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2727-S Nonradioactive Dangerous Waste Storage Facility Closure Plan

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ACRONYMS AND ABBREVIATIONS

d	day
DOE	U.S. Department of Energy
DOE-RL	U.S. Department of Energy-Richland Operations Office
DOT	U.S. Department of Transportation
EPA	U.S. Environmental Protection Agency
Fig.	figure
ft	foot
gal	gallon
h	hour
ID	inside diameter
in.	inch
mi	mile
mi^2	square mile
mL	milliliter
NRDWS	Nonradioactive Dangerous Waste Storage
NWES	Northwest EnviroService, Inc.
OD	outside diameter
oz	ounce
TSD	treatment, storage, and/or disposal (facility)
VOA	volatile organic analysis
WAC	Washington Administrative Code
yr	year

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2727-S NONRADIOACTIVE DANGEROUS WASTE STORAGE FACILITY CLOSURE PLAN

1.0 INTRODUCTION

This closure plan describes the activities for final closure of the 2727-S Nonradioactive Dangerous Waste Storage (NRDWS) facility at the Hanford Site. The 2727-S NRDWS facility provided container storage for nonradioactive dangerous and extremely hazardous wastes generated in the research and development laboratories, process operations, and maintenance and transportation functions throughout the Hanford Site. Storage operations began at the facility March 14, 1983, and continued until December 30, 1986, when the last shipment of materials from the 2727-S NRDWS facility took place. These storage operations have been moved to the new 616 Building, which is an interim status NRDWS facility located between the 200 East and 200 West Areas of the Hanford Site. The 2727-S NRDWS facility is owned by the U.S. Department of Energy (DOE) and co-operated by the U.S. Department of Energy-Richland Operations Office (DOE-RL) and Westinghouse Hanford Company (Westinghouse Hanford). Previously, Rockwell Hanford Operations managed the facility on behalf of the DOE-RL until July 1, 1987, when Rockwell's responsibilities, which included closure of the 2727-S NRDWS facility, were transferred to Westinghouse Hanford.

For the convenience of the reviewer, a copy of the March 1987 Dangerous Waste Compliance Checklist/Questionnaire, Part 6: Closure, is included as Appendix A to this closure plan. The appropriate page number where the information can be found in this plan is printed in the margin.

1.1 LOCATIONAL INFORMATION

The Hanford Site is a 560-mi^2 tract of semiarid land (Fig. 1). The Hanford Site is located northwest of the City of Richland, Washington, in the Columbia River basin, which is the nearest population center. The center of Richland lies approximately 3 mi from the southernmost portion of the Hanford Site boundary.

In early 1943, the United States Army Corps of Engineers selected the Hanford Site as the location for reactor, chemical separation, and related facilities to produce and purify plutonium for national security and defense activities. Eight graphite-moderated reactors using Columbia River water for once-through cooling and a new type of dual-purpose reactor (N Reactor) using a recirculating water coolant and producing both plutonium and steam for electricity were eventually built along the Columbia River. The graphite-moderated reactors were operated from 1944 to 1971; the N Reactor began operation in 1963 and a decision was made to place the N Reactor in cold standby status in February 1988.

Activities are centralized in numerically designated areas on the Hanford Site. The reactor facilities are located along the Columbia River in the 100 Areas. The reactor fuel processing and waste management facilities are located in the 200 Areas, which are situated on a plateau about 7 mi from the

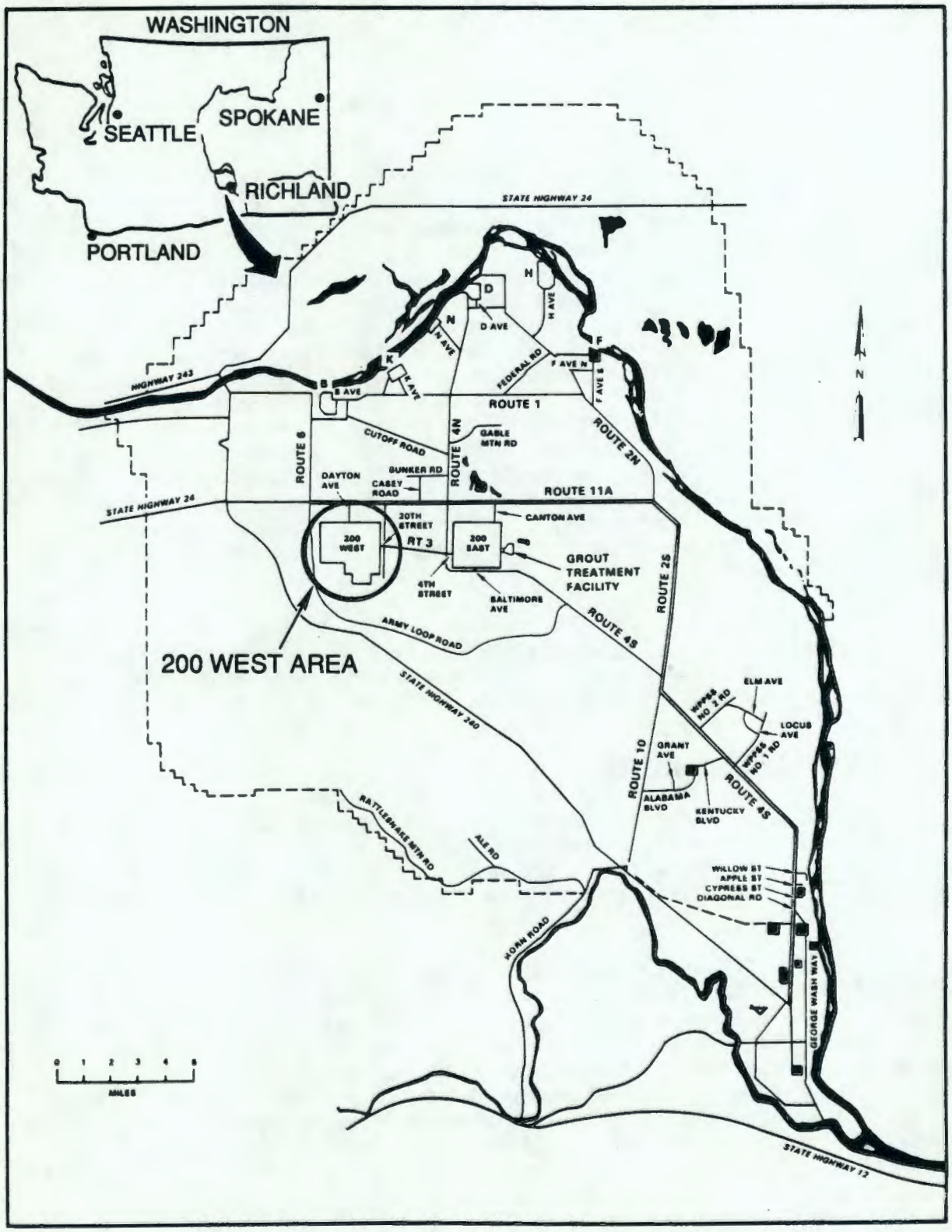

Figure 1. Regional Map.

river. The 300 Area, located north of Richland, contains the reactor fuel manufacturing facilities and several research and development laboratories. The 400 Area, 5 mi northwest of the 300 Area, contains the Fast Flux Test Facility. The 1100 Area, north of Richland, contains facilities associated with maintenance and transportation functions for the Hanford Site. Administrative buildings and other research and development laboratories are found in the 3000 Area, also north of Richland.

The 2727-S NRDWS facility is located in the southeast portion of the 200 West Area (Fig. 2). The facility is located near an asphalt roadway (Beloit Avenue) within the 200 West Controlled Access Area (Fig. 3). This roadway receives light work traffic.

1.2 SECURITY

Because of the continuing 200 Area activities and the presence of several radioactive facilities, an effective site security program is maintained in the 200 Areas. Although originally intended for protection of government property, classified information, and special nuclear material, the security program also meets the requirements outlined in the Washington Department of Ecology (Ecology) Washington Administrative Code (WAC) 173-303-310 (WAC 1987) for hazardous wastes. The onsite security systems prevent unknowing entry and minimize the possibility for unauthorized entry of persons or livestock into the 2727-S NRDWS facility.

Unauthorized or unintended entry to the facility is prevented by 24-h surveillance systems in the form of manned barricades at the entries to controlled access areas and fences, gates, locks, and warning signs. The Wye and Yakima Barricades (Fig. 4) control access to the 200 West Area. Two barricades at the 200 West Area control direct access to the 2727-S NRDWS facility. Only personnel who have been granted a security clearance from the U.S. Department of Energy (DOE) (or uncleared employees/visitors escorted by cleared personnel) are permitted to enter Hanford Controlled Access Areas. Hanford Patrol provides surveillance patrols of the controlled areas. In addition, access to the 2727-S building is controlled by key.

Site personnel receive training on Hanford Site security regulations in the form of required security education and on-the-job training. Procedures for ensuring personnel compliance with security requirements, providing security education, and training personnel are developed and maintained on the Hanford Site. Performance of periodic security compliance audits and inspections ensures that these procedures are followed.

1.3 FACILITY DESCRIPTION AND OPERATIONS

Nonradioactive dangerous wastes received at the 2727-S NRDWS facility were stored in a covered metal building (2727-S Building) set around (not atop) two main curbed bays for segregating oxidizing wastes from corrosive, organic, ignitable, and other waste types. The building dimensions are 20 by 40 ft. There is a door at each end of the building and windows on all four walls. The metal building is lined internally with insulation and wallboard. The wallboard covers only the upper half of the walls, while the

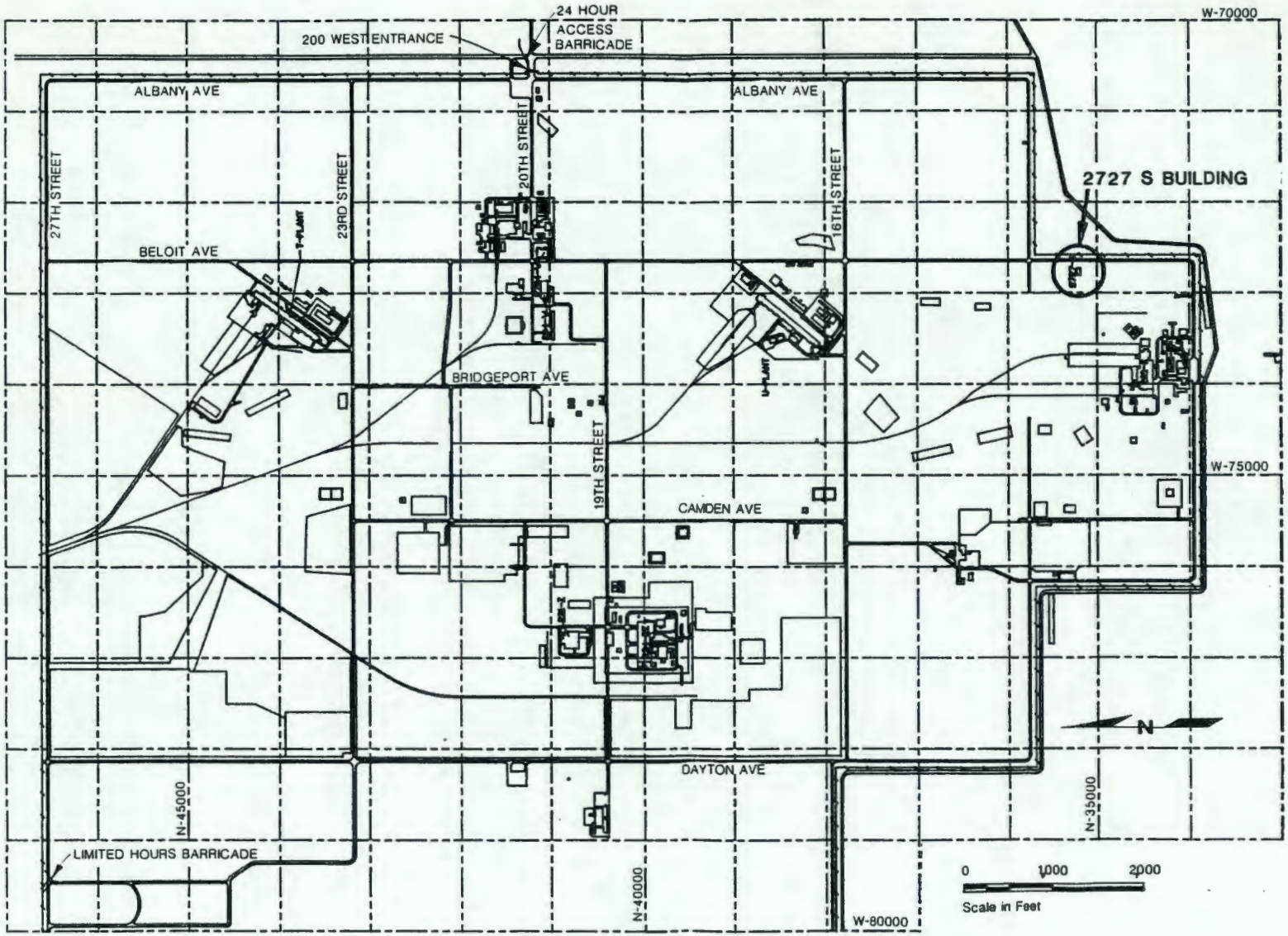

Figure 2. Vicinity Map 200 West Area.

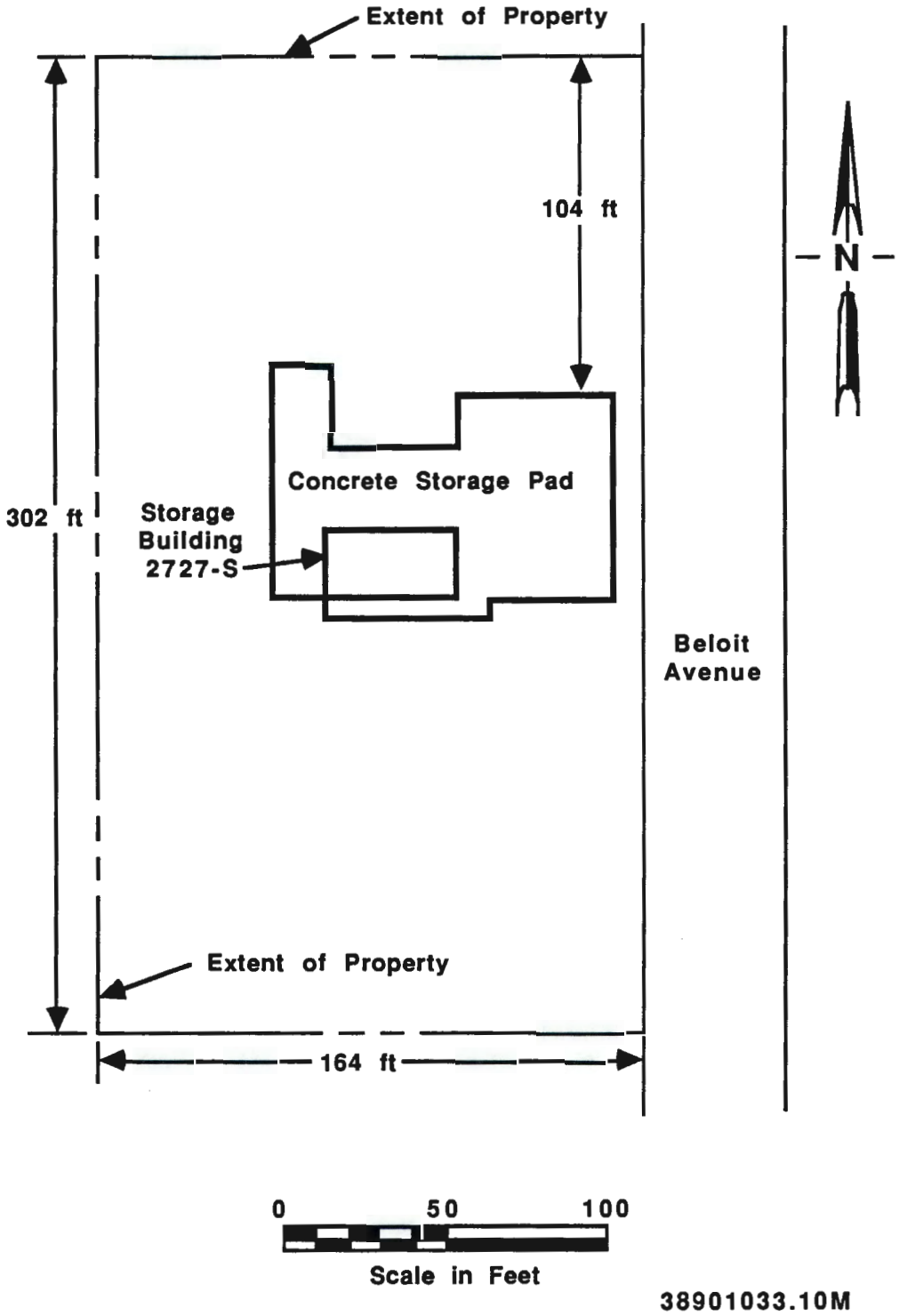

Figure 3. Site Plan 2727-S NRDWS Facility.

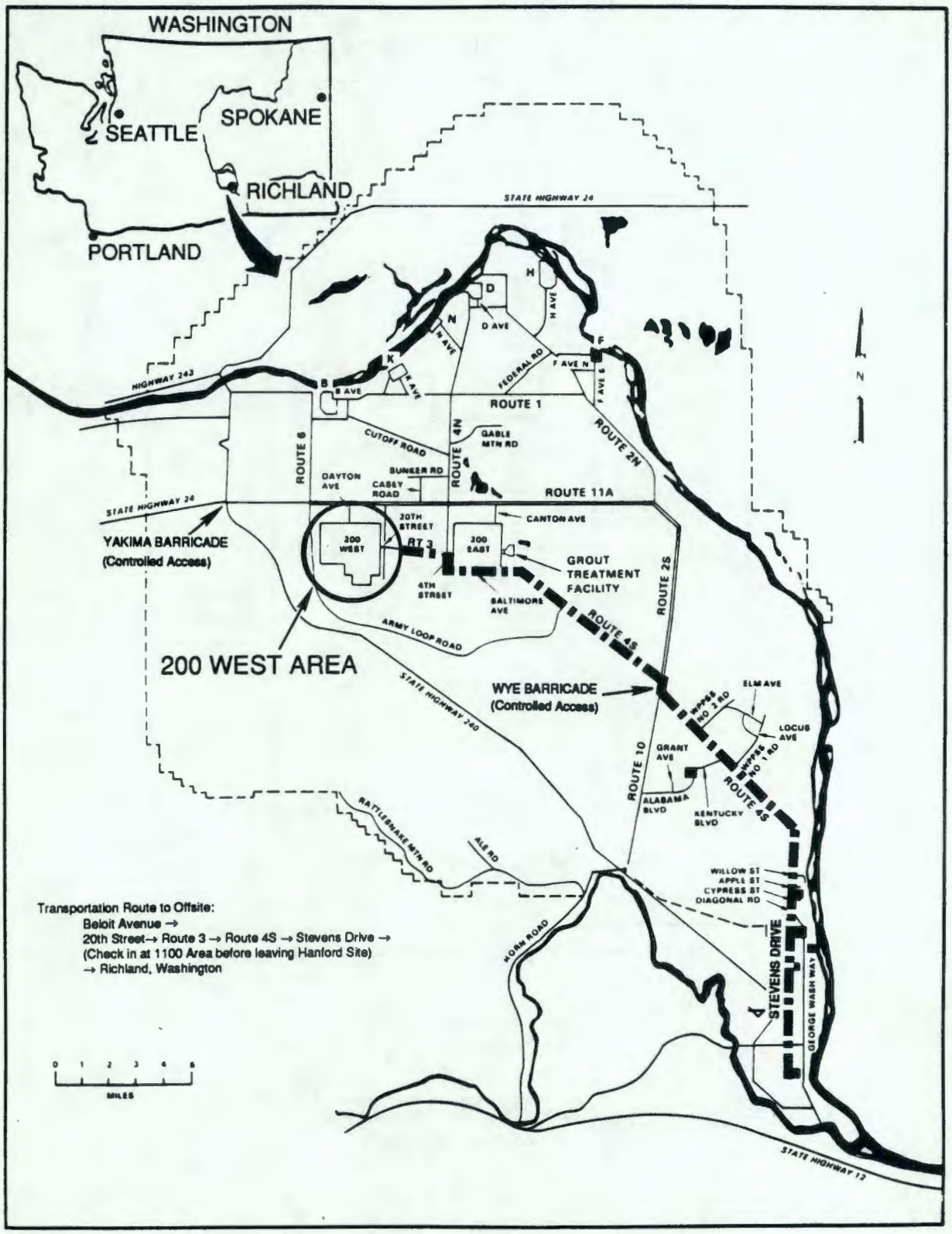

Figure 4. Waste Transportation Route to Offsite Facilities.

insulation lines both upper and lower walls. The floors and curbs of the storage bays in the building are concrete. There are some slight hairline cracks in the floor. The floor of the building is part of a concrete pad that extends beyond the building in four directions. The perimeter of the pad is not curbed (Fig. 5). Appendix B contains a suite of current photographs showing the concrete pad and the building both internally and externally. The source of the puddled liquid in the photographs is rainwater. No design or engineering drawings are available to provide additional information on either the building or the concrete pad. Both the building and the pad have been used as chemical and construction storage facilities for many years. The exact nature and amounts of previous chemicals stored at the facility is not known. There are no operating records available from that time (1960's). In general, new product chemicals were stored in their original shipping containers before distribution around the site. No wastes were stored at the facility before its use as the 2727-S NRDWS facility. A waste inventory listed in Appendix E shows the variability of wastes that passed through the facility.

Drums were stored on wooden pallets to elevate them off the floor and away from possible accumulated liquids. When wastes were encountered that were not compatible with either bay (as determined from the initial generator waste analysis) or when spatial constraints were exceeded, containers were isolated on wooden pallets outside the building on the concrete pad. On occasion, empty drums were placed directly on the pad. Wastes were segregated outside in a manner similar to that described above. Drums were never stacked outside the building. Inside the building, small containers (e.g., 5-gal drums, crates, boxes) of compatible materials were sometimes stacked two high. Both hand trucks and forklifts were used to manage the drums at the facility. Only hand trucks were used for drum transfer inside the building.

The 2727-S NRDWS facility was not designed to drain and remove liquids resulting from leaks, spills, or precipitation. Standard spill response procedures included identification of spilled waste, application of a compatible absorbent, and collection of the waste and absorbent for disposal in an overpack drum in which the originally leaking drum had been placed.

During a period of approximately 1 mo, toward the end of the operating life of the facility, more drums were stored at the facility than could be held within the building or on the concrete pad. Drums on pallets were placed directly on the ground immediately along the sides of the pad (except on the Beloit Avenue side) and empty, triple-rinsed drums were placed directly on the ground (not on pallets). This practice did not reflect normal operating procedures. Drums were shifted about daily, as they were being organized for loading and shipment from the facility. The drums and surrounding areas were inspected twice a day during this month-long period for leaks and spills. No more than 160 drums were ever stored off the concrete pad. This number represents the maximum number of drums that might have been stored off the pad; no drum was stored off the pad for more than one week.

Under normal operating conditions, the facility was inspected once per week. Information noted on the inspection log included areas subject to spills, structures, container condition, and safety/emergency equipment. Inspection logs for this facility (dated 5/9/85 through 12/22/86) were reviewed. Those containing comments or notations regarding spills, leaks, and deteriorated drums are included in Appendix C.

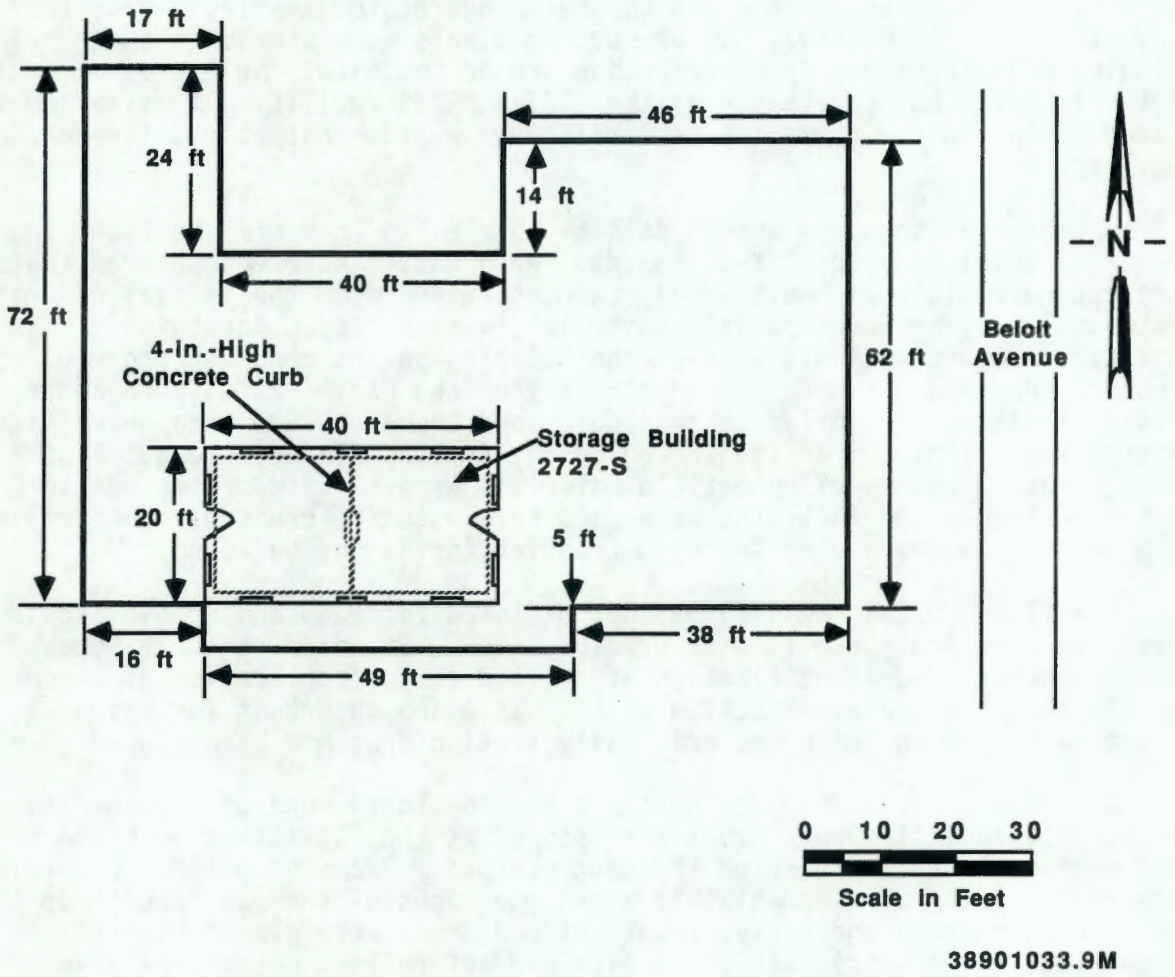

Figure 5. Concrete Pad and Building Plan.

It is recognized that there are several factors associated with the design and operation of the 2727-S NRDWS facility that may have resulted in contamination of the facility and surrounding soils. These factors include: storage of drums on the soil beyond the concrete pad (exceeding design capacity); lack of curbs around the perimeter of the concrete pad; and cracks, holes, and joints within the concrete pad outside the building. Identification of contamination caused by these factors is addressed in this closure plan under Section 4.2.

1.4 WASTES STORED AT THE FACILITY

Wastes were normally received in U.S. Department of Transportation (DOT) specification 85-, 55-, 30-, and 5-gal drums and DOT specification fiberboard boxes, crates, and containers. No wastes were received at this facility in bulk loads. Most of the nonradioactive dangerous wastes received at the 2727-S NRDWS facility consisted of empty extremely hazardous material drums, unused pure chemical products, and product mixtures in small laboratory quantities. This facility received a variety of chemical waste in its 3 1/2 yr of operation. The list includes, but is not limited to, heavy metal, corrosive, ignitable, chlorinated solvent, and reactive wastes. Appendix D provides an inventory of wastes stored at the 2727-S NRDWS facility. Wastes were designated according to Ecology waste designation regulations WAC 173-303-070 (WAC 1987).

The facility received regulated wastes from DOE-RL processing, testing, construction, and maintenance units. Individual Hanford management contractors contributed waste to this unit under the common DOE-RL identification number. Therefore, the facility was, in actuality, receiving onsite (not offsite) generated wastes. Nonetheless, Hanford Site management contractors implemented control procedures similar to those required for offsite treatment, storage, and/or disposal (TSD) facilities to ensure that proper waste identification and Ecology designation were attained at the generating site.

Depending on the waste designation, nonradioactive regulated wastes were either managed onsite or shipped offsite to an appropriate TSD facility. Offsite TSD facilities that received wastes from the 2727-S NRDWS facility are listed in Table 1. The location of the facility and its permitting status are also given.

Table 1. Offsite Treatment, Storage, and/or Disposal Facilities Receiving 2727-S Wastes

Facility	Location	Permitting status
Northwest EnviroService, Inc.	Seattle, Washington	Interim
Chem-Security Systems, Inc.	Arlington, Oregon	Final
Crosby & Overton, Inc.	Kent, Washington	Interim

The waste transportation route taken from the 2727-S NRDWS facility through the Hanford Site to the offsite TSD facilities is shown on Figure 4. Road names are identified, and the location of the Wye Barricade, a controlled access barricade, is shown.

2.0 CLOSURE PERFORMANCE STANDARD

Closure of the 2727-S NRDWS facility, as described in the following sections, is designed to accomplish the following:

- Minimize the need for further maintenance
- Control, minimize, or eliminate, to the extent necessary to protect human health and the environment, postclosure escape of dangerous waste, dangerous waste constituents, leachate, contaminated runoff, or dangerous waste decomposition products to the ground, surface water, groundwater, or the atmosphere
- Return the land to a condition that will support its intended subsequent use, given the nature of the previous regulated waste activity.

In general, these goals will be accomplished by removing, to background environmental levels, regulated wastes from the facility and removing or decontaminating all equipment, bases, structures, liners, soils, or other materials containing or contaminated with dangerous wastes or waste residues from the facility. Postclosure monitoring will not be necessary for this facility because no regulated wastes will remain after closure. After closure has been completed, the 2727-S NRDWS facility will no longer be classified as a TSD facility.

Two copies of this closure plan serve as the official copies of the plan. The official copies will be located at the following office: United States Department of Energy-Richland Operations Office, Federal Building, 825 Jadwin Avenue, P.O. Box 550, Richland, Washington, 99352. The DOE-Rl office will be responsible for amending this plan as deemed necessary. It will be kept at the DOE-RL office until closure is complete and certified.

Closure activities will be monitored by a registered professional engineer who will certify that, in his or her judgment, closure was accomplished in accordance with the specifications of the approved closure plan as described herein. The professional engineer's report will be submitted to the U.S. Environmental Protection Agency (EPA) and Ecology along with certification of closure. The report and certification will be sent by registered mail.

3.0 ESTIMATE OF MAXIMUM INVENTORY OF WASTE

The maximum estimated inventory of containerized waste ever stored at the 2727-S NRDWS facility was 772 drums. These drums were stored both inside the building and outside on the concrete pad and soil. This total contains drum sizes (not including over-packs) of 55, 30, and 5 gal. Some of these drums were empty, some contained lab-packs, some were partially full, and some were full. The maximum gallonage potentially ever stored at the facility is 42,460 gal (assuming 772 full 55-gal drums).

The discrepancy between the maximum volume of waste presented in this plan and that submitted in the Part A permit application is due to the fact that the design capacity of the facility was exceeded. A copy of the Part A permit application is presented in Appendix D.

4.0 CLOSURE ACTIVITIES

The 2727-S NRDWS facility will not require partial closure prior to final closure of the entire facility. At present, the facility has interim status and is not operating; the DOE-RL and Westinghouse Hanford are working toward approval of this closure plan by Ecology and the EPA. Once notification of closure plan approval has been received, closure activities at the facility will begin.

The waste inventory in Appendix E indicates that this facility held both characteristic and listed waste. The standard of background environmental levels or nondetectable levels has been chosen as the appropriate cleanup level.

4.1 HOW THE FACILITY WILL BE CLOSED

The 2727-S NRDWS facility will be closed so that no wastes will remain at the facility. The closure operations will consist of the following steps as necessary.

1. Determine what chemical wastes, if any, are currently contaminating the building, the concrete pad, and surrounding soils.

2. Decontaminate the building.

3. Decontaminate the concrete pad.

4. Perform verification sampling of the building and concrete pad to determine the effectiveness of decontamination procedures.

5. Demolish the building and concrete pad and dispose of them offsite if decontamination procedures did not meet background cleanup levels.

6. Excavate and dispose of any contaminated soils.

7. Perform verification sampling of the remaining soils to determine the completeness of excavation procedures.

8. Perform repeated excavation and verification sampling until all contaminated soils have been removed.

9. Decontaminate any equipment used in performing closure activities.

10. Restore the area after closure activities are complete.

11. Certify that closure activities were completed in accordance with the approved plan.

The closure activities will be completed in accordance with this closure plan within 180 d after approval of this plan by Ecology and EPA. The closure activities are explained below.

4.2 FACILITY SAMPLING PLAN

The chemical wastes currently contaminating the building, the concrete pad, and the surrounding soils, if any, will be assessed through the sampling procedures and analytical plan described in this Subsection and in Appendices F and G. The building consists only of walls and a ceiling; there is no floor as the building sits directly on the concrete pad. The building and concrete pad are addressed separately.

4.2.1 Building Sampling

Each wall inside the building will be divided into 5-ft by 5-ft sections as illustrated on Figures 6 and 7. Each section will be identified with a letter, "U" for upper and "L" for lower, and a numeral, starting from left to right, looking form inside the building. The wallboard, insulation, and interior of the metal siding will be sampled. The ceiling, electrical components, and any other items not mentioned above will not be sampled. Section 4.3 discusses the fate of these items based on the results of wallboard, insulation, and metal siding sampling.

The accumulation of drums on the pad adjacent to the building exterior only occurred when incompatible waste was received, or the building capacity was met. During the facility operational period, storage of containers outside the building was very infrequent, which would limit the amount of exposure time of the exterior walls to potential contamination. In addition, any contamination did exist on the exterior walls, this contamination would likely have been eliminated by the scouring and washing actions of the wind and precipitation.

4.2.1.1 Wallboard and Insulation Sampling. Four sections will be randomly selected from each 20-ft wall, two from the upper level and two from the lower level. Eight sections will be randomly selected from each 40-ft wall, four from the upper level and four from the lower level. This will provide a 50-percent sampling interval. Random selection will be made with the use of a random number table. Because the upper and lower levels of the insulation may not be equivalent relative to the amount of contamination, the samples from each level on each wall will be analyzed separately. If a random section is chosen that is dominated by a door, window, or other "not able to be sampled" item, it will be recorded in the field notes with the reason why it cannot be sampled an a successive random number will be selected.

It is the purpose of this sampling effort to delimit which half of which wall may be contaminated by the operations of the facility so that proper disposal of insulation and/or wallboard can be effected. To this end a five-point composite will be collected from each randomly selected section, as illustrated in Figure 6. A stainless steel knife will be used to remove 2-in. by 2-in. squares of insulation. Where wallboard is present, it too will be collected, but it will be bottled separately. Each set of five squares will be placed in a quart-size glass jar. See Appendix F for additional sampling procedures. Each upper and lower wall sample will be composited for analysis for a total of four upper composite samples of wallboard and eight (four upper and four lower) of insulation. Please refer to Appendix G for the details of the analytical program.

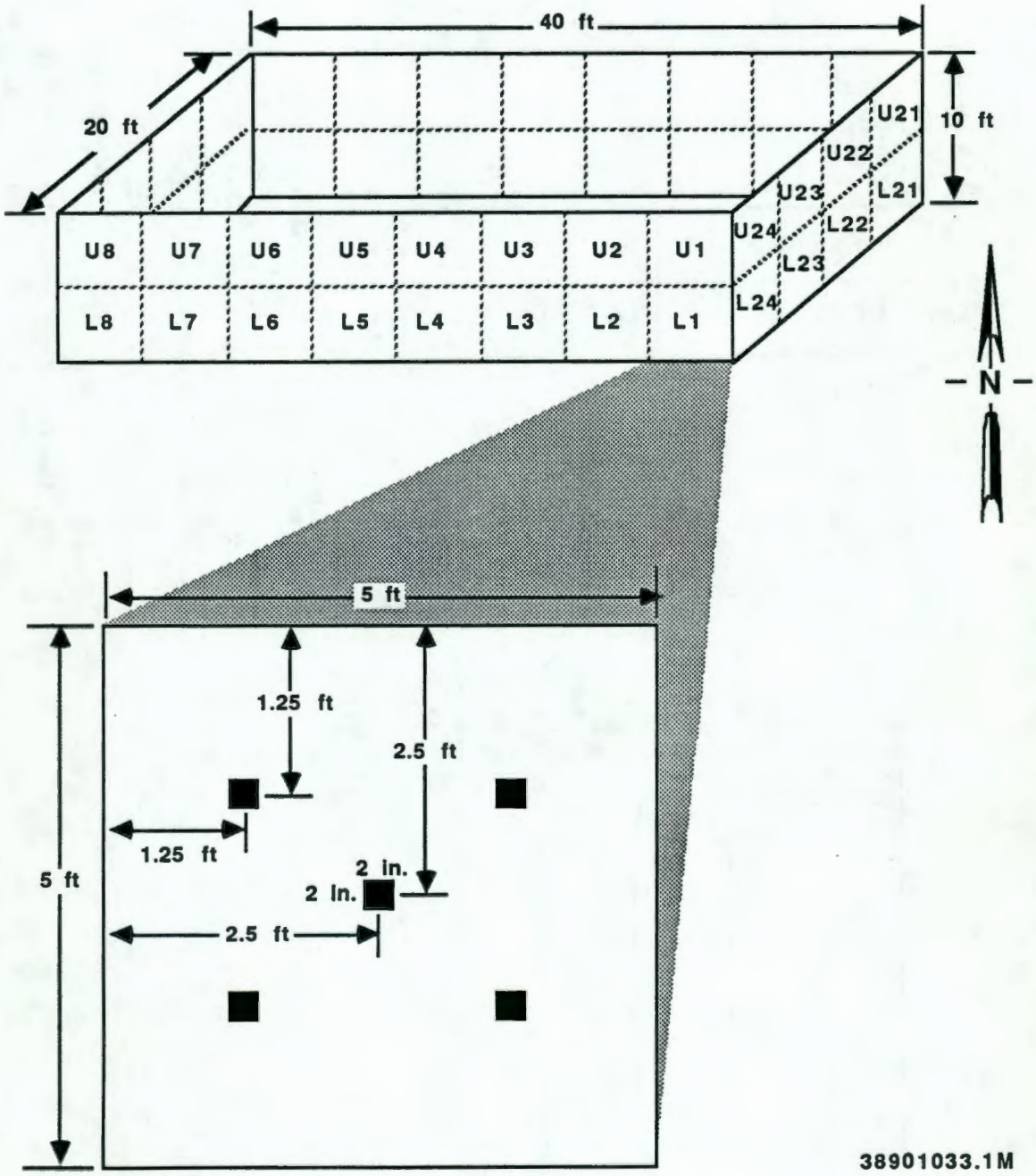

Figure 6. Sampling Plan for Wall Board and Insulation.

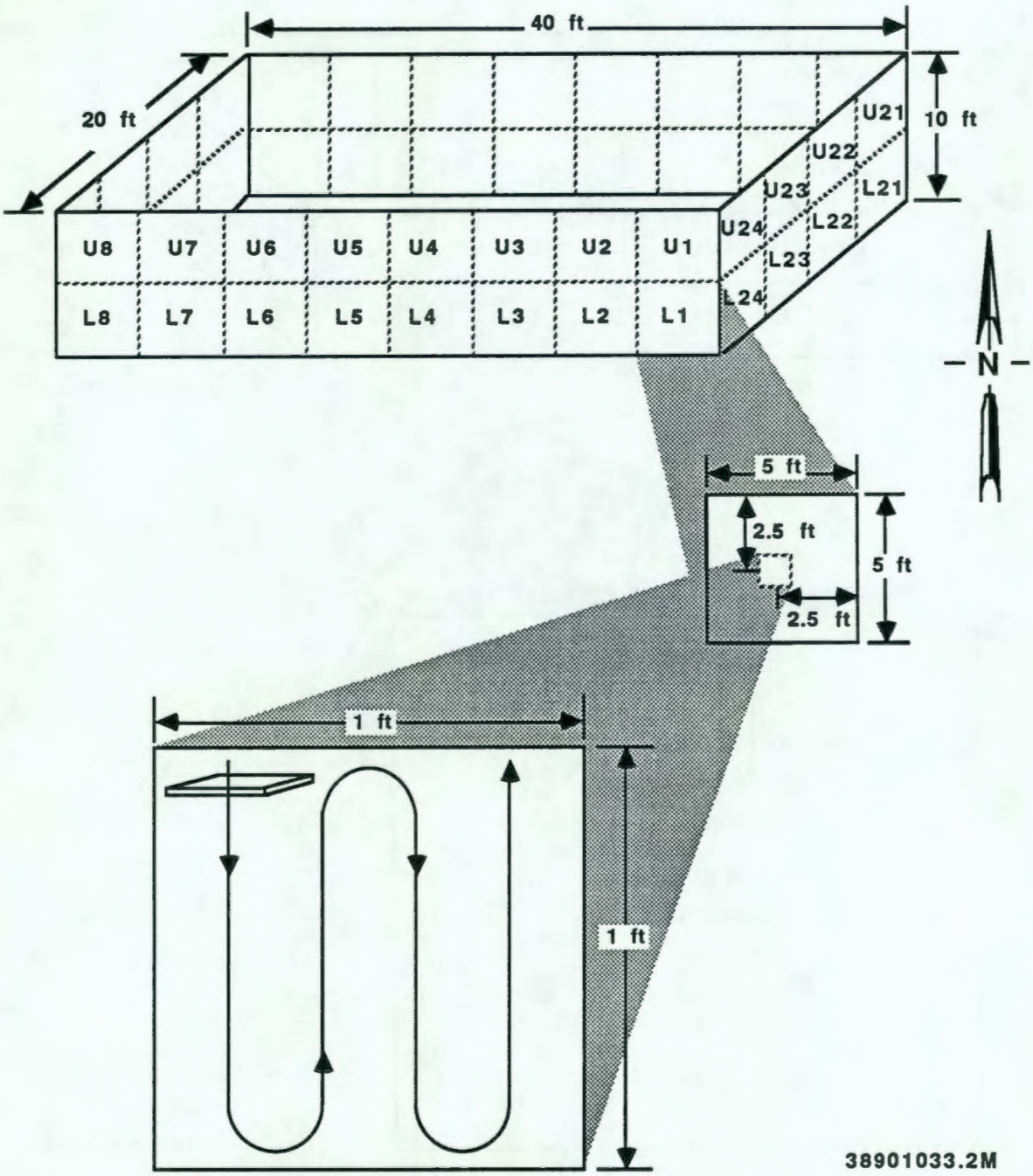

Figure 7. Wipe Sampling Plan for Building.

4.2.1.2 Interior Metal-Wipe Sampling. Although wallboard and insulation were installed at the time the facility began operation, it cannot be assumed that the metal siding was protected by these materials and is uncontaminated. The building was used for chemical storage prior to being a part of the 2727-S NRDWS facility. As such, the wallboard and insulation will be removed and held, and the metal siding will be wipe sampled.

Each interior wall will be wipe sampled. Four sections will be randomly selected from any 20-ft wall, two from the upper level and two from the lower level. Eight sections will be randomly selected from any contaminated 40-ft wall, four from the upper level and four from the lower level. Random selection will be made with the use of a random number table. A 1-ft^2 disposable template will be placed in the center of each randomly selected section (Fig. 7). One gauze pad will be used to wipe down the wall surface within the template. The entire 1-ft^2 area will be carefully covered, utilizing vertical strokes, starting at one end and progressing to the other (Fig. 7). Care will be taken to wipe the surface only once throughout the sampling effort. After the sample is collected, the gauze will be immediately placed in the sample container so as to prevent any volatile contaminants from escaping. Each gauze pad will be placed in a 40-mL glass screw-cap volatile organics analysis (VOA) vial with a Teflon*-faced silicone septum. See Appendix F for additional sampling procedures.

Half of the gauze pads will be laboratory prepared with hexane. These pads will be analyzed for the organic constituents listed in Appendix G. The remaining pads will be laboratory-prepared in a dilute (1:100) nitric acid solution. These pads will be analyzed for the inorganic constituents and metals listed in Appendix G. For the first section selected per half wall of a 20-ft wall, one pad will be used for organic constituents. For the second section selected in a half of a 20-ft wall, one pad will be used for inorganic constituents. For a 40-ft wall the first and second sections will be wiped for organics and the third and fourth for inorganics. For details regarding the analytical program refer to Appendix G.

For a 40-ft wall, each wall half will yield two inorganic and two organic gauze pads. In this case the gauze pads will be composited by the receiving laboratory to produce one upper level and one lower level inorganic and organic sample for analysis.

4.2.2 Concrete Pad Sampling

The concrete pad will be sampled both inside and outside the building. Four cores will be withdrawn from the concrete floor within the building, two from each bay. The floor will be divided lengthwise and the cores taken from the center of each section (Fig. 8). This sampling is designed to determine which bay may be contaminated. Two sample locations were chosen close to the center of each bay to collect samples from the high traffic areas. The cores will be cut, removed, and packaged as described below.

Six randomly identified sections outside the building will be sampled. These locations were selected using a random number generator (Appendix A).

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*Teflon is a trademark of E. I. duPont de Nemours & Company.

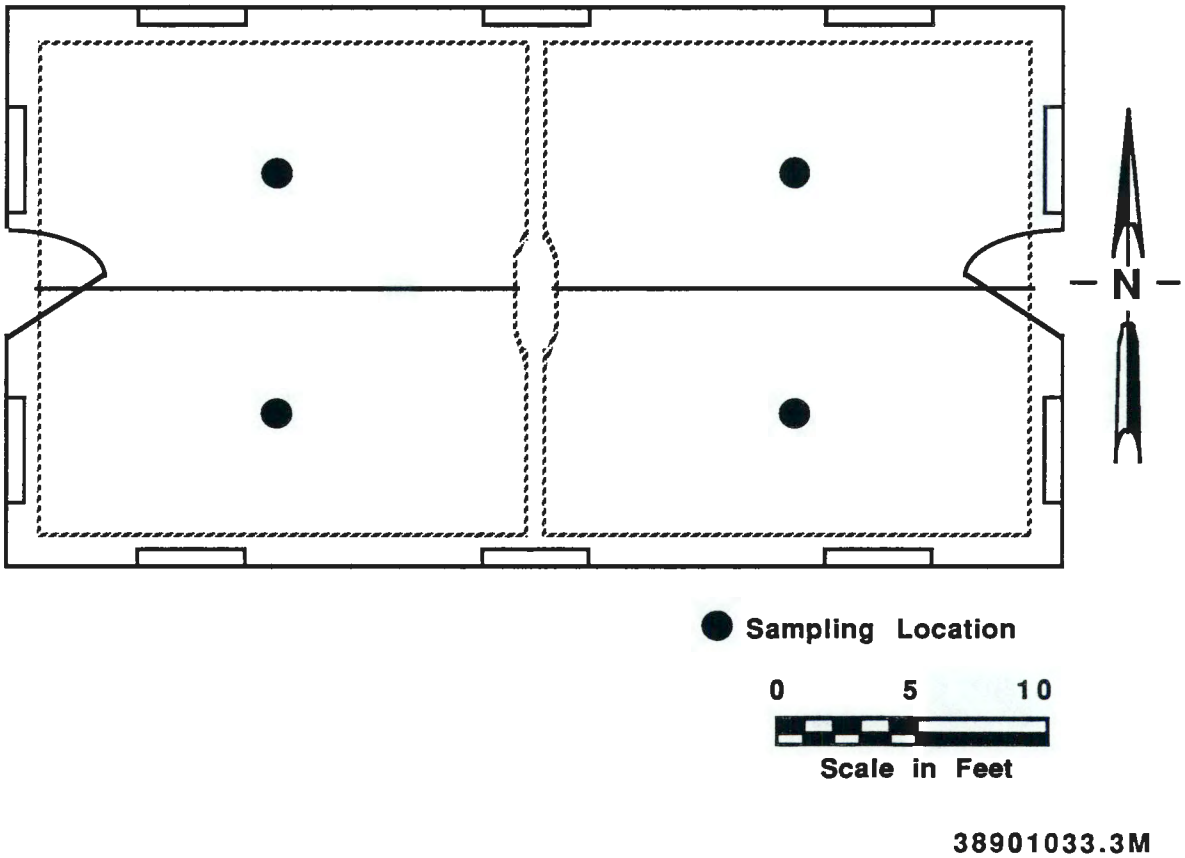

Figure 8. Sampling Locations within Building.

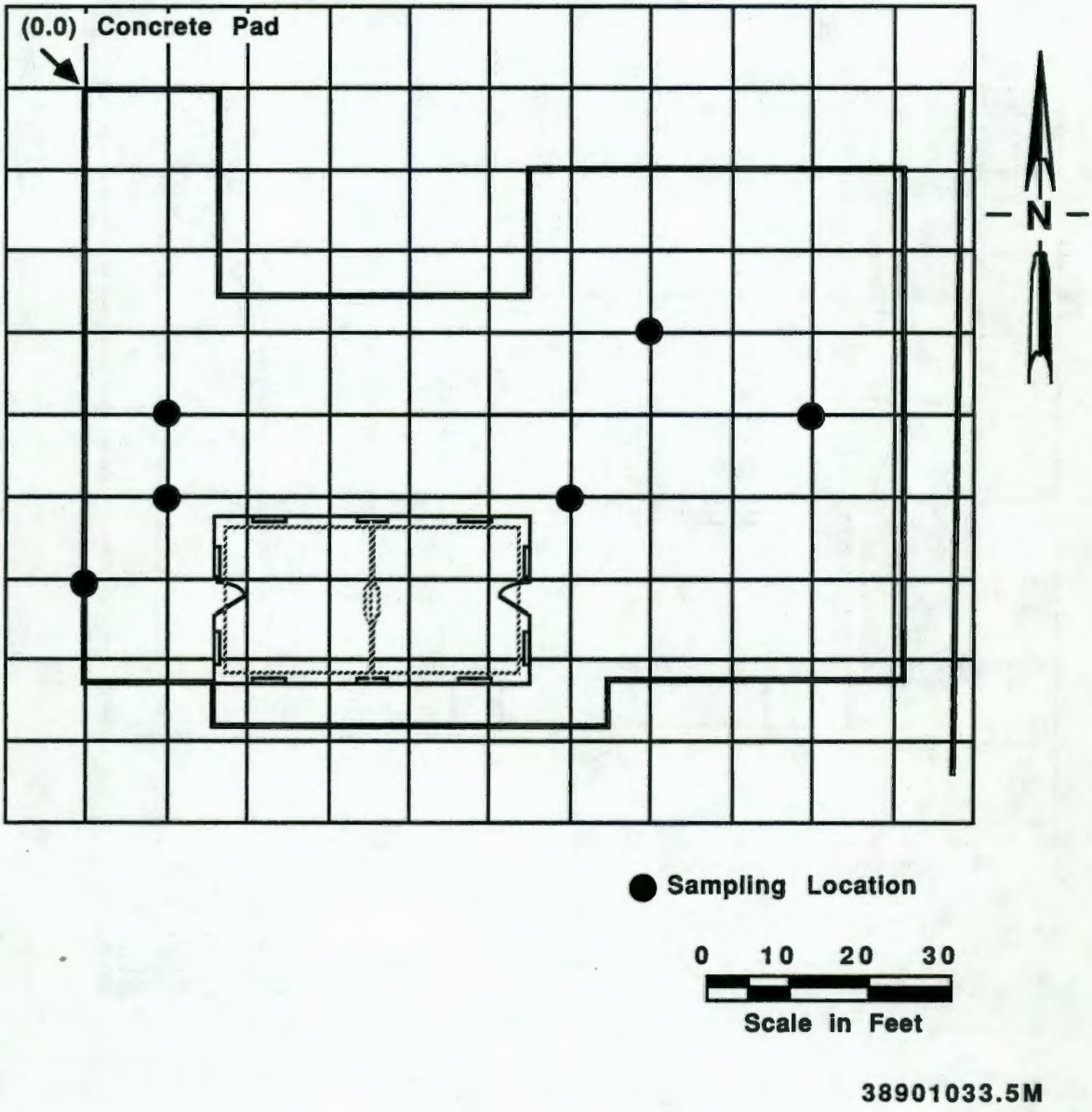

Figure 9. Random Sampling Grid, Concrete Pad.

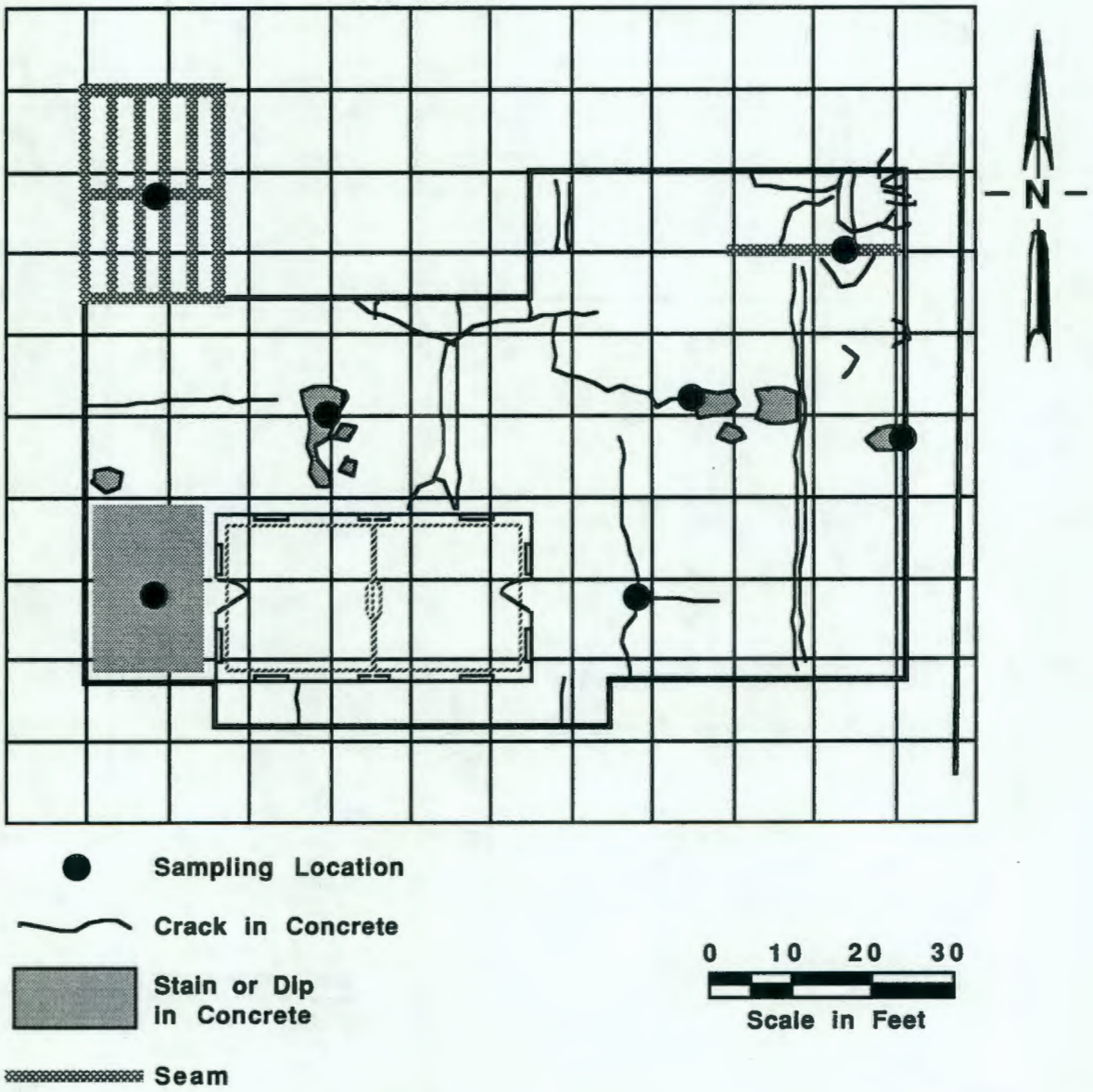

Figure 10. Specific Sampling Site Plan, Concrete Pad.

This will provide a 10-percent sampling interval. The sections will be located from the northwest corner of the pad progressing in 10-ft intervals 80 ft south and 110 ft east (Fig. 9). Additionally, seven core samples will be collected as described below in the areas marked on Figure 10. These locations have been chosen because of physical considerations such as soil staining, depressions, and cracks in the pad.

Surface sampling (wipe sampling) of the concrete pad will not occur, based on the fact that if spillage occurred it is assumed that the porous nature of the concrete would have allowed the penetration of the contaminant into the concrete matrix. Therefore, a concrete coring device will cut the core, estimated to be 4 in. thick, from the intersection of each selected section and at each sampling point. The coring device employs a 6-in.-outer-diameter (OD) circular saw that uses water as a cutting lubricant. No other organic-based lubricant will be used. An industrial-size shop vacuum will be used to remove excess water from around the core. This will be done to minimize any surface contamination flowing into the underlying soil. The wastewater from within the shop vacuum will be emptied into a new 17-E closed-head 55-gal drum. The shop vacuum will be triple rinsed with distilled water, and this rinseate will be containerized with the wastewater. The rinseate and wastewater will be managed as described in Appendix F.

Once the core is cut, it will be carefully withdrawn by hand and wrapped in a Teflon sheet. This package will, in turn, be placed in a 1-gal-capacity zip lock bag to protect it from cross contamination. See Appendix F for additional sampling procedures. The laboratory will slice off the top 1/2 in. of each core and pulverize each sample for analysis and will put the sample through two-phase crushing. First the sample is put into a jaw crusher to reduce it to -0.5 in., and then it is put into a disc pulverizer to reduce it to -80 mesh. See Appendix G for details of the analytical plan.

Each core hole will be filled with bentonite clay pellets after soil sampling is completed as described below. Enough water will be added to the pellets to cause them to swell and seal the hole from stormwater infiltration.

The locations to be cored will proceed from the least to the greatest potentially contaminated, which in this case is from the outside of the building to the inside of the building. This will tend to minimize the chance of cross contaminating samples.

4.2.3 Soil Sampling

The purpose of this sampling effort is to delimit the areal and vertical extent of near-surface soil contamination resulting from the operation of the facility. The fine sandy soil immediately surrounding and beneath the concrete slab will be sampled. Additionally, samples will be collected within the areal extent of the property within the facility boundaries.

The facility property soil sampling was divided into the four soil sampling areas listed below:

- Beneath the facility building
- Beneath the concrete pad surrounding the building

- The 20-ft-wide perimeter surrounding the concrete pad
- The remaining facility property.

Soil sampling beneath the facility building will be performed at the four locations identified in Section 4.2.2 and shown on Figure 8. At each location a soil boring will be advanced to a 3-ft depth. A soil sample will be collected at the surface, at 1 ft, and at 3 ft in the soil profile.

Soil beneath the concrete pad surrounding the facility building will be sampled at the specific sampling locations (not the randomly selected locations) identified in Section 4.2.2 and shown on Figure 10. Samples will be collected from three depths in each boring: the surface, at 1 ft, and at 3 ft.

The historical use of the site indicates that drums were stored off the pad but only in the immediate vicinity of the north side of the pad. Site conditions around the pad are such that the ground is essentially flat. If any spills occurred at the edge of the pad or onto surrounding soils, liquids would migrate down into the soil column and would be held in the upper soil profile since there would be very little driving force. How fast the liquids would migrate downwards depends on the viscosity of any spilled liquids. The absorptive capacity of the soils has been determined to be high. In addition, the groundwater table is approximately 200 ft below the site. Therefore, a more intensive soil sampling effort will be conducted in the 20-ft perimeter around the pad.

The 20-ft-wide perimeter surrounding the concrete pad was subdivided into four areas corresponding to the sides of the building (Fig. 11). For each area, six sampling locations were randomly identified using a random number generator (Appendix H). At each of these locations samples will be collected from the surface, at 1 ft, and at 3 ft. Samples from the same sampling depth in each area will be composited in the laboratory after collection.

The 20-ft-wide perimeter was subdivided into four smaller areas to provide information on the areal extent of contamination. If contamination is found in any of these four areas the soil can be removed from the entire area. The depth to which soil removal is necessary will be indicated by samples collected deeper in the soil profile, assuming the contamination, if identified, does not extend below 3 ft. Note that if samples were composited by sampling loca-tion, additional sampling to identify the depth is required beforeremedi--ation can begin. This sampling plan enables remediation to begin immediately.

The remaining facility property will be sampled at ten locations. Locations will not be chosen from within the 20-ft perimeter previously discussed. The locations were chosen using a random number generator and a 25-ft grid system and are shown on Figure 12. Appendix H contains details of the random number generation and sample location process. At each location, a boring will be advanced to 3 ft and sampled at the surface, at 1 ft, and at 3 ft. The three samples from each boring will be composited in the laboratory and analyzed for priority pollutants. These soils are intended as background samples, but will also serve as verification samples to ensure that the storage activities were contained within the other sampling zones. If contamination is found in any one of the borings, the samples will be analyzed individually for that boring to determine the vertical distribution of contamination.

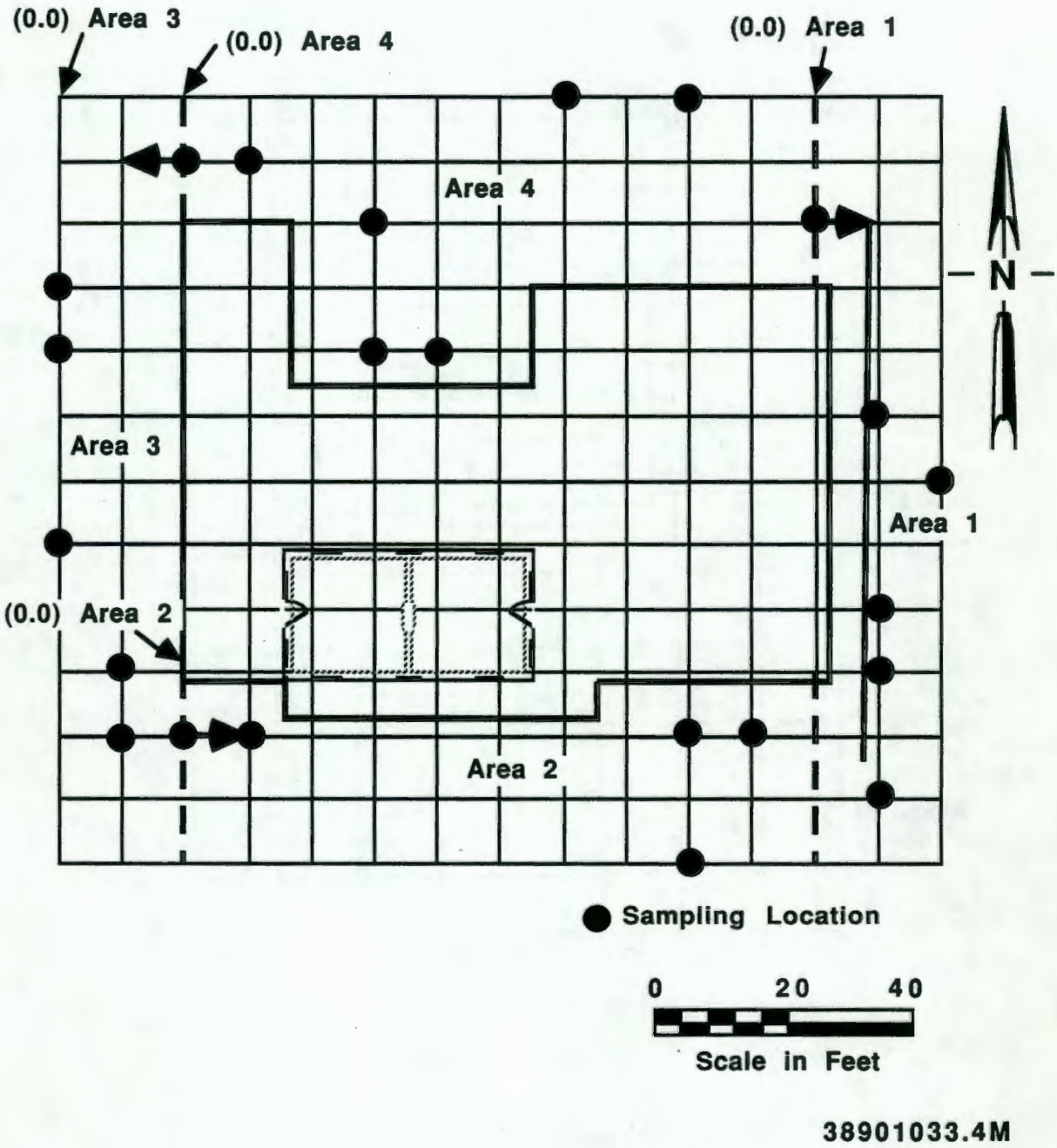

Figure 11. Random Sampling Grid, Soil.

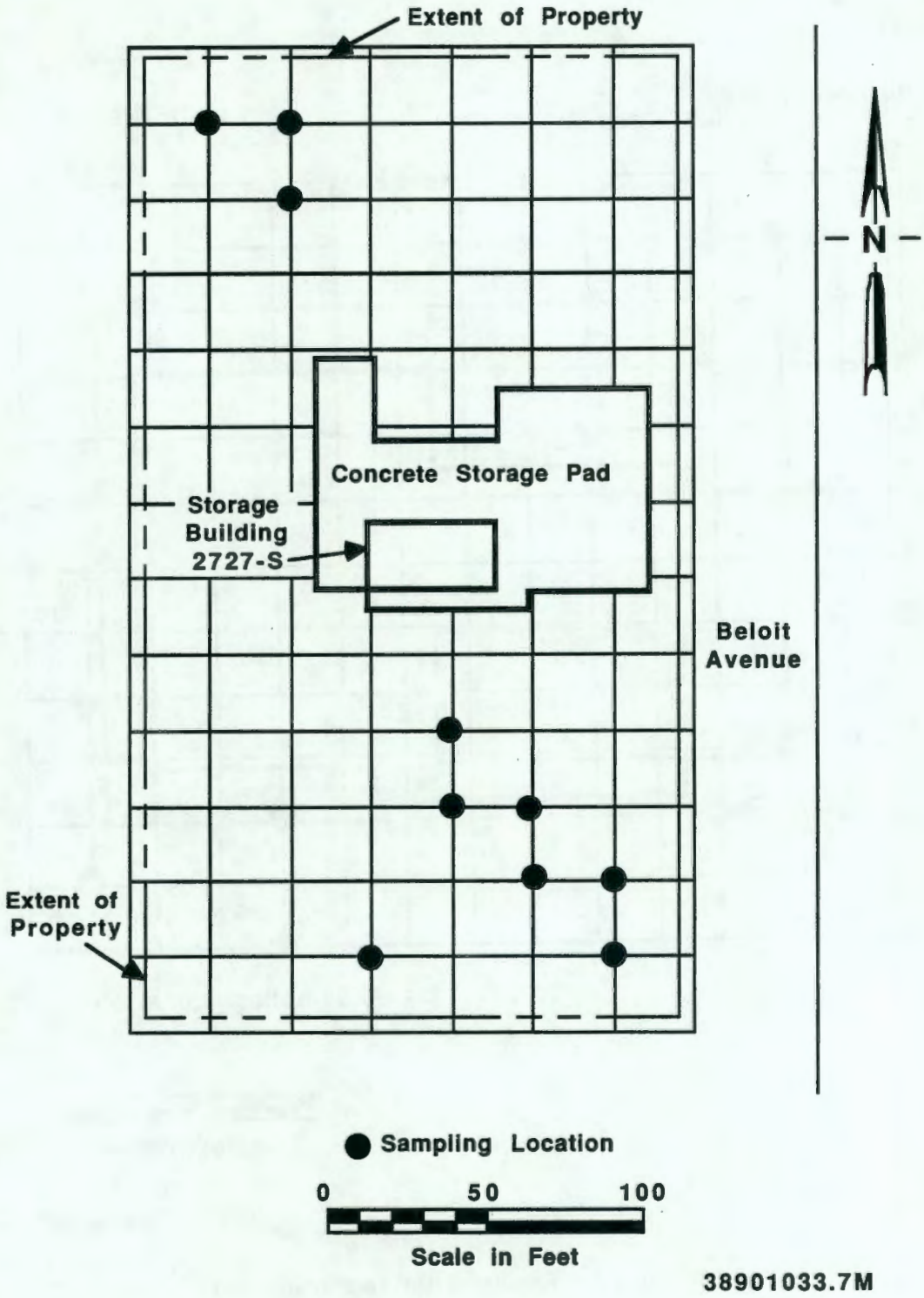

Figure 12. Areal Soil Sampling Plan.

A random selection procedure was chosen for identifying the sampling locations discussed above, because it is technically defensible. For sampling at this facility, random sampling is neither more nor less desirable than systematic sampling. Both methods for identifying sampling locations provide similar coverage of the area and consequently the same information. If soil staining or historic information indicate that contamination was localized to specific areas, these sampling strategies need to be supplemented with biased sampling within the suspect areas. Biased sampling is planned on the concrete pad in addition to random sampling, because cracks and stains are suspect for contamination. Elsewhere on the facility property there is no reason to locate samples in a biased manner, because the soil materials are not stained and appear natural.

The decision to collect background samples within the same property parcel as the 2727-S structure was based on 1) the similarity of soil type to that immediately surrounding the structure and 2) confidence that no other hazardous waste activity has occurred on the parcel.

At each soil sampling location, both on and off the concrete pad, a precleaned 4-inch-OD hand-operated soil auger will then be carefully placed in each hole, and soil will be removed to a depth of 1 ft. At the one-ft depth, a soil sample will be carefully removed with a clean stainless steel sampling spoon as described above. Extreme care will be exercised to avoid knocking soil along the side of the boring and at the surface into the bottom of the borehole, which might contaminate the sample. Once sampling is complete, the soil auger will be decontaminated and reintroduced in the hole. Soil removal will proceed down to 3 ft from the surface. A final sample will be removed at this depth as previously described. See Appendices F and G for details of the sampling procedures and analytical plan.

The soil that is removed by the auger from each hole will be containerized in a preconditioned 17-H open-headed 55-gal container(s) pending analysis. The container(s) will be stored at the 2727-S NRDWS facility until analyses are returned and evaluated.

4.2.4 Sampling Plan Quality

The depth to which a sampling plan elucidates the statistical properties of environmental variables must be dependent on the purpose, or objective, of the investigation.

The purpose, or objective, of this sampling plan is to identify the absence or presence of contamination in several media, namely the building materials, the concrete pad, and the surrounding soils of the 2727-S NRDWS facility. A classification of "contamination absence" is indicated by undetectable concentrations, whereas "contamination presence" is indicated by concentrations greater than detection limits. Thus, it is not necessary, in light of the potential decontamination procedures (see Sections 4.3, 4.4, and 4.5), to reveal statistical properties of the contaminants that may be present in these materials. For example, mean values, dispersion parameters, and covariance structures do not provide pertinent information for this type of an investigation. Moreover, statistically rigorous comparisons with background populations are not necessary since background concentration levels are assumed to be below detection limits. Statistical rigor is required, however, in

determining the laboratory quality assurance/quality control. The probability for false positives or false negatives is mostly (see below) dependent on the quality of the data produced by the laboratory.

A summary of the sampling effort included in the present plan is given in Table 2 (see Sections 4.2.1 through 4.2.3).

Table 2. Summary of Sampling Effort.

Media	Number of samples collected	Number of samples analyzed	Comments
Wallboard	12	4	All material
Insulation	24	8	All material
Interior metal	24	8	All wipe
Concrete pad	17	17	4 inside, 13 outside
Soils			
Beneath building	12	12	4 locations, 3 depths
Beneath pad	21	21	7 biased, 3 depths
Perimeter soil	72	12	4 composite, 3 depths
Areal soil	30	10	10 locations, 3 depths composited,
Total	212	92	

This plan is most effective for detecting contaminated material when the contaminant concentration distributions are homogeneous. Due to the arid climate and sandy soil, contamination of the soil would tend to be towards vertically. This is true because samples are often composited, and spatially systematic sampling is not used. Note that the inclusion of composite sampling and the exclusion of systematic sampling both have cost-reducing effects. Through implementation of this sampling plan, large areas (e.g., entire walls) of uniformly contaminated material are the most likely to be detected. In contrast, under conditions of local spatial fluctuations in contaminant concentrations this plan is less effective. At a small scale, composite sampling can potentially dilute a detectable concentration to below detection limits, thus yielding a false negative. Similarly, at a larger scale, the nonsystematic approach may completely miss areas of contamination because of low-density sampling.

To alleviate part of the problems inherent in this plan, biased sampling locations were cited where visual disturbances, either stains or cracks or both, suggested the existence of contamination. The only need for this type of sampling was on the concrete pad and underlying soil (Fig. 10). Other media of the site appear homogeneous, and no biased sampling is warranted.

4.3 BUILDING DECONTAMINATION

The decontamination of the building will be based on the results of the building sampling discussed in Section 4.2.1.

If the wallboard and insulation-sampling analytical results show any wall containing these materials to be contaminated (detectable levels of wastes

are present) then those materials from that entire wall will be stripped from the building. The associated electrical components, ceiling, and any other items will also be stripped from the building. It is not possible to remove wastes from the wallboard or insulation without destroying these materials in the process. Applicable decontamination techniques such as grit blasting, hydroblasting, scarification, steam cleaning, and flaming are destructive. The stripped materials will be designated based on the sampling results, in accordance with WAC 173-303-070 (WAC 1987). Assuming that the resulting designation determines the wallboard and insulation (and associated items) to be regulated as a listed dangerous waste (this assumption can be made because the facility held listed wastes), these materials will be shipped to the 616 NRDWS facility for storage. The materials will then be shipped to Northwest EnviroService, Inc. (NWES) for disposal. The approximate volume of material to be removed is 16 yd^3.

If the wipe sampling shows the metal interior of the building to be contaminated, then the building will be dismantled. Any contaminated building walls will be marked and moved for steam cleaning. Only those walls having contamination as revealed by wipe sampling will be steam cleaned. The steam cleaning will be performed three times in a specially prepared area adjacent to the southern side of the pad and large enough to contain building pieces and equipment (for decontamination). Preparation of this area includes grading the ground surface and lining it with durable plastic, either 8-mL (e.g., Visqueen*) or 12-mL (e.g., Hypalon**) thick, so that all rinseate will flow to a collection point. The rinseate will be collected and pumped to containers using a portable diaphragm pump with flexible hoses and will be managed as described in Appendix F and Section 4.6. The steam-cleaned building sections will be wipe sampled as outlined in Subsection 4.2.1. These wipe samples will be analyzed for the chemical constituents revealed in the initial wipe sampling to verify that the steam cleaning was effective. If the steam cleaning was determined to be ineffective (by the second wipe sample) then the still-contaminated building sections will be designated as a regulated waste. This designation will be in accordance with WAC 173-303-070 (WAC 1987) and will be based on the results of the verification wipe sampling. The still-contaminated building sections will be shipped to NWES. The estimated maximum volume of waste is 26 yd^3.

If the wallboard and insulation-sampling analytical results do not show these materials to be contaminated, and the wipe-sampling analytical results do not show the metal building to be contaminated (no detectable levels of waste are present), then the entire building (wallboard, insulation, ceiling, associated items, and metal exterior) will be considered to be clean and the building can be reused on the Hanford Site. It is very unlikely that the interior metal building will be contaminated if the wallboard and insulation are not; however, if such is the case, then the wallboard, insulation, ceiling, and any other associated items will be treated as if they were contaminated and stripped from the building. The metal building will be steam cleaned as outlined above.

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*Visqueen is a trademark of the Ethyl Corporation.
**Hypalon is a trademark of E. I. duPont de Nemours and Company.

4.4 CONCRETE PAD DECONTAMINATION

If the initial sampling program indicates that contaminants have been absorbed by the concrete at any sampling location, the surface of the entire concrete pad will be removed by grinding. An industrial-type concrete grinder with vacuum suction and a collection bag will be used to remove the top 0.5 in. of concrete. The collected material will be designated in accordance with WAC 173-303-070 (WAC 1987). Assuming that the resulting designation determines the material to be a regulated waste, the material will be shipped to NWES. The estimated maximum volume of waste is 10 yd^3.

Once the contaminated concrete has been removed and the closure standard has been verified by wipe sampling, the remaining concrete will be broken up and sent to the central landfill in the 600 Area. Wipe sampling will be conducted in a manner similar to that outlined in Section 4.2.1. The wipe sample results will be tested for those chemicals revealed in the concrete core sample analysis. The estimated volume of waste is 78 yd^3.

If the verification wipe sampling shows that the contaminants have penetrated past the top 0.5 in., all of the concrete will be broken up and shipped to NWES. The total estimated volume of concrete is 88 yd^3.

4.5 SOIL EXCAVATION

The soils represent the third and final area where decontamination may be necessary. If soils are contaminated above background, all contaminated soils within the 100-ft^2 sampling grid will be removed and disposed of at NWES. A backhoe and front-end loader will be used to collect and place contaminated soils in lined and diapered dump trucks for transport. Some labor using hand tools such as shovels, picks, scrapers, and rakes may be necessary if contaminated areas are small or localized (i.e., less than 2 yd^3).

Once the soil is removed, verification samples will be collected from the excavation to determine the effectiveness of the removal program. The number of samples collected will be dependent on the areal extent of contamination encountered, but will be no less than five discrete samples (one from each side and one from the bottom) composited into one for analysis. Based on the analytical results, additional soil may be removed until background levels are achieved.

4.6 EQUIPMENT DECONTAMINATION

The equipment used during the closure activities will be cleaned three times with a steam cleaner. The cleaning of the equipment will be performed over a solid sheet of durable plastic. The plastic will be either 8-mL (e.g., Visqueen) or 12-mL (e.g., Hypalon) thick, depending on the equipment and the amount of potential abrasion resulting from cleaning activities. The sides of the plastic will be elevated to prevent the escape of rinseate. The rinseate from steam cleaning will be collected and pumped to 55-gal steel drums that will be sampled as specified in Appendix F. The pump will then be flushed three times with water that will be managed as rinseate.

The rinseate will be designated in accordance with WAC 173-303-070 (WAC 1987). If it is determined to be dangerous waste, it will be shipped to NWES for treatment and/or disposal. The NWES accepts hazardous liquids for treatment; no prior solidification is necessary. The plastic liner will be removed and disposed of at NWES. All materials packaged for shipment to NWES will be in DOT-approved containers that are compatible with waste contents (e.g., 55-gal drums). All containers will be labeled and shipped under manifest.

4.7 RESTORATION

Upon removal of waste residues and contaminated structures or soil, the site may require some degree of reclamation. This may be justified to control dust, erosion, and surface water runoff and to promote postclosure usage. Site restoration will include backfilling disturbed soil areas with noncontaminated native soils, compaction, grading, and revegetation.

4.8 CERTIFICATION

Within 60 d of completion of closure of the 2727-S NRDWS facility, certifications will be completed. Suggested certification statements are contained in Appendix H. The independent registered professional engineer who will be monitoring closure will visit the site at least at the commencement and end of each activity described in the closure plan (e.g., wallboard and insulation sampling, wipe sampling, concrete pad sampling, soil excavation, etc.). The frequency of these inspections is noted in the closure plan schedule (Section 5.0). The professional engineer will review all records, notes, analyses, files, manifests, etc. relating to the closure activities. After the final professional engineer closure certification has been executed and the appropriate local zoning authority has received a copy of the survey plan indicating the location of the facility, a responsible government official will certify that the facility has been closed in accordance with the closure plan. The responsible government official(s) is identified in Appendix I.

5.0 CLOSURE PLAN SCHEDULE

Closure of the 2727-S NRDWS facility will begin upon notification by Ecology of plan approval. Closure of the facility will proceed according to the schedule presented in Table 3 and Figure 13.

Table 3. 2727-S Closure Plan Schedule.

Activity	Planned estimate
2727-S closure plan schedule	177 ed[a]
Closure activities begin (following approval)	1 d[b]
Determine nature and extent of contamination	1 d
Building sampling	2 d
Concrete pad sampling	3 d
Surrounding soil sampling	2 d
Perform certification inspection	1 d
Analyze samples	45 d
Begin decontamination procedures	1 d
Strip the walls and ceiling of the building	3 d
Clean and/or demolish concrete pad and metal building	7 d
Remove the demolition debris	3 d
Remove contaminated debris	3 d
Excavate and dispose of contaminated soils offsite	3 d
Perform certification inspection	1 d
Evaluate decontamination effectiveness	1 d
Collect samples	2 d
Analyze samples	25 d
Compare to target levels	2 d
Repeat decontamination as necessary	5 d
Decontaminate demolition equipment	2 d
Remove and dispose of decontamination liner	1 d
Perform certification inspection	1 d
Restoration	5 d
Perform final certification inspection	1 d
Complete certification	9 d

NOTE: Prepared 02-23-88.

PST89-5001-1

[a]ed = Elapsed day.

[b]d = Work day.

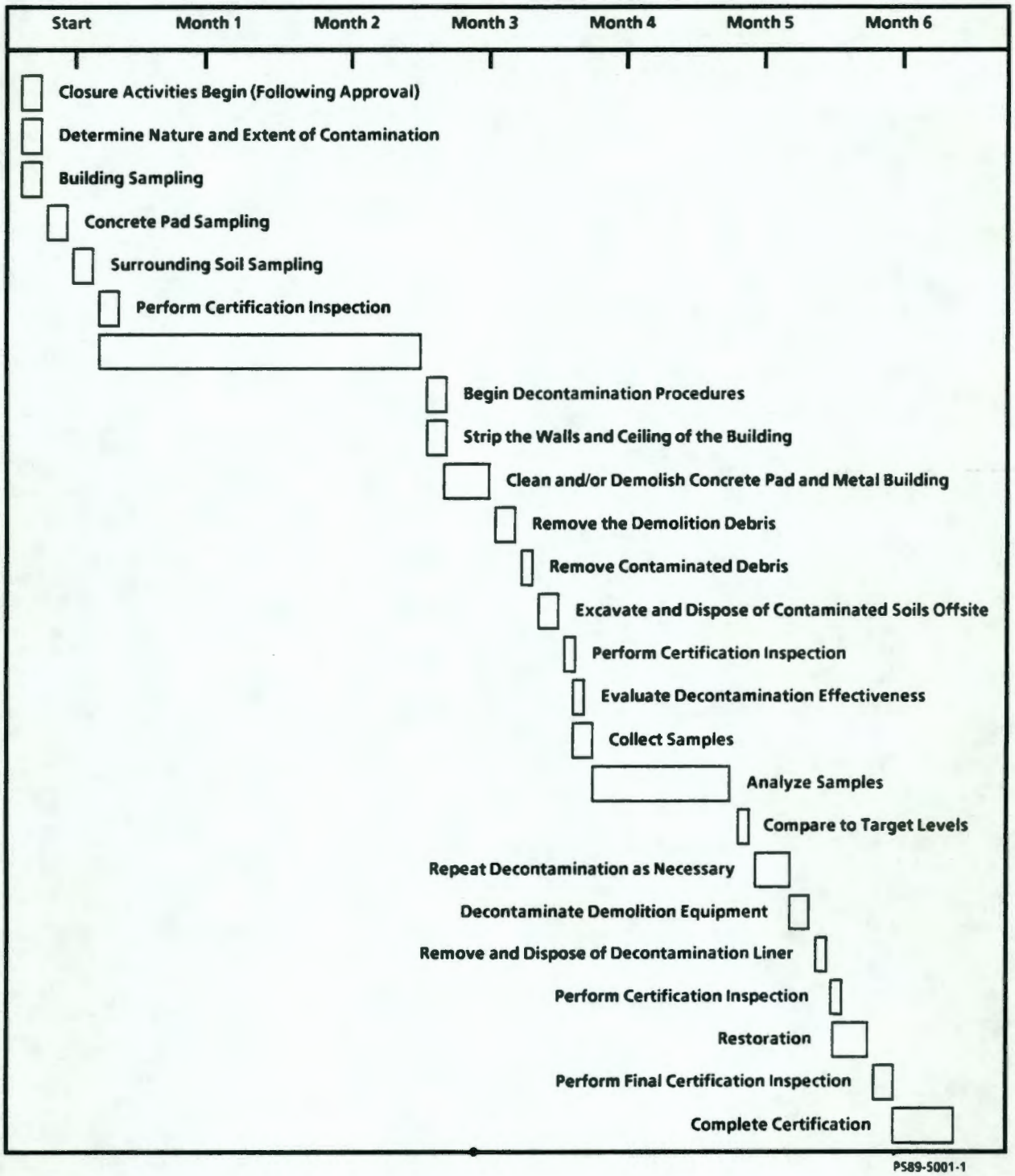


Figure 13. 2727-S Closure Plan Schedule.

6.0 REFERENCES

WAC, 1987, "Dangerous Waste Regulations," Washington Administrative Code, 173-303, Washington Department of Ecology, Olympia, Washington.

APPENDIX A

CHECKLIST

* *

Part 6: Closure

This part of the checklist/questionnaire is applicable to all dangerous waste management facilities operating under interim status. Dangerous waste facilities may include containers, tanks, surface impoundments, waste piles, thermal treatment, chemical, physical and biological treatment, land treatment, incinerators, and landfills.

The abbreviation "O/O" is used frequently throughout this checklist/questionnaire and stands for the words "owner and/or operator."

The questions in the checklist have been written in a manner such that they can be answered either "Yes" or "No." However, the answers to some questions may require additional explanation. The space provided for comments at the end of each section may be used for explanations. If a question does not apply to a particular facility, simply write "NA" (not applicable) next to the question.

CLOSURE PLAN CHECKLIST

6.1. GENERAL FACILITY INFORMATION

Facility Name: 2727-S NRDWS EPA/State I.D.: #WA7890008967

Inspectors Name: _____ Date: _____

Check the type(s) of unit operations that the O/O manages at his facility (refer to 6.3 for Unit Specific Requirements):

	Page No.
• Containers	13
• Tanks.	14
• Surface Impoundments	15
• Piles.	16
• Land Treatment	17
• Landfills.	18
• Incinerators	19
• Thermal Treatment.	20
• Chemical, physical and biological treatment.	21

6.2. GENERAL CLOSURE REQUIREMENTS	Yes	No	Page # Location
1. WRITTEN PLAN			
A. For facilities without approved plans, is a written closure plan available during your site inspection? (265.112(a))	X		
B. Does the closure plan identify and describe each dangerous waste management unit that was active as of 11/19/80 and how each will be closed to (1) minimize the need for further maintenance, and (2) control, minimize or eliminate to the extent necessary to protect human health and the environment, post-closure escape of dangerous waste, dangerous constituents, leachate, contaminated run-off, or dangerous waste decomposition products to ground or surface waters or to the atmosphere?	X		16
C. Does the closure plan include general information about the facility which would be helpful in reviewing the plan, including (Note: regulations do not presently require the inclusion of the following information. However, inclusion of this information will aid in the review of the plan.):			
a. facility size(s)	X		7,8
b. facility type(s)	X		1
c. descriptions of all on-site equipment	X		7
d. topography	X		2,3
e. waste characterization	X		10
f. soil type	X		25
g. description of surrounding land use	X		2
h. surrounding population	X		2
i. size of facility (acres)	X		6
j. volume of impoundment	N/A		
k. type(s) of treatment/processing	N/A		
l. description of liner	N/A		
m. leachate collection system	N/A		
n. gas collection system	N/A		
o. dredging procedures/schedules, etc.	N/A		
p. incinerator specifications	N/A		
q. other (specify _____)	N/A		

Comments: _____

_____

_____

_____

		Yes	No	Page # Location
2.	MAXIMUM EXTENT OF OPERATION (40 CFR 265.112(a)(1))			
A.	Does the plan identify the MAXIMUM EXTENT OF OPERATION which will be unclosed during the life of the facility?		N/A	
B.	Is the MAXIMUM EXTENT OF OPERATION estimate exceeded by current operations?		N/A	
C.	Does the MAXIMUM EXTENT OF OPERATION estimate include:			
a.	the maximum area of landfill or land treatment ever containing wastes?		N/A	
b.	inactive areas open because of operating problems or contingencies?		N/A	
c.	maximum area of land ever used for land spreading?		N/A	
d.	the most extensive treatment required for land spreading?		N/A	
e.	the maximum area used for storage?	X		8,9

Explain each "NO" answer.

Comments: _____

_____

_____

_____

		Yes	No	Page # Location
3.	MAXIMUM INVENTORY (40 CFR 265.112(b)(3))			
A.	Is there an estimate of the MAXIMUM INVENTORY of wastes in storage or treatment at any time during the life of the facility? (Note: write NA for those cases where there is no storage or treatment prior to disposal.)	X		15
B.	Does the MAXIMUM INVENTORY estimate include the maximum amount of on-site wastes?			
a.	requiring pre-treatment?		N/A	
b.	requiring treatment?		N/A	
c.	requiring disposal?		N/A	
C.	Does the MAXIMUM INVENTORY estimate include the maximum amount of on-site:			
a.	wastes in surface impoundments?		N/A	

		Yes	No	Page # Location
b.	wastes in partially-closed non-disposal surface impoundments?	N/A		
c.	wastes in tanks?	N/A		
d.	wastes in piles?	N/A		
e.	wastes in drainage pits?	N/A		
f.	wastes in containers?	X		15
g.	standing liquids?	N/A		
C.	Does the MAXIMUM INVENTORY estimate include the maximum amount of on-site: (continued)	Yes	No	
h.	sludge?	N/A		
i.	contaminated soil from land treatment fields?	N/A		
j.	contaminated soil from around tanks, containers, piles?	X		33
k.	contaminated soil from around tanks, containers, piles?	N/A		
l.	process residues?	N/A		
m.	decontamination residues?	X		31,32,33
D.	Does the plan discuss the type(s) of TESTING AND CRITERIA to be used to determine: Note: the regulations do not require closure plans to include information on waste testing and criteria. Write "NA" for situations where soil contamination, decontamination residues, or process residues are not relevant.			
a.	whether soil is contaminated?	X		
b.	whether decontamination residues are hazardous?	X		31,32,33, F-2
c.	whether process residues are hazardous?	N/A		
E.	Are INCOMPATIBLE WASTES identified and provisions described for keeping them separate during closure (Note: write "NA" only if there are no incompatible wastes being managed at the facility.)	See comment below		

Comments: No wastes are on site. Closure will consist of sampling and decontamination of the walls of the building, the concrete pad and the surrounding soil as well as disposal of all closure activity wastes.

4. CLOSURE STEPS	Yes	No	Page # Location
A. Does the plan clearly identify the STEPS TO CLOSE			
a. at any point during the intended operating life? (40 CFR 265.112(b))	N/A		
b. at the end of the intended operating life? (40 CFR 265.112(b))	X		16,17
B. Do the STEPS TO CLOSE in the plan include:			
a. removal of wastes? (40 CFR 265.112(b))	N/A		
b. treatment of wastes? (40 CFR 265.112(b))	N/A		
c. transportation of all wastes? (40 CFR 265.112(b))	N/A		
d. waste disposal? (40 CFR 265.112(b))	N/A		
e. identification of and the type of off-site dangerous waste management unit to be used? (40 CFR 265.112(b))	N/A		
f. waste containment?	N/A		
g. cover? (40 CFR 265.310(a))	N/A		
h. removal or decontamination of contaminated containment system components, equipment, structures, and soil? (40 CFR 265.112(b)(4))	X		31,32,33
i. groundwater monitoring?	N/A		
j. closure certification? (40 CFR 265.115)	X		34 ,H-1,H-2
k. maintenance of leachate program?	N/A		
l. maintenance of gas collection program?	N/A		
m. security requirements?	X		4
C. With respect to the REMOVAL, TREATMENT, OR DISPOSAL of waste, does the plan identify:			
a. the source and type of materials and equipment needed?	N/A		
b. the amount of labor required?	N/A		
c. the capacity, number, and location of trenches or cells needed?	N/A		
d. the area required for landspreading?	N/A		
D. Does the plan describe the DECONTAMINATION (40 CFR 265.112(b)(4); 265.114) of facility equipment and structures, including:			
a. a list of equipment, containers, containment systems, and structures requiring disposal or decontamination?	X		16
b. decontamination procedures?	X		16,17
c. method of treatment or disposal of residues?	X		31,32,33

	Yes	No	Page # Location
d. sampling and testing program?	X		17-31,F-1,G
e. criteria to be used for determining the extent of decontamination necessary to satisfy the closure performance standards?	X		17-33
E. With respect to MONITORING, does the closure plan describe:	**Yes**	**No**	
a. details of the groundwater monitoring program during closure?	N/A		
b. soil testing and monitoring?	X		25-28
c. maintenance of monitoring equipment during closure?	N/A		
d. other (specify: _____	N/A		
F. With respect to CERTIFICATION of closure (40 CFR 265.115), does the closure plan describe scheduled or estimated number of inspections?	X		36,37,3
G. If a system for COLLECTING LEACHATE is present, does the closure plan:	N/A		
a. describe leachate removal, treatment, and disposal during closure?			
b. identify the approximate volume of leachate collected?			
c. provide for maintenance of the leachate collection system during closure?			
H. If a GAS COLLECTION SYSTEM is required during operation, does the closure plan?	N/A		
a. describe procedures for collecting gas during closure?			
b. describe monitoring samples and analysis during closure?			
c. describe maintenance of gas collection system during closure?			
I. If SECURITY (ex: fencing) is required, does the closure plan:	N/A		
a. describe the maintenance of security equipment during the closure period?			
b. describe the installation of appropriate equipment at closure?			
c. state the dimensions of the fence and the area to be enclosed?			

Comments: _____

_____

_____

_____

5. FINAL CLOSURE: SCHEDULE	Yes	No	Page # Location
A. For O/O of facilities without approved closure plans, or who use a trust fund to demonstrate financial assurance, does the plan identify the YEAR when final closure is expected to occur? (40 CFR 265.112(b)(7))	X		38
• What is the expected year of closure?	N/A		
B. Is there a SCHEDULE for closure activities for each management unit? (40 CFR 265.112(b)(6))	X		36,37,38
IF "NO" SKIP TO COMMENTS SECTION.			
C. Does the SCHEDULE for closure of each management unit include:			
a. total time required to close?	X		36
b. the time for intervening closure activities? (40 CFR 265.112(b)(6))	X		36,37,38
c. time required for key steps:			
i. waste inventory treatment? (40 CFR 265.112(b)(6))	N/A		
ii. waste inventory disposal? (40 CFR 265.112(b)(6))	N/A		
iii. removal of waste inventory and residues?	N/A		
iv. decontamination of facility equipment and structures?	X		36,37
v. installation of containment and diversion structures?	N/A		
vi. placement of final cover? (40 CFR 265.112(b)(6))	N/A		
vii. planting vegetation?	N/A		
viii. closure certification?	X		37
ix. other (specify: _____	N/A		
D. Does the SCHEDULE for closure of each management unit:			
a. encompass more than 90 days for treatment, removal, or disposal of wastes after receipt of final volume of dangerous wastes or after approval of the closure plan? (40 CFR 265.113(a))	N/A		

	Yes	No	Page # Location
b. encompass more than 180 days for completion of closure plan activities after receipt of final volume of dangerous wastes or after approval of the closure plan? (40 CFR 265.113(b))	___	X	36
E. Does the schedule identify any management units to be closed before final closure (e.g., partial closure)?	___	X	

Comments: _____

_____

_____

_____

6. GENERAL CLOSURE COST ESTIMATE	Yes	No
A. Is there a written closure cost estimate?	N/A	
B. What is the amount of the closure cost estimate?	$ N/A	
C. Is there documentation supporting the cost estimate?	N/A	
a. work-ups?	N/A	
b. contractor bids?	N/A	
c. operating history?	N/A	
d. other _____	N/A	

Note: The closure cost estimate cannot incorporate any salvage value that may be realized by the sale of dangerous waste, facility structures or equipment, land, or any other facility assets. (40 CFR 265.142(a)(3))

D. Has the cost estimate been adjusted by the 9% inflation factor or by recalculating the cost estimate in current dollars:		
i. within 30 days after the end of the latest fiscal year for O/O using financial tests?	N/A	
ii. or within 60 days prior to the anniversary date of establishment of all other financial instruments? (40 CFR 265.142(b))	N/A	

E. Does the cost estimate cover all the activities in the closure plan including costs of labor? ___N/A___

F. Does the closure cost estimate cover all required closure activities? (40 CFR 265.142(a)) ___N/A___

G. Are the costs based on hiring a third party to close the facility? ___N/A___

If "NO" specify in comments below:

Comments: _____

_____

_____

_____

6.3 UNIT SPECIFIC REQUIREMENTS

This section addresses requirements which are specific to individual TSD units. In an effort to simplify the checklist, the requirements in this section have been organized into unit specific modules. This enables the inspector to select only those requirements which are specific to the particular facility under investigation.

Please note that with respect to surface impoundments, waste piles and land treatment units, if if O/O either cannot or elects not to remove all waste residues, contaminated soils, structures, and equipment, he must close the facility and perform post-closure care in accordance with the closure and post-closure requirements that apply to landfills.

1. CONTAINERS	Yes	No	Page # Location
A. Does the closure plan describe the following:			
a. the procedure for removing dangerous waste containers from the facility;	N/A		
b. inspection of waste containers for leaks;	N/A		
c. the procedure for transferring dangerous wastes from leaking containers to non-leaking containers;	N/A		
B. Have provisions been made for the decontamination of equipment and structures?	X		16,17,31, 32,33
C. Does the plan describe the testing program needed to judge the success of the decontamination efforts?	X		31,32,33
D. Does the testing program include:			
a. sampling methods	X		17-31 ,App F
b. testing parameters	X		App G
c. analytical procedures	X		App G

Comments: _____

2. TANKS (40 CFR 265.197) — Yes / No

A. Does the closure plan describe procedures for removing dangerous wastes from the tank, discharge control equipment and discharge containment structures? ___N/A___

B. Does the plan describe procedures for decontaminating the tank, associated piping, discharge control equipment, and discharge confinement structures (including underlying containment systems)? ___N/A___

C. Have criteria been established to determine the effectiveness of the decontamination process? ___N/A___

D. Have test procedures been included to determine the effectivenss of the decontamination procedures? ___N/A___

E. Does the testing procedure include:

a. sampling methods ___N/A___
b. testing parameters ___N/A___
c. analytical procedures ___N/A___

Comments: _____

_____

_____

_____

3. SURFACE IMPOUNDMENTS (40 CFR 265.228)

	Yes	No
A. Upon closure, does the O/O plan to remove from the impoundment:		
a. standing liquids	N/A	
b. waste and waste residue	N/A	
c. underlying and surrounding contaminated soil	N/A	
d. the liner (if any)	N/A	
B. Does the closure plan provide a detailed plan for the removal of:		
a. all hazardous wastes	N/A	
b. the containment system (if applicable)	N/A	
c. contaminated soil	N/A	
C. Does the closure plan describe a testing program to determine if the site is clean?	N/A	
D. Does the closure plan provide an estimate of each quantity of material to be removed from the site?	N/A	

Comments: _____

_____

_____

_____

4. WASTE PILES (40 CFR 265.258(a)) — Yes / No

A. Does the closure plan provide a detailed plan for the removal of:

a. all dangerous wastes and residues — N/A
b. the contaminated containment system (if applicable) — N/A
c. contaminated soil — N/A
d. structures and equipment with waste and leachate — N/A

B. Does the closure plan describe the procedures to be used to decontaminate equipment and structures? — N/A

C. Have criteria been established to judge the effectiveness of the decontamination procedures? — N/A

D. Does the closure plan describe a testing program to determine if the site is clean? — N/A

Comments: _____

5. LAND TREATMENT (40 CFR 265.280) — Yes / No

A. Does the closure plan address the following objectives and explain how they will be achieved?

a. control of migration of hazardous wastes and constituents into groundwater. — N/A
b. control of the release of contaminated run-off into surface water. — N/A
c. control of the release of airborne particulate contaminants caused by wind erosion. — N/A
d. protection of food chain crops. — N/A

B. Does the closure plan include at least a narrative statement indicating that the following factors were considered in addressing the closure objectives?

a. type and amount of waste. — N/A
b. mobility and rate of migration — N/A
c. site location, topography, and surrounding land use. — N/A
d. climate, including precipitation. — N/A
e. characteristics of the cover, including material, final surface contour, thickness, porosity, permeability, slope, vegetation. — N/A
f. geological and soil profiles and surface and subsurface hydrology. — N/A
g. unsaturated zone monitoring. — N/A
h. type, concentration, and depth of hazardous constituent migration as compared to background concentrations. — N/A

Comments: _____

6. LAND DISPOSAL (40 CFR 265.310) — Yes / No

A. Does the closure plan address the following objectives and explain how they will be achieved with respect to cover design and construction?

a. provide long-term minimization of migration of liquids through the closed landfill; — N/A
b. function with minimum maintenance; — N/A
c. promote drainage and minimize erosion or abrasion of the cover; — N/A
d. accommodate settling and subsidence so that the cover's integrity is maintained; and — N/A
e. have a permeability less than or equal to the permeability of any bottom liner system or natural subsoils present. — N/A

B. Does the closure plan include at least a narrative statement indicating that the following factors were considered in addressing the closure objectives? — N/A

a. type and amount of waste — N/A
b. mobility and rate of migration — N/A
c. site location, topography, and surrounding land — N/A
d. climate, including amount, frequency and pH of precipitation — N/A
e. characteristics of the cover, including material type, final surface contour, thickness, porosity, permeability, slope, and type of vegetation — N/A
f. geologic characteristics, soil profiles, and surface and sub-surface hydrology — N/A
g. unsaturated zone monitoring — N/A
h. type, concentration, and depth of hazardous constituent migration as compared to background concentrations — N/A

Comments: _____

7. INCINERATORS (40 CFR 265.351)

	Yes	No
A. Does the closure plan address the removal of:		
a. all wastes	N/A	
b. ash	N/A	
c. scrubber waters	N/A	
d. scrubber sludges	N/A	
B. Are procedures for decontaminating the incinerator, ash collection equipment, and emission control equipment, described or referenced in the closure plan?	N/A	
C. Does the closure plan address the disposal of all contaminated equipment, residues, solvents, and contaminated cleaning agents?	N/A	
D. Has the plan included criteria to be used to judge the success of the decontamination efforts?	N/A	
E. Does the closure plan describe a testing program to determine if the standards of decontamination has been met?	N/A	

Comments: _____

_____

_____

_____

8. THERMAL TREATMENT (40 CFR 265.381)

	Yes	No
A. Does the closure plan address the disposal of all wastes and residues?	N/A	
B. Does the closure plan describe the procedure for decontamination of the thermal treatment equipment and surrounding structures?	N/A	
C. Does the closure plan describe a testing program to determine if the standard of decontamination has been met?	N/A	

Comments: _____

_____

_____

_____

9. CHEMICAL, PHYSICAL AND BIOLOGICAL TREATMENT (40 CFR 265.404)

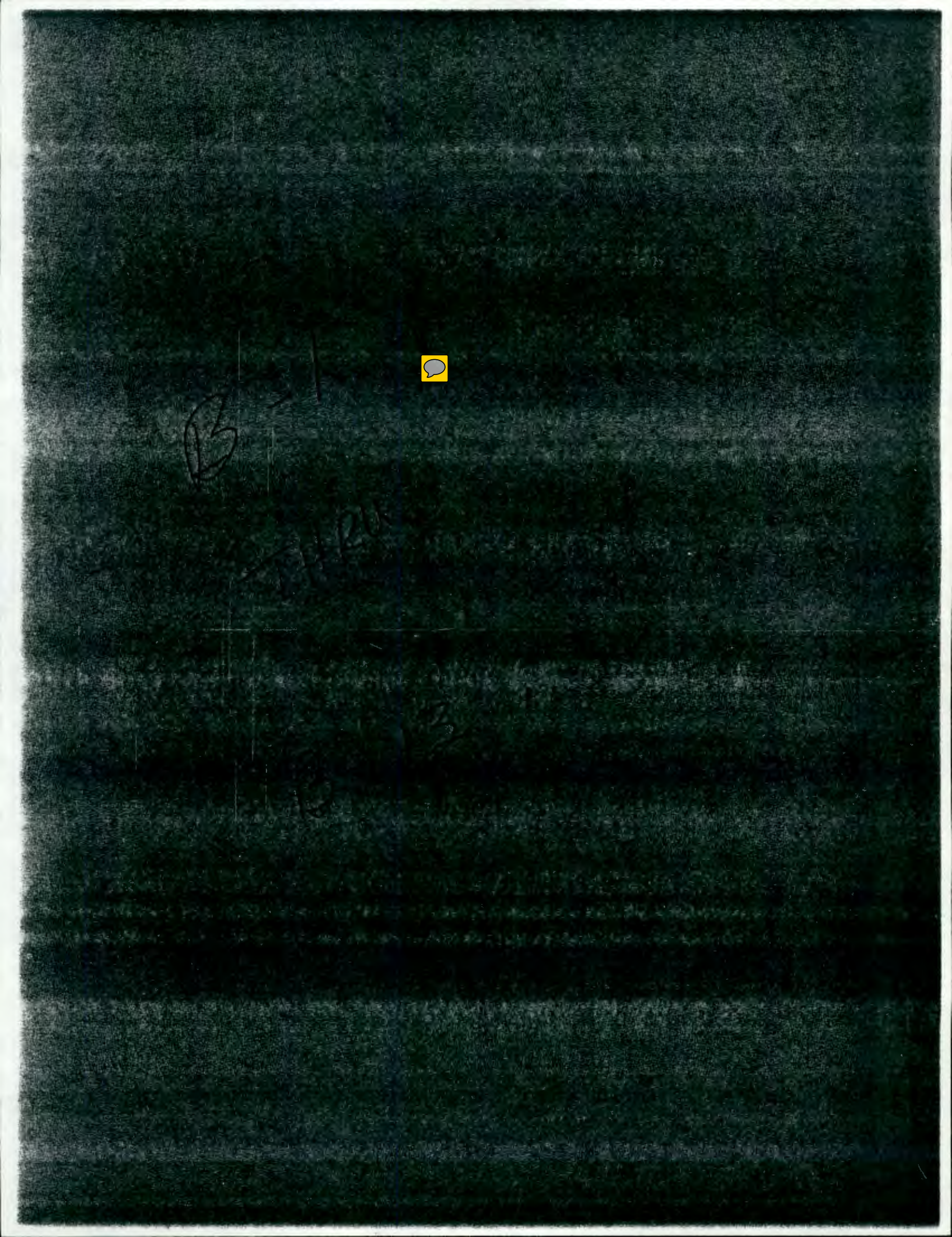
	Yes	No
A. Does the closure plan address the disposal of all wastes and residues?	N/A	
B. Does the closure plan describe the procedures for decontamination of the thermal treatment equipment and surrounding structures?	N/A	
C. Does the closure plan describe a testing program to determine if the standard of decontamination has been met?	N/A	

Comments: _____

_____

_____

_____



APPENDIX C

SPILL REPORTS

WEEKLY INSPECTION LOG
NONRADIOACTIVE DANGEROUS WASTE STORAGE FACILITY
2727-S BUILDING/200 WEST AREA

DATE: 6-27-86

TIME: 10 ⁰⁰ am

	STATUS		
	NO PROBLEMS NOTED	REQUIRED REMEDIAL ACTIONS/DATE	SEE COMMENTS
1. AREAS SUBJECT TO SPILLS			
A. LOADING/UNLOADING AREAS	✓		
2. STRUCTURES			
A. CEMENT PAD	✓		
B. CURBING	✓		
C. ROOF/WALLS	✓		
D. SIGNS	✓		
3. CONTAINER CONDITION			
A. CLOSED	✓		
B. STRUCTURAL DEFECTS	✓		
C. CORROSION	✓		
D. LABELS REQUIRED	✓		
E. EVIDENCE OF LEAKAGE	✓		
4. SAFETY/EMERGENCY EQUIPMENT			
A. ABSORBENTS	✓		
B. OVERPACK DRUMS	✓		
C. EYEWASH	✓		
D. FIRE EXTINGUISHER	✓		
E. TWO-WAY RADIOS	✓		
F. PROTECTIVE CLOTHING	✓		
G. GLOVES	✓		
H. RESPIRATORS/CARTRIDGES	✓		
I. ESCAPE PACK	NA		

5. COMMENTS

6. INSPECTOR SIGNATURE

MB WALMSLEY
PRINT NAME

MB Walmsley
SIGN NAME

2K8508-3.1

WEEKLY INSPECTION LOG
NONRADIOACTIVE DANGEROUS WASTE STORAGE FACILITY
2727-S BUILDING/200 WEST AREA

DATE: 7-2-86

TIME: 2 20 pm

	STATUS		
	NO PROBLEMS NOTED	REQUIRED REMEDIAL ACTIONS/DATE	SEE COMMENTS
1. AREAS SUBJECT TO SPILLS			
A. LOADING/UNLOADING AREAS	☑	☐	☐
2. STRUCTURES			
A. CEMENT PAD	☑	☐	☐
B. CURBING	☑	☐	☐
C. ROOF/WALLS	☑	☐	☐
D. SIGNS	☑	☐	☐
3. CONTAINER CONDITION			
A. CLOSED	☒	☐	☐
B. STRUCTURAL DEFECTS	☒	☐	☐
C. CORROSION	☒	☐	☐
D. LABELS REQUIRED	☒	☐	☐
E. EVIDENCE OF LEAKAGE	☒	☐	☐
4. SAFETY/EMERGENCY EQUIPMENT			
A. ABSORBENTS	☑	☐	☐
B. OVERPACK DRUMS	☑	☐	☐
C. EYEWASH	☑	☐	☐
D. FIRE EXTINGUISHER	☑	☐	☐
E. TWO-WAY RADIOS	☑	☐	☐
F. PROTECTIVE CLOTHING	☑	☐	☐
G. GLOVES	☑	☐	☐
H. RESPIRATORS/CARTRIDGES	OK	☐	☐
I. ESCAPE PACK	☑ NA	☐	☐

5. COMMENTS

6. INSPECTOR SIGNATURE

MB WALMSLEY
PRINT NAME

MB Walmsley SWP & DU
SIGN NAME

2K8508-3.1

WEEKLY INSPECTION LOG
NONRADIOACTIVE DANGEROUS WASTE STORAGE FACILITY
2727-S BUILDING/200 WEST AREA

DATE: 7-11-86

TIME: 9^15 am

	STATUS		
	NO PROBLEMS NOTED	REQUIRED REMEDIAL ACTIONS/DATE	SEE COMMENTS
1. AREAS SUBJECT TO SPILLS			
A. LOADING/UNLOADING AREAS	✓		
2. STRUCTURES			
A. CEMENT PAD	✓		
B. CURBING	✓		
C. ROOF/WALLS	✓		
D. SIGNS	✓		
3. CONTAINER CONDITION			
A. CLOSED	✓		
B. STRUCTURAL DEFECTS	✓		
C. CORROSION	✓		
D. LABELS REQUIRED	✓		
E. EVIDENCE OF LEAKAGE	✓		
4. SAFETY/EMERGENCY EQUIPMENT			
A. ABSORBENTS	✓		
B. OVERPACK DRUMS	✓		
C. EYEWASH	✓		
D. FIRE EXTINGUISHER	✓		
E. TWO-WAY RADIOS	✓		
F. PROTECTIVE CLOTHING	✓		
G. GLOVES	✓		
H. RESPIRATORS/CARTRIDGES	✓		
I. ESCAPE PACK	NA		

5. COMMENTS

6. INSPECTOR SIGNATURE

M.B. WALMSLEY
PRINT NAME

MB Walmsley Supt DU
SIGN NAME

2K8508-3.1

WEEKLY INSPECTION LOG
NONRADIOACTIVE DANGEROUS WASTE STORAGE FACILITY
2727-S BUILDING/200 WEST AREA

DATE: 7-17-86

TIME: 2³⁰ pm

	STATUS		
	NO PROBLEMS NOTED	REQUIRED REMEDIAL ACTIONS/DATE	SEE COMMENTS
1. AREAS SUBJECT TO SPILLS			
A. LOADING/UNLOADING AREAS	✓		
2. STRUCTURES			
A. CEMENT PAD	✓		
B. CURBING	✓		
C. ROOF/WALLS	✓		
D. SIGNS	✓		
3. CONTAINER CONDITION			
A. CLOSED	✓		
B. STRUCTURAL DEFECTS	✓		
C. CORROSION	✓		
D. LABELS REQUIRED	✓		
E. EVIDENCE OF LEAKAGE	✓		
4. SAFETY/EMERGENCY EQUIPMENT			
A. ABSORBENTS	✓		
B. OVERPACK DRUMS	✓		
C. EYEWASH	✓		
D. FIRE EXTINGUISHER	✓		
E. TWO-WAY RADIOS	✓		
F. PROTECTIVE CLOTHING	✓		
G. GLOVES	✓		
H. RESPIRATORS/CARTRIDGES	✓		
I. ESCAPE PACK	NA		

5. COMMENTS

6. INSPECTOR SIGNATURE

M. B. WALMSLEY
PRINT NAME

M B Walmsley, SWP+DU
SIGN NAME

2K8508-3.1

WEEKLY INSPECTION LOG
NONRADIOACTIVE DANGEROUS WASTE STORAGE FACILITY
2727-S BUILDING/200 WEST AREA

DATE: [illegible]

TIME: 11 [illegible] am

	STATUS		
	NO PROBLEMS NOTED	REQUIRED REMEDIAL ACTIONS/DATE	SEE COMMENTS
1. AREAS SUBJECT TO SPILLS			
A. LOADING/UNLOADING AREAS	✓		
2. STRUCTURES			
A. CEMENT PAD	✓		
B. CURBING	✓		
C. ROOF/WALLS	✓		
D. SIGNS	✓		
3. CONTAINER CONDITION			
A. CLOSED	✓		
B. STRUCTURAL DEFECTS	✓		
C. CORROSION	✓		
D. LABELS REQUIRED	✓		
E. EVIDENCE OF LEAKAGE	✓		
4. SAFETY/EMERGENCY EQUIPMENT			
A. ABSORBENTS	✓		
B. OVERPACK DRUMS	✓		
C. EYEWASH	✓		
D. FIRE EXTINGUISHER	✓		
E. TWO-WAY RADIOS	✓		
F. PROTECTIVE CLOTHING	✓		
G. GLOVES	✓		
H. RESPIRATORS/CARTRIDGES	✓		
I. ESCAPE PACK	✓		

5. COMMENTS

Inside of 2727-S building has been cleaned out completely since June 1985.

6. INSPECTOR SIGNATURE

M B Ramsey

PRINT NAME

[illegible] Supt DOE

SIGN NAME

2K8508-3.1

WEEKLY INSPECTION LOG
NONRADIOACTIVE DANGEROUS WASTE STORAGE FACILITY
2727-S BUILDING/200 WEST AREA

DATE: July 29, 1986

TIME: 2:00 pm

	STATUS		
	NO PROBLEMS NOTED	REQUIRED REMEDIAL ACTIONS/DATE	SEE COMMENTS
1. AREAS SUBJECT TO SPILLS			
A. LOADING/UNLOADING AREAS	X		
2. STRUCTURES			
A. CEMENT PAD	X		
B. CURBING	X		
C. ROOF/WALLS	X		
D. SIGNS	X		
3. CONTAINER CONDITION			
A. CLOSED	X		
B. STRUCTURAL DEFECTS	X		
C. CORROSION	X		
D. LABELS REQUIRED	X		
E. EVIDENCE OF LEAKAGE	X		
4. SAFETY/EMERGENCY EQUIPMENT			
A. ABSORBENTS	X		
B. OVERPACK DRUMS	X		
C. EYEWASH	X		
D. FIRE EXTINGUISHER	X		
E. TWO-WAY RADIOS	X		
F. PROTECTIVE CLOTHING	X		
G. GLOVES	X		
H. RESPIRATORS/CARTRIDGES	X		
I. ESCAPE PACK	NA		

5. COMMENTS

Building will be completely empty soon.

6. INSPECTOR SIGNATURE

D. L. Lund
PRINT NAME

D. L. Lund
SIGN NAME

2K8508-3.1

WEEKLY INSPECTION LOG
NONRADIOACTIVE DANGEROUS WASTE STORAGE FACILITY
2727-S BUILDING/200 WEST AREA

DATE: August 4, 1986

TIME: 3:00 pm

	STATUS		
	NO PROBLEMS NOTED	REQUIRED REMEDIAL ACTIONS/DATE	SEE COMMENTS
1. AREAS SUBJECT TO SPILLS			
A. LOADING/UNLOADING AREAS	X		
2. STRUCTURES			
A. CEMENT PAD	X		
B. CURBING	X		
C. ROOF/WALLS	X		
D. SIGNS	X		
3. CONTAINER CONDITION			
A. CLOSED	X		
B. STRUCTURAL DEFECTS	X		
C. CORROSION		X 3-4-86 →	X
D. LABELS REQUIRED	X		
E. EVIDENCE OF LEAKAGE	X		
4. SAFETY/EMERGENCY EQUIPMENT			
A. ABSORBENTS			
B. OVERPACK DRUMS			
C. EYEWASH			
D. FIRE EXTINGUISHER			
E. TWO-WAY RADIOS			
F. PROTECTIVE CLOTHING			
G. GLOVES			
H. RESPIRATORS/CARTRIDGES			
I. ESCAPE PACK			

5. COMMENTS

A Lidpacked drum of corrosives had corrosion on the bottom of the drum. We believe (M.R. Romsos) that one bottle of acid is broken and the drum will be opened and the contents dealt with accordingly.

6. INSPECTOR SIGNATURE

D. L. Lund
PRINT NAME

D. L. Lund
SIGN NAME

2K8508-3.1

WEEKLY INSPECTION LOG
NONRADIOACTIVE DANGEROUS WASTE STORAGE FACILITY
2727-S BUILDING/200 WEST AREA

DATE: August 15, 1986

TIME: 11:00 am

	STATUS		
	NO PROBLEMS NOTED	REQUIRED REMEDIAL ACTIONS/DATE	SEE COMMENTS
1. AREAS SUBJECT TO SPILLS			
A. LOADING/UNLOADING AREAS	X		
2. STRUCTURES			
A. CEMENT PAD	X		
B. CURBING	X		
C. ROOF/WALLS	X		
D. SIGNS	X		
3. CONTAINER CONDITION			
A. CLOSED	X		
B. STRUCTURAL DEFECTS	X		
C. CORROSION	X		
D. LABELS REQUIRED	X		
E. EVIDENCE OF LEAKAGE	X		
4. SAFETY/EMERGENCY EQUIPMENT			
A. ABSORBENTS	X		
B. OVERPACK DRUMS	X		
C. EYEWASH	X		
D. FIRE EXTINGUISHER	X		
E. TWO-WAY RADIOS	X		
F. PROTECTIVE CLOTHING	X		
G. GLOVES	X		
H. RESPIRATORS/CARTRIDGES	X		
I. ESCAPE PACK	NA		

5. COMMENTS

Building is close to being empty of waste

6. INSPECTOR SIGNATURE

D. L. Lund
PRINT NAME

D. L. Lund
SIGN NAME

2K8508-3.1

WEEKLY INSPECTION LOG
NONRADIOACTIVE DANGEROUS WASTE STORAGE FACILITY
2727-S BUILDING/200 WEST AREA

DATE: August 20, 86

TIME: 1:35 pm

	STATUS		
	NO PROBLEMS NOTED	REQUIRED REMEDIAL ACTIONS/DATE	SEE COMMENTS
1. AREAS SUBJECT TO SPILLS			
A. LOADING/UNLOADING AREAS	☑	☐	☐
2. STRUCTURES			
A. CEMENT PAD	☑	☐	☐
B. CURBING	☑	☐	☐
C. ROOF/WALLS	☑	☐	☐
D. SIGNS	☑	☐	☐
3. CONTAINER CONDITION			
A. CLOSED	☑	☐	☐
B. STRUCTURAL DEFECTS	☑	☐	☐
C. CORROSION	☑	☐	☐
D. LABELS REQUIRED	☑	☐	☐
E. EVIDENCE OF LEAKAGE	☑	☐	☐
4. SAFETY/EMERGENCY EQUIPMENT			
A. ABSORBENTS	☑	☐	☐
B. OVERPACK DRUMS	☑	☐	☐
C. EYEWASH	☑	☐	☐
D. FIRE EXTINGUISHER	☑	☐	☐
E. TWO-WAY RADIOS	☑	☐	☐
F. PROTECTIVE CLOTHING	☑	☐	☐
G. GLOVES	☑	☐	☐
H. RESPIRATORS/CARTRIDGES	☑	☐	☐
I. ESCAPE PACK	N/A	☐	☐

5. COMMENTS

- Under supervision of Industrial, Hygiene + Safety personnel, the building is being readied for closure. Drums were being shipped offsite today, and overpacks were used to handle non-specification waste items.

6. INSPECTOR SIGNATURE

MB WALMSLEY
PRINT NAME

MB Walmsley 8-20-86
SIGN NAME SWPPPU

2K8508-3.1

WEEKLY INSPECTION LOG
NONRADIOACTIVE DANGEROUS WASTE STORAGE FACILITY
2727-S BUILDING/200 WEST AREA

DATE: Sept. 5, 1986

TIME: 11:00 Am

	STATUS		
	NO PROBLEMS NOTED	REQUIRED REMEDIAL ACTIONS/DATE	SEE COMMENTS
1. AREAS SUBJECT TO SPILLS			
A. LOADING/UNLOADING AREAS	✓	☐	☐
2. STRUCTURES			
A. CEMENT PAD	✓	☐	☐
B. CURBING	✓	☐	☐
C. ROOF/WALLS	✓	☐	☐
D. SIGNS	✓	☐	☐
3. CONTAINER CONDITION			
A. CLOSED	✓	☐	☐
B. STRUCTURAL DEFECTS	✓	☐	☐
C. CORROSION	✓	☐	☐
D. LABELS REQUIRED	✓	☐	☐
E. EVIDENCE OF LEAKAGE	✓	☐	☐
4. SAFETY/EMERGENCY EQUIPMENT			
A. ABSORBENTS	✓	☐	☐
B. OVERPACK DRUMS	✓	☐	☐
C. EYEWASH	✓	☐	☐
D. FIRE EXTINGUISHER	✓	☐	☐
E. TWO-WAY RADIOS	✓	☐	☐
F. PROTECTIVE CLOTHING	✓	☐	☐
G. GLOVES	✓	☐	☐
H. RESPIRATORS/CARTRIDGES	✓	☐	☐
I. ESCAPE PACK	NA	☐	☐

5. COMMENTS

Everything was in order, building is being emptied with the opening of 616-S.

6. INSPECTOR SIGNATURE

D. L. Lund
PRINT NAME

D. L. Lund
SIGN NAME

2K8508-3.1

WEEKLY INSPECTION LOG
NONRADIOACTIVE DANGEROUS WASTE STORAGE FACILITY
2727-S BUILDING/200 WEST AREA

DATE: Oct. 10, 86

TIME: 1:30 pm

	STATUS		
	NO PROBLEMS NOTED	REQUIRED REMEDIAL ACTIONS/DATE	SEE COMMENTS
1. AREAS SUBJECT TO SPILLS			
A. LOADING/UNLOADING AREAS	☑	☐	☐
2. STRUCTURES			
A. CEMENT PAD	☑	☐	☐
B. CURBING	☑	☐	☐
C. ROOF/WALLS	☑	☐	☐
D. SIGNS	☑	☐	☐
3. CONTAINER CONDITION			
A. CLOSED	☑	☐	☐
B. STRUCTURAL DEFECTS	☑	☐	☐
C. CORROSION	☑	☐	☐
D. LABELS REQUIRED	☑	☐	☐
E. EVIDENCE OF LEAKAGE	☑	☐	☐
4. SAFETY/EMERGENCY EQUIPMENT			
A. ABSORBENTS	☑	☐	☐
B. OVERPACK DRUMS	☑	☐	☐
C. EYEWASH	☑	☐	☐
D. FIRE EXTINGUISHER	☑	☐	☐
E. TWO-WAY RADIOS	☑	☐	☐
F. PROTECTIVE CLOTHING	☑	☐	☐
G. GLOVES	☑	☐	☐
H. RESPIRATORS/CARTRIDGES	☑	☐	☐
I. ESCAPE PACK	NA	☐	☐

5. COMMENTS

The 2727-S facility is still receiving wastes (even though 616 facility is now operational). Drums, boxes are located at both outside + inside of facility.

6. INSPECTOR SIGNATURE

M. B. WALMSLEY
PRINT NAME

M B Walmsley 11-10-86 Haz. Waste Unit Proces. Engr. Dept.
SIGN NAME

2K8508-3.1

WEEKLY INSPECTION LOG
NONRADIOACTIVE DANGEROUS WASTE STORAGE FACILITY
2727-S BUILDING/200 WEST AREA

DATE: Oct. 17, 86

TIME: 11:2 AM

	STATUS		
	NO PROBLEMS NOTED	REQUIRED REMEDIAL ACTIONS/DATE	SEE COMMENTS
1. AREAS SUBJECT TO SPILLS			
A. LOADING/UNLOADING AREAS	✓		
2. STRUCTURES			
A. CEMENT PAD			✓
B. CURBING	✓		
C. ROOF/WALLS	✓		
D. SIGNS	✓		
3. CONTAINER CONDITION			
A. CLOSED	✓		
B. STRUCTURAL DEFECTS	✓		
C. CORROSION	✓		
D. LABELS REQUIRED	✓		
E. EVIDENCE OF LEAKAGE	✓		
4. SAFETY/EMERGENCY EQUIPMENT			
A. ABSORBENTS	✓		
B. OVERPACK DRUMS	✓		
C. EYEWASH	✓		
D. FIRE EXTINGUISHER	✓		
E. TWO-WAY RADIOS	✓		
F. PROTECTIVE CLOTHING	✓		
G. GLOVES	✓		
H. RESPIRATORS/CARTRIDGES	✓		
I. ESCAPE PACK	NA		

5. COMMENTS

#2.A The cement pad outside the facility has been structurally damaged*. No waste was being stored in this area however.

*(2-3 areas were sunken in, approx 1-2' wide).

General info: Drums/boxes still located in facility, + drums outside storage facility

6. INSPECTOR SIGNATURE

M B Wakeley
PRINT NAME

M B Wakeley Oct. 17, 86
SIGN NAME Haz. Waste Unit

2K8508-3.1

WEEKLY INSPECTION LOG
NONRADIOACTIVE DANGEROUS WASTE STORAGE FACILITY
2727-S BUILDING/200 WEST AREA

DATE: 10-22-86 Wed.

TIME: 1 pm

	STATUS		
	NO PROBLEMS NOTED	REQUIRED REMEDIAL ACTIONS/DATE	SEE COMMENTS
1. AREAS SUBJECT TO SPILLS			
A. LOADING/UNLOADING AREAS	✓	☐	☐
2. STRUCTURES			
A. CEMENT PAD	☐	☐	✓
B. CURBING	✓	☐	☐
C. ROOF/WALLS	✓	☐	☐
D. SIGNS	✓	☐	☐
3. CONTAINER CONDITION			
A. CLOSED	✓	☐	☐
B. STRUCTURAL DEFECTS	✓	☐	☐
C. CORROSION	✓	☐	☐
D. LABELS REQUIRED	✓	☐	☐
E. EVIDENCE OF LEAKAGE	✓	☐	☐
4. SAFETY/EMERGENCY EQUIPMENT			
A. ABSORBENTS	✓	☐	☐
B. OVERPACK DRUMS	✓	☐	☐
C. EYEWASH	✓	☐	☐
D. FIRE EXTINGUISHER	✓	☐	☐
E. TWO-WAY RADIOS	✓	☐	☐
F. PROTECTIVE CLOTHING	✓	☐	☐
G. GLOVES	✓	☐	☐
H. RESPIRATORS/CARTRIDGES	✓	☐	☐
I. ESCAPE PACK	NA	☐	☐

5. COMMENTS

(2+) Comment from 10-17-86: on damaged, outside areas; there is only one area on cement pad which is open. (Sinkhole) Nonhazardous waste continues to be stored inside / + outside 2727-S

10-30-86 MBW: other areas were damaged not sure! No upgrades made.

6. INSPECTOR SIGNATURE

MB Walmsley
PRINT NAME

MB Walmsley, 10-22-86
SIGN NAME

HAZ. Waste Unit
Waste Mgt. Process Engr. Group.

2K8508-3.1

WEEKLY INSPECTION LOG
NONRADIOACTIVE DANGEROUS WASTE STORAGE FACILITY
2727-S BUILDING/200 WEST AREA

DATE: 11-30-86

TIME: 1:15 pm

	STATUS		
	NO PROBLEMS NOTED	REQUIRED REMEDIAL ACTIONS/DATE	SEE COMMENTS
1. AREAS SUBJECT TO SPILLS			
A. LOADING/UNLOADING AREAS	✓		✓
2. STRUCTURES			
A. CEMENT PAD			✓
B. CURBING	✓		
C. ROOF/WALLS	✓		
D. SIGNS	✓		
3. CONTAINER CONDITION			
A. CLOSED	✓		
B. STRUCTURAL DEFECTS	✓		
C. CORROSION	✓		✓
D. LABELS REQUIRED	✓		
E. EVIDENCE OF LEAKAGE	✓		
4. SAFETY/EMERGENCY EQUIPMENT			
A. ABSORBENTS	✓		
B. OVERPACK DRUMS	✓		
C. EYEWASH	✓		
D. FIRE EXTINGUISHER	✓		
E. TWO-WAY RADIOS	✓		
F. PROTECTIVE CLOTHING	✓		
G. GLOVES	✓		
H. RESPIRATORS/CARTRIDGES	✓		
I. ESCAPE PACK	NA		

5. COMMENTS

(1.) Inside + outside facility there ~~not~~ were puddles of water due to recent Rain storm.

(2.) Outside cement pad; there ~~are~~ is one area still damaged, (sunken in).

6. INSPECTOR SIGNATURE

NB Wakeley
PRINT NAME

NB Wakeley 10-30-86
SIGN NAME HAZ. WASTE UNIT

2K8508-3.1

WEEKLY INSPECTION LOG
NONRADIOACTIVE DANGEROUS WASTE STORAGE FACILITY
2727-S BUILDING/200 WEST AREA

DATE: November ~~13~~ 6 now, 86

TIME: 9 ~~00~~ am

	STATUS		
	NO PROBLEMS NOTED	REQUIRED REMEDIAL ACTIONS/DATE	SEE COMMENTS
1. AREAS SUBJECT TO SPILLS			
A. LOADING/UNLOADING AREAS	✓		
2. STRUCTURES			
A. CEMENT PAD	✓		✓
B. CURBING	✓		
C. ROOF/WALLS	✓		
D. SIGNS	✓		
3. CONTAINER CONDITION			
A. CLOSED	✓		
B. STRUCTURAL DEFECTS	✓		
C. CORROSION	✓		
D. LABELS REQUIRED	✓		
E. EVIDENCE OF LEAKAGE	✓		
4. SAFETY/EMERGENCY EQUIPMENT			
A. ABSORBENTS	✓		
B. OVERPACK DRUMS	✓		
C. EYEWASH	✓		
D. FIRE EXTINGUISHER	✓		
E. TWO-WAY RADIOS	✓		
F. PROTECTIVE CLOTHING	✓		
G. GLOVES	✓		
H. RESPIRATORS/CARTRIDGES	✓		
I. ESCAPE PACK	NA		

5. COMMENTS

- #2(A) OUTSIDE CEMENT PAD STILL DAMAGED (AS NOTED IN 10/30 and 10/22).
- GENERAL : OFFSITE SHIPMENT PLANNED FOR 11/7/86, FOR DRUMS stored OUTSIDE FACILITY. (SEVERAL ITEMS INSIDE FACILITY MAY ALSO BE SHIPPED IF SPACE ALLOWS, ON offsite shipment TRUCK).

6. INSPECTOR SIGNATURE

M.B. WALMSLEY
PRINT NAME

MB Walmsley - Hazardous Waste Unit 11-~~10~~ 6 now-86
SIGN NAME

2K8508-3.1

NO INSPECTION MADE.

WEEKLY INSPECTION LOG
NONRADIOACTIVE DANGEROUS WASTE STORAGE FACILITY
2727-S BUILDING/200 WEST AREA

DATE: Nov. 21, 1986

TIME: 1:30 pm

	STATUS		
	NO PROBLEMS NOTED	REQUIRED REMEDIAL ACTIONS/DATE	SEE COMMENTS
1. AREAS SUBJECT TO SPILLS			
A. LOADING/UNLOADING AREAS	X		
2. STRUCTURES			
A. CEMENT PAD	X		
B. CURBING	X		
C. ROOF/WALLS	X		
D. SIGNS	X		
3. CONTAINER CONDITION			
A. CLOSED	X		
B. STRUCTURAL DEFECTS	X		
C. CORROSION	X		
D. LABELS REQUIRED	X		
E. EVIDENCE OF LEAKAGE	X		
4. SAFETY/EMERGENCY EQUIPMENT			
A. ABSORBENTS	X		
B. OVERPACK DRUMS	X		
C. EYEWASH	X		
D. FIRE EXTINGUISHER	X		
E. TWO-WAY RADIOS	X		
F. PROTECTIVE CLOTHING	X		
G. GLOVES	X		
H. RESPIRATORS/CARTRIDGES	X		
I. ESCAPE PACK	NA		

5. COMMENTS

More waste being shipped week of Dec. 1st.

6. INSPECTOR SIGNATURE

D. L. Lund
PRINT NAME

D. L. Lund
SIGN NAME

2K8508-3.1

ER 11/24-2.

WEEKLY INSPECTION LOG
NONRADIOACTIVE DANGEROUS WASTE STORAGE FACILITY
2727-S BUILDING/200 WEST AREA

DATE: Sept. 24, 1986

TIME: 2:00 pm

	STATUS		
	NO PROBLEMS NOTED	REQUIRED REMEDIAL ACTIONS/DATE	SEE COMMENTS
1. AREAS SUBJECT TO SPILLS			
A. LOADING/UNLOADING AREAS	X		
2. STRUCTURES			
A. CEMENT PAD	X		
B. CURBING	X		
C. ROOF/WALLS	X		
D. SIGNS	X		
3. CONTAINER CONDITION			
A. CLOSED	X		
B. STRUCTURAL DEFECTS	X		
C. CORROSION	X		
D. LABELS REQUIRED	X		
E. EVIDENCE OF LEAKAGE	X		
4. SAFETY/EMERGENCY EQUIPMENT			
A. ABSORBENTS	X		
B. OVERPACK DRUMS	X		
C. EYEWASH	X		
D. FIRE EXTINGUISHER	X		
E. TWO-WAY RADIOS	X		
F. PROTECTIVE CLOTHING	X		
G. GLOVES	X		
H. RESPIRATORS/CARTRIDGES	X		
I. ESCAPE PACK	NA		

5. COMMENTS

No leakage - building is being emptied of waste.

6. INSPECTOR SIGNATURE

D. L. Lund
PRINT NAME

D. L. Lund
SIGN NAME

2K8508-3.1

WEEKLY INSPECTION LOG
NONRADIOACTIVE DANGEROUS WASTE STORAGE FACILITY
2727-S BUILDING/200 WEST AREA

DATE: Dec. 3, 1996

TIME: 7:15 am

	STATUS		
	NO PROBLEMS NOTED	REQUIRED REMEDIAL ACTIONS/DATE	SEE COMMENTS
1. AREAS SUBJECT TO SPILLS			
A. LOADING/UNLOADING AREAS	✓		
2. STRUCTURES			
A. CEMENT PAD	✓		
B. CURBING	✓		
C. ROOF/WALLS	✓		
D. SIGNS	✓		
3. CONTAINER CONDITION			
A. CLOSED	✓		
B. STRUCTURAL DEFECTS	✓		
C. CORROSION	✓		
D. LABELS REQUIRED	✓		
E. EVIDENCE OF LEAKAGE	✓		
4. SAFETY/EMERGENCY EQUIPMENT			
A. ABSORBENTS	✓		
B. OVERPACK DRUMS	✓		
C. EYEWASH			✓
D. FIRE EXTINGUISHER	✓		
E. TWO-WAY RADIOS	✓		
F. PROTECTIVE CLOTHING	✓		
G. GLOVES	✓		
H. RESPIRATORS/CARTRIDGES	✓		
I. ESCAPE PACK	✓		

5. COMMENTS

4(C) eyewash: Recharge needed.
(outside) facility (near front door) some leakage from cold weather

6. INSPECTOR SIGNATURE

MB Walmsley
PRINT NAME

MB Walmsley 12-3-96
SIGN NAME

Hazardous Waste Unit Manager

2K8508-31

WEEKLY INSPECTION LOG
NONRADIOACTIVE DANGEROUS WASTE STORAGE FACILITY
2727-S BUILDING/200 WEST AREA

DATE: 12-12-86

TIME: 1:30 pm

	STATUS		
	NO PROBLEMS NOTED	REQUIRED REMEDIAL ACTIONS/DATE	SEE COMMENTS
1. AREAS SUBJECT TO SPILLS			
A. LOADING/UNLOADING AREAS	☑	☐	☐
2. STRUCTURES			
A. CEMENT PAD	☑	☐	☐
B. CURBING	☑	☐	☐
C. ROOF/WALLS	☑	☐	☐
D. SIGNS	☑	☐	☐
3. CONTAINER CONDITION			
A. CLOSED	☑	☐	☐
B. STRUCTURAL DEFECTS	☑	☐	☐
C. CORROSION	☑	☐	☐
D. LABELS REQUIRED	☑	☐	☐
E. EVIDENCE OF LEAKAGE	☑	☐	☐
4. SAFETY/EMERGENCY EQUIPMENT			
A. ABSORBENTS	☑	☐	☐
B. OVERPACK DRUMS	☑	☐	☐
C. EYEWASH	☑	☐	☐
D. FIRE EXTINGUISHER	☑	☐	☐
E. TWO-WAY RADIOS	☑	☐	☐
F. PROTECTIVE CLOTHING	☑	☐	☐
G. GLOVES	☑	☐	☐
H. RESPIRATORS/CARTRIDGES	☑	☐	☐
I. ESCAPE PACK	☑	☐	☐

5. COMMENTS

6. INSPECTOR SIGNATURE

Paul Siebenaler
PRINT NAME

Paul Siebenaler
SIGN NAME

2K8508-3.1

No inspection week of 12/15 – 12/19 1986

WEEKLY INSPECTION LOG
NONRADIOACTIVE DANGEROUS WASTE STORAGE FACILITY
2727-S BUILDING/200 WEST AREA

DATE: 12-22-86

TIME: 10 am

	STATUS		
	NO PROBLEMS NOTED	REQUIRED REMEDIAL ACTIONS/DATE	SEE COMMENTS
1. AREAS SUBJECT TO SPILLS			
A. LOADING/UNLOADING AREAS	☑	☐	☐
2. STRUCTURES			
A. CEMENT PAD	☑	☐	☐
B. CURBING	☑	☐	☐
C. ROOF/WALLS	☑	☐	☐
D. SIGNS	☑	☐	☐
3. CONTAINER CONDITION			
A. CLOSED	☑	☐	☐
B. STRUCTURAL DEFECTS	☑	☐	☐
C. CORROSION	☑	☐	☐
D. LABELS REQUIRED	☑	☐	☐
E. EVIDENCE OF LEAKAGE	☑	☐	☐
4. SAFETY/EMERGENCY EQUIPMENT			
A. ABSORBENTS	☑	☐	☐
B. OVERPACK DRUMS	☑	☐	☐
C. EYEWASH	☑	☐	☐
D. FIRE EXTINGUISHER	☑	☐	☐
E. TWO-WAY RADIOS	☑	☐	☐
F. PROTECTIVE CLOTHING	☑	☐	☐
G. GLOVES	☑	☐	☐
H. RESPIRATORS/CARTRIDGES	☑	☐	☐
I. ESCAPE PACK	NA	☐	☐

5. COMMENTS 2727-S building contents (drums, boxes, cans, etc) are being readied for offsite shipment. Some progress is being made to prepare building for closure.

6. INSPECTOR SIGNATURE

MB WILMSLEY
PRINT NAME

MB Wilmsley 12-22-86
SIGN NAME

2K8508-3.1

APPENDIX D

PART A PERMIT APPLICATION

FORM 3

DANGEROUS WASTE PERMIT APPLICATION

I. EPA/STATE I.D. NUMBER: W A 7 8 9 0 0 0 8 9 6 7

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED (mo., day, & yr.)	COMMENTS

I. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.

A. FIRST APPLICATION *(place an "X" below and provide the appropriate date)*

☐ 1. EXISTING FACILITY *(See instructions for definition of "existing" facility. Complete item below.)*

MO. 0 3 DAY YR. 8 3 — FOR EXISTING FACILITIES, PROVIDE THE DATE *(mo., day, & yr.)* OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED *(use the boxes to the left)*

☐ 2. NEW FACILITY *(Complete item below.)*

MO. DAY YR. — FOR NEW FACILITIES, PROVIDE THE DATE *(mo., day, & yr.)* OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION *(place an "X" below and complete Section I above)*

☒ 1. FACILITY HAS AN INTERIM STATUS PERMIT

☐ 2. FACILITY HAS A FINAL PERMIT

II. PROCESSES — CODES AND DESIGN CAPACITIES

A. PROCESS CODE — Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process *(including its design capacity)* in the space provided on the *(Section III-C)*.

B. PROCESS DESIGN CAPACITY — For each code entered in column A enter the capacity of the process.
1. AMOUNT — Enter the amount.
2. UNIT OF MEASURE — For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:		
CONTAINER (barrel, drum, etc.)	S01	GALLONS OR LITERS
TANK	S02	GALLONS OR LITERS
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS
Disposal:		
INJECTION WELL	D80	GALLONS OR LITERS
LANDFILL	D81	ACRE-FEET *(the volume that would cover one acre to a depth of one foot)* OR HECTARE-METER
LAND APPLICATION	D82	*ACRES OR HECTARES*
OCEAN DISPOSAL	D83	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	D84	GALLONS OR LITERS

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Treatment:		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR
OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Section III-C.)	T04	GALLONS PER DAY OR LITERS PER DAY

UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G
LITERS	L
CUBIC YARDS	Y
CUBIC METERS	C
GALLONS PER DAY	U
LITERS PER DAY	V
TONS PER HOUR	D
METRIC TONS PER HOUR	W
GALLONS PER HOUR	E
LITERS PER HOUR	H
ACRE-FEET	A
HECTARE-METER	F
ACRES	B
HECTARES	Q

EXAMPLE FOR COMPLETING SECTION III *(shown in line numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400* gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify)	B. 2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY	LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify)	B. 2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY
X-1	S 0 2	600	G		5				
X-2	T 0 3	20	E		6				
1	S 0 1	27,000	G		7				
2					8				
3					9				
4					10				

CONTINUE ON REVERS

III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

S01

The 2727-S NRDWS is located in the southeast portion of the 200 West Area and provides container storage for nonradioactive dangerous wastes generated in the research and development laboratories, process operations, and maintenance and transportation function throughout the Hanford Site.

IV. DESCRIPTION OF DANGEROUS WASTES

A. **DANGEROUS WASTE NUMBER** — Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous wastes.

B. **ESTIMATED ANNUAL QUANTITY** — For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non—listed waste(s) that will be handled which possess that characteristic or contaminant.

C. **UNIT OF MEASURE** — For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. **PROCESSES**

1. PROCESS CODES:

For listed dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non—listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non—listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER — Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

1. Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other Dangerous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV *(shown in line numbers X-1, X-2, X-3, and X-4 below)* — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non—listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (If a code is not entered in D(1))
X-1	K054	900	P	T03 D80	
X-2	D002	400	P	T03 D80	
X-3	D001	100	P	T03 D80	
X-4	D002			T03 D80	included with above

Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER *(enter from page 1)*: WA789000896 7

IV. DESCRIPTION OF DANGEROUS WASTES *(continued)*

LINE NO.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	D001	15,000	K	S01	Storage
2	D002	18,000			
3	D004	100			
4	D005	15,000			
5	D006	500			
6	D007	5,000			
7	D008	100			
8	D009	1,500			
9	D010	500			
10	D011	100			
11	WT01	12,000			
12	WT02	35.000			
13	WT02	22,000			
14	WP01	10,000			
15	WP02	3,000			
16	WC01	8,000			
17	WC02	3,000			
18	F001	500			
19	F002	500			
20	F003	500			
21	F004	50			
22	F005	500			
23	D003	200			
24	WP03	3,000			
25	F027	50			
26					

Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA789000896 7

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE NO.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	P001	50	K	S01	Storage
2	P002				
3	P003				
4	P004				
5	P005				
6	P007				
7	P008				
8	P009				
9	P010				
10	P011				
11	P012				
12	P013				
13	P014				
14	P015				
15	P016				
16	P017				
17	P018				
18	P020				
19	P021				
20	P022				
21	P023				
22	P024				
23	P025				
24	P026				
25	P027				
26	P028				

CONTINUE ON REVERSE

Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE No.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	P029	50	K	S01	Storage
2	P030				
3	P031				
4	P033				
5	P034				
6	P035				
7	P036				
8	P037				
9	P038				
10	P039				
11	P040				
12	P041				
13	P042				
14	P043				
15	P044				
16	P045				
17	P046				
18	P047				
19	P048				
20	P049				
21	P050				
22	P051				
23	P054				
24	P056				
25	P057				
26	P058				

CONTINUE ON REVERSE

Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA789000896 7

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE NO.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	P059	50.	K	S01	Storage
2	P060				
3	P062				
4	P063				
5	P064				
6	P065				
7	P066				
8	P067				
9	P068				
10	P069				
11	P070				
12	P071				
13	P072				
14	P073				
15	P074				
16	P075				
17	P076				
18	P077				
19	P078				
20	P079				
21	P081				
22	P082				
23	P084				
24	P085				
25	P087				
26	P088				

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Continued from page 2.

NOTE Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1)

WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE NO.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	P089	50	K	S01	Storage
2	P092				
3	P093				
4	P094				
5	P095				
6	P096				
7	P097				
8	P098				
9	P099				
10	P101				
11	P102				
12	P103				
13	P104				
14	P105				
15	P106				
16	P107				
17	P108				
18	P109				
19	P110				
20	P111				
21	P112				
22	P113				
23	P114				
24	P115				
25	P116				
26	P118				

Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA789000897

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE NO.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	P119	50	K	S01	Storage
2	P120				
3	P121				
4	P122				
5	P123				
6					
7					
8					
9					
10					
11					
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Continued from page 2.

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I.D. NUMBER (enter from page 1): WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE NO.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	U001	50	K	S01	Storage
2	U003				
3	U006				
4	U007				
5	U008				
6	U009				
7	U010				
8	U012				
9	U015				
10	U017				
11	U018				
12	U019				
13	U020				
14	U021				
15	U022				
16	U023				
17	U024				
18	U025				
19	U026				
20	U027				
21	U029				
22	U030				
23	U032				
24	U033				
25	U034				
26	U035				

Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA789000897

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE NO.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	U036	50	K	S01	Storage
2	U037				
3	U038				
4	U039				
5	U041				
6	U042				
7	U043				
8	U044				
9	U045				
10	U046				
11	U047				
12	U048				
13	U049				
14	U050				
15	U051				
16	U052				
17	U053				
18	U055				
19	U056				
20	U057				
21	U058				
22	U060				
23	U061				
24	U062				
25	U063				
26	U064				

Continued from page 2.

NOTE Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE No.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered = D(1))
1	U066	50	K	S01	Storage
2	U067				
3	U068				
4	U070				
5	U071				
6	U072				
7	U073				
8	U074				
9	U075				
10	U076				
11	U077				
12	U078				
13	U079				
14	U080				
15	U081				
16	U082				
17	U083				
18	U084				
19	U085				
20	U087				
21	U092				
22	U093				
23	U094				
24	U095				
25	U096				
26	U097				

Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE NO.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	U099	50	K	S01	Storage
2	U103				
3	U105				
4	U106				
5	U109				
6	U110				
7	U111				
8	U114				
9	U115				
10	U121				
11	U122				
12	U125				
13	U126				
14	U127				
15	U128				
16	U129				
17	U130				
18	U131				
19	U132				
20	U133				
21	U135				
22	U138				
23	U142				
24	U143				
25	U144				
26	U147				

CONTINUE ON REVERSE

Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE NO.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	U149	50	K	S01	Storage
2	U151				
3	U152				
4	U153				
5	U156				
6	U157				
7	U158				
8	U160				
9	U163				
10	U165				
11	U166				
12	U167				
13	U168				
14	U169				
15	U170				
16	U171				
17	U174				
18	U176				
19	U177				
20	U178				
21	U179				
22	U183				
23	U184				
24	U185				
25	U188				
26	U189				

CONTINUE ON REVERSE

Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE NO.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	U190	50.	K	S01	Storage
2	U191				
3	U194				
4	U196				
5	U197				
6	U201				
7	U207				
8	U208				
9	U209				
10	U210				
11	U211				
12	U212				
13	U219				
14	U220				
15	U223				
16	U225				
17	U226				
18	U227				
19	U228				
20	U230				
21	U231				
22	U232				
23	U233				
24	U235				
25	U236				
26	U237				

Continued from page 2.

NOTE. Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA789000896 7

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE NO.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	U002	50	K	S01	Storage
2	U004				
3	U005				
4	U011				
5	U014				
6	U016				
7	U028				
8	U031				
9	U059				
10	U069				
11	U086				
12	U087				
13	U088				
14	U089				
15	U090				
16	U091				
17	U098				
18	U101				
19	U102				
20	U107				
21	U108				
22	U112				
23	U113				
24	U116				
25	U117				
26	U118				

CONTINUE ON REVE

Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	U119	50	K	S01	Storage
2	U120				
3	U123				
4	U124				
5	U134				
6	U136				
7	U137				
8	U139				
9	U140				
10	U141				
11	U145				
12	U146				
13	U148				
14	U150				
15	U154				
16	U155				
17	U159				
18	U161				
19	U162				
20	U164				
21	U172				
22	U173				
23	U180				
24	U181				
25	U182				
26	U186				

(enter "A" "B" "C" etc. behind the "3" to identify photocopied pages)

Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (enter from page 1): WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE NO.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	U239	50	K	S01	Storage
2	U240				
3	U242				
4	U243				
5	U245				
6	U246				
7	U247				
8	U002				
9	U004				
10	U031				
11	U123				
12	U134				
13	U154				
14	U159				
15	U161				
16	U162				
17	U216				
18	U218				
19	U238				
20					
21					
22					
23					
24					
25					
26					

IV. DESCRIPTION OF DANGEROUS WASTES *(continued)*

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

S01

he 2727-S Storage Facility was used for the storage of dangerous wastes generated on the Hanford Site. These wastes consisted of listed wastes, wastes from non-specific sources, characteristic wastes, andstate-only wastes.

V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

VI. PHOTOGRAPHS

All existing facilities must include photographs *(aerial or ground—level)* that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas *(see instructions for more detail)*.

II. FACILITY GEOGRAPHIC LOCATION *This information appears on the attached drawing and photogra

LATITUDE *(degrees, minutes, & seconds)*	LONGITUDE *(degrees, minutes, & seconds)*

VIII. FACILITY OWNER

[X] A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER	2. PHONE NO. *(area code & r*

3. STREET OR P.O. BOX	4. CITY OR TOWN	5. ST.	6. ZIP CODE

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attach documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false informati including the possibility of fine and imprisonment.

NAME *(print or type)*	SIGNATURE	DATE SIGNED
Michael J. Lawrence Manager, Richland Operations United States Department of Energy	Michael J. Lawrence	November 16, 1987

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attach documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false informati including the possibility of fine and imprisonment.

NAME *(print or type)*	SIGNATURE	DATE SIGNED
SEE ATTACHMENT		

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Michael J. Lawrence 11-16-87

Michael J. Lawrence
Manager, Richland Operations
United States Department of Energy

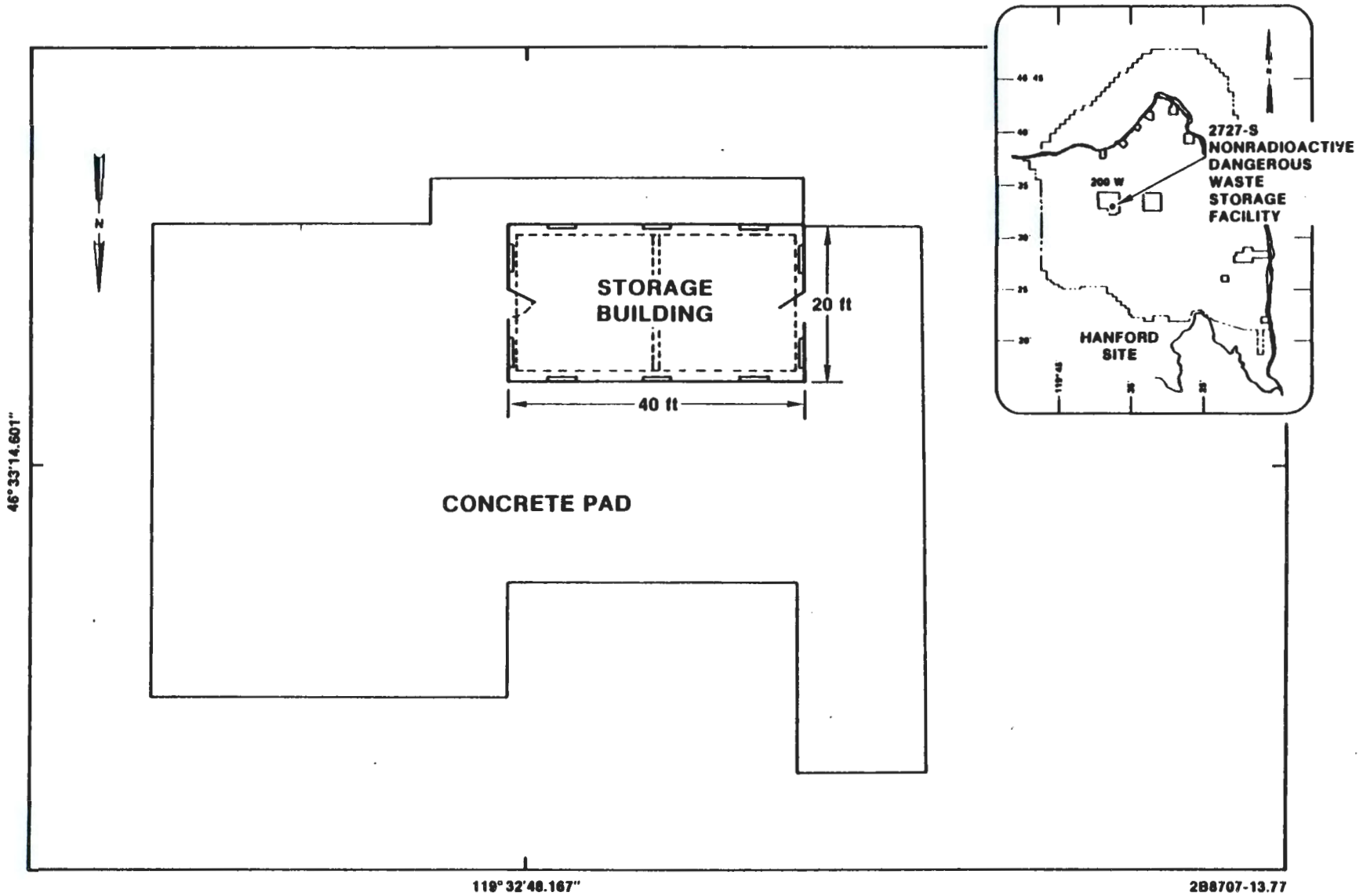
Date

W. M. Jacobi 11/16/87

William M. Jacobi
President
Westinghouse Hanford Company

Date

2727-S NONRADIOACTIVE DANGEROUS WASTE STORAGE FACILITY SITE PLAN



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APPENDIX E

2727-S NRDWS FACILITY WASTE INVENTORY

1986 Form 4 **GENERATOR ANNUAL DANGEROUS WASTE REPORT** Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA789000896 7

14. RECEIVING FACILITY (TSD) EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

15. TRANSPORTER EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. State	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. Method Code	K For TSD Facility Use Only
1	16190	07-15-86	L	S	I	Ignitable sodium nitrate from laboratory	D001		DW	11.4	K	
2	16190	07-15-86	L	S	I	Ignitable strontium nitrate from laboratory	D001		DW	45.4	K	
3	16190	07-15-86	L	L	I	Toxic, corrosive, ignitable nitric acid from laboratory	D001 WT01	D002	EHW	7	K	
4	16190	07-15-86	L	S	I	Toxic, ignitable sodium nitrite from operations	WT01	D001	EHW	248	K	
5	16190	07-15-86		L	I	Toxic, corrosive, EP toxic, carcinogenic solution of chromic and sulfuric acids fromlaboratory	WC01 D002	D007 WT01	EHW	7.5	K	
6	16190	07-15-86		L	O	Formaldehyde from laboratory	D001 WC01	U122	EHW	80	K	
7	16190	07-15-86		L	I	Toxic, corrosive, ignitable nitric acid from laboratory	D001 WT01	D002	EHW	20	K	
8	16190	07-15-86		S	I	Ignitable herbicide from grounds maintenance	D001		DW	22.5	K	
9	16190	07-15-86		L	I	Carcinogenic, ignitable hydrogen peroxide (30% aqueous) from laboratory	WC02	D001	DW	6.5	K	
10	16190	07-15-86		S	I	Toxic ignitables labpacked - mercuric nitrate, nickel nitrate, potassium permanganate, and zirconyl nitrate from laboratory	D001 D009	WT01	EHW	20.62	K	
11	16190	07-15-86	L	S	I	Toxic, ignitable sodium nitrite from operations	WT01	D001	EHW	3,800	K	
12	16190	07-15-86	L	S	I	Ignitable - ammonium persulfate from laboratory	D001		DW	204	K	
13	16190	07-15-86	L	L	O	Pentachlorophenol from plant operations	U242 WT01	WT01	EHW	1,238	K	
14	16190	07-15-86	L	L	I	Toxic, ignitable cadmium nitrate (50% aqueous) from plant operations	D006 D001	WT02	EHW	3	K	
15	16190	07-15-86	L	L	I	Corrosive potassium hydroxide in battery casings from plant operations	D002			1,235	K	
16	16190	07-15-86	L	S	I	Toxic, ignitable cupric nitrate from plant operations	D001	WT01	EHW	70	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

Pages 22-83: Shipped from 2727-S Nonradioactive Dangerous Waste Storage Facility

FORM ECY 030 28 (Rev 11/86) 280 864

1986 Form 4 **GENERATOR ANNUAL DANGEROUS WASTE REPORT** Form 4 1986

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NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Bulk	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. Method Code	K. For TSD Facility Use Only
1	16190	07-15-86	L	L	I	Toxic, corrosive, ignitable solution of mixed bases with chromium from laboratory	D001 D002	D007 WT01	EHW	6.36	K	
2	16190	07-15-86	L	L	I	Toxic, ignitable aluminum nitrate from laboratory	D001	WT02	DW	250	K	
3	16190	07-15-86	L	L	I	Toxic, ignitable potassium permanganate solution from plant operations	D001	WT02	DW	210	K	
4	16190	07-15-86	L	S	I	Ignitable sodium nitrate mixture from plant operation	D001		DW	410	K	
5	16190	07-15-86	L	L	I	Toxic, ignitable aluminum nitrate solution from plant operations	D001	WT02	DW	150	K	
6	16190	07-15-86		L	I	Toxic, ignitable aluminum nitrate solution from plant operations	D001	WT02	DW	364	K	
7	16190	07-15-86		L	I	Toxic, ignitable potassium permanganate solution from plant operations	D001	WT02	DW	341	K	
8	16190	07-15-86		S	I	Ignitable sodium nitrate mixture from plant operations	D001		DW	159	K	
9	16190	07-15-86		S	I	Toxic, corrosive, ignitable absorbed nitric acid from laboratory	D001 WT01	D002	EHW	100	K	
10	16190	07-15-86		L	I	Toxic, corrosive sulfuric acid solution from laboratory	WT01	D002	EHW	20	K	
11	16190	07-15-86	L	S	I	Toxic, carcinogenic, dry nickel-cadmium batteries from plant operations	WT01 WC01	D006	EHW	18	K	
12	16190	07-15-86	L	L	I	Toxic, corrosive ammonium hydroxide from blueprint machines	D002	WT01	EHW	375	K	
13	16191	07-21-86	L	L	I	Toxic, corrosive solution of nitric, hydrochloric, and acetic acids with nickel, beryllium, and arsenic from laboratory	WT01 D004	D002	EHW	24	K	
14	16191	07-21-86	L	S	O	Toxic absorbed dioctyl sebacate from laboratory	WT02		DW	114	K	
15	16191	07-21-86		L	I	Toxic, carcinogenic, corrosive, EP toxic solution of mixed acids with cadmium, chromium and mercury from laboratory	WC02 WT01 D007	D002 D006 D009	EHW	4	K	
16	16191	07-21-86		L	I	Toxic, corrosive sodium hydroxide solution (65% aqueous) with selenium from construction operation	WT01 D002	D010	EHW	250	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

1986 Form 4 GENERATOR ANNUAL DANGEROUS WASTE REPORT Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA789000897

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15. TRANSPORTER EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. State	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. WCI 0 0 0 HE I	K. For TSD Facility Use Only
1	16191	07-21-86	L	S	I	Corrosive hydrobromic acid from laboratory	D002		DW	4.24	K	
2	16191	07-21-86	L	L	IO	Toxic, corrosive solution of phosphoric and formic acids, and bis(2-ethylhexyl)-ester from laboratory	D002	WT01	EHW	5.64	K	
3	16191	07-21-86	L	S	I	Toxic, corrosive sodium hydroxide, dry, solid from laboratory	D002	WT01	EHW	45.4	K	
4	16191	07-21-86	L	S	O	Toxic ethylenediaminetetraacetic acid from plant operations	WT02		DW	1,529	K	
5	16191	07-21-86		L	I	Toxic, corrosive mixed acids solution with mercury from laboratory	WT01 D009	D002	EHW	41.8	K	
6	16191	07-21-86		L	IO	Spent toxic, corrosive mixed acids solution with phenol from laboratory	WT01 D002	F003	EHW	49.4	K	
7	16191	07-21-86		L	I	Toxic, corrosive ammonium hydroxide aqueous solution from blueprint machine	WT01	D002	EHW	15.2	K	
8	16191	07-21-86		L	IO	Carcinogenic, corrosive labpack of phosphoric acid, and a solution of sulfamic acid and formaldehyde from laboratory	WC01	D002	EHW	14.9	K	
9	16191	07-21-86		L	IO	Corrosive solution of phosphoric acid and diethyl-thiourea from laboratory	D002		DW	19.0	K	
10	16191	07-21-86		S	I	Toxic, EP toxic, corrosive absorbed mercuric chloride solution from laboratory	WT01 D002	D009	EHW	143	K	
11	16191	07-21-86		S	O	Toxic ethylenediaminetetraacetic acid from laboratory	WT02		DW	36	K	
12	16191	07-21-86		L	O	Corrosive hydroxylethylethylenediaminetriacetic acid from laboratory	D002		DW	30	K	
13	16191	07-21-86		L	I	Toxic, EP toxic, corrosive labpack of lead in acid solutions and mercury in acid solution from laboratory	D002 D008	D009 WT01	EHW	4.9	K	
14	16191	07-21-86		L	I	Toxic, corrosive sulfuric acid solution (66% aqueous) from plant operations	WT02	D002	DW	284	K	
15	16191	07-21-86		S	OI	Carcinogenic, polycyclic aromatic hydrocarbon - asphalt with trace of hydrochloric acid and surfactants from construction operation	WP03	WC01	EHW	198	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

1986 Form 4 GENERATOR ANNUAL DANGEROUS WASTE REPORT Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA789000896 7

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Seattle, Washington ZIP: 98134

15. TRANSPORTER
EPA/STATE I.D. NUMBER: WAD085367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Status	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. WECOMDIET	K. For TSD Facility Use Only
1	16191	07-21-86		L	OI	Toxic, carcinogenic, corrosive solution of 71% picric acid, 5% acetic acid and 24% formaldehyde from laboratory	WC01 WT02	D002	EHW	35.2	K	
2	16191	07-21-86	L	L	O	Carcinogenic, polycyclic aromatic hydrocarbon asphalt from construction operation	WP03	WC01	EHW	1,876	K	
3	16191	07-21-86	L	S	O	Toxic, corrosive, ignitable ethylenediamine from laboratory	WT02 D001	D002	DW	188	K	
4	16191	07-21-86	L	L	I	Corrosive sodium aluminate solution from laboratory	D002		DW	500	K	
5	16191	07-21-86	L	L	IO	Corrosive bi-2-ethylhexyl phosphoric acid from laboratory	D002		DW	835	K	
6	16191	07-21-86	L	L	IO	Toxic tributyl phosphate solution from plant operations	WT02		DW	835	K	
7	16191	07-21-86	L	L	I	Toxic, corrosive, EP toxic, acid mixture with cadmium, chromium, and lead from laboratory	D002 D007 WT01	D006 D008	EHW	21	K	
8	16191	07-21-86	L	L	I	Corrosive, reactive sodium hydroxide solution with potassium ferrocyanide from laboratory	D002	D003	DW	4	K	
9	16191	07-21-86	L	L	IO	Toxic, corrosive solution of oxalic and nitric acid from plant operations	WT02	D002	DW	210	K	
10	16191	07-21-86	L	L	I	Corrosive potassium hydroxide solution from plant operations	D002		DW	20	K	
11	16191	07-21-86	L	L	I	Toxic, corrosive solution of aluminum, hydroxides, nitrites, nitrates, phosphates, sulfates, carbonates, and sodium from laboratory	WT01	D002	EHW	662	K	
12	16191	07-21-86	L	L	I	Toxic, corrosive zinc chloride (31% aqueous) solution from laboratory	WT01	D002	EHW	376	K	
13	16191	07-21-86	L	L	I	Toxic, carcinogenic, corrosive, EP toxic, solution of sulfuric acid with mercury and selenium from laboratory	WT01 D002 D010	WC02 D009	EHW	84	K	
14	16191	07-21-86	L	L	O	Carbon tetrachloride from laboratory	WC01 U211	WT01	EHW	5.4	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

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13. YOUR EPA/STATE I.D. NUMBER: WA789000967

14. RECEIVING FACILITY (TSD)
EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

15. TRANSPORTER
EPA/STATE I.D. NUMBER:
NAME:
ADDRESS:
ZIP:

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Status	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. Waste Code	K. For TSD Facility Use Only
1	16191	07-21-86		L	IO	Toxic, persistent, corrosive cresylic acid, chlorinated hydrocarbons, and water base sealer solution from automotive operation	F004 WP01	WT01 D002	EHW	182	K	
2	16191	07-21-86		S	I	Toxic, corrosive mixture of 25% sodium hydroxide solution and 75% soil from caustic clean-up operation	WT01	D002	EHW	1,084	K	
3	16191	07-21-86		L	I	Corrosive alkaline solution from plant operations	D002		DW	545	K	
4	16191	07-21-86		L	I	Corrosive alkaline solution from plant operations	D002		DW	567	K	
5	16191	07-21-86		L	I	Corrosive sulfamic acid (95% aqueous) solution from laboratory	D002		DW	25	K	
6	16191	07-21-86		L	IO	Toxic, persistent sodium pentachlorophenate and potassium hydroxide from operations	WT01 WP02	F027	EHW	22	K	
7	16191	07-21-86		L	I	Toxic, corrosive ferric chloride etching solution from operations	WT01	D002	EHW	36.24	K	
8	16191	07-21-86		L	I	Toxic, corrosive, EP toxic solution of sulfuric acid with lead and selenium from laboratory	WT01 D002	D008 D010	EHW	20	K	
9	16191	07-21-86		L	I	Toxic, corrosive, EP toxic sulfuric acid solution with barium and selenium from laboratory	WT01 D002	D005 D010	EHW	20	K	
10	16191	07-21-86		L	OI	Corrosive sulfuric acid (2%) solution with acetone and diphenyl carbazide from laboratory	F003	D002	DW	20	K	
11	16191	07-21-86		S	O	Corrosive oxalic acid from laboratory	D002		DW	14.4	K	
12	16191	07-21-86		L	O	Corrosive, toxic formic acid (96% aqueous) solution from laboratory	D002 WT02	U123	DW	9.86	K	
13	16191	07-21-86		S	I	Toxic, corrosive absorbed sodium hydroxide solution from laboratory	D002	WT02	DW	11.4	K	
14	16191	07-21-86	L	L	I	Toxic, corrosive hydrochloric acid solution from operations	D002	WT02	DW	1,001	K	
15	16191	07-21-86	L	L	IO	Corrosive solution of acetic acid and ammonium thiosulfate from operations	D002		DW	68	K	
16	16191	07-21-86	L	L	I	Toxic, corrosive hydrochloric acid solution from operations	WT02	D002	DW	375	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

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13. YOUR EPA/STATE I.D. NUMBER: WA789000896 7

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LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Bulk	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. Weight or Unit	K. For TSD Facility Use Only
1	16191	07-21-86		L	I	Corrosive potassium hydroxide (23%) aqueous solution from plant operations	D002		DW	100	K	
2	16191	07-21-86		LG	O	Toxic oil, water, and sludge mixture from automotive operation	WT02		DW	220	K	
3	16191	07-21-86		L	I	Toxic, carcinogenic, corrosive mixed acids solution from operations	WT01 WC02	D002	EHW	220	K	
4	16191	07-21-86		L	I	Toxic, corrosive, EP toxic mixed bases (caustic) solution with barium, cadmium, chromium, and lead from operations	WT01 D002 D007	D005 D006 D008	EHW	220	K	
5	16191	07-21-86		L	OI	Spent toxic, corrosive, EP toxic caustic solution with mercury and organics from operations	F005 D002	WT02 D009	DW	220	K	
6	16191	07-21-86		L	IO	Corrosive, persistent solution from operations	D002	WP02	DW	416	K	
7	16191	07-21-86		L	I	Toxic solution from operations	WT02		DW	416	K	
8	16191	07-21-86	L	L	I	Toxic, corrosive spent alkaline photochemicals from photographic operation	WT02	D002	DW	418	K	
9	16191	07-21-86	L	L	IO	Toxic, corrosive mixed solution of hydrochloric, phosphoric, and acetic acids from laboratory	D002	WT02	DW	20	K	
10	16191	07-21-86	L	L	I	Toxic, corrosive acid solution of 0.2% picric acid and hydrochloric acid from laboratory	D002		DW	8	K	
11	16191	07-21-86	L	L	I	Toxic, corrosive solution of nickel sulfate and chloride, and boric acid from laboratory	WT02	D002	DW	19	K	
12	16191	07-21-86	L	L	O	Carbon tetrachloride from laboratory	U211 WT01	WP01	EHW	13	K	
13	16191	07-21-86	L	L	IO	Corrosive acetic acid and oxalic acid solution from laboratory	D002		DW	195	K	
14	16191	07-21-86	L	L	O	Toxic, corrosive sodium hydroxide solution from photographic laboratory	WT02	D002	DW	427	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

1986 Form 4 **GENERATOR ANNUAL DANGEROUS WASTE REPORT** Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA789000896 7

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16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F.* Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. Method Code	K For TSD Facility Use Only
1	16191	07-21-86	L	L	I	Toxic, corrosive labpack of sulfuric and phosphoric acids, and hydrochloric, sulfuric, and nitric acids from laboratory	WT02	D002	DW	24	K	
2	16191	07-21-86	L	L	I	Toxic, corrosive sodium hydroxide solution from photographic laboratory	WT02	D002	DW	220	K	
3	16191	07-21-86		L	IO	Corrosive, carcinogenic hydrochloric acid and formaldehyde solution from photographic laboratory	WC02	D002	DW	14	K	
4	16191	07-21-86		L	IO	Toxic, corrosive solution of potassium hydroxide, hydroquinone, sodium formaldehyde, and alkaline carbonates from photographic laboratory	WT02	D002	DW	214.7	K	
5	16191	07-21-86		L	I	Toxic, corrosive aqueous ammonium hydroxide (21%) solution from blueprint machine	WT01	D002	EHW	37.7	K	
6	16191	07-21-86		L	IO	Toxic, corrosive, persistent solution of potassium hydroxide, organophosphates and aliphatic hydrocarbons from plant operations	WT02 D002	WP02	DW	682	K	
7	16191	07-21-86		L	I	Toxic, corrosive ammonium hydroxide (21%) aqueous solution from blueprint machine	WT01	D002	EHW	136	K	
8	16191	07-21-86		L	I	Corrosive sulfuric acid solution from photographic laboratory	D002		DW	1.0	K	
9	16191	07-21-86		L	IO	Toxic, corrosive potassium hydroxide solution with hydroquinone and alkaline sulfites from photographic laboratory	WT02	D002	DW	250	K	
10	16198	07-21-86	L	S	O	Toxic absorbed dioctyl sebacate from laboratory	WT02		DW	114	K	
11	16198	07-21-86		S	O	Toxic absorbed oil solutions from laboratory	WT02		DW	200	K	
12	16198	07-21-86	L	S	O	Toxic, persistent, carcinogenic mixture of brominated polyester resin and styrene from construction operation	WP01 WC01	WT01	EHW	275	K	
13	16198	07-21-86	L	L	O	Trichloroethylene from construction operation	U228 WT01	WP01	EHW	623	K	
14	16198	07-21-86		S	O	Toxic, reactive, carcinogenic polyurethane of dissocyanates from construction operations	WC01 WT01	D003	EHW	531	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

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1986 Form 4 GENERATOR ANNUAL DANGEROUS WASTE REPORT Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA789000896

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16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Sign	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. Method Code	K. For TSD Facility Use Only
1	16198	07-21-86		S	O	Toxic, persistent polyurethane of mixed chlorinated organics from construction operation	WP01 WT01	F002	EHW	90	K	
2	16198	07-21-86		S	O	Toxic, persistent, carcinogenic mixture of brominated polyester resin and styrene from construction operation	WC01 WT01	WP01	EHW	205	K	
3	16198	07-21-86	L	S	I	Toxic sodium fluoride and EP toxic lead fluoride labpack - in solution, these are corrosive - from laboratory	D008 WT01	D002	EHW	11	K	
4	16198	07-21-86	L	LS	OI	Toxic, carcinogenic mixture of formaldehyde, acetic acid, and glycerine with beryllium and fish eggs from laboratory	WT01	WC01	EHW	91	K	
5	16198	07-21-86	L	S	I	Toxic sodium phosphate, tribasic from laboratory	WT02		DW	46	K	
6	16198	07-21-86		S	I	Toxic sodium phosphate, dibasic and tribasic labpack from laboratory	WT02		DW	1	K	
7	16198	07-21-86		S	I	Toxic copper sulfate from laboratory	WT01		EHW	76	K	
8	16198	07-21-86		L	O	Labpack containing formaldehyde, dichlorobenzene, tetrabromomethane, and methylene chloride from laboratory	U080 WP01 WT01	U122 U070 WC01	EHW	8	K	
9	16198	07-21-86		L	OI	Labpack containing tetrachloroethylene, 1,1,1-trichloroethane, chloroform, carbon tetrachloride, and ammonium carbonate from laboratory	U210 U226 WT01 WP01	U044 U211 WC01	EHW	37	K	
10	16198	07-21-86		S	I	Toxic, EP toxic sodium arsenate from laboratory	WT01	D004	EHW	50	K	
11	16198	07-21-86		L	OI	Toxic labpack of ethylene glycol and a tributyl phosphate solution from laboratory	WT02		DW	9	K	
12	16198	07-21-86		L	I	Toxic, EP toxic labpack of metallic mercury mixtures from laboratory	U151 WT01	D009	EHW	30	K	
13	16198	07-21-86		L	O	Labpack of carbon tetrachloride, methylene chloride, and tetrachloroethylene from laboratory	U211 U080	U210 WT01	EHW	75	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

1986 Form 4 GENERATOR ANNUAL DANGEROUS WASTE REPORT Form 4 1986

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16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Status	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. Unit of Measure	K For TSD Facility Use Only
1	16198	07-21-86		L	I	Toxic metallic mercury from laboratory	U151 WT01	D009	EHW	60	K	
2	16198	07-21-86		L	O	Toxic, polycyclic aromatic hydrocarbon solution of aromatic and aliphatic hydrocarbons from laboratory	WT02	WP03	EHW	5	K	
3	16198	07-21-86		L	O	1,1,1-trichloroethane from laboratory	U226 WT01	WP01	EHW	0	K	
4	16198	07-21-86		S	OI	Toxic, polycyclic aromatic hydrocarbon mixture of asphalt emulsion, neoprene, surfactants and hydrochloric acid from construction operation	WP03	WT01	EHW	327	K	
5	16198	07-21-86		S	OI	Toxic, polycyclic aromatic hydrocarbon mixture of asphalt emulsion, surfactants, and hydrochloric acid from construction operation	WP03	WT01	EHW	218	K	
6	16198	07-21-86	L	S	O	Toxic ethylenediaminetetraacetic acid from laboratory	WT02		DW	45	K	
7	16198	07-21-86	L	L	O	Toxic ethylene glycol from laboratory	WT02		DW	27	K	
8	16198	07-21-86	L	L	I	EP toxic silver nitrate solution from laboratory	D011		EHW	25	K	
9	16198	07-21-86	L	LS	I	Toxic mixture of mercury and copper tubing from plant operations	WT01	D009	EHW	102	K	
10	16198	07-21-86	L	S	O	Toxic persistent mixture of solid waste with 1% 2,4-dichlorophenoxy acetic acid from site maintenance operation	D016 WT01	WP01	EHW	18.2	K	
11	16198	07-21-86	L	L	I	Toxic absorbed metallic mercury from spill clean-up in plant operations	WT01	D009	EHW	2.2	K	
12	16198	07-21-86		L	O	1,1,1-trichloroethane from plant operations	U226 WP01	WT01	EHW	114	K	
13	16198	07-21-86		L	O	1,1,1-trichloroethane - empty drums	U226 WP01	WT01	EHW	0	K	
14	16198	07-21-86		L	O	Toxic, persistent tetrachloroethylene solution (10%) from plant operations	WT01 WP01	F002	EHW	23	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

1986 Form 4 GENERATOR ANNUAL DANGEROUS WASTE REPORT Form 4 - 1986

13. YOUR EPA/STATE I.D. NUMBER: WA7890008967

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1	16198	07-21-86		L	O	Toxic, carcinogenic, persistent solution of methylene chloride, trichloroethylene, and methyl methacrylate from plant operations	F001 WP01	WT01 WC01	EHW	19	K	
2	16198	07-21-86		S	I	Toxic potassium fluoride from laboratory	WT02		DW	8	K	
3	16198	07-21-86		L	I	Toxic metallic mercury from broken thermometers in laboratory	U151 WT01	D009	EHW	0.5	K	
4	16198	07-21-86		L	O	Trichloroethylene - empty drums	U228 WP01	WT01 WC01	EHW	0	K	
5	16198	07-21-86		L	O	Persistent oil solution with 0.16% trichloroethane from automotive operation	F002	WP02	DW	45	K	
6	16198	07-21-86		L	O	Carcinogenic solution of mixed organics from plant operations	WC02		DW	220	K	
7	16198	07-21-86		L	O	Toxic ethylene glycol solutions from automotive operation	WT02		DW	880	K	
8	16198	07-21-86		L	O	Spent toxic, persistent carbon tetrachloride solution from plant operations	WP01 F001	WT01	EHW	736	K	
9	16198	07-21-86		L	O	Toxic ethylene glycol solutions from automotive operation	WT02		DW	1,200	K	
10	16198	07-21-86		L	O	Tetrachloroethylene from plant operations	U210 WC01	WT01 WP01	EHW	756	K	
11	16198	07-21-86		L	OI	Toxic triphenyl phosphate ester from plant operations	WT02		DW	238	K	
12	16198	07-21-86		L	I	Toxic solution of photographic waste with silver from photographic laboratory	D011	WT02	DW	213	K	
13	16198	07-21-86		S	I	Toxic absorbed metallic mercury from spill clean-up in laboratory	WT01	D009	EHW	7	K	
14	16198	07-21-86		S	O	Carcinogenic, solidified polyvinyl alcohol from laboratory	WC01		EHW	20	K	
15	16198	07-21-86		S	I	EP toxic, dried paint residue with lead and chromium from paint operation	D007	D008	EHW	16	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

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1986 Form 4 GENERATOR ANNUAL DANGEROUS WASTE REPORT Form 4 1986

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1	16198	07-21-86		S	I	Toxic lead-contaminated paper and rags from construction operation	D008	WT01	EHW	68	K	
2	16204	07-25-86	L	L	O	Acetone from plant operations	U022 D001	WT02	DW	110	K	
3	16204	07-25-86		L	O	Spent toxic, flammable acetone from plant operations	D001 WT02	F003	DW	344	K	
4	16204	07-25-86		L	O	Flammable butyl acetate from laboratory	D001		DW	34	K	
5	16204	07-25-86		L	O	Toxic, persistent, ignitable labpack of stoddard solvent, dimethyl formamide, ethylene glycol monomethyl ether, and pentachlorophenol mixed with oil from laboratory	D001 WT02	WP01	EHW	5.21	K	
6	16204	07-25-86	L	L	O	Dioxane from laboratory	U108 WT02	WC02	DW	5	K	
7	16204	07-25-86	L	L	O	Spent, toxic, persistent (halogenated hydrocarbon) mixed organics with small amount of chlorodane, silvex and 2,4-D from laboratory	F003 D001 D016 WT01 F001	F005 D014 D017 WP01	EHW	25	K	
8	16204	07-25-86		L	O	Spent, toxic, persistent flammable mixed organic solution with acetone, methylene chloride, nitrobenzene from laboratory	D001 F001 WT01	F003 F004 WP01	EHW	57	K	
9	16204	07-25-86		L	O	Flammable, toxic labpack of pyridine, xylene solutions, and a nitrobenzene and isoamyl alcohol solution from laboratory	D001 U196 WT01	F003 F004	EHW	17	K	
10	16204	07-25-86		L	O	Flammable, toxic, carcinogenic, persistent labpack of mixed organics including methylene chloride, benzene and acetone from laboratory	D001 WP01 F003	WC01 F002 WT01	EHW	21	K	
11	16204	07-25-86	L	L	O	Toxic, flammable labpack containing xylene and diethylamino ethanol from laboratory	D001 U239	WT01	EHW	33	K	

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1986 Form 4 **GENERATOR ANNUAL DANGEROUS WASTE REPORT** Form 4 1986

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16. WASTE IDENTIFICATION

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1	16204	07-25-86		L	O	Flammable, toxic, persistent, carcinogenic oil mixture with isopropanol, acetone, toluene, dichlorodifluoromethane, and aliphatic hydrocarbons from automotive operation	D001 WP01 F005 WT01	F001 F003 WC01	EHW	379	K	
2	16204	07-25-86	L	L	O	Toxic, persistent, flammable solution of acetone, methanol, toluene, methylene chloride, and methyl ethyl ketone from laboratory	F001 F005 WP01	F003 WT01 D001	EHW	29	K	
3	16204	07-25-86		L	I	Toxic, carcinogenic, corrosive, igniting agent solution of 50% chromic acid and 50% sulfuric acid from laboratory	WT01 D007 D001	WC01 D002	EHW	8	K	
4	16204	07-25-86		L	O	Toxic, flammable, persisent, carcinogenic solutions of mixed organics labpacked - organics include methanol, acetone, methylene chloride, toluene, butanol, chloroethane and crude oil from laboratory	D001 F002 WC01 WT01	F003 F005 WP01	EHW	50	K	
5	16204	07-25-86		L	O	Toxic, polycyclic aromatic hydrocarbon, halogenated hydrocarbon, carcinogenic, flammable organic solution of acetone, methylene chloride, and coal tars from laboratory	D001 F001 WC02 WP01	F003 WT01 WP03	EHW	7.6	K	
6	16204	07-25-86	L	L	O	Toxic, persistent, carcinogenic, flammable solution of mixed organics including methanol, acetone, acetonitrile, methylene chloride, methyl isobutyl ketone, chloroform, 1,1,1-trichloroethane, carbon tetrachloride, and 1,1,2-trichlorotrifluoroethane from laboratory	F002 F005 WP01 D001	F003 WT01 WC02	EHW	21	K	
7	16204	07-25-86		L	O	Toxic, persistent, carcinogenic, flammable solution of isooctane, acetonitrile, gasoline, and 1,1,1-trichlorotrifluoroethane from laboratory	F002 WC02 WT01	D001 WP01	EHW	16	K	
8	16204	07-25-86	L	L	O	Toxic, persistent, flammable solution of 50% hexane, and 50% methylene chloride from laboratory	WP01 D001	F002 WT02	EHW	28	K	
9	16204	07-25-86		L	O	Toxic, flammable solution of xylene, 2-ethoxyethanol, and surfactants from laboratory	D001 F003	WT01	EHW	4	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

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1986 Form 4 **GENERATOR ANNUAL DANGEROUS WASTE REPORT** Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA7 8 9 0 0 0 8 9 6 7

14. RECEIVING FACILITY (TSD) EPA/STATE I.D. NUMBER: WAD 0 5 8 3 6 7 1 5 2
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

15. TRANSPORTER EPA/STATE I.D. NUMBER: WAD 0 5 8 3 6 7 1 5 2
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
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16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Status	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. Units Code Liquid	K. For TSD Facility Use Only
1	16204	07-25-86	L	L	O	Toxic, persistent, flammable organic solutions, labpacked - components include acetone, methanol, pyridine, dichloromethane, and trichloroethane from laboratory	F003 D001 F002	WP01 WT01 F005	EHW	7.6	K	
2	16204	07-25-86	L	L	O	Toxic, carcinogenic, flammable labpack of xylene, and mixed organic solutions with the components hexane, heptane, butanol, methyl t-butyl ether, benzene, acetone, and cyclohexane from laboratory	U239 D001 WT01	F003 WC01	EHW	19.7	K	
3	16204	07-25-86		L	O	Toxic, carcinogenic solution of 90% ethylene glycol with methanol, and rhodamine-B from laboratory	F003 WC01	WT02	EHW	40.5	K	
4	16204	07-25-86		L	O	Cyclohexanone from laboratory	U057 WT01	D001	EHW	30	K	
5	16204	07-25-86		G	OI	Toxic, flammable solution of methyl ethyl ketone, vinyl resin and red dye from laboratory	WT02 F005	D001	DW	7.6	K	
6	16204	07-25-86		L	O	Xylene from laboratory	U239 F003	WT01 D001	EHW	11	K	
7	16204	07-25-86		L	O	Toxic, persistent, carcinogenic flammable labpack of mixed organic solutions including - acetonitrile, isooctane, chloroform, toluene, methanol, methyl isobutyl ketone, and trichlorotrifluoroethane from laboratory	WT01 WC01 F002 F005	WP01 D001 F003	EHW	13.2	K	
8	16204	07-25-86		L	OI	Toxic, carcinogenic, flammable, corrosive solution of phosphoric acid and isopropyl alochol from laboratory	D001 D002	WT02 WC02	DW	8	K	
9	16204	07-25-86	L	L	O	Toxic, persistent, carcinogenic, flammable solution of mixed organics and toxics including acetone, isootane, methanol toluene, acetonitrile, chloroform, trichlorotrifluoroethane, methyl isobutyl ketone with endrin, lindane, methoxychlor, toxaphene, and 2,4,5-TP silvex from laboratory	F002 WT01 D001 D013 D015 WP01	F005 WC02 D012 D014 D017 F003	EHW	17	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

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13. YOUR EPA/STATE I.D. NUMBER: WA789000897

14. RECEIVING FACILITY (TSD) EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

15. TRANSPORTER EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
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16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Bulk	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. WECIDOHE I	K. For TSD Facility Use Only
1	16204	07-25-86	L	L	O	Toxic, persistent, carcinogenic, flammable solution of mixed organics and toxics including isooctane, methanol, trichlorotrifluoroethane, acetonitrile, methylene chloride, toluene, methyl isobutyl ketone, acetone with endrin, lindane, methoxychlor, toxaphene, 2,4-5D, and 2,4,5-TP silvex from laboratory	WT01 WP01 F002 F005 D013 D015 D017	WC02 D001 F003 D012 D014 D016	EHW	27	K	
2	16204	07-25-86		S	I	Toxic dried paint composed of inert resin and chromium from paint operation	D007	WT02	DW	136	K	
3	16204	07-25-86		LG	OI	Toxic, persistent, flammable mixed solvents including toluene, xylene, butanol, methyl ethyl ketone, methyl isobutyl ketone, chlorinated aromatics, aliphatics, and substituted benzenes with resin sludge from paint operation	F003 WT01 D001	F005 WP01 WC01	EHW	136	K	
4	16204	07-25-86		LG	OI	Toxic, flammable mixed solvents including methyl ethyl ketone, methyl isobutyl ketone, and aliphatics with resin sludge and chromium from paint operation	F003 F005 D007	WT01 D001	EHW	137	K	
5	16204	07-25-86		LG	OI	Toxic, flammable, persistent mixed solvents including methylene chloride, toluene, xylene, methanol, naphthalene, substituted benzenes, aliphatics, and chlorinated aromatics with resin sludge from paint operation	F002 F005 WP01	F003 D001 WT02	EHW	137	K	
6	16204	07-25-86		LG	OI	Toxic, persistent, flammable mixed solvents including acetone, benzene, toluene, xylene, and aliphatics with resin sludge from paint operation	F003 F005 D001	WT02 WP01 WC01	EHW	137	K	
7	16204	07-25-86		G	OI	Toxic, flammable organic solvents including xylene, toluene, and aliphatics with resin sludge, chromium, and lead from paint operation	D007 F005 WT01	F003 D001 D008	EHW	136	K	
8	16204	07-25-86		LG	OI	Toxic, flammable organic solvents including acetone, methyl ethyl ketone, methyl isobutyl ketone, toluene, xylene, substituted benzenes, and aliphatics with resin sludge and chromium from paint operation	F003 D001 WT01	F005 D007 WC01	EHW	270	K	
9	16204	07-25-86	L	S	I	Carcinogenic hydrated nickel from laboratory	WC01		EHW	312	K	
10	16204	07-25-86		L	O	Flammable, carcinogenic, toxic solution of formaldehyde and methanol from laboratory	D001 WC01	WT02 F003	EHW	11	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

1986 Form 4 **GENERATOR ANNUAL DANGEROUS WASTE REPORT** Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA789000896 7

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16. WASTE IDENTIFICATION

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1	16204	07-25-86	L	S	O	Toxic, carinogenic, persistent mixture of brominated polyester resin and styrene from construction operation	WP01 WC01	WT01	EHW	276	K	
2	16204	07-25-86	L	L	O	Flammable hexane from laboratory	D001		DW	38	K	
3	16204	07-25-86		L	O	Flammable naphtha from construction operation	D001		DW	1,137	K	
4	16204	07-25-86	L	L	O	Flammable paint thinner (mineral spirits) from paint operation	D001		DW	40	K	
5	16204	07-25-86		LG	OI	Flammable, toxic, persistent, carcinogenic mixture of latex and enamel paints, epoxy resin, and adhesives which includes mixed organics, chromium and lead pigments from paint operation	D001 F001 WT01 WC01 D008	F003 F005 WP02 D007	EHW	114	K	
6	16204	07-25-86	L	LG	OI	Flammable, toxic, persistent, carcinogenic mixture of latex and enamel paints, epoxy resin, and adhesives which includes mixted organics, chromium and lead pigments from paint oparation	F002 F005 WT01 WC01 D008	F003 D001 WP02 D007	EHW	1,037	K	
7	16204	07-25-86		LG	OI	Flammable, toxic, persistent, carcinogenic mixture of latex and enamel paints, epoxy resin, and adhesives which includes mixted organics, chromium and lead pigments from paint operation	F002 F005 WT01 WC01 D008	F003 D001 WP02 D007	EHW	1,360	K	
8	16204	07-25-86		LG	OI	Toxic, carcinogenic, persistent, flammable labpack of enamel latex paints, adhesives, and thinners which includes mixed organics, chlorinated resins, and lead from paint operation	F003 WT01 D001 WP02	F005 WC02 D008	EHW	198	K	
9	16204	07-25-86	L	L	O	Toluene from laboratory	U220 WT01	D001	EHW	91	K	
10	16204	07-25-86		L	O	Toluene from laboratory	U220 WT01	D001	EHW	13	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

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13. YOUR EPA/STATE I.D. NUMBER: WA7890008967

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16. WASTE IDENTIFICATION

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1	16204	07-25-86		L	O	Toluene from laboratory	U220 WT01	D001	EHW	141	K	
2	16204	07-25-86	L	L	O	Toxic, flammable labpack with acetone and toluene from laboratory	WT01 U220	D001 U002	EHW	46	K	
3	16204	07-25-86	L	L	O	Trichloroethylene from laboratory	U228 WP01	WT01	EHW	239	K	
3	16204	07-25-86		L	O	Butyl alcohol from laboratory	U031	D001	DW	14	K	
4	16204	07-25-86		L	O	Flammable, carcinogenic solution of oil and surfactants from automotive operation	WC01	D001	EHW	100	K	
5	16204	07-25-86	L	L	O	Flammable, toxic solution of toluene, methyle ethyl ketone, and butanol from paint operation	F003 D001	F005 WT01	EHW	33	K	
6	16210	08-01-86		L	O	Toxic, persistent, combustible bromobenzene from laboratory	WP01 D001	WT02	EHW	27	K	
7	16210	08-01-86		L	O	Toxic, polycyclic aromatic hydrocarbon, carcinogenic solution of solvent refined coal and surfactants from laboratory	WT01 WP03	WC02	EHW	60	K	
8	16210	08-01-86		L	O	Toxic, polycyclic aromatic hydrocarbon, carcinogenic, persistent, solvent refined coal from laboratory	WT01 WP03	WC02	EHW	107	K	
9	16210	08-01-86		L	O	Toxic, polycyclic aromatic hydrocarbon, carcinogenic solvent refined coal from laboratory	WT01 WP03	WC02	EHW	214	K	
10	16210	08-01-86	L	L	O	Toxic, flammable solution of mixed organics, including toluene from construction operation	WT02 D001	F005	DW	45	K	
11	16210	08-01-86		L	O	Combustible, toxic solution of nonane and trimethyl benzene from paint operation	WT02	D001	DW	198	K	
12	16210	08-01-86		L	O	Toxic, persistent solution of biomass oils, methylene chloride, methylene hydroxide and water from laboratory	F002 WT01	WP01	EHW	211	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

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16. WASTE IDENTIFICATION

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1	16210	08-01-86		L	O	Combustible labpack of 1-hexanol and 2-ethoxy ethanol from laboratory	D001		DW	13	K	
2	16210	08-01-86		L	O	Toxic, carcinogenic, flammable labpack with containers of pyridine, 4-methyl-2-pentanone, pyrrolidine, propanol, xylene, and a solution of methanol and benzene from laboratory	WC01 D001 U239 WT01	U161 U196 F003	EHW	338.6	K	
3	16210	08-01-86	L	L	IO	Toxic solution of sodium/potassium sulfite, hydroquinone, potassium hydroxide, sodium carbonate, potassium bromide, ethylenediamine, and methylamino sulfate from photographic laboratory	WT02		DW	160	K	
4	16210	08-01-86	L	L	O	Toxic, persistent solution of poly(dimethylamino)-ethylene and (dimethylamino)-ethylene dichloride from plant operations	WT02	WP01	EHW	209	K	
5	16210	08-01-86		L	IO	Corrosive solution of potassium hydroxide, organophosphates, and sodium polymethacrylates from plant operations	D002		DW	627	K	
6	16210	08-01-86		L	O	Toxic, persistent empty drum that previously contained poly(dimethylamino) ethylene and (dimethylamino)-ethylene dichloride from plant operations	WT02	WP01	EHW	0	K	
7	16210	08-01-86		L	O	Toxic propylene glycol from automotive operation	WT02		DW	106	K	
8	16210	08-01-86		L	O	Toxic aryl phosphate ester from plant operations	WT01		EHW	53	K	
9	16210	08-01-86		L	I	Toxic tribuytl phosphate solution from plant operations	WT02		DW	53	K	
10	16210	08-01-86		L	O	Toxic ethylene glycol solution from automotive operation	WT02		DW	832	K	
11	16210	08-01-86		L	OI	Toxic, persistent solution of water with 10% mixed organics, including 1,1,1-trichloroethane and selenium from paint operation	F002 WT01	WP02 D010	EHW	220	K	
12	16210	08-01-86		L	IO	Toxic aqueous solution of potassium hydroxide, ethylenediaminetetraacetic acid, and organophosphates from plant operations	WT02		DW	53	K	
13	16210	08-01-86		L	OI	Carcinogenic, persistent, polycyclic aromatic hydrocarbon - asphalt, water surfactants, and hydrochloric acid solution from laboratory	WP03	WC01	EHW	218	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

1986 Form 4 **GENERATOR ANNUAL DANGEROUS WASTE REPORT** Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA7 3 9 0 0 0 8 9 6 7

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LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Sign	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. Method	K. For TSD Facility Use Only
1	16210	08-01-86		L	O	Toxic, reactive, carcinogenic polyurethane of diisocyanates from construction operation	WT01 WC01	D003	EHW	431	K	
2	16210	08-01-86		L	I	Toxic tributyl phosphate solution from plant operations	WT02		DW	204	K	
3	16210	08-01-86		L	I	Toxic potassium chloride solution from laboratory	WC02		DW	8	K	
4	16210	08-01-86		L	O	Toxic ethylene glycol (50%) aqueous solution from automotive operation	WT02		DW	44	K	
5	16210	08-01-86		L	I	Toxic empty drum which previously contained aqueous sodium thiosulfate, sodium acetate, and silver from photographic laboratory	D011		EHW	0	K	
6	16210	08-01-86		L	O	Toxic ethylene glycol and oil solution from automotive operation	WT02		DW	727	K	
7	16210	08-01-86	L	L	O	Toxic, persistent, carcinogenic solution of cesium chloride, water, chloroform, phenol, ether, and ethidium bromide from laboratory	WP01 WC01	WT01	EHW	17	K	
8	16210	08-01-86		L	O	Persistent empty drum previously containing poly(dimethylamino)-ethylene and (dimethylamino)-ethylene dichloride from plant operations	WP01		EHW	0	K	
9	16210	08-01-86	L	L	O	Toxic polyvinyl butyral from asbestos encapsulation process	WT02		DW	774	K	
10	16210	08-01-86	L	L	O	Toxic polyethyleneimine from plant operations	WT02		DW	250	K	
11	16210	08-01-86		S	I	Toxic zinc dust from paint operation	WT01		EHW	6	K	
12	16210	08-01-86	L	S	O	Toxic, persistent, carcinogenic mixture of brominated polyester resin and styrene from construction operation	WP01 WC01	WT01	EHW	276	K	
13	16210	08-01-86		L	O	Toxic solution of lubricating oils and greases from automotive operation	WT01		EHW	240	K	
14	16210	08-01-86		L	O	Toxic, flammable mixed solvents including methyl ethyl ketone, acetone and toluene from paint operation	F003 WT01	F005 D001	EHW	113	K	
15	16210	08-01-86	L	S	I	Toxic, persistent dried paint sludge containing chromium, lead, mercury, and vinyl chloride resin from paint operation	WT01 WP01 D009	D007 D008	EHW	75	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

1986 Form 4 **GENERATOR ANNUAL DANGEROUS WASTE REPORT** Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA7 8 9 0 0 0 8 9 6 7

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1	16210	08-01-86	L	L	O	Phenol from laboratory	U188	WT01	EHW	2.4	K	
2	16210	08-01-86	L	L	O	Toxic, reactive acetone cyanohydrin from laboratory	WT01	D003	EHW	3.5	K	
3	16210	08-01-86		L	O	Toxic, persistent, carcinogenic solution of phenol, chloroform, and ethidium bromide from laboratory	WT01 WC01	WP01	EHW	4	K	
4	16210	08-01-86		L	OI	Toxic, persistent solution of beta-vinyl-dichloro ansine, sodium chloride, fluoride, and sulfate compounds from basin clean-up operation	WT01	WC01	EHW	36	K	
5	16210	08-01-86	L	L	O	Polycyclic aromatic hydrocarbon oil solution from automotive operation	WP03		EHW	900	K	
6	16210	08-01-86	L	S	OI	Toxic, carcinogenic mixture of tin and thiourea from laboratory	WT02	WC01	EHW	11	K	
7	16210	08-01-86	L	S	O	Thiourea from laboratory	U219 WC01	WT01	EHW	45	K	
8	16210	08-01-86		S	O	Toxic, carcinogenic, absorbed tetrachloroethyene solution from plant operation	U210 WT01	WC02	EHW	227	K	
9	16210	08-01-86	L	L	O	Trichloroethylene from plant operations	U228 WT01	WP01 WC01	EHW	75	K	
10	16210	08-01-86		L	O	1,1,1-trichloroethane - empty drum	U226 WT01	WP01	EHW	0	K	
11	16210	08-01-86		L	I	Toxic, persistent empty drum which previously contained a solution of sodium pentachlorophenate and potassium hydroxide from plant operations	WT01	WP02	EHW	0	K	
12	16210	08-01-86		L	I	Toxic, persistent empty drum which previously contained a solution of sodium pentachlorophenate and potassium hydroxide from plant operations	WT01	WP02	EHW	0	K	
13	16210	08-01-86	L	L	O	1,1,1-trichloroethane - empty drum	U226 WT01	WP01	EHW	0	K	
14	16210	08-01-86		L	I	Metallic mercury from laboratory	D009 U151	WT01	EHW	2.3	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

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Seattle, Washington ZIP: 98134

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Status	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. Type of Container	K. For TSD Facility Use Only
1	16210	08-01-86		L	I	Toxic barium carbonate solution from laboratory	D005	WT02	DW	24.6	K	
2	16210	08-01-86		L	O	Toxic, persistent, carcinogenic labpack containing carbon tetrachloride and 1,1,1-trichloroethane	U211 WP01 U226	WC01 WT01	EHW	6.2	K	
3	16210	08-01-86		L	O	Toxic solution of oil with mixed organics which include methyl ethyl ketone, acetone, and toluene from automotive operation	WT01 F003	F005	EHW	17	K	
4	16325	11-24-86		L	OI	Toxic, carcinogenic, flammable solution of methyl ethyl ketone, hydrocarbons, methanol, paraffin, potassium silicate, potassium phosphate, ammonium hydroxide, isopropanol, and sodium chromate from paint operation	F003 F005 WC01	D007 WT01 D001	EHW	145	K	
5	16325	11-24-86		LG	OI	Toxic, persistent, flammable mixture of solvents including xylene, methyl ethyl ketone, mineral spirits, chlorooctane, and 3-bromoheptane with lead and chromium in resin sludge from paint operation	F005 D001 D008 F003	WP01 D007 WT01	EHW	525	K	
6	16325	11-24-86		L	O	Toxic, flammable methyl ethyl ketone (25%) aqueous solution from paint operation	F005 D001	WT02	DW	198.2	K	
7	16325	11-24-86		L	O	Toxic ethylene glycol (50%) aqueous solution from automotive operation	WT02		DW	800	K	
8	16310	11-07-86		L	OI	Toxic, carcinogenic, flammable paint mixture of epoxy resin, methyl isobutyl ketone, xylene, and lead chromate from paint operation	WT01 D001 D008	WC01 D007 F003	EHW	68	K	
9	16310	11-07-86		G	O	Toxic, carcinogenic, combustible solution of asbestos, xylene, and toluene from construction operation	WT02 WC01 F005	D001 F003	EHW	68	K	
10	16310	11-07-86		L	O	Toxic, carcinogenic, flammable solution of methyl isobutyl ketone, naphtha, xylene, toluene, isopropanol, ethylene glycol monoethyl ether, and diethylene triamine from construction operation	WT02 WC02 D001	F003 F005	DW	710	K	
11	16310	11-07-86		L	I	Toxic solution of manganese hydroxide and ammonium chloride from laboratory	WT02		DW	32	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

1986 Form 4 GENERATOR ANNUAL DANGEROUS WASTE REPORT Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA7890008967

14. RECEIVING FACILITY (TSD) EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

15. TRANSPORTER EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Sites	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. Waste Code Line	K. For TSD Facility Use Only
1	16310	11-07-86		L	I	Carcinogenic solution of ammonium chloride and ferric oxide from laboratory	WC01		EHW	21	K	
2	16310	11-07-86		S	I	Toxic, corrosive soil contaminated with phosphoric acid and chromium from tank clean-up operation	WT02 D002	D007	EHW	2,432	K	
3	16310	11-07-86		L	I	Toxic, corrosive empty drums which previously contained aqueous phosphoric acid and chromium	WT02 D002	D007	EHW	0	K	
4	16310	11-07-86		S	I	Toxic, corrosive mixture of insulation contamined with sodium hydroxide from construction operation	WT01	D002	EHW	136	K	
5	16310	11-07-86		S	OI	Toxic, corrosive, carcinogenic mixture of asbestos contaminated with sodium hydroxide from construction operation	WT01 WC01	D002	EHW	136	K	
6	16216	08-08-86	L	L	O	Toxic, carcinogenic, polycyclic aromatic hydrocarbon solution of spent creosote from construction operation	WT01 WP03	WC02	EHW	250	K	
7	16216	08-08-86		L	I	Toxic, corrosive ammonium hydroxide solution (21% aqueous) from blueprint machine	WT01	D002	EHW	103	K	
8	16216	08-08-86		L	I	Hydrofluoric acid from laboratory	U134 WT02	D002	DW	141	K	
9	16216	08-08-86		L	O	Toxic, flammable spent acetone from laboratory	WT02 F003	D001	DW	7	K	
10	16216	08-08-86		S	I	Flammable sodium hydrosulfite from laboratory	D001		DW	0.3	K	
11	16216	08-08-86	L	L	O	Benzene from laboratory	D001 U019	WC01 WT01	EHW	1.36	K	
12	16216	08-08-86	L	L	OI	Toxic, flammable, corrosive solution of methanol, ethanol, and aqueous sulfuric acid from laboratory	F003 D001	WT02 D002	DW	3.6	K	
13	16216	08-08-86	L	L	O	Flammable hexane from laboratory	D001		DW	1.25	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

1986 Form 4 GENERATOR ANNUAL DANGEROUS WASTE REPORT Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA/ 8 9 0 0 0 8 9 6 7

14. RECEIVING FACILITY (TSD)
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15. TRANSPORTER
EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
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16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Bulk	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. WECOGDHEI	K. For TSD Facility Use Only
1	16216	08-08-86		L	OI	Toxic, flammable, corrosive solution of butanol and aqueous perchloric acid from laboratory	WT02	D001	DW	4	K	
2	16216	08-08-86		L	O	Cyclohexane from laboratory	U056 WT01	D001	EHW	1.2	K	
3	16216	08-08-86		L	O	Propargyl alcohol from laboratory	WT01 P102	D001	EHW	6	K	
4	16216	08-08-86		L	O	Corrosive 2-methoxyethylamine from laboratory	D002		DW	7.6	K	
5	16216	08-08-86		L	O	Toluene from laboratory	U220 WT01	D001	EHW	1	K	
6	16216	08-08-86	L	L	OI	Flammable, toxic solution of ethanol and aqueous picric acid from laboratory	WT02	D002	DW	2.2	K	
7	16216	08-08-86		L	O	Toxic, flammable labpack of xylene and methanol from laboratory	U154 WT01	D001 U239	EHW	0.86	K	
8	16216	08-08-86		L	O	Acetone from laboratory	U002 WT02	D001	DW	0.76	K	
9	16216	08-08-86		L	O	Flammable butyl acetate from photographic laboratory	D001		DW	3.8	K	
10	16216	08-08-86		L	O	Flammable hexadone from laboratory	D001		DW	0.08	K	
11	16216	08-08-86		M	O	Persistent gas mixture of trichloromonoflouromethane and dichlorodifluoromethane from plant operations	WP01		EHW	2.2	K	
12	16216	08-08-86		L	O	Toxic, flammable solution of oil and xylene from laboratory	WT02 D001	F003	DW	3.2	K	
13	16216	08-08-86	L	L	O	Toxic, flammable, corrosive labpack of isoamylalcohol, butanol, and morpholine from laboratory	WT02 D001	D002	DW	3.02	K	
14	16216	08-08-86	L	S	I	Toxic magnesium chloride from laboratory	WT02		DW	7	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

1986 Form 4 GENERATOR ANNUAL DANGEROUS WASTE REPORT Form 4 1986

13. YOUR EPA/STATE ID NUMBER: WA789000896 7

14 RECEIVING FACILITY (TSD)
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NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP 98134

15 TRANSPORTER
EPA/STATE ID NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP 98134

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Status	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or FHW	I. Amount of Waste	J. WEIGHT	K. For TSD Facility Use Only
1	16216	08-08-86		L	O	Xylene from laboratory	U239 WT01	D001	EHW	0.9	K	
2	16216	08-08-86		L	O	Toxic, flammable solution of methanol, methyl isobutyl ketone, and isocyane from laboratory	WT02 D001	F003	DW	1.3	K	
3	16216	08-08-86		L	O	Toxic, persistent, carcinogenic labpack containing methylene chloride and chloroform from laboratory	WT01 WC01 U044	WP01 U080	EHW	5.8	K	
4	16216	08-08-86		L	O	Methanol from laboratory	U154 D001	WT02	DW	2.7	K	
5	16216	08-08-86		L	I	Metallic mercury from laboratory	U151 D009	WT01	EHW	10	K	
6	16216	08-08-86	L	L	I	Flammable, reactive ammonium sulfide aqueous solution from laboratory	D001	D003	DW	3	K	
7	16216	08-08-86		L	O	Corrosive crotonaldehyde from laboratory	WT01 D001	U053 D002	EHW	4	K	
8	16216	08-08-86	L	L	O	Toxic, flammable labpack containing octanol and ethyl acetate from laboratory	D001 WT02	U112	DW	1.71	K	
9	16216	08-08-86		L	O	Methyl alcohol from laboratory	U154 WT02	D001	DW	0.9	K	
10	16216	08-08-86		S	I	Toxic sodium fluoride from laboratory	WT02		DW	10	K	
11	16216	08-08-86		L	O	Toxic, flammable methanol solution (50% aqueous) from laboratory	F003 D001	WT02	DW	4	K	
12	16216	08-08-86		L	O	Toxic, carcinogenic, flammable solution of benzene, pyridine, ethyl ether, and petroleum ether from laboratory	D001 F003 WC01	F005 WT01	EHW	3.8	K	
13	16216	08-08-86		S	I	Corrosive sodium aluminate from laboratory	D002		DW	6.8	K	

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1986 Form 4 **GENERATOR ANNUAL DANGEROUS WASTE REPORT** Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA789000967

14. RECEIVING FACILITY (TSD) EPA/STATE I.D. NUMBER: WAD058367152
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15. TRANSPORTER EPA/STATE I.D. NUMBER: WAD058367152
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Seattle, Washington ZIP: 98134

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. State	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. WRCIDGDHE	K For TSD Facility Use Only
1	16216	08-08-86	L	L	OI	Toxic, corrosive, flammable, carcinogenic solution of potassium hydroxide, pyridine, toluene, pentane, benzene, petroleum ether, and diethyl ether from laboratory	F003 F005 D002	WC01 D001 WT01	EHW	1	K	
2	16216	08-08-86		L	O	Tetrachloroethylene from laboratory	U210 WT01	WC01	EHW	1.6	K	
3	16216	08-08-86		L	O	1,1,1-trichloroethane from laboratory	U226 WT01	WP01	EHW	0.25	K	
4	16216	08-08-86		S	I	Ignitable labpack containing cesium nitrate, sodium nitrate, potassium chlorate, and potassium permanganete from laboratory	D001		DW	5	K	
5	16216	08-08-86		S	I	Ignitable gadolinium nitrate from laboratory	D001		DW	0.5	K	
6	16216	08-08-86		L	O	Combustible butyl glycidyl ether solution from laboratory	D001		DW	4	K	
7	16216	08-08-86		L	O	Combustible, toxic labpack containing cummene and ethylaniline from laboratory	D001 WT01	U055	EHW	1.25	K	
8	16216	08-08-86		L	O	Flammable, toxic organic solution of pyridine, methylene chloride, acetone, toluene and hexane from laboratory	F002 F003 WT01	F005 D001	EHW	4	K	
9	16216	08-08-86		S	I	Toxic, carcinogenic potassium dichromate from laboratory	D007 WT01	WC01	EHW	2.7	K	
10	16216	08-08-86		L	O	Combustible labpack of 2-methoxyethyl acetate and tributylamine from laboratory	D001		DW	0.06	K	
11	16216	08-08-86		L	O	Combustible dimethyl formamide from laboratory	D001		DW	0.2	K	
12	16216	08-08-86		S	I	Ignitable potassium nitrate from laboratory	D001		DW	0.8	K	
13	16216	08-08-86		S	I	Toxic, carcinogenic labpack containing sodium dichromate and potassium dichromate from laboratory	WT01 D007	WC01	EHW	0.13	K	
14	16216	08-08-86		S	I	Toxic, corrosive sodium hydroxide from laboratory	D002	WT01	EHW	0.5	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

1986 Form 4 GENERATOR ANNUAL DANGEROUS WASTE REPORT Form 4 1986

12. YOUR EPA/STATE I.D. NUMBER: WA7890008967

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16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Bulk	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. Method Code	K. For TSD Facility Use Only
1	16216	08-08-86		S	O	Corrosive sulfamic acid from laboratory	D002		DW	0.002	K	
2	16216	08-08-86		S	I	Corrosive potassium pyrosulfate from laboratory	D002		DW	2	K	
3	16216	08-08-86		SL	I	Toxic, ignitable labpack containing hydrogen peroxide solution, sodium nitrite, aluminum nitrate, sodium nitrate, magnesium perchlorate, potassium nitrite, silver nitrate, lanthanium nitrate, and sodium nitrate solution from laboratory	WT01 D001	D011	EHW	5.45	K	
4	16216	08-08-86		L	OI	Combustible solution of tributyl phosphate and kerosene from laboratory	D001		DW	0.6	K	
5	16216	08-08-86		L	I	Ignitable, carcinogenic solution of hydrogen peroxide from laboratory	D001	WC02	DW	1.59	K	
6	16216	08-08-86	L	S	I	Ignitable, toxic ferric nitrate from laboratory	WT01	D001	EHW	1.58	K	
7	16216	08-08-86		S	I	Ignitable ammonium nitrate from laboratory	D001		DW	2.25	K	
8	16216	08-08-86		S	I	Toxic nickel chloride from laboratory	WT02		DW	4	K	
9	16216	08-08-86		L	I	Toxic, corrosive, reactive sodium sulfide solution from laboratory	D002 D003	WT02	DW	3	K	
10	16216	08-08-86		L	I	Corrosive, spent sulfuric acid solution from laboratory	D002		DW	1.3	K	
11	16216	08-08-86		S	I	Corrosive lithium hydroxide from laboratory	D002		DW	2.3	K	
12	16216	08-08-86		S	I	Toxic, corrosive barium hydroxide from laboratory	WT01 D002	D005	EHW	2.3	K	
13	16216	08-08-86		L	I	Toxic, corrosive, carcinogenic solution of sulfuric acid, nitric acid, and sodium bichromate from laboratory	D002 D007	WC01 WT01	EHW	0.5	K	
14	16216	08-08-86		S	O	Corrosive citric acid from laboratory	D002		DW	2.25	K	
15	16216	08-08-86	L	L	O	Combustible labpack containing decahydronaphthalene and ethylene glycol monomethyl ether from laboratory	D001		DW	0.35	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

FORM ECY 030 28 (Rev 11/86) 280 984

1986 Form 4 **GENERATOR ANNUAL DANGEROUS WASTE REPORT** Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA 7 8 9 0 0 0 8 9 6 7

14. RECEIVING FACILITY (TSD) EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
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15. TRANSPORTER EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
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Seattle, Washington ZIP: 98134

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Bulk	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. Method Code	K. For TSD Facility Use Only
1	16216	08-08-86		L	O	Combustible, toxic, persistent solution of pump oil and methylene chloride from laboratory	F002 WP01	D001 WT01	EHW	3.8	K	
2	16216	08-08-86		L	O	Combustible, toxic solution of nonane and trimethylbenzene from photographic laboratory	D001	WT02	DW	3.8	K	
3	16216	08-08-86		G	OI	Toxic, combustible mixture of petroleum distillates and metallic zinc from laboratory	WT01	D001	EHW	3	K	
4	16216	08-08-86		L	O	Toxic, combustible solution of butylcellosolve, butanol, pine oil, and petroleum oil from laboratory	D001	WT02	DW	4	K	
5	16216	08-08-86		L	I	Toxic, corrosive aqueous ammonium hydroxide from blueprint machine	WT01	D002	EHW	15.2	K	
6	16216	08-08-86		S	I	Ignitable potassium nitrate from laboratory	D001		DW	50	K	
7	16216	08-08-86		L	O	Combustible 2-ethoxy ethanol from laboratory	D001		DW	2	K	
8	16216	08-08-86		S	I	Ignitable labpack of sodium nitrate, potassium chlorate, and toxic, carcinogenic chromium oxide from laboratory	WC01 D007	D001 WT01	EHW	5.6	K	
9	16216	08-08-86		L	IO	Toxic, corrosive solution of aqueous phosphoric acid and diethyl-thiourea from laboratory	D002	WT02	DW	19.0	K	
10	16216	08-08-86		L	I	Corrosive solution of aqueous sulfuric and hydrofluoric acid from laboratory	D002		DW	3.8	K	
11	16216	08-08-86		L	IO	Corrosive solution of aqueous sulfuric acid with trace amounts cadmium sulfate, ferric chloride, methylene blue, and para-amino dimethyl aniline from laboratory	D002		DW	10	K	
12	16216	08-08-86		L	I	Corrosive, reactive sodium sulfide aqueous solution from laboratory	D002	D003	DW	5.45	K	
13	16216	08-08-86		L	I	Toxic, corrosive sodium hydroxide aqueous solution with lead from laboratory	D002 D008	WT02	DW	1	K	
14	16216	08-08-86		L	I	Toxic, corrosive aqueous chromic acid solution from laboratory	WT01 D002	D007	EHW	6	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

1986 Form 4 GENERATOR ANNUAL DANGEROUS WASTE REPORT Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA7 8 9 0 0 0 8 9 6 7

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16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Stream	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. Method	K. For TSD Facility Use Only
1	16216	08-08-86		L	I	Reactive potassium ferrocyanide solution from laboratory	D003		DW	0.9	K	
2	16216	08-08-86		L	I	Corrosive surfuryl chloride aqueous solution from laboratory	D002		DW	2	K	
3	16216	08-08-86		L	O	Toxic, corrosive acetic anhydride from laboratory	WT01	D002	EHW	1	K	
4	16216	08-08-86		L	I	Toxic, corrosive potassium hydroxide aqueous solution from laboratory	WT01	D002	EHW	2.5	K	
5	16216	08-08-86		L	I	Toxic, corrosive zinc chloride aqueous solution from laboratory	WT01	D002	EHW	1	K	
6	16216	08-08-86		L	I	Toxic, corrosive sulfuric acid aqueous solution from laboratory	WT02	D002	DW	3	K	
7	16216	08-08-86		L	O	Toxic, persistent, corrosive trichloroacetic acid solution from laboratory	D002 WP01	WT02	EHW	0.1	K	
8	16216	08-08-86		L	O	Benzene from laboratory	U019 WT01	D001 WC01	EHW	3.5	K	
9	16216	08-08-86		L	I	Toxic, corrosive, carcinogenic solution of sulfuric acid, nitric acid and sodium bichromate from laboratory	D002 D007	WC01 WT01	EHW	0.5	K	
10	16216	08-08-86		L	I	Toxic, carcinogenic, corrosive solution of aqueous sulfuric acid and potassium dichromate from laboratory	WT02 WC01	D002	EHW	5	K	
11	16216	08-08-86		L	I	Toxic, corrosive aqueous sodium hydroxide solution from laboratory	WT02	D002	DW	3	K	
12	16216	08-08-86		L	I	Toxic, corrosive phosphorous trichloride solution from laboratory	D002	WT01	EHW	0.9	K	
13	16216	08-08-86		S	I	Corrosive, reactive phosphorous pentoxide from laboratory	D002	D003	DW	1.59	K	
14	16216	08-08-86		L	OI	Toxic, ignitable, corrosive solution of xylene and di-2-ethyl-hexyl phosphoric acid from laboratory	F003 D001	D002 WT01	EHW	0.05	K	
15	16216	08-08-86		S	I	Toxic, corrosive sodium metasilicate from laboratory	WT02	D002	DW	3	K	
16	16216	08-08-86	L	S	I	Corrosive, reactive phosphorous pentoxide from laboratory	D002	D003	DW	7.2	K	
17	16216	08-08-86	L	L	I	Toxic, corrosive sodium metasilicate pentahydrate from laboratory	WT02	D002	DW	11.3	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

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13. YOUR EPA/STATE I.D. NUMBER: WA7 3 9 0 0 0 8 9 6 7

14. RECEIVING FACILITY (TSD) EPA/STATE I.D. NUMBER: WAD 0 5 8 3 6 7 1 5 2
NAME: Northwest Enviroservice, Inc.
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LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. State	D. Physical State S=Solid L=Liquid Q=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. Hydrocarbon Equivalent	K. For TSD Facility Use Only
1	16216	08-08-86	L	S	I	Corrosive, reactive, toxic potassium cyanide from laboratory	P098 D003	WT01 D002	EHW	0.2	K	
2	16216	08-08-86		L	I	Corrosive nickel sulfate aqueous solution with trace of boric acid from laboratory	D002		DW	6.7	K	
3	16216	08-08-86		L	I	Toxic, corrosive solution of aqueous sulfuric acid, aluminum sulfate, ammonium thiosulfate, boric acid, and sodium acetate from photographic laboratory	D002	WT02	DW	1	K	
4	16216	08-08-86		L	I	Corrosive aqueous solution trace amounts of picric and hydrochloric acids from laboratory	D002		DW	1.4	K	
5	16216	08-08-86		S	I	Toxic, corrosive titanium tetrachloride from laboratory	WT02	D002	DW	2.1	K	
6	16216	08-08-86		L	I	Toxic, corrosive aqueous solution with 1% nitric and 1% hydrofluoric acid from laboratory	WT02	D002	DW	2.8	K	
7	16216	08-08-86		S	OI	Toxic, corrosive labpack containing ethanolamine and sodium hydroxide from laboratory	WT01	D002	EHW	1.95	K	
8	16216	08-08-86		S	IO	Toxic, corrosive mixture of sodium hydroxide, sodium carbonate, and sodium hydroxyethylene diamine triacetate from laboratory	WT01	D002	EHW	1.35	K	
9	16216	08-08-86		L	I	Corrosive sodium hypochlorite aqueous solution from laboratory	D002		DW	5.4	K	
10	16216	08-08-86	L	L	I	Toxic, corrosive, aqueous solution of sodium difluoride and sodium nitrate from laboratory	D002	WT02	DW	1.45	K	
11	16216	08-08-86		S	O	Toxic, corrosive oxalic acid from laboratory	D002	WT01	EHW	2	K	
12	16216	08-08-86		S	O	Toxic, corrosive absorbed oxalic acid solution from laboratory	D002	WT01	EHW	2	K	
13	16216	08-08-86		L	IO	Corrosive, carcinogenic aqueous solution of hydrochloric acid (5%) and formaldehyde (0.2%) from laboratory	WC02	D002	DW	4	K	
14	16216	08-08-86	L	L	I	Corrosive aqueous solution with 1% hydrochloric and 0.2% picric acids from laboratory	D002		DW	0.5	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

1986 Form 4 GENERATOR ANNUAL DANGEROUS WASTE REPORT Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA7 8 9 0 0 0 8 9 6 7

14. RECEIVING FACILITY (TSD) EPA/STATE I.D. NUMBER: WA005836715 2
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

15. TRANSPORTER EPA/STATE I.D. NUMBER: WA005836715 2
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Status	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. WECOGDIE I	K. For TSD Facility Use Only
1	16216	08-08-86	L	S	O	Corrosive absorbed citric acid solution from laboratory	D002		DW	2.25	K	
2	16216	08-08-86		L	O	Corrosive phosphoric acid-bis-(2-ethylhexyl ester) from laboratory	D002		DW	0.45	K	
3	16216	08-08-86	L	S	I	Toxic, ignitable ferric nitrate from laboratory	D001	WT01	EHW	1.5	K	
4	16216	08-08-86		S	I	Corrosive lithium hydroxide from laboratory	D002		DW	1	K	
5	16216	08-08-86	L	L	O	Labpack of n-(aminothioxomethyl)-acetamide and hexachlorocyclohexane from laboratory	P002 WT01 U129	WP01 WC01	EHW	3.75	K	
6	16216	08-08-86		L	I	Toxic graphite and water solution with trace of ammonia from laboratory	WT02		DW	0.9	K	
7	16216	08-08-86		L	I	Toxic, reactive, aqueous solution of silicates, metal chlorides, mercury, arsenic, and mercuric thiocyanate from photographic laboratory	WT01 D009	D003	EHW	4.4	K	
8	16216	08-08-86		L	I	Carcinogenic aqueous solution with traces of sodium thiosulfate, potassium chloride, hydrochloric acid, beryllium sulfate, and thorium nitrate from laboratory	WC02		DW	5.4	K	
9	16216	08-08-86		L	I	Carcinogenic aqueous solution with traces of sodium thiosulfate, potassium chloride, hydrochloric acid, beryllium sulfate, and thorium nitrate from laboratory	WC02		DW	8	K	
10	16216	08-08-86		L	O	Toxic, carcinogenic, polycyclic aromatic hydrocarbon solution of coal tar distillates from laboratory	WT01 WC02	WP03	EHW	9	K	
11	16216	08-08-86	L	L	O	Persistent solution of poly(dimethylamino)-ethylene and (dimethylamino)-ethylene dichloride from plant operations	WP01		EHW	1	K	
12	16216	08-08-86		L	I	Toxic, corrosive sodium silicate solution from laboratory	WT02	D002	DW	0.4	K	
13	16216	08-08-86	L	S	I	Toxic, carcinogenic labpack containing beryllium sulfate and cupric sulfate from laboratory	WC01	WT01	EHW	3.5	K	
14	16216	08-08-86		L	I	Reactive, EP toxic lead sulfide aqueous solution from laboratory	D008	D003	EHW	10	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

1986 Form 4 **GENERATOR ANNUAL DANGEROUS WASTE REPORT** Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA7 8 9 0 0 0 8 9 6 7

14. RECEIVING FACILITY (TSD) EPA/STATE I.D. NUMBER: WAD 0 5 8 3 6 7 1 5 2
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

15. TRANSPORTER EPA/STATE I.D. NUMBER: WAD 0 5 8 3 6 7 1 5 2
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Solids	D. Physical State S=Solid L=Liquid Q=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	L. Amount of Waste	J. Method of Handling	K For TSD Facility Use Only
1	16216	08-08-86		L	OI	Toxic, persistent labpack containing a solution of carbon tetrachloride and dibutyl phosphonate, and a solution of tetrachloroethylene and tributyl phosphate from laboratory	F002	WP01	EHW	0.135	K	
2	16216	08-08-86		LS	IO	Toxic, carcinogenic, labpack of trisodium phosphate and dimethoxybenidine from laboratory	WT02 U091	WC01	EHW	1.85	K	
3	16216	08-08-86		L	IO	Toxic labpack containing persistent, carcinogenic solution of tributyl phosphate and carbon tetrachloride and a container of dinitrophenol from laboratory	WT01 WC01 P048	WP01 F001	EHW	0.85	K	
4	16216	08-08-86		S	I	Toxic copper sulfate from laboratory	WT01		EHW	5	K	
5	16216	08-08-86		L	I	Toxic, carcinogenic solution of aqueous potassium dichromate and trace sulfuric acid from laboratory	WC01	D007	EHW	2	K	
6	16216	08-08-86		L	I	Reactive potassium ferrocyanide from laboratory	D003		DW	1	K	
7	16216	08-08-86		L	O	Toxic, persistent solution of 1,1,1-trichloroethane and inert resin from laboratory	WT01 WP01	F001	EHW	0.5	K	
8	16216	08-08-86		L	IO	Labpack containing toxic tributyl phosphate solution and containing persistent methylene iodide from laboratory	WT02	WP01	EHW	1.75	K	
9	16216	08-08-86		L	O	Toxic, persistent methane sulfonyl chloride from laboratory	WP01	WT01	EHW	1	K	
10	16216	08-08-86		L	O	Aniline from laboratory	U012 D001	WT01	EHW	2.5	K	
11	16216	08-08-86		L	I	Toxic, reactive solution of aqueous silicates, metal chlorides and mercuric thiocyanate from photographic laboratory	WT01 D009	D003	EHW	2.2	K	
12	16216	08-08-86		S	I	Toxic silver chloride from laboratory	D011		EHW	0.2	K	
13	16216	08-08-86	L	S	I	Toxic labpack containing magnesium chloride, silver citrate, chromium chloride, barium sulfate, and a carcinogenic alloy of bismuth, cadmium, tin, and lead from laboratory	WT01 D006 D011 D005	WC01 D008 D007	EHW	1.95	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

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1986 Form 4 GENERATOR ANNUAL DANGEROUS WASTE REPORT Form 4 1986

13. YOUR EPA/STATE ID NUMBER: WA7 8 9 0 0 0 8 9 6 7

14. RECEIVING FACILITY (TSD) EPA/STATE ID NUMBER: WAD 0 5 8 3 6 7 1 5 2
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

15. TRANSPORTER EPA/STATE ID. NUMBER: WAD 0 5 8 3 6 7 1 5 2
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Sample	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. Waste Code Line	K. For TSD Facility Use Only
1	16216	08-08-86		S	I	Labpack of toxic mercuric oxide and toxic, carcinogenic arsenic trioxide from laboratory	D009 P012 WT01	D004 WC01	EHW	1	K	
2	16216	08-08-86		S	I	Arsenic trioxide from laboratory	P012 WT01	D004 WC01	EHW	1.35	K	
3	16216	08-08-86		L	I	Toxic potassium mercuric iodide solution from laboratory	D009	WT01	EHW	1	K	
4	16216	08-08-86		S	I	Reactive potassium ferrocyanide from laboratory	D003		DW	0.45	K	
5	16216	08-08-86		S	I	Potassium cyanide from laboratory	P098	WT01	EHW	0.85	K	
6	16216	08-08-86		SL	I	Toxic, carcinogenic labpack containing barium chloride, chromic oxide, chromic acetate, lead acetate, nickel sulfate, and phenyl mercuric acetate from laboratory	WT01 D005 WC01 P092	D007 U144 D008 D009	EHW	3.72	K	
7	16216	08-08-86	L	S	I	Arsenic acid from laboratory	P010 WT01	D004	EHW	0.1	K	
8	16216	08-08-86	L	S	I	Toxic, reactive zinc dust from laboratory	WT01	D003	EHW	3.18	K	
9	16216	08-08-86	L	S	O	Toxic labpack containing 1-acetyl-2-thioures and carcinogenic 1,3-diethyl-thiourea from laboratory	WT01 WC02	P002	EHW	1.55	K	
10	16216	08-08-86		L	I	Toxic tributyl phosphate solution from laboratory	WT02		DW	1	K	
11	16216	08-08-86	L	S	IO	Toxic mixture of 1% silver with rags, tubing and other clean-up material from laboratory	WT01	D011	EHW	3.6	K	
12	16216	08-08-86		L	I	Toxic aqueous solution of lead nitrate from laboratory	WT01	D008	EHW	2	K	
13	16216	08-08-86		S	I	Toxic metallic lead from laboratory	WT01	D008	EHW	1.4	K	
14	16216	08-08-86		S	I	Toxic mixture of bismuth, 7lead, tin, and cadmium	WT01 D006	D008	EHW	0.5	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

FORM ECY 030 28 (Rev 11/84) 268 984

1986 Form 4 **GENERATOR ANNUAL DANGEROUS WASTE REPORT** Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA7 8 9 0 0 0 8 9 6 7

14. RECEIVING FACILITY (TSD) EPA/STATE I.D. NUMBER: WAD 0 5 8 3 6 7 1 5 2
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

15. TRANSPORTER EPA/STATE I.D. NUMBER: WAD 0 5 8 3 6 7 1 5 2
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Bulk	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. Wrc Ond Ner	K. For TSD Facility Use Only
1	16216	08-08-86		S	I	Toxic mixture of copper, zinc, and aluminum from laboratory	WT01		EHW	0.5	K	
2	16216	08-08-86		S	I	Vanadium pentoxide from laboratory	P120	WT01	EHW	0.5	K	
3	16216	08-08-86		L	O	Nitrobenzene from laboratory	U169 D001	WT01	EHW	3	K	
4	16216	08-08-86		S	I	Arsenic acid from laboratory	P010 D004	WC01 WT01	EHW	0.01	K	
5	16216	08-08-86		S	I	Arsenic trioxide from laboratory	P012 D004	WC01 WT01	EHW	0.05	K	
6	16216	08-08-86		S	I	Toxic, carcinogenic cadmium chloride from laboratory	WT01 WC01	D006	EHW	2.1	K	
7	16216	08-08-86		L	I	Toxic aqueous solution of 1% mercury and trace amounts of sulfuric, nitric, hydrochloric, and phosphoric acid from laboratory	D009	WT01	EHW	2	K	
8	16216	08-08-86		S	O	Benzapyrene from laboratory	U022 WP03	WC01	EHW	0.003	K	
9	16216	08-08-86		S	I	Toxic rags used to absorb 1% of a solution of ammonium thiosulfate, sodium acetate, trace silver oxide and sulfuric acid from photographic laboratory	WT02		DW	7.5	K	
10	16216	08-08-86		L	O1	Toxic, reactive aqueous solution of silver, cyanide, and ethylenediamine from laboratory	D003 WT01	D011	EHW	1	K	
11	16216	08-08-86	L	S	I	Reactive potassium ferrocyanide from laboratory	D003		DW	1.5	K	
12	16216	08-08-86	L	L	I	Toxic aqueous solution with 80 ppm selenium from laboratory	WT02	D010	DW	2	K	
13	16216	08-08-86		S	I	Toxic labpack containing sodium phosphate, dibasic and sodium phosphate, tribasic from laboratory	WT02		DW	0.5	K	
14	16216	08-08-86		S	I	EP toxic sodium arsenate from laboratory	D004		EHW	4	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

1986 Form 4 GENERATOR ANNUAL DANGEROUS WASTE REPORT Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA7 8 9 0 0 0 8 9 6 7

14. RECEIVING FACILITY (TSD)
EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

15. TRANSPORTER
EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Sludge	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. Method	K. For TSD Facility Use Only
1	16216	08-08-86		L	I	Hydrazine, 34-40% aqueous solution, from laboratory	U133 D002 WC01	D003 WT01	EHW	6	K	
2	16216	08-08-86		S	I	Toxic absorbed aqueous solution of sodium acetate and ammonium thiosulfate from photographic laboratory	WT02		DW	2.7	K	
3	16216	08-08-86	L	LS	I	Toxic, ignitable, corrosive solution of nitric acid, hydrochloric acid, and hydrofluoric acid with sodium nitrate, sodium sulfate, ferric nitrate, and aluminum nitrate precipitate from laboratory	WT01 D001	D002	EHW	1.13	K	
4	16216	08-08-86	L	L	I	Metallic mercury from laboratory	WT01 D009	U151	EHW	1	K	
5	16216	08-08-86	L	L	IO	Toxic, carcinogenic, corrosive solution of chromous chloride, zinc chloride and hydrochloric acid with trace of octanol from laboratory	WT01 D002	D007 WC02	EHW	1	K	
6	16216	08-08-86	L	L	I	Metallic mercury from laboratory	U1512 D009	WT01	EHW	1.8	K	
7	16353	12-23-86		L	O	Toxic, persistent, flammable mixed organics including methyl ethyl ketone, 1,1,1-trichloroethane, and mineral spirits from paint operation	WT01 WP02 F001	D001 F005	EHW	200	K	
8	16353	12-23-86		L	OI	Toxic, persistent, carcinogenic aqueous solution of methylene chloride, cresylic acid, and sodium bichromate from automotive operation	F001 F004 WC01	WP01 WT01 D007	EHW	112	K	
9	16353	12-23-86		L	I	Toxic, persistent, corrosive aqueous solution of chlorinated hydrocarbons, and cresylic acid from automotive operation	D002 F004	WT01 WP01	EHW	446	K	
10	16353	12-23-86		L	O	Methyl alcohol from automotive operation	U154 D001	WT02	DW	74	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

FORM ECY 030-28 (Rev 11/86) 280-064

1986 Form 4 GENERATOR ANNUAL DANGEROUS WASTE REPORT Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA7 3 9 0 0 0 8 9 6 7

14. RECEIVING FACILITY (TSD)
EPA/STATE I.D. NUMBER: WAD 0 5 8 3 6 7 1 5 2
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

15. TRANSPORTER
EPA/STATE I.D. NUMBER: WAD 0 5 8 3 6 7 1 5 2
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Sludge	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. WECIDGDHET	K. For TSD Facility Use Only
1	16353	12-23-86		LG	OI	Toxic, carcinogenic, flammable aqueous solution of methyl ethyl ketone, methanol, aliphatics, hydrocarbons, isopropyl alcohol, sodium chromate, ammonium hydroxide, paraffin wax and potassium silicate and phosphate from paint operation	F005 WC01 D007	WT01 D001 F003	EHW	145	K	
2	16353	12-23-86		L	OI	Toxic, persistent, flammable aqueous solution of methyl ethyl ketone, mineral spirits, oil, chlorooctane, and 3-bromoheptane with 19.5 ppm chromium and 5 ppm lead from paint operation	F005 D001 D008	WP01 D007 WT01	EHW	175	K	
3	16353	12-23-86		L	OI	Toxic, flammable aqueous solution of mineral spirits, methyl ethyl ketone and chromium from paint operation	F005 D007	WT01 D001	EHW	175	K	
4	16353	12-23-86		L	OI	Toxic, flammable aqueous solution of mineral spirits, methyl ethyl ketone, xylene, chromium and lead from paint operation	F003 F005 D007	WT01 D001 D008	EHW	175	K	
5	16353	12-23-86		L	O	Toxic, flammable aqueous methyl ethyl ketone (25%) solution from paint operation	WT02	D001	DW	199	K	
6	16353	12-23-86		L	O	1,1,1-trichloroethane from plant operations	U226 WT01	WP01	EHW	70	K	
7	16353	12-23-86		L	OI	Toxic, carcinogenic aqueous solution of biphenyl a-glycinal ether, aromatic amine, and glass fiber from construction operation	WC01	WT02	EHW	69	K	
8	16353	12-23-86		L	O	Toxic, ignitable aqueous solution of biphenyl a-glycinal ether, phenol and aromatic hydrocarbons from construction operation	D001	WT02	DW	51	K	
9	16353	12-23-86		L	IO	Toxic, corrosive aqueous solution of alkali metasilicates and carbonates, sodium hydroxide, ethylene diamine tetraacetic acid, and surfactants from plant operations	D002	WT02	DW	195	K	
10	16353	12-23-86		L	O	Toxic, persistent, flammable solution of wood tar, xylene, acetone, and methylene chloride from laboratory	F002 F003 WT01	WP01 D001	EHW	7.6	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

1986 Form 4 **GENERATOR ANNUAL DANGEROUS WASTE REPORT** Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA7 8 9 0 0 0 8 9 6 7

14. RECEIVING FACILITY (TSD) EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

15. TRANSPORTER EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Sign	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. Method of Handling	K. For TSD Facility Use Only
1	16353	12-23-86		L	O	Toxic, persistent, carcinogenic, flammable solution of methylene chloride, acetone, benzene and hexane from laboratory	F002 F003 WT01	WC01 WP01 D001	EHW	7.6	K	
2	16353	12-23-86		L	O	Toxic, carcinogenic flammable solution of benzene and hexane from laboratory	WC01 WT01	D001	EHW	3.8	K	
3	16353	12-23-86		L	O	Toxic, carcinogenic, persistent, flammable solution of methylene chloride, acetonitrile, acetone, hexane, chloroform, ethanol, and benzene from laboratory	F002 WP01 WT01	F003 WC01 D001	EHW	3.8	K	
4	16353	12-23-86		L	O	Toxic, persistent, carcinogenic, flammable solution of methylene chloride, benzene and hexane from laboratory	F002 WP01 WT01	WC01 D001	EHW	3.8	K	
5	16353	12-23-86		L	O	Toxic, carcinogenic, persistent, flammable solution of methylene chloride, hexane, acetone, chloroform, and pentane from laboratory	F002 F003 D001	WP01 WC01 WT01	EHW	3.8	K	
6	16353	12-23-86		L	O	Toxic, persistent, carcinogenic, flammable solution of hexane, methyl t-butyl ether and chloroform from laboratory	WP01 WT01	WC01 D001	EHW	3.8	K	
7	16353	12-23-86		L	O	Toxic, persistent, carcinogenic, corrosive, flammable solution of acetic acid, acetone, acetonitrile, chloroform, hexane, benzene and methylene chloride from laboratory	WT01 WP01 F003 D002	WC01 F002 D001	EHW	8	K	
8	16353	12-23-86		L	O	1,1,1-trichloroethane from laboratory	U226 WT01	WP01	EHW	10	K	
9	16353	12-23-86		L	O	Toxic solution of water, methanol, and formaldehyde from laboratory	WT01	F003	EHW	15	K	
10	16353	12-23-86		L	O	Toxic, flammable solution of toluene from laboratory	F005 WT01	D001	EHW	4.5	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

1986 Form 4 **GENERATOR ANNUAL DANGEROUS WASTE REPORT** Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA7890008967

14. RECEIVING FACILITY (TSD) EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

15. TRANSPORTER EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Status	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. Type of Condition	K. For TSD Facility Use Only
1	16353	12-23-86		L	O	Toxic, flammable, carcinogenic, persistent solution of mixed organics which includes methanol, tetrahydrofuran, diethyl ether, carbon tetrachloride, dioxane, acetone, chloroform, pyridine borane, isooctane, hexane, methyl t-butyl ether, toluene, benzene, ethanol, butanol, and methylene chloride from laboratory	F002 F005 WP01 D001	F003 WC01 WT01	EHW	9.9	K	
2	16353	12-23-86		L	O	Toxic, carcinogenic, ignitable aqueous solution of isopropanol, methanol and phenol from laboratory	F003 WT01	WC01 D001	EHW	5	K	
3	16353	12-23-86		L	O	Toxic solution of dihydroxy acetone, benzyl alcohol, methanol and isooctane from laboratory	F003	WT02	DW	0.9	K	
4	16353	12-23-86		L	O	Toxic, persistent, carcinogenic, reactive, flammable solution of isooctane, boron trifluoride, methanol, hexane diisocyanate, chloroform, methylene chloride, benzene, acetone, carbon disulfide, trichlorotrifluoroethane and acetonitrile from laboratory	F002 F003 WC01 WT01	F005 WP01 D001 D003	EHW	13	K	
5	16353	12-23-86		S	I	Toxic, solution of sulfuric and nitric acids - neutralized and absorbed with lead, mercury, silver, arsenic and cadmium from laboratory	D008 D004 D011	D009 D006 WT02	EHW	20	K	
6	16353	12-23-86		L	O	Cyclohexanone from laboratory	U057 D001	WT01	EHW	34	K	
7	16353	12-23-86		G	OI	Toxic, ignitable mixture of naphtha and silicone from construction operation	WT01	D001	EHW	40	K	
8	16353	12-23-86		L	O	Ignitable, toxic, carcinogenic solution of xylene, benzene, naphthalene and mixed aliphatic hydrocarbons from laboratory	F003 D001	WT01 WC01	EHW	250	K	
9	16353	12-23-86		L	O	Ignitable, toxic, persistent solution of trichloromonofluoromethane, cresols, and mixed aliphatic hydrocarbons from laboratory	D001 F004 WP01	F002 WT01	EHW	250	K	
10	16353	12-23-86		S	I	Toxic sodium tetraborate from laboratory	WT02		DW	48.8	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

1986 Form 4 GENERATOR ANNUAL DANGEROUS WASTE REPORT Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA789000896 7

14. RECEIVING FACILITY (TSD)
EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington
ZIP: 98134

15. TRANSPORTER
EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington
ZIP: 98134

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Sample	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. WECODHEI	K. For TSD Facility Use Only
1	16353	12-23-86		S	I	Toxic, carcinogenic, reactive labpack containing cadmium, cadmium cyanide, cadmium oxide and zinc chloride from laboratory	WT01 WC01	D006 D003	EHW	23.1	K	
2	16353	12-23-86		LS	IO	Toxic labpack containing barium chloride and a carcinogenic formaldehyde solution from laboratory	WC01 WT01	F003 F005	EHW	3.74	K	
3	16353	12-23-86		L	I	Toxic aqueous sodium sulfite (95%) solution from laboratory	WT02		DW	8	K	
4	16353	12-23-86		L	I	Toxic, corrosive, carcinogenic solution of aqueous sulfuric and chromic acids from laboratory	D002 WC01	D007 WT01	EHW	33	K	
5	16353	12-23-86		L	I	Toxic, corrosive, aqueous hydrochloric acid (0.36%) solution from laboratory	WT02	D002	DW	1.8	K	
6	16353	12-23-86		L	I	Toxic, corrosive, aqueous phosphoric acid (80%) solution from laboratory	WT02	D002	DW	3.8	K	
7	16353	12-23-86		L	O	1,1,1-trichloroethane from plant operations	U226 WT01	WP01	EHW	38	K	
8	16353	12-23-86		S	I	Toxic, carcinogenic sodium chromate from laboratory	D007 WC01	WT01	EHW	26	K	
9	16353	12-23-86		S	I	Toxic, reactive mixture of aluminum oxide, calcium chloride, sulfur, and calcium sulfate from laboratory	WT02	D003	DW	7.93	K	
10	16353	12-23-86		S	O	Corrosive, toxic acetic anhydride from laboratory	WT01	D002	EHW	0.94	K	
11	16353	12-23-86		L	O	Toxic aqueous ethylene glycol (50%) solution from automotive operation	WT02		DW	800	K	
12	16353	12-23-86		L	I	Toxic, corrosive aqueous solution with trace amounts of potassium iodide, mercuric iodide and sodium hydroxide from plant operation	D002 WT02	D009	EHW	250	K	
13	16353	12-23-86		L	I	Reactive toxic, corrosive aqueous solution with trace amounts of mercuric sulfur cyanide, ferrous nitrate, and nitric acid from plant operations	WT02 D002	D009 D003	DW	250	K	
14	16353	12-23-86		L	IO	Corrosive aqueous solution with trace amounts of methanol, hydrochloric acid, and p-dimethylamino benaldehyde from plant operations	F003	D002	DW	250	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

1986 Form 4 **GENERATOR ANNUAL DANGEROUS WASTE REPORT** Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA7890008967

14. RECEIVING FACILITY (TSD) EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

15. TRANSPORTER EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Bulk	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. Method Code	K. For TSD Facility Use Only
1	16353	12-23-86		L	I	Toxic, corrosive aqueous solution with trace amounts of barium chloride and sodium hydroxide from laboratory	D002 WT02	D005	DW	114	K	
2	16353	12-23-86		L	IO	Corrosive aqueous solution with trace amounts of sulfuric acid, potassium dichromate, acetone, and diphenyl carbazide from laboratory	D002	F003	DW	15	K	
3	16353	12-23-86		L	IO	Toxic, corrosive aqueous solution of potassium hydroxide and surfactants from plant operation	WT01	D002	EHW	400	K	
4	16353	12-23-86		L	IO	Corrosive aqueous solution of ethylenediaminetetraacetic acid and sodium polymethacrylate from plant operations	D002		DW	200	K	
5	16353	12-23-86		L	I	Hydrazine aqueous (10%) solution from plant operations	U133 WC01	WT01	EHW	100	K	
6	16353	12-23-86		L	IO	Toxic, carcinogenic, corrosive aqueous solution sodium hydroxide, sulfuric acid, hydrochloric acid, nitric acid, formaldehyde, selenium, mercury and beryllium from laboratory	WT01 D002 D009	WC02 D010	EHW	4	K	
7	16353	12-23-86	L	L	I	Toxic, corrosive sulfuric acid solution from automotive operation	WT02	D002	DW	15	K	
8	16353	12-23-86	L	L	I	Toxic sodium hypochlorite (5%) aqueous solution from laboratory	WT01		EHW	2	K	
9	16353	12-23-86		L	O	Toxic, corrosive, persistent solution of chloroform and phenol from laboratory	WT01 WP01	WC01	EHW	20	K	
10	16353	12-23-86	L	S	I	Sodium azide from laboratory	P105 D003	WT01	EHW	0.1	K	
11	16353	12-23-86		L	I	Toxic aqueous solution with aryl polyhydric alcohol and p-tertiaryoctylphenoxy-polyethyl alcohol from photochemical laboratory	WT02		DW	0.23	K	
12	16353	12-23-86		S	I	Toxic ammonium chloride from laboratory	WT02		DW	0.45	K	
13	16353	12-23-86		L	O	Toxic, persistent, flammable solution of stoddard solvent, methyl benzene, propane, butane, methylene chloride, toluene and hydrocarbon solvent from paint operation	WT01 WP01	D001	EHW	20	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

1986 Form 4 GENERATOR ANNUAL DANGEROUS WASTE REPORT Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA7890008967

14. RECEIVING FACILITY (TSD)
EPA/STATE ID NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 99134

15. TRANSPORTER
EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Sludge	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. Method Code	K. For TSD Facility Use Only
1	16353	12-23-86		L	IO	Toxic aqueous solution of potassium hydroxide, hydroquinone, sodium/potassium carbonate, sodium/potassium sulfite and ethylenediamine from photographic laboratory	WT02		DW	127	K	
2	16353	12-23-86		S	I	Toxic, carcinogenic crushed fluorescent cadmium and mercury light bulbs from maintenance operation	D006 WC02	D009 WT02	EHW	91	K	
3	16353	12-23-86		G	I	Toxic, ignitable aqueous slurry of metal nitrates including lead nitrate, chromium nitrate and barium nitrate from laboratory	WT02 D005 D008	D001 D007	DW	200	K	
4	16353	12-23-86		G	I	Toxic, ignitable aqueous slurry of metal nitrates including barium nitrate, cadmium nitrate, chromium nitrate, selenium nitrate, and silver nitrate from laboratory	D001 D006 D010 WT01	D005 D007 D011	EHW	350	K	
5	16353	12-23-86		S	I	Toxic, ignitable aluminum nitrate from laboratory	D001	WT02	DW	182	K	
6	16353	12-23-86		S	I	Toxic, ignitable silver nitrate from laboratory	D001 D011	WT01	EHW	20	K	
7	16353	12-23-86		G	I	Toxic, ignitable slurry of metal nitrates including barium nitrate, chromium nitrate and lead nitrate from laboratory	WT01 D008	D005	EHW	210	K	
8	16353	12-23-86		L	I	Toxic, corrosive glacial hydrochloric acid from laboratory	D002	WT02	DW	0.9	K	
9	16353	12-23-86		L	I	Toxic, corrosive aqueous solution of hydrofluoric and nitric acids from laboratory	D002	WT01	EHW	0.5	K	
10	16353	12-23-86		L	O	Toxic aqueous solution with alkyl hydroxylamine and hydroquinone from plant operations	WT02		DW	200	K	
11	16353	12-23-86	L	L	IO	Toxic, corrosive labpack containing glacial acetic acid and glacial hydrochloric acid from laboratory	D002	WT01	EHW	7	K	
12	16353	12-23-86		S	I	Ignitable potassium nitrate from laboratory	D001		DW	1.1	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

1986 Form 4 **GENERATOR ANNUAL DANGEROUS WASTE REPORT** Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA7 8 9 0 0 0 8 9 6 7

14. RECEIVING FACILITY (TSD) EPA/STATE I.D. NUMBER: WAD 0 5 8 3 6 7 1 5 2
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

15. TRANSPORTER EPA/STATE I.D. NUMBER: WAD 0 5 8 3 6 7 1 5 2
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Sign S	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. Process Code	K For TSD Facility Use Only
1	26213	08-08-86		L	I	Hydrazine 30-34% aqueous - empty drums	U133 D002	WT01 WC01	EHW	0	K	
2	26213	08-08-86		L	I	Hydrazine 30-34% aqueous - empty drums	U133 D002	WT01 WC01	EHW	0	K	
3	26213	08-08-86		L	I	Hydrazine 30-34% aqueous - empty drums	U133 D002	WT01 WC01	EHW	0	K	
4	26213	08-08-86		L	IO	Toxic, carcinogenic solution of automotive oil and hydrazine from plant operations	WT01	WC01	EHW	110	K	
5	26213	08-08-86		L	I	Toxic, ignitable cadmium nitrate (98%) aqueous solution from plant operations	D001 D006	WT01	EHW	0	K	
6	26213	08-08-86		L	I	Toxic, ignitable cadmium nitrate (98%) aqueous solution from plant operations	D001 D006	WT01	EHW	0	K	
7	26213	08-08-86	L	L	O	Toxic, flammable, organic solution of methyl ethyl ketone, acetone, toluene, xylene and mineral spirits from paint operations	F003 F005	WT01 D001	EHW	230	K	
8	26213	08-08-86		L	OI	Toxic, persistent organic solution of halogenated hydrocarbons and lead from paint operations	WP02 D008	WT01	EHW	150	K	
9	26213	08-08-86		L	IO	Toxic, flammable solution of methyl ethyl ketone with lead and chromium pigments from paint operation	D001 D007 F005	WT01 D008	EHW	827	K	
10	16213	08-01-86		L	I	Corrosive, EP toxic aqueous nitric acid (2%) solution with selenium from laboratory	D002 WT02	D010	DW	20	K	
11	16213	08-01-86		L	I	Corrosive, EP toxic aqueous nitric acid (2%) solution with arsenic from laboratory	D004 WT02	D002	DW	20	K	
12	16213	08-01-86		L	I	Toxic, corrosive aqueous nitric acid (2%) solution with arsenic, lead, and selenium from laboratory	D008 D004 WT01	D010 D002	EHW	20	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

FORM ECY 030-28 (Rev 11/86) 200 984

1986 Form 4 GENERATOR ANNUAL DANGEROUS WASTE REPORT Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA789000897

14. RECEIVING FACILITY (TSD)
EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

15. TRANSPORTER
EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Site	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. Method Code	K. For TSD Facility Use Only
1	16213	08-01-86		L	I	Toxic, corrosive aqueous sulfuric acid solution from laboratory	D002	WT02	DW	8.6	K	
2	16213	08-01-86		L	I	EP Toxic, corrosive selenic acid solution from laboratory	D010	D002	EHW	1	K	
3	16213	08-01-86		L	I	Corrosive aqueous solution with 1% nitric and hydrofluoric acids from laboratory	D002		DW	2.8	K	
4	16213	08-01-86		L	I	Toxic, corrosive aqueous solution of potassium hydroxide, sodium polymethacrylate and organophosphonates from plant operations	D002	WT02	DW	280	K	
5	16213	08-01-86		L	I	Toxic, corrosive aqueous sodium hydroxide (30%) solution from laboratory	WT01	D002	EHW	209	K	
6	16213	08-01-96		L	I	Toxic, corrosive aqueous ammonium hydroxide (21%) solution from blueprint machine	WT01	D002	EHW	33.25	K	
7	16213	08-01-86		L	O	Methylene chloride - empty drums	U080 WT01	WP01	EHW	0	K	
8	16213	08-01-86		L	O	Toxic, ignitable solution of nonane and trimethylbenzene from paint operation	D001	WT02	DW	168	K	
9	16213	08-01-86		L	O	Toxic, flammable solution of aliphatic hydrocarbons with trimethylbenzene and tetramethylbenzene from paint operation	WT02	D001	DW	340	K	
10	16213	08-01-86		L	O	Labpack of xylene and pyridine from laboratory	U239 D001	U196 WT01	EHW	23.8	K	
11	16213	08-01-86		L	I	Toxic, corrosive, ignitable solution of metal nitrates with chromium from from laboratory	D001 D002	D007 WT02	DW	15.7	K	
12	16213	08-01-86		L	O	Persistent solution of oil in freon drums from automotive operation	WP01		EHW	200	K	
13	16213	08-01-86		L	OI	Toxic, carcinogenic solution of oil in hydrazine drums from automotive operation	WC01	WT01	EHW	848	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

1986 Form 4 GENERATOR ANNUAL DANGEROUS WASTE REPORT Form 4 – 1986

13. YOUR EPA/STATE I.D. NUMBER: WA789000896 7

14. RECEIVING FACILITY (TSD) EPA/STATE I.D. NUMBER: WAD 058 3 6 7 1 5 2
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

15. TRANSPORTER EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Bulk	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. Method Code	K. For TSD Facility Use Only
1	16213	08-01-86		L	I	Toxic aqueous solution of n-alkyl dimethyl benzyl ammonium chloride, and bis(tri-n-butyltin) oxide from plant operations	WT02		DW	206	K	
2	16213	08-01-86	L	L	O	Toxic polyethyleneimine from laboratory	WT02		DW	238	K	
3	16213	08-01-86		L	OI	Toxic, persistent aqueous solution of potassium hydroxide and sodium pentachlorophenate from plant operations	WP02 WT01	F027	EHW	0	K	
4	16213	08-01-86		L	IO	Toxic aqueous solution of acetic acid, oxalic acid, sodium chloride, and sodium sulfate from laboratory	WT02		DW	227	K	
5	16213	08-01-86		S	O	Toxic, carcinogenic, persistent mixture of brominated polyester resin and styrene from construction operation	WT01 WC01	WP01	EHW	205	K	
6	16213	08-01-86		L	I	Hydrazine 30-35% aqueous - empty drums	U133 D002	WT01 WC01	EHW	0	K	
7	16213	08-01-86		L	I	Hydrazine 30-34% aqueous solution from plant operations	U133 D002	WT01 WC01	EHW	270	K	
8	16213	08-01-86		L	I	Toxic, corrosive aqueous sulfuric acid solution from laboratory	WT02	D002	DW	33.3	K	
9	16213	08-01-86		L	I	Toxic, corrosive sodium hydroxide (50%) aqueous solution from plant operations	D002	WT02	DW	159	K	
10	16213	08-01-86		S	I	Toxic, corrosive, carcinogenic mixture of sodium hydroxide in hydrazine drum from plant operations	D002 WT01	WC01	EHW	110	K	
11	16213	08-01-86		L	O	Toxic, in solution of methyl ethyl ketone from laboratory	F005	WT02	DW	948	K	
12	16213	08-01-86		L	O	Ignitable, toxic, in solution of methyl ethyl ketone from laboratory	F003 WT02	D001	DW	149.7	K	
13	16213	08-01-86		L	I	Ignitable, corrosive, in solution of nitric acid from laboratory	D001	D002	DW	16.0	K	
14	16213	08-01-86		S	I	Toxic, lead oxide, chromium nitrate from laboratory	D001 D007	D008 WT01	EHW	10.5	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

1986 — Form 4 **GENERATOR ANNUAL DANGEROUS WASTE REPORT** Form 4 — 1986

13. YOUR EPA/STATE I.D. NUMBER: WA7 8 9 0 0 0 8 9 6 7

14. RECEIVING FACILITY (TSD) EPA/STATE I.D. NUMBER: WAD 0 5 8 3 6 7 1 5 2
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

15. TRANSPORTER EPA/STATE I.D. NUMBER: WAD 0 5 8 3 6 7 1 5 2
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Bulk	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. Method	K. For TSD Facility Use Only
1	16213	08-01-86		L	I	Ignitable toxic, solution of aluminum nitrate from laboratory	D001	WT01	EHW	1,136	K	
2	16213	08-01-86		L	O	Toxic, ignitable, organic solution of acetone, toluene, methyl ethyl ketone and mineral spirits from paint operations	F003 F005	WT01 D001	EHW	400	K	
3	16213	08-01-86		L	O	Ignitable, solution of naptha from construction operations	D001		DW	250	K	
4	26353	12-23-86		S	I	Toxic, antimony trioxide from laboratory	WT02		DW	4.5	K	
5	26353	12-23-86		L	IO	Persistent, ignitable, reactive, ethyl chloride from laboratory	WP01 D003	D001	EHW	0.1	K	
6	26353	12-23-86	L	L	O	Benzene from laboratory	U019 WT01	WC01 D001	EHW	0.22	K	
7	26353	12-23-86		L	O	Dioxane from laboratory	U108 D001	WT02	DW	0.35	K	
8	26353	12-23-86		L	O	Formaldehyde from laboratory	WT01 WC01	U122	EHW	0.9	K	
9	26353	12-23-86	L	L	O	Formaldehyde from laboratory	U122 WC01	WT01	EHW	30	K	
10	26353	12-23-86		L	O	Ignitable, hexane solution from laboratory	D001		DW	0.3	K	
11	26353	12-23-86		L	O	Ignitable, kerosene from laboratory	D001		DW	3.6	K	
12	26353	12-23-86		L	O	Methyl alcohol from laboratory	U154 D001	WT02	DW	0.18	K	
13	26353	12-23-86		L	O	Ignitable, aluminum metallic powder from laboratory	D001		DW	0.05	K	
14	26353	12-23-86		L	I	Ignitable, magnesium perchlorate from laboratory	D001		DW	0.45	K	
15	26353	12-23-86	L	S	I	Toxic, ignitable, mercuric nitrate from laboratory	WT01 D001	D009	EHW	1.01	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

FORM ECY 030 28 (Rev 11/86) 280 W64

1986 Form 4 GENERATOR ANNUAL DANGEROUS WASTE REPORT Form 4 – 1986

13. YOUR EPA/STATE I.D. NUMBER: WA7890008967

14. RECEIVING FACILITY (TSD) EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

15. TRANSPORTER EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
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Seattle, Washington ZIP: 98134

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Status	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. Method Code	K For TSD Facility Use Only
1	26353	12-23-86	L	S	I	Toxic, ignitable, chromium, cobalt, ceric ammonium nitrates from laboratory	D001	D007	EHW	0.67	K	
2	26353	12-23-86		S	I	Ignitable, sodium nitrate, cerium nitrate from laboratory	D001		DW	0.55	K	
3	26353	12-23-86		S	I	Ignitable, potassium nitrate from laboratory	D001		DW	1.1	K	
4	26353	12-23-86	L	S	I	Toxic, ignitable potassium nitrite from plant operations	WT02	D001	DW	18	K	
5	26353	12-23-86	L	S	I	Ignitable, potassium permanganate from laboratory	D001		DW	0.1	K	
6	26353	12-23-86		S	I	Ignitable, reactive, sodium perchlorate from laboratory	D001	D003	DW	0.45	K	
7	26353	12-23-86		L	O	Methylene chloride from laboratory	WT01 U080	WP01	EHW	0.5	K	
8	26353	12-23-86		L	O	Methylene chloride from plant operations	U080 WP01	WT01	EHW	0.2	K	
9	26353	12-23-86		L	O	Toxic, persistent, carcinogenic, methylene chloride in solution from plant operations	WT01 WP01	WC01	EHW	0.9	K	
10	26353	12-23-86	L	S	I	Lead acetate from plant operations	U144	WT01	EHW	6.5	K	
11	26353	12-23-86	L	L	O	Phenol from laboratory	U188	WT01	EHW	0.5	K	
12	26353	12-23-86		S	I	Potassium cyanide from laboratory	P098 WT01	D003	EHW	0.2	K	
13	26353	12-23-86	L	L	OI	Corrosive, toxic, carcinogenic, formaldehyde, heavy metals, hydrochloric acid, nitric acid, sulfuric acid from plant operations	D002 D006 D010 WT01	D007 D009 WC02	EHW	2.2	K	
14	26353	12-23-86	L	L	OI	Corrosive, toxic, carcinogenic, beryllium, mercury, formaldehyde, hydrochloric acid from plant operations	D002 D009	WC02 WT01	EHW	2.2	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

1986 Form 4 **GENERATOR ANNUAL DANGEROUS WASTE REPORT** Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA 7 8 9 0 0 0 8 9 6 7

14. RECEIVING FACILITY (TSD) EPA/STATE I.D. NUMBER: WAD 0 5 8 3 6 7 1 5 2
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

15. TRANSPORTER EPA/STATE I.D. NUMBER: WAD 0 5 8 3 6 7 1 5 2
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. State	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. WCC (CODE)	K. For TSD Facility Use Only
1	26353	12-23-86	L	S	I	Corrosive, carcinogenic, potassium hydroxide, hydrazine sulfate from laboratory	D002	WC01	EHW	0.55	K	
2	26353	12-23-86	L	S	I	Corrosive, toxic, barium hydroxide from laboratory	D002 D005	WT01	EHW	0.5	K	
3	26353	12-23-86	L	S	O	Corrosive, 4-hexylresorcinol from laboratory	D002		DW	0.01	K	
4	26353	12-23-86		S	O	Corrosive, toxic, m-cresol, oxalic acid from laboratory	U052 D002	WT01	EHW	0.3	K	
5	26353	12-23-86		L	I	Corrosive, lithium hydroxide, in solution from laboratory	D002		DW	0.45	K	
6	26353	12-23-86		S	I	Corrosive, toxic, sodium hydroxide from laboratory	WT02	D002	DW	0.03	K	
7	26353	12-23-86		S	O	Corrosive, carcinogenic, polystyrene polymer divinyl benzene sulfonic acid/water from laboratory	WC02	D002	DW	0.8	K	
8	26353	12-23-86		S	I	Corrosive, reactive, toxic, lithium hydroxide, thiocyanic acid, boron phosphate from laboratory	D002 D003	P030 WT01	EHW	5.4	K	
9	26353	12-23-86		S	I	Corrosive, sodium calcium hydrate from laboratory	D002		DW	1.0	K	
10	26353	12-23-86		S	I	Corrosive, sodium hydroxide from laboratory	D002		DW	0.45	K	
11	26353	12-23-86		S	01	Corrosive, toxic, ammonium oxalate, oxalic acid, sodium dodecyl benzene sulfonate from plant operations	D002	WT02	DW	3	K	
12	26353	12-23-86		S	I	Corrosive, toxic, carcinogenic, potassium hydroxide, potassium permanganate, potassium chromate from plant operations	D002 D007	WC01 WT01	EHW	3	K	
13	26353	12-23-86	L	L	O	Ignitable, corrosive, 1,8-hexanediamine, ethylenediamine, in solution from laboratory	D001	D002	DW	0.52	K	
14	26353	12-23-86		L	IO	Corrosive, methylene chloride, formic acid, cresylic acid in solution from laboratory	F002	D002	EHW	0.5	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

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1986 Form 4 GENERATOR ANNUAL DANGEROUS WASTE REPORT Form 4 — 1986

13. YOUR EPA/STATE I.D. NUMBER: WA789000897

14. RECEIVING FACILITY (TSD) EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

15. TRANSPORTER EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Bulk	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. Type Code	K. For TSD Facility Use Only
1	26353	12-23-86		L	O	M-cresol from laboratory	U052 D002	WT01	EHW	1.0	K	
2	26353	12-23-86		L	O	Corrosive, persistent, solution of trichloroacetic acid from laboratory	D002	WP01	EHW	0.1	K	
3	26353	12-23-86	L	L	I	Corrosive, solution of sodium hydroxide, potassium permanganate from plant operations	D002		DW	7.6	K	
4	26353	12-23-86	L	L	I	Corrosive, solution of sulfuric acid, nitric acid, hydrofluoric acid from plant operations	D002		DW	6	K	
5	26353	12-23-86	L	L	I	Corrosive, carcinogenic, toxic, solution of sulfuric acid, hydrochloric acid, chromium from plant operations	D002 D007	WC02 WT01	EHW	7	K	
6	26353	12-23-86	L	L	OI	Corrosive, solution of hydrofluoric acid, sulfuric acid, methanol, butanol from plant operations	D002		DW	3.6	K	
7	26353	12-23-86	L	L	I	Corrosive, solution of sulfuric acid, hydrofluoric acid from plant operations	D002		DW	6.5	K	
8	26353	12-23-86	L	L	I	Corrosive, solution of hydrofluoric acid, sulfuric acid, nitric acid from plant operations	D002		DW	45	K	
9	26353	12-23-86	L	L	I	Corrosive, solution of sulfuric acid, nitric acid from plant operations	D002		DW	5	K	
10	26353	12-23-86		S	I	Reactive, ferric chloride from laboratory	D003		DW	0.9	K	
11	26353	12-23-86		S	I	Reactive, corrosive, phosphorus tribromide from laboratory	D003	D002	DW	0.9	K	
12	26353	12-23-86		S	I	Toxic, sodium hydrogen sulfate from laboratory	WT02		DW	0.45	K	
13	26353	12-23-86		S	I	Toxic, corrosive, sodium hydroxide from plant operations	WT01	D002	EHW	16	K	
14	26353	12-23-86		L	I	Corrosive, toxic, solution of sodium hydroxide from laboratory	D002	WT02	DW	0.85	K	
15	26353	12-23-86	L	L	O	Toxic, persistent, carcinogenic, solution of carbon tetrachloride from plant operations	U211 WC01	WP01 WT01	EHW	0.9	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

1986 Form 4 GENERATOR ANNUAL DANGEROUS WASTE REPORT Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA7890008967

14. RECEIVING FACILITY (TSD)
EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

15. TRANSPORTER
EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Stream	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. Method Code	K. For TSD Facility Use Only
1	26353	12-23-86	L	L	O	Corrosive, reactive, solution of thioglycolic acid from laboratory	D002	D003	DW	0.72	K	
2	26353	12-23-86		H	O	Ignitable, compressed gas of petroleum distillates, mixed glycol ethers, hexylene glycol, isopropanol, carbon dioxide from laboratory	D001		DW	0.3	K	
3	26353	12-23-86		L	OI	Ignitable, reactive solution of hexane diisocyanate from laboratory	D001	D003	DW	0.03	K	
4	26353	12-23-86	L	L	O	Ignitable, corrosive, solution of isoamyl alcohol, 1-butanol, morpholine from laboratory	D001	D002	DW	3.02	K	
5	26353	12-23-86	L	L	O	Ignitable, solution of cyclohexane from laboratory	D001		DW	0.25	K	
6	26353	12-23-86		L	O	Ignitable, solution of naptha, methanol, ethanol, cellosolve from laboratory	D001	F003	DW	10.05	K	
7	26353	12-23-86		L	O	Ignitable, reactive, solution of 2-ethoxy ethyl ether from laboratory	D001	D003	DW	1	K	
8	26353	12-23-86		L	I	Ignitable, toxic, solution of cadmium, boron from laboratory	F003 D001	D006 WT01	EHW	1.9	K	
9	26353	12-23-86		L	O	Ignitable, toxic, solution of methanol, xylene from laboratory	F003 WT01	D001	EHW	0.86	K	
10	26353	12-23-86		L	O	Ignitable, toxic, solution of acetone, toluene from laboratory	F003 D001	F005 WT01	EHW	0.5	K	
11	26353	12-23-86		L	OI	Ignitable, toxic, solution of toluene, silica, butanol from laboratory	D001 WT01	F003 F005	EHW	0.5	K	
12	26353	12-23-86		L	O	Ignitable, persistent, toxic, solution of epoxy polyamide from plant operations	D001 WP03	F003 WT02	EHW	3.8	K	
13	26353	12-23-86		S	I	Toxic, ammonium fluoride from laboratory	WT01		EHW	1.5	K	
14	26353	12-23-86		S	I	Corrosive, toxic, zinc chloride from laboratory	D002	WT01	EHW	0.9	K	
15	26353	12-23-86		L	O	Sodium azide from laboratory	P105	WT01	EHW	10	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

1986 Form 4 **GENERATOR ANNUAL DANGEROUS WASTE REPORT** Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA789000897

14. RECEIVING FACILITY (TSD) EPA/STATE I.D. NUMBER: WAD058367152
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ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

15. TRANSPORTER EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Status	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. Method Code	K. For TSD Facility Use Only
1	26353	12-23-86		S	I	Toxic, reactive, sodium cyanide, potassium cyanide, mercuric chloride from laboratory	P016 P098 WT01	D003 D009	EHW	0.8	K	
2	26353	12-23-86		S	I	Toxic, carcinogenic, potassium cyanide, mercuric oxide, arsenic pentoxide from laboratory	WT01 D004 D009	P098 P011 WC01	EHW	1	K	
3	26353	12-23-86	L	L	OI	Ignitable, corrosive, solution of acetaldehyde, nitric acid from laboratory	D001	D002	DW	0.5	K	
4	26353	12-23-86		S	I	Ignitable, ammonium persulfate from laboratory	D001		DW	0.45	K	
5	26353	12-23-86		L	O	Corrosive, solution of phosphoric acid, bis(2-ethy hexyl ester) from laboratory	D002		DW	0.45	K	
6	26353	12-23-86		L	O	Formaldehyde from laboratory	WC01 D001	U122	EHW	0.2	K	
7	26353	12-23-86	L	S	I	Toxic, ignitable, barium nitrate from laboratory	D005 D001	WT01	EHW	3	K	
8	26353	12-23-86		S	I	Ignitable, corrosive, chromic acid from laboratory	D001 D002	D007 WT02	DW	0.45	K	
9	26353	12-23-86		L	I	Ignitable, toxic, corrosive, carcinogenic, solution of chromic acid from laboratory	D001 D002 WC01	D007 WT01	EHW	14.1	K	
10	26353	12-23-86		S	O	Toxic, paraformaldehyde from laboratory	WT02		DW	1	K	
11	26353	12-23-86	L	L	I	Corrosive, cupric sulfate, sodium/potassium tartrate, sodium hydroxide from laboratory	D002		DW	0.58	K	
12	26353	12-23-86	L	L	I	Corrosive, cupric sulfate, sodium/potassium tartrate, sodium hydroxide from laboratory	D002		DW	0.58	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

1986 Form 4 **GENERATOR ANNUAL DANGEROUS WASTE REPORT** Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA789008967

14. RECEIVING FACILITY (TSD) EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

15. TRANSPORTER EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Sign	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. WTC ID NUMBER	K. For TSD Facility Use Only
1	26353	12-23-86		L	I	Toxic, reactive, corrosive, solution of potassium ferrocycanide, potassium hydroxide from plant operations	WT02 D002	D003	DW	1	K	
2	26353	12-23-86	L	L	I	Toxic, corrosive, solution of silver, lead, cadmium, selenium, arsenic, chromium, cobalt, vanadium, beryllium, and acids from laboratory	D004 D006 WT01	D007 D008 D002	EHW	9.7	K	
3	26353	12-23-86		L	I	Corrosive, toxic, solution of mercury, sulfuric acid from laboratory	D002 D009	WT01	EHW	16	K	
4	26353	12-23-86	L	L	I	Corrosive, toxic, carcinogenic, solution of sodium dichromate, sulfuric acid from laboratory	D002 D007	WC01 WT01	EHW	0.7	K	
5	26353	12-23-86	L	L	O	Corrosive, solution of n-vinyl-2-pyrroloidone/maleic acid copolymer from laboratory	D002		DW	0.8	K	
6	26353	12-23-86		S	I	Reactive, ferric chloride from laboratory	D003		DW	0.45	K	
7	26353	12-23-86		L	I	Corrosive, toxic, solution of lead, selenium from plant operations	D002 D008	D010 WT02	DW	20	K	
8	26353	12-23-86		L	I	Corrosive, toxic, solution of lead, chromium, cadmium, selenium from plant operations	D006 D007 D010	D008 WT01 D002	EHW	20	K	
9	26353	12-23-86		L	I	Corrosive, toxic, solution of nitric acid, selenium, from plant operations	D002 D010	WT02	DW	20	K	
10	26353	12-23-86		L	OI	Corrosive, solution of sulfuric acid, ferric chloride, para-amino diethyl aniline from plant operations	D002		DW	7	K	
11	26353	12-23-86		L	I	Corrosive, toxic, solution of nitric acid, heavy metals from plant operations	D002	WT02	DW	20	K	
12	26353	12-23-86		L	I	Corrosive, toxic, solution of lithium borate, nitric acid, clay components from plant operations	D002	WT02	DW	17	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

1986 Form 4 GENERATOR ANNUAL DANGEROUS WASTE REPORT Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA7890008967

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NAME: Northwest Enviroservice, Inc.
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16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Bulk	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. Treatment Code	K. For TSD Facility Use Only
1	26353	12-23-86		L	OI	Corrosive, carcinogenic, toxic, solution of hydrochloric acid, formaldehyde, methanol from plant operations	D002 WC02	WT02	DW	4.1	K	
2	26353	12-23-86		L	IO	Corrosive, toxic, solution of oxalic acid from plant operations	D002	WT01	EHW	2	K	
3	26353	12-23-86		L	I	Corrosive, solution of hydrochloric, picric acids from plant operations	D002		DW	1	K	
4	26353	12-23-86		L	I	Corrosive, toxic, solution of hydrofluoric acid from plant operations	U134 D002	WT02	DW	6	K	
5	26353	12-23-86		L	I	Toxic, solution of sodium hypochlorite from laboratory	WT02		DW	0.01	K	
6	26353	12-23-86	L	L	O	Ignitable, solution of decaline from laboratory	D001		DW	0.02	K	
7	26353	12-23-86		L	OI	Toxic, ignitable, carcinogenic, solution of methylene chloride, formic, cresylic acids from laboratory	F002 D001	WC02 WT02	DW	0.5	K	
8	26353	12-23-86		L	I	Ignitable, solution of gandolinium from laboratory	D001		DW	0.08	K	
9	26353	12-23-86		L	OI	Ignitable, solution of mineral oil, stearic acid, cetyl alcohol from laboratory	D001		DW	0.23	K	
10	26353	12-23-86		L	O	Toxic, carcinogenic, persistent, solution of perchloroethylene, petroleum distillates, methylene chloride from laboratory	F001 F002 WT01	WC01 WP01	EHW	31.1	K	
11	26353	12-23-86		L	O	Toxic, carcinogenic, ignitable, solution of asbestos, xylene, toluene from plant operations	F003 D001	WC01 WT01	EHW	33.75	K	
12	26353	12-23-86		L	O	Toxic, carcinogenic, ignitable, solution of asbestos, xylene, toluene from plant operations	F003 D001	WC01 WT01	EHW	101.24	K	
13	26353	12-23-86		S	O	Toxic, maleic acid from laboratory	WT02		DW	0.6	K	
14	26353	12-23-86		L	I	Corrosive, toxic, solution of ammonium hydroxide from plant operations	D002	WT01	EHW	20.46	K	
15	26353	12-23-86		S	I	Corrosive, metabisulfite from laboratory	D002		DW	0.35	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

1986 Form 4 GENERATOR ANNUAL DANGEROUS WASTE REPORT Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA789008967

14. RECEIVING FACILITY (TSD)
EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

15. TRANSPORTER
EPA/STATE I.D. NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Sludge	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. Method Code	K For TSD Facility Use Only
1	26353	12-23-86		L	I	Toxic, mercury from laboratory	WT01	D009	EHW	12.9	K	
2	26353	12-23-86	L	S	I	Toxic, selenium oxide from laboratory	D010	WT01	EHW	0.02	K	
3	26353	12-23-86		S	I	Toxic, sodium phosphate, tribasic from laboratory	WT02		DW	0.45	K	
4	26353	12-23-86	L	L	I	Toxic, carcinogenic, solution of mercury, nickel, chromium, arsenic, cadmium, lead, hydrochloric acid from laboratory	D004 D006 WCD2	D008 D009 WT01	EHW	3.6	K	
5	26353	12-23-86	L	L	IO	Toxic, solution of lead, acetic acid, from laboratory	D008	WT01	EHW	7.25	K	
6	26353	12-23-86		L	OI	Persistent, toxic, carcinogenic, chloroform, methyl isobutyl ketone, methylene chloride, isooctane, benzene, acetone, trichlorotrifluoroethane, methanol, gasoline, light hydrocarbons, hexane, carbon disulfide from laboratory	WP03 WC02	WT01	EHW	22	K	
7	26353	12-23-86		S	O	Persistent, l-cysteine hydrochloride hydrate from laboratory	WP01		EHW	0.1	K	
8	26353	12-23-86		L	IO	Toxic, carcinogenic, solution of chromium, nickel, vandium, tin, zinc, beryllium, antimony, formaldehyde, acetic acid, cadmium, lead from laboratory	D006 D007 WT02	D008 WC02	EHW	12	K	
9	26353	12-23-86	L	S	O	Toxic, p-nitrophenol from laboratory	WT01		EHW	0.1	K	
10	26353	12-23-86	L	S	O	Persistent, chloramine-t from laboratory	WP01		EHW	0.25	K	
11	26353	12-23-86	L	S	I	Reactive, sodium nitroferrocyanide from laboratory	D003		DW	0.1	K	
12	26353	12-23-86	L	L	IO	Toxic, carcinogenic, solution of mercuric chloride, acetic acid, potassium dichromate, sodium sulfate from laboratory	D007 D009	WC01 WT01	EHW	0.25	K	
13	26353	12-23-86	L	S	OI	Toxic, carcinogenic, sodium cacodylate, sodium dimethyl arsenate from laboratory	D004 WC01	WC01	EHW	0.28	K	
14	26353	12-23-86	L	S	I	Carcinogenic, nickel oxide from laboratory	WC01		EHW	0.2	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

1986 Form 4 GENERATOR ANNUAL DANGEROUS WASTE REPORT Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA7890008967

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1	26353	12-23-86		S	I	Toxic, sodium phosphate, tribasic from laboratory	WT02		DW	0.45	K	
2	26353	12-23-86		S	I	Toxic, cupric sulfate from laboratory	WT01		EHW	1.45	K	
3	26353	12-23-86		L	O	Carcinogenic, solution of 2,4,7,9-tetramethyl-5-decyne-4,7 diol (TMOD) from laboratory	WC02		DW	0.5	K	
4	26353	12-23-86		L	O	Persistent, solution of trimethylbromide from laboratory	WP01		EHW	1	K	
5	26353	12-23-86		L	I	Toxic, solution of nickel sulfate, ammonium chloride, boric acid from laboratory	WT02		DW	0.4	K	
6	26353	12-23-86		L	I	Ignitable, toxic, carcinogenic, solution of nickel sulfate, nickel chloride, boric acid from laboratory	D001 WC02	WT02	DW	0.54	K	
7	26353	12-23-86		L	O	Toxic, solution of alkyl-polyhydric alcohol, p-teriary-octyl-phenoxy-poly-ethyl alcohol from laboratory	WT02		DW	0.23	K	
8	26353	12-23-86		LM	O	Toxic, persistent, benz(a)pyrene, dibenzanthrene, 1,4-diphenyl benzene, 1,2,3,4-dibenzanthracene, pentacene, 1,4-diphenyl benzene, 1,5-dimethyl napthalene, 2,6-dimethyl napthalene, 2,3-dimethyl napthalene, 2-ethyl napthalene, 2,3-benzanthrene from laboratory	WC01 WP01	WT02 WT01	EHW	1.28	K	
9	26353	12-23-86		L	OI	Carcinogenic, toxic, solution of tributyl tinhydride/coumarin from laboratory	WC02	WT02	DW	1.2	K	
10	26353	12-23-86		S	O	Carcinogenic, toxic, coumarin from laboratory	WC02	WT02	DW	0.017	K	
11	26353	12-23-86		S	OI	Toxic, DOTC-perchlorate, cyanide, rhodamine, xanthene, distearyl biphenyl from laboratory	WT02		DW	0.011	K	
12	26353	12-23-86		S	O	Toxic, acetophenone from laboratory	WT01		EHW	0.2	K	
13	26353	12-23-86		S	I	Toxic, lead oxide from laboratory	D008	WT01	EHW	1	K	
14	26353	12-23-86		L	OI	Persistent, solution of propyliodone, carminic acid, mechlorethamine from laboratory	WP01	WP03	EHW	1	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

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13. YOUR EPA/STATE ID NUMBER: WA7890089 67

14. RECEIVING FACILITY (TSD) EPA/STATE ID NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

15. TRANSPORTER EPA/STATE ID NUMBER: WAD058367152
NAME: Northwest Enviroservice, Inc.
ADDRESS: 1500 Airport Way South
Seattle, Washington ZIP: 98134

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Status	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. WFCOD HET	K. For TSD Facility Use Only
1	26353	12-23-86		L	I	Toxic, barium chloride/cadmium oxide/chromium acetate/cupric sulfate solution from laboratory	D007	WT01	EHW	1.35	K	
2	26353	12-23-86		S	IO	Toxic, phenyl mercuric acetate from laboratory	D009	WT01	EHW	0.05	K	
3	26353	12-23-86		S	IO	Toxic, phenyl mercuric chloride from laboratory	D009		EHW	0.05	K	
4	26353	12-23-86		L	O	Carcinogenic, toxic, solution of benzaldehyde, formaldehyde from plant operations	WC01	WT02	EHW	5	K	
5	26353	12-23-86		L	O	Toxic, solution of biphenyl, epichlorohydrin from plant operations	WT02		DW	0.5	K	
6	26353	12-23-86		S	I	Toxic, zinc chloride, tin chloride, tin fluoride from plant operations	WT02		DW	0.5	K	
7	26353	12-23-86		S	O	Toxic, ethylene glycol from plant operations	WT02		DW	20	K	
8	26353	12-23-86		L	I	Carcinogenic, solution of sodium thiosulfate, potassium chloride, hydrochloric acid, beryllium sulfate, thorium nitrate from laboratory	WC02		DW	4	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

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1986 Form 4 GENERATOR ANNUAL DANGEROUS WASTE REPORT Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA7890008967

14. RECEIVING FACILITY (TSD)
EPA/STATE I.D. NUMBER: WAD991281767
NAME: Crosby & Overton, Inc.
ADDRESS: 20245 76th Avenue
South Kent, Washington ZIP: 98032

15. TRANSPORTER
EPA/STATE I.D. NUMBER: WAD991281767
NAME: Crosby & Overton, Inc.
ADDRESS: 20245 76th Avenue
South Kent, Washington ZIP: 98032

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Status	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. WECOMDIET	K. For TSD Facility Use Only
1	16065	03-06-86	L	L	O	Persistent poly (oxyethylene(dimethylimino)ethylene-(diethylimino) ethylene dichloride mixture from operations	WP01		EHW	5	K	
2	16065	03-06-86	L	L	O	Persistent 1,1,2-trichloro, 1,2,2-trifluoroethane-empty drum from operations	WP01		EHW	0	K	
3	16065	03-06-86		L	IO	Empty drums - were persistent, toxic, flammable solution of methyl-chloroform, organometallic copper, and hydrocarbon solvent from plant operations	WP01 WT02	D001	EHW	0	K	
4	16065	03-06-86		L	O	Empty drum - persistent solution of hydrocarbon solvent and trichloro-ethylene from plant operations	WP01		EHW	0	K	
5	16065	03-06-86		G	I	Toxic, EP toxic, ignitable mixture of 98% aqueous cadmium nitrate from plant operations	D001 D006	WT01	EHW	42	K	
6	16065	03-06-86	L	G	I	Toxic, EP toxic, ignitable mixture of 98% aqueous cadmium nitrate from plant operations	D001 D006	WT01	EHW	18	K	
7	16065	03-06-86		L	I	Empty 34-40% aqueous hydrazine drums from operations	U133 D002		EHW	0	K	
8	16065	03-06-86	L	L	I	Empty 34-40% aqueous hydrazine drums	U133 D002		EHW	2	K	
9	16065	03-06-86		L	I	Toxic inorganic liquid from operations	WT02		DW	4,764	K	
10	16087	03-28-86		L	I	Empty 34-40% aqueous hydrazine drums	U133 D002		EHW	0	K	
11	16136	05-16-86		L	O	Toxic, reactive, carcinogenic polyurethane of diisocyanates from construction	WC01 D003	WT01	EHW	143	K	
12	16136	05-16-86		L	O	Toxic, reactive, carcinogenic polyurethane of diisocyanates from construction - empty drums	WC01 D003	WT01	EHW	0	K	
13	16136	05-16-86		L	O	Spent toxic, persistent polyurethane of mixed chlorinated organics from construction operation	WP01 WT01	F002	EHW	560	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

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1986 Form 4 GENERATOR ANNUAL DANGEROUS WASTE REPORT Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA789000896 7

14. RECEIVING FACILITY (TSD)
EPA/STATE I.D. NUMBER: WAD991281767
NAME: Crosby & Overton, Inc.
ADDRESS: 20245 76th Avenue
South Kent, Washington ZIP: 98032

15. TRANSPORTER
EPA/STATE I.D. NUMBER: WAD991281767
NAME: Crosby & Overton, Inc.
ADDRESS: 20245 76th Avenue
South Kent, Washington ZIP: 98032

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Bulk	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. Waste Code	K. For TSD Facility Use Only
1	16136	05-16-86		L	O	Spent toxic, persistent polyurethane of mixed chlorinated organics from construction operation - empty drums	WP01 WT01	F002	EHW	0	K	
2	16140	05-20-86		L	O	Toxic, reactive, carcinogenic polyurethane of diisocyanates from construction operation	WC01 D003	WT01	EHW	118	K	
3	16140	05-20-86		L	O	Toxic, reactive, carcinogenic polyurethane of diisocyanates from construction operation - empty drums	WC01 D003	WT01	EHW	0	K	
4	16140	05-20-86		L	O	Spent toxic, persistent polyurethane of mixed chlorinated organics from construction operation	WP01 WT01	F002	EHW	109	K	
5	16140	05-20-86		L	O	Spent toxic, persistent polyurethane of mixed chlorinated organics from construction operation - empty drums	WP01 WT01	F002	EHW	0	K	
6	16150	05-30-86		L	O	Carbon tetrachloride - empty drums	U211 WC01	WP01	EHW	0	K	
7	16150	05-30-86		L	I	34-40% aqueous hydrazine - empty drums	U133 D002		EHW	0	K	
8	16150	05-30-86	L	LS	I	Toxic, EP toxic mercury and copper tubing (2.3% Hg) from operations	D009 WT01		EHW	10	K	
9	16150	05-30-86		LS	I	Toxic, EP toxic mixture of glass, metal, and mercury (376 ppm) from fluorescent bulbs from maintenance operation	U151 D009	WT01	EHW	1,434	K	
10	16150	05-30-86	L	LS	I	Toxic, EP toxic mercury switches with 0.1% mercury from maintenance operation	U151 D009	WT01	EHW	1,621	K	
11	16150	05-30-86	L	L	I	Mercury from laboratory	U151 D009	WT01	EHW	4.1	K	
12	16150	05-30-86	L	S	I	EP toxic, toxic mercury (5%) in solid waste from operations	D009 WT01		EHW	57	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

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1986 Form 4 **GENERATOR ANNUAL DANGEROUS WASTE REPORT** Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA789000897

14. RECEIVING FACILITY (TSD) EPA/STATE I.D. NUMBER: WAD991281767
NAME: Crosby & Overton, Inc.
ADDRESS: 20245 76th Avenue South Kent, Washington ZIP: 98032

15. TRANSPORTER EPA/STATE I.D. NUMBER: WAD991281767
NAME: Crosby & Overton, Inc.
ADDRESS: 20245 76th Avenue South Kent, Washington ZIP: 98032

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Bulk	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. WECOD HEY	K. For TSD Facility Use Only
1	16150	05-30-86	L	S	I	EP toxic, toxic mercury contaminated rags, piping (0.1 wt% mercury) from operations	WT01 D009	U151	EHW	82	K	
2	16150	05-30-86	L	SL	I	Toxic mercury and mercury spill clean-up contaminated waste (0.1 wt% mercury) from operations	U151 D009.	WT01	EHW	23	K	
3	16157	06-06-86		L	O	Persistent (halogenated hydrocarbon) organic solution from operations	WP02		DW	227	K	
4	16157	06-06-86		L	O	Flammable organic solution from operations	D001		DW	159	K	
5	16157	06-06-86	L	L	O	Flammable fuel oil from automotive maintenance	D001		DW	159	K	
6	16157	06-06-86		L	I	Toxic inorganic solution from operations	WT02		DW	5,685	K	
7	16157	06-06-86		L	O	Ignitable organic solution from operations	D001		DW	550	K	
8	16157	06-06-86		L	I	Carcinogenic inorganic solution from operations	WC02		DW	341	K	
9	16163	06-12-86		L	I	Empty 34-40% aqueous hydrazine drums	U133 D002		EHW	0	K	
10	26176	06-25-86	L	L	I	Corrosive aqueous ammonium hydroxide from blueprint machine	WT01 D002		EHW	209	K	
11	26176	06-25-86	L	L	I	Corrosive aqueous ammonium hydroxide from blueprint machine	WT01 D002		EHW	55	K	
12	26176	06-25-86	L	L	I	Corrosive aqueous ammonium hydroxide from blueprint machine	WT01 D002		EHW	27	K	
13	26176	06-25-86		L	I	Corrosive aqueous ammonium hydroxide from blueprint machine	WT01 D002		EHW	41	K	
14	26176	06-25-86		L	O	Persistent (halogenated hydrocarbon) organic solution from operations	WP02		DW	1,228	K	
15	26176	06-25-86		L	O	Flammable organic solution from operations	D001		DW	173	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

1986 Form 4 GENERATOR ANNUAL DANGEROUS WASTE REPORT Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA789000897

14. RECEIVING FACILITY (TSD)
EPA/STATE I.D. NUMBER: WAD991281767
NAME: Crosby & Overton, Inc.
ADDRESS: 20245 76th Avenue South Kent, Washington ZIP 98032

15. TRANSPORTER
EPA/STATE I.D. NUMBER: WAD991281767
NAME: Crosby & Overton, Inc.
ADDRESS: 20245 76th Avenue South Kent, Washington ZIP 98032

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Sealed	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. Method	K. For TSD Facility Use Only
1	26176	06-25-86		L	I	Toxic inorganic solution from operations	WT02		DW	227	K	
2	26176	06-25-86		L	I	Corrosive inorganic solution from operations	D002		DW	364	K	
3	26176	06-25-86		L	I	Carcinogenic inorganic solution from operations	WC02		DW	819	K	
4	26176	06-25-86		L	O	Ignitable organic solution from operations	D001		DW	955	K	
5	26176	06-25-86		L	I	Toxic, EP toxic inorganic solution with chromium from operations	D007 WT02		DW	91	K	
6	26176	06-25-86		L	O	1,1,1-trichloroethane empty drums	WP01 U226	WT01	EHW	0	K	
7	26176	06-25-86		L	O	Persistent (halogenated hydrocarbon) freon from automotive operations	WP01		EHW	0	K	
8	26176	06-25-86	L	L	O	Persistent trichlorotrifluoroethane - empty drums	WP01		EHW	0	K	
9	26176	06-25-86	L	L	I	Corrosive, toxic hydrochloric acid solution from operations	WT01 D002		EHW	637	K	
10	26176	06-25-86	L	L	I	Corrosive aqueous ammonium hydroxide from blueprint machine	WT01 D002		EHW	106	K	
11	26176	06-25-86	L	L	I	Corrosive aqueous ammonium hydroxide from blueprint machine	WT01 D002		EHW	27	K	
12	26181	06-30-86	L	L	O	Spent methyl ethyle ketone, stoddard solvent (1%) and enamel paint (1%) from construction operation	F003 F005	D001 WT01	EHW	336	K	
13	26181	06-30-86	L	L	O	Flammable, toxic, mixture of methyl ethyl ketone and stoddard solvent from construction operation	WT01 F003	F005 D001	EHW	170	K	
14	26181	06-30-86	L	LG	OI	Flammable, EP toxic mixture of methyl ethyl ketone, decane, xylene, toluene, other organics with lead, zinc, and chromium from paint operations	F003 F005 D008 WC01	D001 D007 WT01	EHW	167	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

1986 Form 4 GENERATOR ANNUAL DANGEROUS WASTE REPORT Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA789000089 67

14. RECEIVING FACILITY (TSD) EPA/STATE I.D. NUMBER: WAD991281767
NAME: Crosby & Overton, Inc.
ADDRESS: 20245 76th Avenue South Kent, Washington ZIP: 98032

15. TRANSPORTER EPA/STATE I.D. NUMBER: WAD991281767
NAME: Crosby & Overton, Inc.
ADDRESS: 20245 76th Avenue South Kent, Washington ZIP: 98032

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. State	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. WECOGDIE	K For TSD Facility Use Only
1	26181	06-30-86		L	O	Spent, flammable, toxic, carcinogenic solution of methyl ethyl ketone, solvent, and thinner from paint operation	D001 F005	WT02 WC01	EHW	175	K	
2	26181	06-30-86		L	O	Spent, flammable, toxic mixed organics from paint operation	WT01 F003	F005 D001	EHW	76	K	
3	26181	06-30-86	L	L	O	Flammable mixed organic solution from operations	D001		DW	182	K	
4	26181	06-30-86	L	L	O	Flammable mixed organic solution from operations	D001		DW	1,500	K	
5	26181	06-30-86	L	L	O	Flammable toxic mixture of oil, trimethylbenzenes and tetramethylbenzenes from operations	D001 WT02		DW	200	K	
6	26181	06-30-86	L	L	O	Spent, flammable, toxic methyl ethyl ketone solution from paint operation	D001 F005	WT02	DW	650	K	
7	26181	06-30-86	L	L	O	Persistent dichlorodifluoromethane from operations	U075 WP01		EHW	220	K	
8	26181	06-30-86		L	OI	Spent flammable, toxic, corrosive, EP toxic, solution of solvents, enamel paint, acids and heavy metals from paint operation	F003 D001 WT01 D008	F005 D002 D007	EHW	113	K	
9	26181	06-30-86		L	OI	Spent flammable, toxic, EP toxic solution of solvents, enamel paint, and heavy metals from paint operation	F003 D001 D007	F005 WT01	EHW	791	K	
10	26181	06-30-86	L	L	O	Flammable, carcinogenic isopropanol from construction operations	D001 WC02		DW	918	K	
11	26181	06-30-86	L	L	O	Ignitable, toxic mixture of nonane, trimethylbenzene and water from construction	WT02 D001		DW	190	K	
12	26181	06-30-86		L	O	Ignitable, toxic adhesive mixture of toluene, oil, and resins from construction operation	WT02 D001		DW	691	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

1986 Form 4 **GENERATOR ANNUAL DANGEROUS WASTE REPORT** Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA789000896 7

14. RECEIVING FACILITY (TSD)
EPA/STATE I.D. NUMBER: WAD991281767
NAME: Crosby & Overton, Inc.
ADDRESS: 20245 76th Avenue South Kent, Washington ZIP: 98032

15. TRANSPORTER
EPA/STATE I.D. NUMBER: WAD991281767
NAME: Crosby & Overton, Inc.
ADDRESS: 20245 76th Avenue South Kent, Washington ZIP: 98032

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Source	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. Method	K. For TSD Facility Use Only
1	26181	06-30-86		L	O	Spent, toxic solution of non-PCB oil and mixed organics from automotive operation	F003 WT02		DW	209	K	
2	26181	06-30-86		L	O	Toxic, persistent methylenechloride from automotive operation	U080 WT01	WP01	EHW	0	K	
3	26181	06-30-86	L	L	O	Flammable organic solution from operations	D001		DW	254	K	
4	26181	06-30-86	L	L	O	Flammable organic solution from operations	D001		DW	227	K	
5	26181	06-30-86	L	LG	IO	Spent flammable, toxic mixed organics with thinners and zinc from paint operations	D001 WT01	F005	EHW	479	K	
6	26181	06-30-86	L	LG	OI	Spent toxic, persistent, flammable solution of methyl ethyl ketone, thinners, and epoxy resins from paint operation	F003 F005 WT01	WP01 D001	EHW	478	K	
7	26181	06-30-86	L	L	O	Spent flammable, toxic solution of methyl ethyl ketone and paint thinner from paint operation	F003 F005	WT01 D001	EHW	205	K	
8	26181	06-30-86		LG	OI	Spent flammable, toxic, persistent, carcinogenic, EP toxic solution of organic solvents, paint resins, and chromium from paint operation	F003 F005 D001 WP02	WT01 WC02 D007	EHW	99	K	
9	26181	06-30-86		LG	OI	Spent flammable, toxic, carcinogenic, EP toxic solution of organic solvents, paint resins, and chromium from paint operation	F003 WT02 D001	F005 WC01 D007	EHW	178	K	
10	26181	06-30-86		LG	OI	Spent flammable, toxic, carcinogenic, persistent, EP toxic solution of organic solvents, paint resins, and chromium from paint operation	F003 WT01 WP01 D007	F005 WC01 D001	EHW	128	K	
11	26181	06-30-86		L	O	Spent flammable, toxic, carcinogenic solution of mixed organics from paint operation	WT02 WC01	D001 F005	EHW	209	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

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1986 **Form 4** **GENERATOR ANNUAL DANGEROUS WASTE REPORT** **Form 4** 1986

13. YOUR EPA/STATE I.D. NUMBER	14. RECEIVING FACILITY (TSD) EPA/STATE I.D. NUMBER	NAME: Crosby & Overton, Inc. ADDRESS: 20245 76th Avenue South Kent, Washington ZIP: 98032	15. TRANSPORTER EPA/STATE I.D. NUMBER	NAME: Crosby & Overton, Inc. ADDRESS: 20245 76th Avenue South Kent, Washington ZIP: 98032
WA 789000896 7	WAD991281767		WAD991281767	

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. State	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. WECOGDIET	K. For TSD Facility Use Only
1	26181	06-30-86	L	L	O	Flammable, toxic mixture of oil, trimethylbenzenes and tetramethylbenzenes from operations	D001 WT02		DW	200	K	
2	26181	06-30-86		L	O	Spent flammable, toxic solution of methyl ethyl ketone and paint thinners from paint operations	WT02 D001	F005	DW	220	K	
3	26181	06-30-86		L	O	Flammable, persistent solution of oil and mixed organics from automotive operation	D001 WP01		EHW	337	K	
4	26181	06-30-86		L	O	Flammable, polycyclic aromatic hydrocarbon solution of kerosene, distillates, and fluoranthene from operations	D001 WP03		EHW	380	K	
5	26181	06-30-86		L	OI	Spent persistent flammable, corrosive, toxic, EP toxic solution of methylene chloride hydroxide, and chromate from paint operations	F001 F002 WP01	D001 D007	EHW	0	K	
6	26181	06-30-86		L	O	Flammable paint thinner from paint operation	D001		DW	325	K	
7	26181	06-30-86	L	L	O	Flammable organic mixture from operations	D001		DW	223	K	
8	16184	07-03-86		S	O	Toxic, carcinogenic, persistent mixture of brominated polyester resin and styrene from construction operation	WC01 WT01	WP01	EHW	1,459	K	
9	16184	07-03-86		L	O	Toxic ethylene glycol (aqueous) solution from automotive operation	WT02		DW	625	K	
10	16184	07-03-86		L	O	Toxic, persistent ethylene glycol solution from automotive operation	WT02 WP01		EHW	208	K	
11	16184	07-03-86		L	O	Spent ignitable, toxic, persistent, carcinogenic oil solution with mixed organics from automotive operation	D001 WT01 WP01	WC01 F003	EHW	689	K	
12	16184	07-03-86		L	O	Combustible, toxic stoddard solvent solution from paint operation	WT02 D001		DW	474	K	
13	16184	07-03-86	L	L	O	Combustible aqueous fuel oil from maintenance operation	D001		DW	456	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

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1986 Form 4 **GENERATOR ANNUAL DANGEROUS WASTE REPORT** Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA789000896 7

14. RECEIVING FACILITY (TSD) EPA/STATE I.D. NUMBER: WAD991281767
NAME: Crosby & Overton, Inc.
ADDRESS: 20245 76th Avenue South Kent, Washington ZIP: 98032

15. TRANSPORTER EPA/STATE I.D. NUMBER: WAD991281767
NAME: Crosby & Overton, Inc.
ADDRESS: 20245 76th Avenue South Kent, Washington ZIP: 98032

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. Status	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. WECIODHET	K For TSD Facility Use Only
1	16184	07-03-86		L	O	Spent ignitable solution of mixed organics from paint operation	D001 F003		DW	325	K	
2	16184	07-03-86		L	O	Toxic, ignitable solution of nonane and trimethylbenzene from paint operation	WT02 D001		DW	331	K	
3	16184	07-03-86	L	L	O	Toxic, ignitable solution of nonane and trimethylbenzene from paint operation	WT02 D001		DW	155	K	
4	16184	07-03-86	L	L	O	Toxic, persistent, carcinogenic mixture of polycyclic aromatic hydrocarbosn, naphthenes, phenols from laboratory	WC01 WP03	WT02	EHW	3,060	K	
5	16184	07-03-86		L	O	Ignitable solution of aliphatic hydrocarbons from plant operations	D001		DW	30	K	
6	16184	07-03-86		L	O	Spent ignitable, toxic solution of mixed organic solvents from paint operation	F003 F005	WT01 D001	EHW	113	K	
7	16262	09-30-86		G	I	Toxic, carcinogenic, EP toxic metal oxides slurry with chromium from tank clean-up operation	WT02 D007	WC01	EHW	1,330	K	
8	16262	09-30-86		S	I	Toxic, carcinogenic, corrosive, EP toxic cadmium and nitric acid absorbed on spill pillows from operations	WT01 D002	WC01 D006	EHW	10	K	
9	16262	09-30-86		S	I	Corrosive, toxic sodium hydroxide solution absorbed in soil and spill pillows from operations	WT02 D002		DW	1,900	K	
10	16262	09-30-86		S	I	Corrosive, toxic absorbed sulfuric acid solution from operations	WT02 D002		DW	909	K	
11	16262	09-30-86		L	I	Toxic, corrosive solution of sodium hydroxide solution and other sodium compounds from tank clean-up operation	D002 WT01		EHW	7,723	K	
12	16262	.09-30-86		L	I	Toxic, carcinogenic, corrosive, EP toxic solution of sodium hydroxide and other sodium compounds with chromium from tank clean-up operation	D002 WC01	D007 WT01	EHW	1,743	K	
13	16262	09-30-86		L	I	Toxic, corrosive, carcinogenic solution of sodium hydroxide solution and other sodium compound from tank clean-up operation	D002 WC01	WT01	EHW	996	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

FORM ECY 030-28 (Rev 11/88) 2nd 864

1986 Form 4 GENERATOR ANNUAL DANGEROUS WASTE REPORT Form 4 1986

13. YOUR EPA/STATE I.D. NUMBER: WA789000897

14. RECEIVING FACILITY (TSD)
EPA/STATE I.D. NUMBER: WAD991281767
NAME: Crosby & Overton, Inc.
ADDRESS: 20245 76th Avenue
South Kent, Washington ZIP: 98032

15. TRANSPORTER
EPA/STATE I.D. NUMBER: WAD991281767
NAME: Crosby & Overton, Inc.
ADDRESS: 20245 76th Avenue
South Kent, Washington ZIP: 98032

16. WASTE IDENTIFICATION

LINE	A. Manifest Document Number	B. Manifest Shipment Date (MM DD YY)	C. State	D. Physical State S=Solid L=Liquid G=Sludge M=Compressed Gas	E. Chemical Nature O=Organic I=Inorganic	F. Waste Description (see instructions)	G. Dangerous Waste Number (see instructions and WAC 173-303)		H. Waste Designation DW or EHW	I. Amount of Waste	J. WEIGHT	K. For TSD Facility Use Only
1	16262	09-30-86		L	I	Toxic, corrosive, 50% aqueous sodium hydroxide solution from operations	WT01 D002		EHW	291	K	
2	16262	09-30-86		L	I	Corrosive, EP toxic solution with 0.4% barium chloride and 0.2% sodium hydroxide from laboratory	D002 D005		DW	352	K	

17. COMMENTS (Enter information by section and/or line number—see instructions).

FORM ECY 030-26 (Rev 11/86) 286-864

CONTAINER QTY	CONTAINER TYPE	HM	DOT PROPER SHIPPING NAME	HAZARD CLASS	HAZ. MAT ID. NO.	WASTE DESCRIPTION	PHYSICAL STATE	EPA HAZ. WASTE NO.	GAL./LB.	FT^3
13	55 GAL DRUM	X	WASTE AMMONIUM HYDROXIDE	CORROSIVE MATERIAL	NA2672	CORROSIVE LIQUID	LIQUID	D-022	495 GAL	68
7	55 GAL DRUM	X	WASTE SODIUM HYDROXIDE DRY SOLID	CORROSIVE MATERIAL	UN1823	CORROSIVE SOLID	SOLID	D-002	385	52.5
9	FIBER-BOARD DRUM	X	WASTE MAGNESIUM NITRATE	OXIDIZER	UN1474	OXIDIZER	SOLID	D-001	2700 LB	22.5
1	FIBER-BOARD DRUM	X	WASTE NICKEL NITRATE	OXIDIZER	UN2725	OXIDIZER	SOLID	D-001	300 LB	2.5
26	55 GAL DRUM		WASTE INHIBITED ETHYLENE GLYCOL	ORM-E	NA9189	ORM-E	LIQUID	WT02	11,480 LB	200
26	55 GAL DRUM	X	WASTE SODIUM ALUMINATE SOLUTION	CORROSIVE MATERIAL	UN1819	CORROSIVE LIQUID	LIQUID	D-002	1430 GAL	195
1	55 GAL DRUM	X	WASTE FLAMMABLE LIQUID N.O.S.	FLAMMABLE LIQUID	UN1993	LABPACK FLAMMABLE LIQUID DRUM 84-3	LIQUID	D-005	55 GAL	7.5
1	55 GAL DRUM	X	HAZARDOUS WASTE LIQUID N.O.S.	ORM-E	NA9189	LABPACK DRUM 85-4	LIQUID	D-005	55 GAL	7.5
1	55 GAL DRUM	X	WASTE FLAMMABLE LIQUID, POISONOUS N.O.S.	FLAMMABLE LIQUID	UN1992	LABPACK #86-5 FLAMMABLE LIQUID AND POISON	LIQUID	D-005	55 GAL	7.5
1	55 GAL DRUM	X	WASTE FLAMMABLE LIQUID N.O.S.	FLAMMABLE LIQUID	UN1993	LABPACK DRUM #87-1 FLAMMABLE LIQUID	LIQUID	D-005	55 GAL	7.5
1	55 GAL DRUM	X	WASTE FLAMMABLE LIQUID N.O.S.	FLAMMABLE LIQUID	UN1993	LABPACK #88-2 FLAMMABLE	LIQUID	D-005	55 GAL	7.5
1	55 GAL DRUM	X	WASTE POISON B. LIQUID N.O.S.	POISON B	UN2810	POISON LIQUID	LIQUID	D-001	55 GAL	7.5
1	55 GAL DRUM	X	WASTE TETRAHYDROFURAN	FLAMMABLE LIQUID	UN2056	FLAMMABLE LIQUID	LIQUID	D-005	55 GAL	7.5
1	55 GAL DRUM	X	WASTE FLAMMABLE LIQUID N.O.S.	FLAMMABLE LIQUID	UN1993	FLAMMABLE LIQUID LABPACK 7	LIQUID	D-005	55 GAL	7.5

CONTAINER QTY	CONTAINER TYPE	HM	DOT PROPER SHIPPING NAME	HAZARD CLASS	HAZ. MAT ID. NO.	WASTE DESCRIPTION	PHYSICAL STATE	EPA HAZ. WASTE NO.	GAL./LB.	FT^3
1	55 GAL DRUM	X	WASTE FLAMMABLE LIQUID N.O.S.	FLAMMABLE LIQUID	UN1993	LABPACK 92-8 FLAMMABLE	LIQUID	D-005	55 GAL	7.5
1	55 GAL DRUM	X	WASTE FLAMMABLE LIQUID N.O.S.	FLAMMABLE LIQUID	UN1993	LABPACK 93-9 FLAMMABLE	LIQUID	D-005	55 GAL	7.5
1	55 GAL DRUM	X	WASTE FLAMMABLE LIQUID N.O.S.	FLAMMABLE LIQUID	UN1993	LABPACK 94-10 FLAMMABLE	LIQUID	D-005	55 GAL	7.5
1	30 GAL DRUM	X	WASTE FLAMMABLE LIQUID N.O.S.	FLAMMABLE LIQUID	UN1993	LABPACK 95-11 FLAMMABLE	LIQUID	D-005	30 GAL	4.0

APPENDIX F

SAMPLING PROCEDURES

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APPENDIX F

SAMPLING PROCEDURES

The following sampling procedures were designed in conjunction with Analysis Plan presented in Appendix G. All sample bottles for the sampling and analysis plan will be provided by the receiving laboratory (including the addition of preservatives). Negotiations are in progress for Hanford Environmental Health Foundation (HEHF) in Richland, Washington to perform laboratory analyses. This has not yet been finalized, however.

Detailed notes of all sampling activities will be taken as the sampling occurs. Notations will be made for the following:

- Location of sampling point
- Type of sample (e.g., wipe, liquid, soil)
- Number and volume of samples taken
- Analyses to be performed on samples
- Description of sampling point and sampling methodology
- Date and time of collection
- Sample identification number(s)
- References such as maps or photographs of the sampling site
- Field observations
- Signatures of personnel responsible for sampling and observations.

All notations will be recorded in a bound log book with consecutively numbered pages. Notation will be made in ink. The log book will be kept at the 1720-K Building in the 100 K Area of the Hanford Site.

The extent of information recorded for each sample collected will be sufficient so that the activity could be reconstructed without reliance on the sampler's memory.

The sampler will wear latex gloves and will exercise extreme care to prevent cross contamination by using a new pair of gloves for each sample collected. Gloves will be collected, containerized, and disposed of at Northwest EnviroService, Inc.

All samples except concrete cores will be placed in laboratory-prepared jars with Teflon*-lined lids. The samples will be placed on ice in an ice

*Teflon is a trademark of E.I. duPont de Nemours & Company.

chest and maintained at 4 °C while being transported to the Analytical Laboratory under chain-of-custody procedures. The samples will be maintained at this temperature until the analyses are performed. Samples will be delivered to the Analytical Laboratory within 24 h of their collection.

All sampling equipment will be cleaned between samples, utilizing a detergent wash with distilled water rinse, followed by a hexane rinse, and finally three distilled water rinses. All rinseate will be collected and containerized in drums for analysis and disposal as discussed below.

RINSEATE SAMPLING

The contents of each rinseate drum will be sampled by immersing a 4-ft, 14-mm-ID glass sampling thief into the liquid to the bottom of the drum. A column of the contents will be withdrawn and placed in a precleaned 8-oz-capacity glass sampling jar. Additional samples will be collected as necessary to obtain at least 5 oz. The drum(s) will be stored at the 2727-S NRDWS facility until the analyses are returned and evaluated. Rinseate management is described in Section 4.6 of the closure plan.

SAMPLING QUALITY ASSURANCE/QUALITY CONTROL

Quality Assurance (QA) for the project will be established to ensure that high-quality data are generated from the sampling activity. There are three basic elements to the QA strategy: accountability, controllability, and traceability.

Accountability will be achieved through detailed sampling and analysis plans.

Controllability will be accomplished through the use of trip blanks and field blanks. One trip blank will be submitted per day. A duplicate sample will be taken for every ten samples collected. Duplicates will be medium specific. If ten samples of a particular medium are not collected, the last sample taken will be duplicated. The duplicates will be analyzed according to the same sampling scheme as the original samples. If a sample and the duplicate sample show conflicting results (i.e., detectable levels of waste in the sample and nondetectable levels in the duplicate), the analyzed material (e.g., wallboard, insulation, concrete, or soil) will be deemed contaminated in the location where the two samples were taken. Table F-1 contains a list of the anticipated number of samples and duplicates on a medium-specific basis.

Traceability involves the documentation necessary to reconstruct the completed sampling program through an independent review of project records. Sampling records to be kept on file include field notes, daily memoranda, records of meetings and activities concerning the sampling program, and chain-of-custody records. These QA records and files will be kept at the 1720-K Building in the 100 K Area of the Hanford Site.

Table F-1. Duplicate Samples. (sheet 1 of 2)

Medium	Location	Total samples collected	(Composite) samples for analysis	Duplicate samples
Insulation	Wall #1-U	4	1	
	Wall #2-U	2	1	
	Wall #3-U	4	1	
	Wall #4-U	2	1	
	Wall #1-L	4	1	1
	Wall #2-L	2	1	Composite
	Wall #3-L	4	1	
	Wall #4-L	2	1	
Wallboard	Wall #1-U	4	1	
	Wall #2-U	2	1	1
	Wall #3-U	4	1	Composite
	Wall #4-U	2	1	
Interior metal wipe samples	Wall #1-U	4	1	
	Wall #2-U	2	1	
	Wall #3-U	4	1	
	Wall #4-U	2	1	
	Wall #1-L	4	1	
	Wall #2-L	2	1	1
	Wall #3-L	4	1	Composite
	Wall #4-L	2	1	
Concrete	Outside specific (OS)			
	#1	1	1	
	#2	1	1	
	#3	1	1	
	#4	1	1	
	#5	1	1	
	#6	1	1	
	#7	1	1	
	Outside random (OR)			
	#1	1	1	
	#2	1	1	
	#3	1	1	
	#4	1	1	
	#5	1	1	
	#6	1	1	
	Inside (I)			
	#1	1	1	2
	#2	1	1	Individual
	#3	1	1	
	#4	1	1	

Table F-1. Duplicate Samples. (sheet 2 of 2)

Medium	Location	Total samples collected	(Composite) samples for analysis	Duplicate samples
Soil beneath concrete	OS #1	3	3	
	OS #2	3	3	
	OS #3	3	3	
	OS #4	3	3	1
	OS #5	3	3	Composite
	OS #6	3	3	
	OS #7	3	3	
Soil beneath building	I #1	3	3	
	I #2	3	3	
	I #3	3	3	
	I #4	3	3	
Perimeter soil	Side #1-0	6	1	
	Side #2-0	6	1	
	Side #3-0	6	1	
	Side #4-0	6	1	1
	Side #1-1	6	1	Composite
	Side #2-1	6	1	
	Side #3-1	6	1	
	Side #4-1	6	1	
	Side #1-3	6	1	
	Side #2-3	6	1	
	Side #3-3	6	1	
	Side #4-3	6	1	
Areal soil	Random #1	3	1	1
	Random #2	3	1	Composite
	Random #3	3	1	
	Random #4	3	1	
	Random #5	3	1	
	Random #6	3	1	
	Random #7	3	1	
	Random #8	3	1	
	Random #9	3	1	
	Random #10	3	1	
Rinseate	Drum #1	1	1	
	Drum #2(?)	1	1	

Quality Control (QC) will be implemented through the recording of field memoranda and field notes. These documents will record daily operations of the field sampling program including problems encountered, field decisions made, and progress in sampling. All records will be dated, initialed by the author, paginated, and filed with project sampling documents. Standard chain-of-custody (Fig. F-1) procedures will be followed keyed to the standard label information (Fig. F-2) that will be on each sample jar. These QC documents will be kept at the 1720-K Building in the 100 K Area of the Hanford Site.

Field Sample Custody Record Form

Sample Custody Record

DATE _____ PAGE ____ OF ____

JOB NUMBER _____

PROJECT _____

SAMPLERS (SIGNATURE)

SAMPLE	DATE	TIME	STATION	TESTING										NO. OF CONTAINERS	OBSERVATIONS/ COMMENTS/ COMPOSITING INSTRUCTIONS

RELINQUISHED BY	DATE	RECEIVED BY	DATE	TOTAL NUMBER OF CONTAINERS	METHOD OF SHIPMENT
Signature	TIME	Signature	TIME	SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS	
Printed Name		Printed Name			
Company		Company			
RELINQUISHED BY	DATE	RECEIVED BY (LAB)	DATE		
Signature	TIME	Signature	TIME		
Printed Name		Printed Name			
Company		Company			

Figure F-1

Sample Container Label

Collector _____ Sample No. _____

Recorded By _____

Place of Collection _____

_____

Date Sampled _____ Time Sampled _____

Field Information _____

Hazard Warning _____

Analyses _____

Source: "Test Methods for Evaluating Solid Waste" SW-846, dated July 1982.

Figure F-2

APPENDIX G

ANALYTICAL PLAN

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APPENDIX G

ANALYTICAL PLAN

The analytical plan presents the analytical parameters, methods, minimum detection limits, and specific analytical procedures. The analysis plan is based on knowledge of the contents of the 2727-S NRDWS facility. Appendix E provides that inventory.

The plan was developed to determine the presence of constituents residing on the list of 129 priority pollutants and the Appendix VIII Dangerous Waste Constituents list in WAC 173-303-9905 (WAC 1987). These constituents represent a potential threat to human health or the environment nationally. Whenever they are identified they are added to a growing data base of knowledge regarding their hazards.

As evidenced in Appendix E, a variety of wastes are listed that it would be difficult, if not impossible, to analyze for. The list of constituents presented in this plan in Tables G-1 and G-2 are, however, readily identifiable and quantifiable by an experienced laboratory. They also encompass a majority of the wastes presented in the inventory.

Methods of analysis are presented in Table G-3. Detection limits will be those specified by each method. The detection limits presented are goals, while the final limits will be presented in the analytical certification reports.

Table G-1. Appendix VIII Dangerous Waste Constituents.

2,4 - dichlorophenoxy acetic acid
Acetophenone
Coal tar
Crotonaldehyde
Dioxane
Formaldehyde
Formic acid
Hydrazine
Hydrofluoric acid
Lead acetate
Methyl ethyl ketone
Nitrobenzene
Potassium cyanide
Selenium oxide
Thiourea
Phenyl mercury acetate

Table G-2. Priority Pollutants.

Metals

Antimony
Arsenic
Beryllium
Cadmium
Chromium
Copper
Lead
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

Miscellaneous

Cyanide
Phenol (total)

Pesticides

Aldrin
Chlordane (alpha and
Dieldrin gamma)
4,4'DDT
4,4'DDE
4,4'DDD
Alpha Endosulfan
Beta Endolsulfan
Endosulfan Sulfate
Endrin
Endrin Ketone
Heptachlor
Heptachlor Epoxide
Alpha BHC
Beta BHC
Gamma BHC (Lindane)
Delta BHC
Toxaphene
PCB 1016
PCB 1221
PCB 1232
PCB 1242
PCB 1248
PCB 1254
PCB 1260
Methoxychlor

Base/neutral extractibles

Acenaphthene
Benzidine
1,2,4-Trichlorobenzene
Hexachlorobenzene
Hexachloroethane
Bis (2-Chloroethyl) Ether
2-Chloronaphthalene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
3,3-Dichlorobenzidine
2,4-Dinitrotoluene
2,6-Dinitrotoluene
1,2-Diphenylhydrazine
Fluoranthene
4-Chlorophenyl Phenyl Ether
4-Bromophenyl Phenyl Ether
Bis (2-Chloroisopropyl) Ether
Bis (2-Chloroethoxy) Methane
Hexachlorobutadiene
Hexachlorocyclopentadiene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodimethylamine
N-Nitrosodi-N-Propylamine
N-Nitrosodiphenylamine
Bis (2-Ethylhexyl) Phthalate
N-Butyl Benzyl Phthalate
Di-N-Butyl Phthalate
Di-N-Octyl Phthalate
Diethyl Phthalate
Dimethyl Phthalate
Benzo (A) Anthracene
Benzo (B) Fluoranthene
Benzo (K) Fluoranthene
Chrysene
Acenaphthylene
Anthracene
Benzo (GHI) Perylene
Fluorene
Phenanthrene
1,2,5,6-Dibenzanthracene
Indeno (1,2,3-CO) Pypene
Pyrene
TCDD

Acid extractibles

2,4,6-Trichlorophenol
P-Chloro-M-Cresol
2-Chlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2-Nitrophenol
4-Nitrophenol
2,4-Dinitrophenol
4,6-Dinitro-o-cresol
Pentachlorophenol
Phenol

Volatile organics

Acrolein
Acrylonitrile
Benzene
Carbon tetrachloride
Chlorobenzene
1,2-Dichloroethane
1,1,1-Trichloroethane
1,1-Dichloroethane
1,1,2-Trichloroethane
1,1,2,2-Tetrachloroethane
Chloroethane
Chloroform
1,1-Dichloroethylene
1,2-trans-Dichloroethylene
1,2-Dichloropropane
Cis-1,3-Dichloropropene
Trans-1,3-Dichloropropene
Ethylbenzene
Methylene Chloride
Methyl Chloride
Methyl Bromide
Bromoform
Bromodichloromethane
Dibromochloromethane
Tetrachloroethylene
Toluene
Trichloroethylene
Vinyl Chloride
Bis (Chloromethyl) Ether
2-Chloroethyl Vinyl Ether

Source: Clean Water Act of 1977 (PL 95-217)

Table G-3. Methods of Analysis.

Parameter	Method	Reference[a]
SOLID SAMPLES		
Acid digestion procedure	3010/3020	2
Antimony	6010	2
Arsenic	7061	2
Beryllium	6010	2
Cadmium	6010	2
Chromium	6010	2
Copper	6010	2
Lead	7421	2
Mercury	7471	2
Nickel	6010	2
Selenium	7741	2
Silver	6010	2
Thallium	7841	2
Zinc	6010	2
Cyanide	335.2	1
Volatile organic compounds	8240	2
Extractable organic compounds	8270	2
LIQUID SAMPLES		
Trace metals	See above	--
Cyanide	335.2	1
Volatile organic compounds	624	3
Extractible organic compounds	625	3
Pesticides	608	3

[a]References

1. Methods for Chemical Analysis of Water and Wastes, U.S. Environmental Protection Agency, Washington, D.C., 1979.

2. Test Methods for Evaluating Solid Waste, SW-846, U.S. Environmental Protection Agency, Washington, D.C., 1982, Revised 1985, 1986.

3. Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, U.S. Environmental Protection Agency, Washington, D.C., 1982.

APPENDIX H

GENERATION OF RANDOM SAMPLING LOCATIONS

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APPENDIX H

GENERATION OF RANDOM SAMPLING LOCATIONS

Random sampling locations were selected for several areas at the 2727-S facility. A Hart Crowser program was used to generate the sampling locations using a uniform (0,1) probability distribution function.

To determine the random sampling locations, a cartesian coordinate system was fit to each sampling area. The origin was assigned to the lower left grid vertice for an area. The X-coordinate ran across the page left to right and the Y-coordinate ran vertically up the page. The origin locations for these grids are shown on Figures 9, 11, and 12.

Because it was possible to generate duplicate locations or locations beyond the sampling area boundaries, criteria were set to select the locations from the program output. These criteria are the following.

- Select the random sampling locations sequentially down the list from the first selection.
- Discard duplicate sampling locations and sampling locations that fall outside the sampling area.
- Stop selecting locations when the desired number of samples are obtained.

Computer output for the random sampling locations are provided on Tables H-1 through H-6.

Table H-1. Random Grid Coordinates for the Concrete Pad (Fig. 9).

Random X and Y pairs were generated using a random number generator that follows a uniform (0,1) distribution.

The grid coordinates are as follows:
(XMIN, XMAX) = (.00, 8.00)
(YMIN, YMAX) = (.00, 10.00)
The initial random seed value = 2,157.00
The total number of points generated = 30

Selection	X-Coordinate	Y-Coordinate
1	6	0
2	4	1
3	5	1
4	6	5
5	4	1
6	7	3
7	3	7
8	8	6
9	6	9
10	5	1
11	8	9
12	5	5
13	1	0
14	6	8
15	2	9
16	4	4
17	6	6
18	1	8
19	1	2
20	5	8
21	3	2
22	6	4
23	4	2
24	6	10
25	7	1
26	1	1
27	1	1
28	6	4
29	1	6
30	4	2

Table H-2. Random Grid Coordinates for Area 1 (Fig. 11).

Random X and Y pairs were generated using a random number generator that follows a uniform (0,1) distribution.

The grid coordinates are as follows:
(XMIN, XMAX) = (.00, 12.00)
(YMIN, YMAX) = (.00, 2.00)
The initial random seed value = 12,490.00
The total number of points generated = 20

Selection	X-Coordinate	Y-Coordinate
1	9	0
2	11	1
3	2	0
4	2	0
5	5	1
6	6	2
7	9	1
8	11	1
9	8	1
10	7	2
11	12	2
12	11	0
13	9	1
14	7	1
15	4	2
16	6	1
17	2	2
18	10	2
19	2	1
20	0	1

Table H-3. Random Grid Coordinates for Area 2 (Fig. 11).

Random X and Y pairs were generated using a random number generator that follows a uniform (0,1) distribution.

The grid coordinates are as follows:
(XMIN, XMAX) = (.00, 3.00)
(YMIN, YMAX) = (.00, 10.00)
The initial random seed value = 245.00
The total number of points generated = 20

Selection	X-Coordinate	Y-Coordinate
1	1	0
2	1	9
3	2	3
4	1	1
5	3	8
6	0	6
7	1	8
8	3	1
9	1	6
10	0	9
11	2	9
12	2	1
13	3	6
14	3	2
15	1	10
16	0	2
17	0	4
18	2	0
19	0	5
20	1	10

Table H-4. Random Grid Coordinates for Area 4 (Fig. 11).

Random X and Y pairs were generated using a random number generator that follows a uniform (0,1) distribution.

The grid coordinates are as follows:
(XMIN, XMAX) = (.00, 5.00)
(YMIN, YMAX) = (.00, 10.00)
The initial random seed value = 21,679.00
The total number of points generated = 20

Selection	X-Coordinate	Y-Coordinate
1	2	3
2	4	4
3	0	6
4	4	3
5	1	1
6	4	7
7	0	8
8	1	1
9	3	10
10	0	5
11	1	3
12	1	1
13	5	4
14	1	3
15	3	4
16	3	8
17	2	6
18	2	4
19	5	5
20	1	4

Table H-5. Random Grid Coordinates for Area 5 (Fig. 11).

Random X and Y pairs were generated using a random number generator that follows a uniform (0,1) distribution.

The grid coordinates are as follows:
(XMIN, XMAX) = (.00, 12.00)
(YMIN, YMAX) = (.00, 2.00)
The initial random seed value = 5,491.00
The total number of points generated = 20

Selection	X-Coordinate	Y-Coordinate
1	4	0
2	7	0
3	9	1
4	3	0
5	1	2
6	10	1
7	3	2
8	3	1
9	0	1
10	6	0
11	9	2
12	1	1
13	10	0
14	7	2
15	2	1
16	9	2
17	7	2
18	9	0
19	5	0
20	1	1

Table H-6. Random Grid Coordinates for the Buffer Area (Fig. 12).

Random X and Y pairs were generated using a random number generator that follows a uniform (0,1) distribution.

The grid coordinates are as follows:
(XMIN, XMAX) = (.00, 7.00)
(YMIN, YMAX) = (.00, 13.00)
The initial random seed value = 12,360.00
The total number of points generated = 30

Selection	X-Coordinate	Y-Coordinate
1	6	2
2	6	13
3	1	0
4	6	8
5	2	11
6	3	1
7	7	5
8	5	6
9	4	8
10	6	9
11	0	10
12	4	3
13	5	4
14	4	8
15	6	1
16	7	10
17	2	12
18	7	9
19	5	2
20	1	12
21	4	4
22	1	12
23	1	13
24	3	8
25	0	3
26	6	1
27	2	4
28	1	9
29	7	9
30	1	1

APPENDIX I

CERTIFICATION STATEMENTS

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APPENDIX I

CERTIFICATION STATEMENTS

CERTIFICATION OF CLOSURE FOR THE 2727-S NONRADIOACTIVE DANGEROUS WASTE STORAGE FACILITY

When closure is completed, the U.S. Department of Energy-Richland Operation Office (DOE-RL) will submit to the regulating authority (by registered mail) both a self-certification and a certification by an independent registered professional engineer that the facility has been closed in accordance with the specification of this approved closure plan. All documentation supporting the certification of closure will be retained by the DOE-RL and Westinghouse Hanford and will be furnished to the Washington Department of Ecology or U.S. Environmental Protection Agency upon request.

PROFESSIONAL ENGINEER CLOSURE CERTIFICATION

The DOE-RL will engage an independent registered professional engineer to certify that the facility has been closed in accordance with this approved closure plan. The DOE-RL will require the professional engineer to sign the following document or a document similar to it:

> I, (name), a certified Professional Engineer, hereby certify, to the best of my knowledge and belief, that I have made visual inspection(s) of the 2727-S Nonradioactive Dangerous Waste Storage Facility and that closure of the aforementioned facility has been performed in accordance with the attached approved closure plan. (Signature, date, state Professional Engineer license number, business address, and phone number.)

OWNER/OPERATOR CLOSURE CERTIFICATION

The DOE-RL will self certify with the following document or a document similar to it:

> I, (name), an authorized representative of the U.S. Department of Energy-Richland Operations Office, located at the Federal Building, 825 Jadwin Avenue, Richland, Washington, hereby state and certify that the 2727-S Nonradioactive Dangerous Waste Storage facility, to the best of my knowledge and belief, has been closed in accordance with the attached approved closure plan and that the closure was completed on (date). (Signature and date)