9.37E-05	.00E+00	.00E+00	.00E+00	2.54E-01
119	5.00E-02	1.00E-01	7.60E-04	1.33E-04	2.00E-01	4.10E-03	6.45E-01	1.17E-04	.00E+00	.00E+00	.00E+00	3.20E-01
120	5.00E-02	1.00E-01	8.95E-04	1.29E-04	2.00E-01	4.18E-03	6.45E-01	9.61E-05	.00E+00	.00E+00	.00E+00	3.15E-01
121	5.00E-02	1.00E-01	7.65E-04	1.19E-04	2.00E-01	5.39E-03	6.43E-01	1.06E-04	.00E+00	.00E+00	.00E+00	3.35E-01
122	5.00E-02	1.00E-01	1.20E-03	1.16E-04	2.00E-01	3.44E-03	6.45E-01	9.96E-05	.00E+00	.00E+00	.00E+00	2.51E-01
123	5.00E-02	1.00E-01	7.50E-04	1.19E-04	2.00E-01	8.39E-03	6.40E-01	9.86E-05	.00E+00	.00E+00	.00E+00	3.16E-01
124	5.00E-02	1.00E-01	8.51E-04	1.26E-04	2.00E-01	8.33E-03	6.40E-01	1.10E-04	.00E+00	.00E+00	.00E+00	3.14E-01
125	5.00E-02	1.00E-01	1.21E-03	1.11E-04	2.00E-01	7.96E-03	6.40E-01	1.02E-04	.00E+00	.00E+00	.00E+00	3.12E-01
126	5.00E-02	1.00E-01	1.14E-03	1.35E-04	2.00E-01	7.83E-03	6.41E-01	1.15E-04	.00E+00	.00E+00	.00E+00	2.83E-01
127	5.00E-02	1.00E-01	6.59E-04	1.27E-04	2.00E-01	8.97E-03	6.40E-01	1.17E-04	.00E+00	.00E+00	.00E+00	3.25E-01
128	5.00E-02	1.00E-01	1.08E-03	1.29E-04	2.00E-01	7.17E-03	6.41E-01	1.19E-04	.00E+00	.00E+00	.00E+00	3.03E-01
129	5.00E-02	1.00E-01	5.57E-04	1.04E-04	2.00E-01	1.54E-02	6.34E-01	1.28E-04	.00E+00	.00E+00	.00E+00	2.97E-01
130	5.00E-02	1.00E-01	7.38E-04	1.45E-04	2.00E-01	6.12E-03	6.43E-01	1.79E-04	.00E+00	.00E+00	.00E+00	3.31E-01
131	5.00E-02	1.00E-01	9.40E-04	1.20E-04	2.00E-01	1.24E-02	6.36E-01	1.39E-04	.00E+00	.00E+00	.00E+00	2.71E-01
132	5.00E-02	1.00E-01	5.83E-04	1.93E-04	2.00E-01	9.71E-03	6.39E-01	4.61E-04	.00E+00	.00E+00	.00E+00	2.19E-01
133	5.00E-02	1.00E-01	7.44E-04	1.11E-04	2.00E-01	1.39E-02	6.35E-01	1.10E-04	.00E+00	.00E+00	.00E+00	2.33E-01
134	5.00E-02	1.00E-01	6.18E-04	1.57E-04	2.00E-01	5.15E-03	6.44E-01	2.48E-04	.00E+00	.00E+00	.00E+00	3.20E-01

	Al2O3	CaO	Cr2O3	K2O	Na2O	P2O5	SiO2	UO3	Cl-	F-	SO3	VAULTS	
135	5.00E-02	1.00E-01	6.57E-04	1.44E-04	2.00E-01	5.28E-03	6.44E-01	2.13E-04	.00E+00	.00E+00	.00E+00	.00E+00	2.83E-01
136	5.00E-02	1.00E-01	5.29E-04	2.11E-04	2.00E-01	5.88E-03	6.43E-01	4.83E-04	.00E+00	.00E+00	.00E+00	.00E+00	2.72E-01
137	5.00E-02	1.00E-01	5.46E-04	2.08E-04	2.00E-01	5.12E-03	6.44E-01	2.04E-04	.00E+00	.00E+00	.00E+00	.00E+00	3.21E-01
138	5.00E-02	1.00E-01	6.25E-04	1.51E-04	2.00E-01	6.99E-03	6.42E-01	1.92E-04	.00E+00	.00E+00	.00E+00	.00E+00	3.02E-01
139	5.00E-02	1.00E-01	6.62E-04	1.42E-04	2.00E-01	1.13E-02	6.37E-01	3.25E-04	.00E+00	.00E+00	.00E+00	.00E+00	2.73E-01
140	5.00E-02	1.00E-01	6.33E-04	1.45E-04	2.00E-01	7.38E-03	6.41E-01	1.84E-04	.00E+00	.00E+00	.00E+00	.00E+00	3.29E-01
141	5.00E-02	1.00E-01	5.80E-04	1.58E-04	2.00E-01	1.09E-02	6.38E-01	1.96E-04	.00E+00	.00E+00	.00E+00	.00E+00	2.72E-01
142	5.00E-02	1.00E-01	4.76E-04	1.59E-04	2.00E-01	7.52E-03	6.41E-01	1.96E-04	.00E+00	.00E+00	.00E+00	.00E+00	2.56E-01
143	5.00E-02	1.00E-01	5.42E-04	1.42E-04	2.00E-01	9.47E-03	6.40E-01	1.79E-04	.00E+00	.00E+00	.00E+00	.00E+00	3.41E-01
144	5.00E-02	1.00E-01	6.12E-04	1.64E-04	2.00E-01	7.83E-03	6.41E-01	1.72E-04	.00E+00	.00E+00	.00E+00	.00E+00	3.00E-01
145	5.00E-02	1.00E-01	5.62E-04	1.29E-04	2.00E-01	1.12E-02	6.38E-01	1.49E-04	.00E+00	.00E+00	.00E+00	.00E+00	2.15E-01
146	5.00E-02	1.00E-01	7.22E-04	1.21E-04	2.00E-01	1.09E-02	6.38E-01	1.53E-04	.00E+00	.00E+00	.00E+00	.00E+00	2.08E-01
147	5.00E-02	1.00E-01	5.09E-04	1.53E-04	2.00E-01	6.98E-03	6.42E-01	1.74E-04	.00E+00	.00E+00	.00E+00	.00E+00	3.16E-01
148	5.00E-02	1.00E-01	5.68E-04	1.19E-04	2.00E-01	1.07E-02	6.38E-01	1.47E-04	.00E+00	.00E+00	.00E+00	.00E+00	3.04E-01
149	5.00E-02	1.00E-01	4.66E-04	1.15E-04	2.00E-01	1.05E-02	6.39E-01	1.79E-04	.00E+00	.00E+00	.00E+00	.00E+00	2.55E-01
150	5.00E-02	1.00E-01	4.65E-04	1.19E-04	2.00E-01	1.36E-02	6.35E-01	3.97E-04	.00E+00	.00E+00	.00E+00	.00E+00	2.44E-01
151	5.00E-02	1.00E-01	4.38E-04	1.05E-04	2.00E-01	1.12E-02	6.38E-01	1.81E-04	.00E+00	.00E+00	.00E+00	.00E+00	2.99E-01
152	5.00E-02	1.00E-01	4.59E-04	1.04E-04	2.00E-01	1.32E-02	6.36E-01	2.48E-04	.00E+00	.00E+00	.00E+00	.00E+00	2.69E-01
153	5.00E-02	1.00E-01	7.20E-04	9.99E-05	2.00E-01	1.10E-02	6.38E-01	4.38E-04	.00E+00	.00E+00	.00E+00	.00E+00	2.40E-01
154	5.00E-02	1.00E-01	6.25E-04	1.39E-04	2.00E-01	6.32E-03	6.42E-01	3.45E-04	.00E+00	.00E+00	.00E+00	.00E+00	2.37E-01
155	5.00E-02	1.00E-01	5.39E-04	1.14E-04	2.00E-01	1.10E-02	6.38E-01	3.72E-04	.00E+00	.00E+00	.00E+00	.00E+00	2.25E-01
156	5.00E-02	1.00E-01	5.90E-04	1.16E-04	2.00E-01	6.78E-03	6.42E-01	3.47E-04	.00E+00	.00E+00	.00E+00	.00E+00	2.81E-01
157	5.00E-02	1.00E-01	4.92E-04	1.24E-04	2.00E-01	6.05E-03	6.43E-01	3.11E-04	.00E+00	.00E+00	.00E+00	.00E+00	2.53E-01
158	5.00E-02	1.00E-01	6.79E-04	1.27E-04	2.00E-01	6.90E-03	6.42E-01	1.94E-04	.00E+00	.00E+00	.00E+00	.00E+00	3.10E-01
159	5.00E-02	1.00E-01	4.38E-04	1.19E-04	2.00E-01	1.12E-02	6.38E-01	2.87E-04	.00E+00	.00E+00	.00E+00	.00E+00	2.90E-01
160	5.00E-02	1.00E-01	5.07E-04	1.23E-04	2.00E-01	7.67E-03	6.41E-01	2.67E-04	.00E+00	.00E+00	.00E+00	.00E+00	2.92E-01
161	5.00E-02	1.00E-01	6.62E-04	1.10E-04	2.00E-01	7.17E-03	6.42E-01	1.42E-04	.00E+00	.00E+00	.00E+00	.00E+00	2.96E-01
162	5.00E-02	1.00E-01	5.47E-04	1.18E-04	2.00E-01	7.65E-03	6.41E-01	2.00E-04	.00E+00	.00E+00	.00E+00	.00E+00	2.57E-01
163	5.00E-02	1.00E-01	6.84E-04	1.15E-04	2.00E-01	8.48E-03	6.40E-01	1.06E-04	.00E+00	.00E+00	.00E+00	.00E+00	3.00E-01
164	5.00E-02	1.00E-01	8.55E-04	8.85E-05	2.00E-01	9.32E-03	6.39E-01	1.30E-04	.00E+00	.00E+00	.00E+00	.00E+00	1.85E-01
165	5.00E-02	1.00E-01	5.90E-04	1.14E-04	2.00E-01	5.78E-03	6.43E-01	2.45E-04	.00E+00	.00E+00	.00E+00	.00E+00	2.79E-01
166	5.00E-02	1.00E-01	5.81E-04	1.36E-04	2.00E-01	6.13E-03	6.43E-01	2.21E-04	.00E+00	.00E+00	.00E+00	.00E+00	3.03E-01
167	5.00E-02	1.00E-01	9.09E-04	9.50E-05	2.00E-01	7.84E-03	6.41E-01	1.36E-04	.00E+00	.00E+00	.00E+00	.00E+00	1.89E-01
168	5.00E-02	1.00E-01	6.27E-04	1.10E-04	2.00E-01	6.37E-03	6.42E-01	2.32E-04	.00E+00	.00E+00	.00E+00	.00E+00	2.56E-01
169	5.00E-02	1.00E-01	7.75E-04	1.05E-04	2.00E-01	7.97E-03	6.41E-01	1.54E-04	.00E+00	.00E+00	.00E+00	.00E+00	3.31E-01
170	5.00E-02	1.00E-01	6.60E-04	1.15E-04	2.00E-01	6.67E-03	6.42E-01	2.07E-04	.00E+00	.00E+00	.00E+00	.00E+00	2.78E-01
171	5.00E-02	1.00E-01	5.53E-04	1.26E-04	2.00E-01	5.42E-03	6.43E-01	2.35E-04	.00E+00	.00E+00	.00E+00	.00E+00	3.14E-01
172	5.00E-02	1.00E-01	6.41E-04	1.18E-04	2.00E-01	5.73E-03	6.43E-01	2.72E-04	.00E+00	.00E+00	.00E+00	.00E+00	2.71E-01
173	5.00E-02	1.00E-01	6.10E-04	1.33E-04	2.00E-01	5.34E-03	6.44E-01	2.24E-04	.00E+00	.00E+00	.00E+00	.00E+00	2.82E-01
174	5.00E-02	1.00E-01	6.28E-04	1.22E-04	2.00E-01	5.85E-03	6.43E-01	2.35E-04	.00E+00	.00E+00	.00E+00	.00E+00	2.62E-01
175	5.00E-02	1.00E-01	8.65E-04	5.44E-04	2.00E-01	6.34E-03	6.41E-01	1.76E-04	.00E+00	.00E+00	.00E+00	.00E+00	2.96E-01
176	5.00E-02	1.00E-01	8.28E-04	1.09E-04	2.00E-01	6.40E-03	6.42E-01	2.61E-04	.00E+00	.00E+00	.00E+00	.00E+00	3.07E-01
177	5.00E-02	1.00E-01	2.75E-04	1.51E-03	2.00E-01	1.55E-03	6.44E-01	5.84E-05	.00E+00	.00E+00	.00E+00	.00E+00	3.74E-01
178	5.00E-02	1.00E-01	2.61E-04	2.53E-03	2.00E-01	2.27E-03	6.45E-01	1.34E-05	.00E+00	.00E+00	.00E+00	.00E+00	6.93E-01
179	5.00E-02	1.00E-01	7.68E-04	3.17E-04	2.00E-01	8.18E-03	6.40E-01	2.29E-04	.00E+00	.00E+00	.00E+00	.00E+00	3.28E-01
180	5.00E-02	1.00E-01	4.35E-04	7.04E-04	2.00E-01	5.49E-03	6.42E-01	1.90E-04	.00E+00	.00E+00	.00E+00	.00E+00	3.44E-01
181	5.00E-02	1.00E-01	1.16E-03	1.39E-03	2.00E-01	5.86E-03	6.41E-01	2.50E-04	.00E+00	.00E+00	.00E+00	.00E+00	2.75E-01
182	5.00E-02	1.00E-01	1.17E-03	1.02E-04	2.00E-01	7.18E-03	6.41E-01	1.98E-04	.00E+00	.00E+00	.00E+00	.00E+00	1.95E-01
183	5.00E-02	1.00E-01	6.63E-04	1.58E-04	2.00E-01	6.60E-03	6.42E-01	2.61E-04	.00E+00	.00E+00	.00E+00	.00E+00	3.22E-01
184	5.00E-02	1.00E-01	6.18E-04	2.91E-04	2.00E-01	5.42E-03	6.43E-01	3.10E-04	.00E+00	.00E+00	.00E+00	.00E+00	3.03E-01
185	5.00E-02	1.00E-01	5.07E-04	1.75E-04	2.00E-01	6.40E-03	6.42E-01	3.18E-04	.00E+00	.00E+00	.00E+00	.00E+00	3.33E-01
186	5.00E-02	1.00E-01	8.48E-04	1.28E-03	2.00E-01	9.21E-03	6.38E-01	2.45E-04	.00E+00	.00E+00	.00E+00	.00E+00	1.96E-01
187	5.00E-02	1.00E-01	3.67E-04	1.89E-04	2.00E-01	1.19E-02	6.37E-01	2.27E-04	.00E+00	.00E+00	.00E+00	.00E+00	2.98E-01
188	5.00E-02	1.00E-01	4.30E-04	1.76E-04	2.00E-01	9.95E-03	6.39E-01	2.40E-04	.00E+00	.00E+00	.00E+00	.00E+00	3.18E-01
189	5.00E-02	1.00E-01	4.07E-04	1.74E-04	2.00E-01	1.48E-02	6.34E-01	2.77E-04	.00E+00	.00E+00	.00E+00	.00E+00	3.01E-01
190	5.00E-02	1.00E-01	4.48E-04	1.64E-04	2.00E-01	1.17E-02	6.37E-01	3.04E-04	.00E+00	.00E+00	.00E+00	.00E+00	2.54E-01
191	5.00E-02	1.00E-01	4.24E-04	2.52E-04	2.00E-01	8.19E-03	6.41E-01	2.59E-04	.00E+00	.00E+00	.00E+00	.00E+00	3.03E-01
192	5.00E-02	1.00E-01	9.59E-04	1.89E-03	2.00E-01	8.32E-03	6.39E-01	1.97E-04	.00E+00	.00E+00	.00E+00	.00E+00	2.59E-01
193	5.00E-02	1.00E-01	6.76E-04	1.21E-03	2.00E-01	9.33E-03	6.38E-01	1.53E-04	.00E+00	.00E+00	.00E+00	.00E+00	2.29E-01
194	5.00E-02	1.00E-01	4.17E-04	2.37E-04	2.00E-01	8.81E-03	6.40E-01	2.96E-04	.00E+00	.00E+00	.00E+00	.00E+00	3.27E-01
195	5.00E-02	1.00E-01	7.58E-04	9.71E-04	2.00E-01	1.05E-02	6.37E-01	2.70E-04	.00E+00	.00E+00	.00E+00	.00E+00	1.70E-01
196	5.00E-02	1.00E-01	5.16E-04	2.73E-04	2.00E-01	4.14E-03	6.45E-01	4.05E-04	.00E+00	.00E+00	.00E+00	.00E+00	2.95E-01
197	5.00E-02	1.00E-01	5.57E-04	2.43E-04	2.00E-01	3.33E-03	6.45E-01	4.14E-04	.00E+00	.00E+00	.00E+00	.00E+00	1.29E-01
198	5.00E-02	1.00E-01	6.21E-04	2.74E-04	2.00E-01	1.42E-03	6.48E-01	3.63E-05	.00E+00	.00E+00	.00E+00	.00E+00	1.56E-01
199	5.00E-02	1.00E-01	1.17E-03	2.27E-04	2.00E-01	1.93E-03	6.47E-01	4.85E-05	.00E+00	.00E+00	.00E+00	.00E+00	2.05E-01
200	5.00E-02	1.00E-01	1.19E-03	1.82E-04	2.00E-01	3.75E-03	6.45E-01	6.84E-05	.00E+00	.00E+00	.00E+00	.00E+00	7.03E-02
201	5.00E-02	1.00E-01	1.11E-03	1.96E-04	2.00E-01	3.07E-03	6.45E-01	1.90E-04	.00E+00	.00E+00	.00E+00	.00E+00	2.31E-01
202	5.00E-02	1.00E-01	7.09E-04	1.27E-04	2.00E-01	1.54E-02	6.34E-01	8.25E-05	.00E+00	.00E+00	.00E+00	.00E+00	2.92E-01

	Al2O3	CaO	Cr2O3	K2O	Na2O	P2O5	SiO2	UO3	Cl-	F-	SO3	VAULTS	
203	5.00E-02	1.00E-01	6.61E-04	1.10E-04	2.00E-01	1.85E-02	6.31E-01	8.52E-05	.00E+00	.00E+00	.00E+00	.00E+00	8.69E-02
204	5.00E-02	1.00E-01	1.02E-03	1.06E-04	2.00E-01	1.63E-02	6.32E-01	7.81E-05	.00E+00	.00E+00	.00E+00	.00E+00	4.01E-02
205	5.00E-02	1.00E-01	6.53E-04	1.94E-04	2.00E-01	5.61E-03	6.43E-01	7.58E-05	.00E+00	.00E+00	.00E+00	.00E+00	6.24E-02
206	5.00E-02	1.00E-01	8.38E-04	1.16E-04	2.00E-01	8.10E-03	6.41E-01	5.73E-05	.00E+00	.00E+00	.00E+00	.00E+00	1.37E-01
207	5.00E-02	1.00E-01	7.39E-04	2.68E-04	2.00E-01	1.39E-03	6.47E-01	3.55E-05	.00E+00	.00E+00	.00E+00	.00E+00	5.57E-02