Romic Environmental Technologies Corp. AZD 009015389

Chandler, Arizona TSD Facility

Section C

Waste Characteristics

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C WASTE CHARACTERISTICS

C1 INTRODUCTION

Romic has developed this Waste Analysis Plan (WAP) for the facility located in Chandler, Maricopa County, Arizona. The purpose of the WAP is to facilitate safe and effective treatment of each waste managed by the Facility and minimize the potential for adverse chemical reactions resulting from mixing and handling potentially incompatible wastes. The WAP provides procedures and controls that ensure that chemical and physical analysis is completed on a representative sample of each hazardous waste stream managed by the Facility. The WAP describes the sampling methodologies, analytical parameters and methods, hazardous waste acceptance procedures, and hazardous waste tracking system utilized for safe hazardous waste management at the Facility. Additionally, the WAP identifies specific methods for:

- The verification of off-site waste profiles
- The identification of waste compatibility and final disposition
- Process control (with respect to waste analysis)
- Ensuring compliance with Land Disposal Restriction (LDR) requirements for on-site generated wastes.

Refer to Figure C-1 (Facility Waste Receiving) for locations of existing and planned hazardous waste management areas at the Facility; sampling locations for incoming waste streams are also depicted in this figure.

C2 FACILITY PROCESSES AND ACTIVITIES

As discussed in this application, the Facility reclaims, recycles, treats, and stores hazardous waste using one or a combination of the following management options:

PRIMARY PROCESSES

Solvent Recycling
Ethylene Glycol Recycling
Fuel Blending
Wastewater Treatment
Neutralization
Inorganic Treatment
Solids Consolidation
Off-Site Transfer

MISCELLANEOUS MANAGMENT PROCESSES

Consolidation of Small Containers Aerosol Depressurization Drum Crushing Truck Wash

As depicted on Figure C-2 (Waste Process Overview), and Figure C-3 (Miscellaneous Management Processes), many of the primary and miscellaneous management waste treatment/handling processes listed above are comprised of several steps, and often cross over to one or more of the other waste management options. The analyses for each management option are presented in Section C5; the specific

operating parameters and procedures for each management option are described in detail in Sections D (Process Equipment) and E (Process Operations).

References are made within this plan regarding decisions that may be necessary regarding sampling, waste acceptance, and waste disposition. Unless specifically noted, personnel authorized to make these determinations shall be limited to the General Manager, Operations Manager, Laboratory Manager, Environmental Compliance Manager, or the Approvals Chemist.

C3 WASTE IDENTIFICATION AND CLASSIFICATION

C3.1 OFF-SITE WASTES ACCEPTED

The RCRA hazardous waste codes listed in Table C-1 may be accepted at the Facility for the indicated waste management options. This table also list the hazardous properties associated with each waste code. In summary, the Facility accepts non-hazardous wastes as well as the following hazardous wastes for storage, treatment, or transfer:

- All RCRA ignitable (D001), corrosive (D002), and toxic (D004 through D043) wastes
- RCRA reactive (D003) wastes which are described in 40 CFR 261.23(a)(1) through (a)(5)
- Most RCRA listed F, K, P, and U wastes

C3.2 RESTRICTED OFF-SITE WASTES

Any hazardous wastes not listed in Table C-1 found in containers will be rejected. Information on acceptable and non-acceptable waste types are communicated to customers by sales people, customer service, and the facility customer information ("audit") package. In addition, the following materials are restricted from storage or treatment at the facility:

- Infectious wastes
- Radioactive wastes
- Reactive wastes (explosives as described in 40 CFR 261.23(a)(6), (a)(7), or (a)(8)
- Polychlorinated biphenyls that are regulated for disposal under the Toxic Substances Control Act (TSCA) (i.e., generally, wastes containing PCB greater than or equal to 50 ppm)

C3.3 TYPICAL WASTE CHARACTERISTICS

For each management process listed in Section C2 above, a description of the typical hazardous waste streams processed are provided in Table C-3(A-K)¹. These descriptions have been assembled based on the

¹ Please note there is no Table C-2 in this Section of the Application.

Facility's experience handling the wastes, detailed chemical and physical analysis on representative samples of the wastes, generator supplied information, and existing published or documented data on hazardous wastes generated from similar processes.

- Typical waste names
- Typical processes/activities generating the wastes
- Typical federal waste codes
- Typical physical, chemical, and hazardous characteristics

These tables are provided for illustration purposes only. Wastes may be received from other process or with different waste names and/or permit-acceptable waste codes. See Table C-1 for a complete listing of wastes that may be managed by the Facility. Records of chemical and physical analysis and other information for each waste managed by the Facility are maintained on-site. See Section C4 for a description of methods used to obtain waste characteristic data.

C3.4 WASTES GENERATED ON-SITE

Hazardous wastes deemed to be generated by the Facility include hazardous wastes generated strictly from Facility operations. See Table C-1 for a listing of typical wastes codes managed and generated by the Facility.

Hazardous waste generated at the Facility are treated on-site whenever possible. Prior to shipment off-site for further management, hazardous waste are sampled, analyzed, and/or characterized in accordance with 40 CFR 262.11.

Further, hazardous wastes will be characterized to determine applicable LDR. The Facility will prepare appropriate LDR notifications and certifications for on-site-generated hazardous waste streams to be managed off-site. Generally, hazardous waste streams derived from received wastes and destined for offsite management will be subject to the same LDR standards as the incoming hazardous wastes.

C4 PROCEDURES FOR RECEIVING OFF-SITE WASTES

The Facility has developed a series of control procedures to determine the acceptability of specific wastes for management at the facility. Pre-acceptance procedures dictate the types of information the Facility must obtain to determine the acceptability of the hazardous waste for management. At a minimum, the Facility must obtain all the information required by 40 CFR 264.13(a)(1), as well as any other information necessary to manage a hazardous waste.

C4.1 PRE-ACCEPTANCE PROFILE PROCEDURE

The generator or designated representative completes (or provides sufficient information to allow the Facility to complete) a waste characterization form (profile) and submits it to the Facility (see Figure C-4 for sample form). The waste profile describes the waste stream and its pertinent physical and chemical characteristics, the process generating the hazardous waste, and also identifies all applicable state and federal hazardous waste codes. This information shall be representative of the waste stream and may be based on 1) existing published or documented data on the hazardous waste; 2) waste generated from similar processes; 3) data obtained by analytical testing (by an independent laboratory or by the Facility); or 4) generator knowledge. It is the generator's ultimate responsibility to provide accurate information.

Before a material is accepted at the facility for treatment or storage, the generator must certify the accuracy and completeness of information on the waste profile form. The generator will have determined that the waste is either:

- a listed or characteristic hazardous waste in subpart B and C of 40 CFR 261;
- a non-hazardous waste.

Further information will be requested, if required by the waste's ultimate management method, to determine the status of the hazardous waste stream under the Land Disposal Restrictions of 40 CFR 268. Additionally, the generator will certify whether the waste stream contains greater than 500 parts per million (ppm) volatile organic compounds (VOCs) as defined by 40 CFR 264.

The profile information will assist the Facility in determining whether the waste is acceptable and if so, the appropriate waste management process. No wastes will be accepted into the Facility without a completed profile form. The profile will become part of the permanent record in the Facility's file.

C4.2 PRE-ACCEPTANCE SAMPLING REQUIREMENTS

A representative sample may be obtained from the generator and analyzed prior to the waste arriving at the Facility. Specific analyses are dependent upon the nature of the waste and the management process to be used to handle the waste. The analyses and acceptance limits for wastes managed by the Facility are summarized in Tables C-4, C-5, and C-6. In addition to conducting the analysis to determine whether a particular waste meets Facility acceptance limits, a bench-scale test may be performed by the laboratory to determine which treatment option would be appropriate to manage the waste (described further in Section C5.3.2). This is most commonly performed on new waste streams destined for solvent recycling.

Prior to submitting a sample, generators are advised to obtain the sample of their wastes in accordance with 40 CFR 261. The generator must certify on the waste profile form that the sample submitted is representative of the waste stream.

The Facility may waive some pre-acceptance sampling requirements for certain waste streams, if a.) sufficient information is presented in the waste profile form, b.) the generator has identified the waste constituents based upon the knowledge of the process generating the hazardous waste or their own analysis, or c.) the waste is included in the following list (unless such analysis is needed to properly manage the waste and/or the Land Disposal Restrictions in 40 CFR 268):

- Laboratory chemicals packaged in accordance with 40 CFR 264.316. An inventory sheet describing the contents of the lab pack will be required in lieu of analytical data for this waste stream.
- Unused commercial products (i.e., off-specification or outdated materials) that have material safety data sheet (MSDS) sufficient to ensure safe and effective management of the wastes in compliance with this permit;
- Residue and debris from the clean up of spills or releases of:
 - a single known substance;
 - > a commercial product; or
 - other material for which a MSDS or waste profile can be provided.
- Equipment removed from service (i.e., ballasts, batteries, cathode ray tubes, fluorescent light bulbs, hydraulic equipment, switches, transformers, and electrical equipment) that contains hazardous waste which can be adequately identified for proper characterization and management;
- Debris from the demolition and/or dismantling of equipment from known processes and which is contaminated with hazardous waste which can be adequately identified for proper characterization and management;
- Chemical waste from laboratories. This includes the following materials from chemical laboratories or medical facilities: discarded containers of laboratory chemicals, lab equipment, lab clothing, debris from lab spills or cleanups, and lab packs.
- Empty containers of waste commercial products or chemicals. This applies to portable containers which have been emptied, but which may hold residuals of the product or chemical. Examples of containers are: portable tanks, totes, barrels, cans, bags, and liners.
- Closed Cartridge Filters (such filters being used to filter used dry-cleaning fluids or solids).
- Waste for which the past incoming waste shipment analyses have been consistent with the original paperwork submitted by the generator.
- Transfer Wastes (wastes which are accepted and stored on-site for transfer to another facility).

However, as outlined in Section C4.5, the Facility has strict receipt verification analysis procedures in place in order to screen out non-conforming waste streams.

C4.3 FINAL PRE-ACCEPTANCE EVALUATION

The pre-acceptance evaluation is concluded with documentation of the decision regarding the acceptability of the hazardous waste and the proposed method of management. Facility management's technical waste management decisions are based on the following:

- Profile description of the process generating the hazardous waste;
- Results of any analyses;
- Profile description of the chemical and physical properties of the waste;
- Any additional documentation, including information that the hazardous waste is subject to LDR standards of 40 CFR 268;
- Capability to manage the hazardous waste in a safe and environmentally sound manner;
- Hazardous waste management methods available; and
- Conditions or limitations of existing permits and regulations.

If the waste is found to be acceptable at the Facility, a profile number will be assigned. The profile numbering system includes a 5-digit profile prefix. The last digit of the prefix designates which waste management option is most likely to be used for the waste. The Facility may opt to utilize a different waste management option upon receipt of the waste based on the results of the receipt analysis of the waste, market conditions, or other factors.

If the waste is found to be unacceptable, the Facility will notify the generator that it is unable to accept the waste. A hazardous waste may be rejected during the pre-acceptance process for any of the following reasons:

- Incomplete or outdated information provided by the hazardous waste generator;
- The hazardous waste category is specifically excluded from acceptance at the Facility; or
- The hazardous waste cannot be treated, processed, or stored at the Facility.

As outlined in Section C4.5, the waste is subject to additional analytical testing and/or other type of profile verification upon arrival at the facility to ensure that the profile information is still appropriate for the waste stream.

C4.4 PROFILE AMENDMENT/RENEWAL PROCESS

At a minimum the pre-acceptance evaluation will be repeated or amended by the Facility as follows:

- when a generator notifies the Facility that the process generating the hazardous waste has changed;
- when results of inspections or analysis indicate that the hazardous waste received at the facility is significantly different from and does not match the hazardous waste designated on the accompanying manifest or pre-acceptance documentation; or
- biennially, whichever is more frequent.

A profile that is being re-certified must be accompanied by a statement, and an updated waste profile. The Facility may waive the sample requirements for re-certification of a hazardous waste if the past incoming hazardous waste shipment analysis for that particular waste have been consistent with the original paperwork submitted by the generator, or the waste stream is a solid and the generator has supplied sufficient profile information.

C4.5 INCOMING WASTE ACCEPTANCE EVALUATION

The purpose of the incoming waste acceptance evaluation procedure is to verify that the contents of each hazardous waste shipment match the identity (e.g., proper shipping name, hazard class, and waste code) of the hazardous waste as specified on the manifest and determined under the pre-acceptance process described above. This section pertains to waste shipments arriving at the Facility with an approved profile in place. If a shipment arrives at the Facility without an approved profile in place (excluding ten-day transfer wastes), the process described in Sections C4.1 through C4.3 will be followed before the waste is accepted into the Facility. In some cases, the waste shipment itself will provide the pre-acceptance sample, referred to as "Load-as-Sample" at the Facility. However, with the exception of ten-day transfer waste, a completed and approved profile form is necessary for all wastes to be treated or stored at the Facility.

The analyses for the primary waste streams managed by the Facility are listed on Table C-4, the Waste Acceptance Analysis Summary table. The analyses listed in these tables pertains to both pre-acceptance and incoming waste acceptance/verification requirements for the waste stream. Tables C-5 and C-6 list storage and process limitations for each waste stream managed by the Facility.

C4.5.1 INCOMING CONTAINER LOADS (LIQUIDS AND SOLIDS)

Incoming container loads (e.g., pails, buckets, drums, tote bins, tri-wall boxes, supersacks, or any other DOT-compliant containers) are handled according to the following steps:

C4.5.1.1 DOCUMENT INSPECTION

When trucks with containers arrive at the facility, the truck driver brings the hazardous waste manifest(s) into the hazardous waste tracking office where the documents are inspected. This inspection includes checking that:

- the manifest(s) are properly completed
- Romic is the designated facility,
- a current and valid profile number is written on the manifest,
- the manifest has the necessary signatures, and
- the Facility is permitted to handle the hazardous waste codes listed on the manifest.

Any discrepancies noted on the manifest by the Facility are resolved before the vehicle is allowed to be sampled or offloaded. This may involve contacting the generator or an authorized representative of the generator.

If the waste arrives without a profile number (excluding ten-day transfer wastes), or the number is invalid or expired, the waste will not be received by the Facility until a completed and/or updated profile form has been obtained from the generator.

C4.5.1.2 CONTAINER UNLOADING

If the manifest and profile information of the waste shipment is approved, the containers are unloaded from the truck under the canopy in front of Building #1 or moved to the sampling area (see Figure C-1). All containers are checked for proper labeling, integrity, and description listed on the manifest. Any discrepancies are noted. All discrepancies involving piece count, labeling, and/or container integrity are resolved with the generator, transporter, or an authorized representative of the generator prior to the transporter leaving the site. Containers are then moved to a designated sampling area.

All acceptable waste containers are then labeled with a unique label that links the container to the manifest and its individual line item for tracking and identification purposes. A code may also be present on the container label (e.g., "S") indicating that the particular container is to be sampled.

C4.5.1.3 SAMPLING AND ANALYSIS

For safety reasons, the laboratory will not sample any wastes without a properly and fully completed profile. For wastes arriving without a profile number (and therefore no pre-acceptance sample, if required), the waste shipment itself may also function as a pre-acceptance sample, after a completed profile form has been obtained.

The waste in containers are sampled (if required) in accordance with the frequency and methods specified in Section C5. The analyses for the primary waste streams managed by the Facility are listed on Table C-4, the Waste Acceptance Analysis Summary table. The analyses listed in these tables pertains to both pre-acceptance and incoming waste acceptance/verification requirements for the waste stream. Tables C-5 and C-6 list storage and process limitations for each waste stream managed by the Facility.

If the sample analysis results indicate that the waste conforms to its profile and the Facility's permitted waste acceptance parameters, the waste will be assigned a disposition code by the laboratory. The disposition code is a system used to indicate which treatment, storage, or disposal process will be utilized to handle the waste, and to address waste compatibility concerns. Example disposition codes used by the Facility for waste streams managed are listed in Tables C-7A and C-7B. The laboratory then returns the analytical results, along with the disposition code for the waste to operations personnel. Operations personnel then mark the label indicating the waste disposition code (management option) on the container.

If the sample analysis results indicate that the waste does not conform to the Facility's permitted waste acceptance parameters, the waste will not be accepted into the Facility. If the sample analysis results indicate that the waste does not conform to its profile (but does conform to the Facility's permitted waste acceptance parameters), the generator may be contacted at the discretion of Facility management. At this point, the generator will be given the option to update the profile form and/or to obtain approval for any waste change in management option to be used to handle the waste.

Discrepancies involving the analysis of the containers are typically resolved after the transporter leaves the site. Potential resolutions of discrepancies may include but are not limited to:

- Affixing proper labels on containers
- Placing a drum into an 85 gallon overpack
- Rejecting a container and returning it to the generator, and/or
- Correcting the manifest to correspond to container label and/or determined waste type

Unacceptable wastes are placed in an isolation area (see Figure C-1) when analysis indicates a problem. These wastes may be re-sampled and analyzed to confirm the initial test results. If the confirmation analysis indicates that the waste is still unacceptable, the generator is contacted to resolve the disposition of the unacceptable material.

C4.5.1.4 WASTE DISPOSITION

Based on the assigned disposition codes, the accepted containers are transferred to the appropriate storage buildings for storage prior to processing, or are transferred directly into the appropriate treatment process. Table C-7 includes a listing of example container storage locations by disposition codes. Section D includes detailed descriptions of waste handling methods for containerized waste and storage building descriptuibs; Section E includes descriptions of processes and associated equipment.

C4.5.2 INCOMING BULK LOADS

All incoming bulk loads (e.g., tanker trucks) are handled according to the following steps:

C4.5.2.1 DOCUMENT INSPECTION

When bulk trucks arrive at the facility, the truck driver brings the hazardous waste manifest(s) into the hazardous waste tracking office where the documents are inspected. This inspection includes checking that:

- the manifest(s) are properly completed
- Romic is the designated facility,
- a current and valid profile number is written on the manifest,

- the manifest has the necessary signatures, and
- the Facility is permitted to handle the hazardous waste codes listed on the manifest.

Any discrepancies noted on the manifest by the Facility are resolved before the vehicle is allowed to be sampled or offloaded. This may involve contacting the generator or an authorized representative of the generator.

If the waste arrives without a profile number, or the number is invalid or expired, the waste will not be allowed into the Facility until a completed and/or updated profile form has been obtained from the generator.

C4.5.2.2 SAMPLING AND ANALYSIS

For safety reasons, the laboratory will not sample waste until a profile has been fully and properly filled out by the generator. For wastes arriving without a profile number (and therefore no pre-acceptance sample, if required), the waste shipment itself may also function as a pre-acceptance sample. If the manifest and profile information on the waste shipment is approved, the truck will be instructed to move to a sampling area (if required). The locations of the bulk sampling areas are shown on Figure C-1.

The bulk waste is sampled (if required) in accordance with the frequency and methods specified in Section C5. The analyses for the primary waste streams managed by the Facility are listed on Table C-4, the Waste Acceptance Analysis Summary table. The analyses listed in these tables pertains to both pre-acceptance and incoming waste acceptance/verification requirements for the waste stream. Tables C-5 and C-6 list storage and process limitations for each waste stream managed by the Facility.

After the bulk waste sample is obtained, the truck will be instructed to move to the designated truck staging area immediately south of Storage Building #1 (See Figure C-1) until the sample analysis results are released from the Laboratory.

C4.5.2.3 WASTE DISPOSITION

If the sample analysis results indicate that the waste conforms to its profile and the Facility's permitted waste acceptance parameters, the waste will be assigned a disposition code by the laboratory (see Table C-7 for example disposition codes). The laboratory will then provide the analytical results along with the waste's disposition code to the Facility's operations manager or designee. The operations manager (or designee) will then instruct the truck driver to proceed to the appropriate off-loading area for the particular waste stream. See Section E for a description of the Facility's bulk truck off-loading procedures.

If the sample analysis results indicate that the waste does not conform to the Facility's permitted waste acceptance parameters, the waste will not be accepted into the Facility. If the sample analysis results indicate that the waste does not conform to its profile (but does conform to the Facility's permitted waste acceptance parameters), the generator may be contacted at the discretion of Facility management. At this

point, the generator will be given the option to update the profile form and/or to obtain approval for any waste change in management option to be used to handle the waste.

Discrepancies involving the analysis of bulk wastes are resolved before the transporter leaves the site. Potential resolutions of discrepancies may include but are not limited to:

- Rejecting the bulk load and returning it to the generator, and/or
- Correcting the manifest and updating the profile (if instructed by the generator) to correspond to waste type received

If initial analytical results of the hazardous waste identify the hazardous waste as unacceptable, the hazardous wastes may be re-sampled and analyzed to confirm the initial test results. If the confirmation analysis indicates that the hazardous waste is still unacceptable, the generator is contacted to resolve the disposition of the unacceptable material. Hazardous wastes will not be offloaded from bulk containers until the matter is resolved.

C4.5.3 ACCEPTANCE OF INCOMING WASTES FOR MISCELLANEOUS MANAGEMENT PROCESSES

Wastes destined for the Consolidation of Small Containers, Can Crushing, Aerosol Depressurization, and Drum Crushing Facility management options are visually inspected upon arrival at the Facility. If the physical appearance, label/inventory sheet information, color, and/or other physical properties do not conform to the profile information, the generator will be contacted to attempt to resolve the discrepancy. These wastes may be sampled by the Facility, rejected, or routed to an alternate treatment option or off-site facility.

C4.5.4 ACCEPTANCE OF UNIVERSAL WASTES

Universal wastes as defined by 40 CFR 273.9, received at the Facility will not be sampled for analysis. If the universal wastes are received by the Facility under a hazardous waste manifest, the Facility may recharacterize the waste (to universal waste) based on a visual observation of the waste and/or through contacting the generator of the waste to update the profile information.

C5 SAMPLING AND ANALYSIS

The Facility's sampling and analysis procedures are designed to obtain representative information used to evaluate a hazardous waste. A representative sample of a material is analyzed to:

- Verify generator supplied hazardous waste stream information on manifests and/or waste profile sheets;
- Determine safe and appropriate treatment or disposal processes based on waste characteristics; and
- Determine treatment process control information.

C5.1 SAMPLING METHODS AND EQUIPMENT

The Facility uses sampling methods presented in SW-846 (*Test Methods for Evaluating Solid Waste, 2nd edition, July 1982 and subsequent updates and revisions*) and ASTM (American Society for Testing Materials) methods. Romic-developed analytical methods are included in the Facility's Quality Assurance Procedure Manual, included as Appendix C-1 to this Section.

Sampling is performed by Facility personnel who are properly trained in representative sampling methodology and in accordance with established Standard Operating Procedures (SOPs). Personnel training is outlined in Section H, Training Plan.

During the sampling process, technicians make visual observations of the physical nature of the wastes, and note these observations. Sampler observations will typically include physical state, whether the waste exhibits multiple phases, whether the waste is comprised of a variety of different types of materials (e.g., rags, wipes, grease, pieces of wood) or is homogeneous, and other physical aspects of the waste.

The sampling devices are selected according to size and type of container and the specific material matrix involved. The sampling methods and equipment used for the various materials and types of containment vessels are presented in Table C-8, Sampling Methods and Equipment. Since the type of containers are variable, such as drums and various transport units (i.e., tanker trucks, roll-off boxes), the sampling devices selected are dependent on the size and type of container and the specific hazardous waste involved.

Samples are stored in containers that are compatible with the sampled material. All samples are stored in glass or plastic containers, except chlorinated solvents or chlorinated solvent-contaminated materials which are stored in glass or metal containers only; hydrofluoric acid is stored in plastic only. Solid samples and oils can be stored in plastic, glass, or metal containers. Containers are liquid-tight and range in size from 4 oz. to 1 gallon. Sample/container compatibility is summarized in Table C-9.

Once analysis is complete, samples are stored according to DOT hazard classification and segregated/consolidated into compatible groups. Final disposition of the consolidated samples is determined by the most suitable treatment process or off-site disposal option for the waste. For example, hazardous waste acid samples analyzed at the facility would typically be returned to the waste acid storage tank.

C5.2 FREQUENCY OF SAMPLING AND ANALYSIS

The frequency for sampling and analysis for both waste streams in containers and bulk waste shipments are outlined in this Section. For management processes that have unique sampling requirements, the sampling frequencies for these wastes are also described here.

C5.2.1 CONTAINERS

A minimum of 10 percent of all containers of each hazardous waste manifest line item received from off-site shall be randomly sampled. Exceptions include readily identifiable, common waste streams such as household hazardous wastes, paint and paint-related materials, aerosol cans, spray cleaners and lubricants. However, these materials are also sampled and evaluated for the appropriate management method after consolidation. Containers are randomly selected for sampling by the technician who checks the containers into the facility. As the containers are unloaded, each receives a waste receipt number. The technician chooses at least one out of every ten containers (lot) for sampling, based on the waste receipt number. When less than ten containers of a hazardous waste stream are received, at least one container is randomly selected for sampling by the technician assigning the waste receipt numbers. The Facility may also choose to composite samples from a maximum of ten containers from one manifest line item for analysis.

C5.2.2 INCOMING BULK, IN-PROCESS, AND OUTGOING WASTES

Each incoming bulk hazardous waste shipment (e.g., tanker, vacuum trucks), is sampled and analyzed before off-loading. At least one sample is collected for receipt analysis from each bulk shipment. If a bulk shipment arrives at the Facility in a multi-compartment tanker/vacuum truck with the same material in each compartment, and the shipment is indicated as one material from the same generator on the shipping papers (e.g., manifest), one discreet sample will be collected from each compartment and may be composited into one sample for analysis. If the compartments contain different types of wastes, both compartments will be sampled and analyzed individually. No separate tankers/vacuum trucks are composited together.

Storage and treatment tanks are sampled as needed before and/or during treatment, consolidation, transfer of materials, and permitted discharge to the sewer. Prior to treatment, consolidation, blending, and/or transfer, a representative sample may be obtained using an appropriate sampling device, or samples may be obtained from the circulating lines or sampling ports on each tank. During treatment, consolidation or transfer, representative samples are obtained from the circulating lines or sampling ports as needed.

Hazardous wastes sent off-site for treatment and/or disposal are sampled as required by the receiving facility, and as necessary to comply with the Land Disposal Restrictions in 40 CFR 268.

C5.2.3 INCOMING LAB-PACK WASTES

Incoming lab-pack wastes are not normally sampled, and are primarily placed in at the Northwest side bays of Storage Building #2 after shipment paperwork is approved. As with other containerized waste, a waste tracking number is assigned to the container, which links the container to its manifest, profile, and lab-pack inventory sheet. Additionally, as no sampling of lab-pack wastes is normally performed prior to managing this waste stream, the assigned tracking number also links the waste in the over-pack container immediately to the lab-pack disposition code. Therefore, a process-specific disposition code label is not required for lab-pack wastes.

After a thorough review of all profile, manifest, lab-pack inventory sheet, and container labeling information, lab-pack wastes are removed from the container for consolidation and/or re-packaging. This activity occurs in the consolidation area, and is further described in Section E. If the information on the label of any lab-packed waste does not appear to conform to the information on the inventory sheet, or the waste is otherwise questionable (e.g., missing label, additional containers not identified on the inventory sheet), the Facility will contact the generator to attempt to resolve the discrepancy. Some analysis (e.g., pH, cyanide screen, radiation screen) may be performed at the discretion of the laboratory manager to confirm information given by the generator; the lab-pack waste in question may also be subject to rejection or re-routing to an alternate facility.

Prior to transferring any consolidated lab-pack wastes to the final on- or off-site waste management method to be used, the wastes will be sampled for laboratory analysis. The sample is analyzed to ensure that the waste conforms to the acceptance parameters of the ultimate management method. The laboratory will then assign a disposition code to the consolidated wastes based on the sample analysis results.

C5.2.4 WASTES DESTINED FOR SOLIDS CONSOLIDATION

Non-homogenous wastes such as mixed debris, PPE, or other solid materials will be visually examined to the maximum extent practical. Samples may also be collected for analysis, at the discretion of the laboratory manager or designee. If a representative sample can be obtained from the full depth of the container, and the waste considered homogenous, the waste material will be sampled in accordance with Section C5.1 and C5.2.1 prior to consolidation. During the debris consolidation process, the drum is slowly emptied out into the hopper to enable the contents to be visually inspected. These procedures enable Facility personnel to properly determine the contents of the container prior to processing.

C5.2.5 TRUCK WASH

Residue remaining in tankers that contained waste that had previously been accepted at the Facility will not require additional sampling. Each tanker arriving at the Facility solely for the purpose of removing residues will be sampled and analyzed in accordance with Section C4.5.3.

C5.3 ANALYTICAL PARAMETERS AND RATIONALE

The usage and applicability of waste analyses are described herein. The analytical procedures and methods described or referred to in this text, whether standard procedures or procedures developed by the Facility through its operating experience, were selected to provide hazardous waste identification and provide the information required to properly and safely manage hazardous wastes. In each case, Facility management selects the appropriate parameters from those listed below according to the needs and requirements specified for profile analysis, incoming shipment identification analysis, and process analytical testing. The analytical parameters, methods, and rationale are identified in Table C-10. Additional parameters not listed may be added as required (by changes in regulations, processes, hazardous waste streams).

All incoming hazardous waste samples collected in accordance with C5.2 are subjected to waste receipt verification analysis, except as excluded in C4.2. Facility management may select additional supplemental analyses and/or bench-scale testing of the waste to obtain information required for efficient process control or to further evaluate a positive result from a mandatory screening test.

C5.3.1 WASTE VERIFICATION ANALYSIS

Waste verification analysis include basic screening procedures or "fingerprints" that provide a general identification of the hazardous waste, verify that the hazardous waste received is as described in preacceptance paperwork, and determine the management scenario that is most suitable. The results of the analysis also provide facility management with a level of confidence concerning the proper means of treatment, storage, and disposal.

The waste verification analysis for the primary waste streams managed by the Facility are listed on Table C-4; waste storage/process limits are listed on Tables C-5 and C-6. After characterization, hazardous waste that carries more than one characteristic or listed waste code will be treated to the most stringent treatment requirement for each hazardous waste constituent of concern.

The parameters and associated rationale for both waste acceptance and any supplemental analyses are described below (also refer to Table C-10, Analytical Parameters, Methods, and Rationale). Supplemental analyses provide additional information to assist Facility operations in determining the appropriate management option for a particular waste shipment, and are not required for waste acceptance purposes.

The rationale for performing all of the following analyses is first and foremost to determine conformance with the approved waste profile for the waste to provide for safe and compliant waste handling purposes.

Waste Acceptance Analysis

- Physical Description is used for wastes received destined for each of the waste management options
 to determine the general properties of the hazardous waste (color, physical state, layering, odor). This
 facilitates subjective comparison of the sampled waste with prior waste descriptions or samples. It
 applies to all incoming hazardous wastes and is used to identify any obvious change in the waste's
 physical properties.
- pH is used to indicate the pH and, in general, the corrosive nature of the hazardous waste. Results will
 be used to ensure that corrosive wastes are handled in areas, containers, and/or tanks suitable for
 storage and treatment of these types of hazardous wastes, and to assist in determining compatibility of
 wastes, when necessary.

The pH test may not apply to certain hazardous wastes, such as organic solvents, waste oil, or insoluble solid wastes, but will be performed on most incoming wastes such as wastes destined for solvent recovery, ethylene glycol recovery, fuel blending, waste water treatment, neutralization, inorganic treatment, and off-site transfer. For miscellaneous management options, a physical pH test will routinely be performed on wastes destined for the tanker truck wash management option only.

- pH values for wastes destined for the other miscellaneous management options will be based on profile information; physical pH testing may be performed if labeling, shipping papers, or physical observations of the waste deviate from the information on the waste's profile.
- Specific Gravity provides information regarding the general chemical composition of a waste and is
 used to compare and identify differences between the hazardous waste and prior hazardous waste
 descriptions. Specific gravity is performed on liquids that are to be stored and/or processed in onsite
 tanks or other process vessels to determine the suitability of the receiving vessel according to its
 engineering certification limits.
 - With the exception of the tanker truck wash miscellaneous management option, the specific gravity analysis is not routinely performed on waste destined for a miscellaneous management option, but is based on profile information. However, the analysis may be performed if labeling, shipping papers, or physical observations of the waste deviate from the information on the waste's profile.
- Radiation Screen is used to detect the presence of radioactive constituents in a waste. This screen applies to all incoming solid and liquid hazardous wastes destined for the Facility's primary management options. With the exception of the tanker truck wash miscellaneous management option, the radiation screen is not routinely performed on waste destined for a miscellaneous management option, but is based on profile information. However, the analysis may be performed if labeling, shipping papers, or other physical observations of the waste indicate the possible presence of radiation.

Solvent Composition/Screen determines the solvent composition of materials to be reclaimed or blended for alternate fuels or incineration. In addition, this test can be used to determine whether a liquid hazardous waste contains land disposal restricted organic components. This test also establishes a fingerprint of the hazardous waste that is compared to subsequent hazardous waste shipments to confirm the identity of the waste.

The rational for performing a solvent composition screen on wastes destined for the following Facility primary management options are as follows:

- Solvent Recovery: to determine solvent recovery suitability/treatment parameters;
- Ethylene Glycol Recovery: to indicate possible presence of solvents, and if present, to determine possible management options for solvents presence (i.e., recovery);
- Fuel Blending: may be preformed in lieu of BTU analysis;
- Waste Water Treatment: to set treatment parameters;
- Neutralization: to avoid potential flammability concerns in a unit where we are doing an acidbase neutralization reaction, which may generate heat;
- Inorganic Treatment: to avoid potential interference with the treatment process;
- Off-Site Transfer: to meet off-site facility receiving requirements, and/or to determine presence of land disposal restricted compounds.

For miscellaneous management options, the solvent composition analysis will routinely be performed only on wastes destined for the tanker truck wash management option. The solvent composition analysis is not performed on solid materials or inorganic liquids.

- Cyanide Screen is used to indicate the presence of cyanide in a hazardous waste. Should the screen
 indicate the presence of cyanide, further analysis may be performed to safely handle the waste and to
 meet regulatory requirements (see Total Cyanide analysis rational below). The screen is performed if
 the wastes profile indicates the possible presence of cyanides.
- Oxidizer Screen is used to determine if water-based hazardous wastes have the potential to exhibit the characteristic of an oxidizer. Wastes with this characteristic are known to be incompatible with ignitable wastes, and are therefore managed separately. This test applies to all water-based hazardous waste streams destined for the Facility primary management options and for the tanker truck wash miscellaneous management option. The presence of oxidizing components for wastes destined for the other miscellaneous management options will be based on profile information; physical oxidizer screening may be performed if labeling, shipping papers, or physical observations of the waste deviate from the information on the waste's profile.
- Sulfide Screen is used to determine the presence of sulfide in hazardous waste. Should the screen
 indicate the presence of sulfides, further analysis may be performed to safely handle the waste and to
 meet regulatory requirements (see Total Sulfide analysis rational below). The screen is performed if
 the wastes profile indicates the possible presence of sulfides.
- Heat of Combustion (BTU) is used for wastes to be blended for use as waste-derived fuel in cement kilns managed under the fuel blending, solids consolidation, off-site transfer, small container consolidation, can crushing, aerosol depressurization management options.
- Total Metals is used to quantify the concentration of specified metals in a hazardous waste in order to determine treatment parameters and/or to meet off-site receiving facility receiving requirements.
- The rational for performing total metals analysis on wastes destined for the following Facility primary management options are as follows:
 - Fuel Blending: to meet off-site facility receiving requirements;
 - Waste Water Treatment: to set treatment parameters (see Section E4.1.3.1)
 - > Inorganic Treatment: to set treatment parameters;
 - Solids Consolidation: based on profile information, to meet off-site facility receiving requirements;
 - Off-Site Transfer: to meet off-site facility receiving requirements, and/or to determine presence of LDR compounds.
- Total Halogens is used to quantify the concentration of halogens as necessary to comply with off-site receiving facility criteria for wastes managed under the fuel blending, solids consolidation, debris shredding, off-site transfer, and small container consolidation management options.

- PCBs is used to determine the concentration of polychlorinated biphenyls in a hazardous waste; the
 presence of which may have environmental, health, and safety consequences, and also may trigger
 other regulatory requirements Toxic Substance Control Act (TSCA). It is performed on any
 hazardous wastes suspected of containing PCBs, usually those that are oil containing.
- Total Cyanides is used to quantify cyanides as necessary to comply with LDR's and off-site receiving
 facility criteria for the solids consolidation, off-site transfer, and small container consolidation
 management options. Total cyanides is performed for wastes destined for the wastewater treatment
 and neutralization management options in order to determine acceptability of the waste and treatment
 parameters.
- Total Sulfides is used to quantify sulfides as necessary to comply with LDRs and off-site receiving
 facility criteria for the solids consolidation, debris shredding, off-site transfer, and small container
 consolidation management options. Total cyanides are performed for wastes destined for the
 wastewater treatment and neutralization management options in order to determine acceptability of
 the waste and treatment parameters.
- Flash Point is performed as necessary on wastes destined for ethylene glycol recycling, wastewater treatment, neutralization, inorganic treatment, off-site transfer, and small container consolidation management options to further characterize ignitable liquid hazardous wastes to establish proper storage modes and conformance with permit conditions.
- Compatibility Screen is used to determine the compatibility and potential reactivity of bulk shipments to be consolidated with other hazardous wastes in a tank.
- Ammonia is used to determine and quantify the presence of ammonia in a hazardous waste. This
 analysis is performed as necessary on wastes destined for ethylene glycol recycling, wastewater
 treatment, neutralization, and tanker truck management options in order to assist the Facility to meet
 POTW discharge requirements. This analysis may be performed on off-site transfer wastes in order to
 meet off-site facility receiving requirements.

C5.3.1.2 SUPPLEMENTAL ANALYSIS

Though generator knowledge is accepted, if the analysis is determined necessary, the following may be performed:

- Water Content provides information that the facility uses to determine blending requirements.
- Solids Content provides information that the facility uses to grade aqueous streams to be managed in
 the wastewater treatment process. Solids content also affects material handling (e.g., whether to place
 material in agitated tank).
- Viscosity provides material handling information (e.g., ability to pump material).
- Total Organic Constituents provides information that the facility uses to determine blending requirements and treatability.

- Volatile Organic Concentration provides information on applicability of air emission requirements. Primarily evaluated through review of profiles/chemical composition.
- Vapor Pressure provides information on applicability of air emission requirements. Primarily evaluated through process knowledge and review of profiles/chemical composition.
- Dioxins/Vinyl Chloride Screen provides information relating to status under LDR standards.

C5.3.2 BENCH SCALE TESTING

The Facility's laboratory may perform bench-scale testing on a sample of an incoming waste in order to determine the appropriate waste management option. For example, the bench-scale test would assist the Facility in determining the feasibility of recycling a particular waste through a thin film evaporator, fractionation column, vacuum distillation unit, or a combination of these processes (described in Section E). Small pilot units are used in the lab to represent the operating conditions of the facilities process equipment. The sample is "processed" through the pilot unit, and the treatment efficiency of the particular method is assessed through analytical testing of the waste, waste residuals, effluents, and/or by-products at various stages of treatment.

Bench-scale testing also allows the Facility to determine optimal treatment chemicals for processes such as wastewater treatment and inorganic treatment. Bench-scale testing is an integral and important step taken by the Facility to ensure that the appropriate treatment option is chosen, and the treatment of the waste is effective and safe.

C6 PROCEDURES FOR PRE-, IN-, AND POST-PROCESS OPERATIONAL CONTROLS

Romic will conduct sampling and analysis at various stages of the waste management processes for each waste stream to ensure incoming wastes are acceptable, determine waste compatibility, determine process option, monitor and verify the effectiveness of the management process, and to ensure any treatment effluents/emissions are within permitted discharge limits. A general description of the sampling and analysis operational controls for each waste stream managed by the Facility is presented in this section. Examples are listed below outlining the rational behind performing the analysis at various stages of processing. The specific rationale for each type of physical and chemical analysis is presented in Section C5.3.

Pre-Process Analysis includes the acceptance analysis outlined in Section C4.5, and may also consist of additional analyses conducted on consolidated waste streams to ensure the feedstock to a process can be managed by that process. Appropriate disposition of the waste and the resulting treatment/storage locations (i.e., storage buildings, tanks, etc.) are determined by the pre-process analysis procedures. The pre-process analysis may also include bench-scale testing. Additionally, the pre-process analysis procedures assist in screening out wastes that cannot (by permit conditions) be accepted at the Facility,

and assist Facility personnel in determining if there are any compatibility issues for each waste stream. Finally, the pre-process also enables the Facility to set process operational parameters.

Example: The results of pre-acceptance analytical testing are used to determine the feasibility of solvent recovery versus fuel blending, the compatibility of the waste stream with any wastes that it may be mixed with, the type of equipment to be used, and operating parameters for the distillation/fuel blending equipment.

In-Process Analysis enables the Facility to determine the progress of a treatment process, and whether and when certain changes need to be made during the process. Analyses may also be used during waste management processes to determine when the target product has been made and/or when alternate products are produced so that they can be sent to an appropriate disposition.

Example: During ethylene glycol recovery, two different types of wastewater are produced that require further treatment, along with the target ethylene glycol product, and a bottoms residual (See Section E2).

Post-Process Analysis confirms successful treatment of a waste, and verifies that the properties of the resulting material are suitable for the next management step. Residuals from a process treating wastes to meet land disposal restriction standards may undergo verification testing to ensure those standards are met. Other residuals are analyzed for appropriate disposition on-site or off-site.

Example: Post-process analysis is conducted to verify that wastewater resulting from on-site treatment methods does not exceed the Facility's wastewater discharge permit limits.

C7 PROCEDURES FOR IGNITABLE, REACTIVE, AND INCOMPATIBLE **WASTES**

In addition to the procedures outlined in this section, employees that perform job duties applicable to the management of ignitable, reactive, and incompatible wastes are trained in the proper handling, operational methods, and emergency procedures for safe management (see Section H, Personnel Training).

Also, tanks and containers are separated, based on compatibility, by secondary containment systems and appropriate distances according to UFC spacing and DOT requirements. Tanks at the facility are labeled according to the National Fire Protection Association (NFPA) placard system and the Hazardous Materials Information System (HMIS). See Sections D1 and D2 for a detailed discussion of tank and secondary containment areas at the Facility and some of the physical measures taken to ensure the safe handling of ignitable, reactive, and incompatible wastes.

C7.1 IGNITABLE WASTES

Potential ignitability characteristics will be assessed through the profiling process, or for on-site generated wastes, using process knowledge. The Setaflash closed cup apparatus may be used to determine the

flashpoint of a given liquid hazardous waste. Operating procedures and specialized equipment are in place at the Facility to ensure the safe handling of ignitable wastes, such as:

- Fingerprint analysis upon receipt of all wastes to determine conformance with the profile information
- Use of the disposition code system to indicate the waste type and ultimate management option to be used to handle the waste
- Grounding and bonding of transfers of ignitable wastes between containers, trucks, and tanks
- The use of non-sparking tools (bung wrenches, etc.)
- Strict no smoking policies
- Any welding work performed at the Facility requires a "Hot Work" permit and established precautionary procedures

C7.2 REACTIVE WASTES

Potential reactivity characteristics will be assessed through the profiling process for off-site generated wastes, or for on-site generated wastes, using process knowledge. The review of the waste profile (and shipping papers for off-site generated wastes), includes an inspection for the presence of any of the following:

- Wastes dangerous when wet/water reactives
- Organic peroxides
- Vinyl benzyl chloride
- Unreacted monomers, resins, isocyanates (e.g., TDI/Toluene diisocyanate, MDI, epoxy Part A), with the potential to cause exothermic polymerization reactions
- Reactive wastes
- Wastes with reactive constituents

C7.3 INCOMPATIBLE WASTES

The Facility takes many precautions to ensure that incompatible wastes are not mixed together. The adverse consequences of mixing incompatible wastes include heat generation, fires, pressure in closed containers, explosions, generation of toxic or flammable gases, and/or polymerization.

Waste-to-waste and waste-to-vessel compatibility is addressed by the Facility at three separate points, during the pre-acceptance waste profiling stage, during the receipt analysis stage, and at the operations level. During the pre-acceptance profiling stage, a thorough review of the waste profile is conducted specifically for the presence of any possible incompatible wastes, and whether the chemical composition

of the waste is appropriate for the management method to be used. During the receipt analysis stage, the laboratory evaluates all wastes for compatibility using physical and chemical analysis information.

Facility compatibility guidelines and references include the following:

- DOT Segregation Table (from 49CFR)
- Hawley's Condensed Chemical Dictionary
- Sax's Dangerous Properties of Industrial Materials
- OSHA regulations

Disposition codes are then assigned by the laboratory indicating to operations personnel which storage and/or processing options to use, and to ensure incompatible wastes do not mix and cause adverse reactions. See Section C7.3.5 and C7.3.7 for additional information regarding waste disposition codes.

C7.3.1 METHODS OF SEGREGATION

There are many methods of segregating incompatibles including:

- Separation by a distance of more than 20 feet.
- Separation by wall, berm, spill pallet, or other confinement devices.
- Placing small containers inside larger containers (e.g., overpacks, lab packs, etc.)

It is assumed that if potential incompatible chemicals have been mixed within a container by the generator without adverse consequences that the chemicals are compatible with each other inside the container, and with similar chemicals outside the container. As an example, a container with an acid and an organic solvent mixed together without an adverse reaction would be compatible enough to be stored with other containers of acids or organic solvents.

C7.3.2 SAMPLING AREAS

- Facility personnel will inspect the integrity of the containers as they are being unloaded off the transport vehicle and placed in the container unloading or sampling areas.
- If Facility personnel see the following DOT labels on the side of the container, they will be placed in designated sampling areas (see section D2, D9). If the containers are lab packs (chemical inventories will be attached to the containers) and they are not required to be placed on the spill pallets.
 - DOT 4.3 Dangerous When Wet
 - DOT 5.1 Oxidizers
 - DOT 5.2 Organic Peroxides
 - DOT 8 Corrosive (liquids only)

• Once the above containers are sampled and dispositioned by the lab, the warehouse personnel will move the containers to the appropriate storage areas.

C7.3.3 GENERAL CONTAINER REQUIREMENTS

Incompatible wastes or incompatible wastes and other materials will not be placed in the same container, unless the requirements of 40 CFR 264.17 (b and c) are complied with. Hazardous waste will not be placed in an unwashed container that previously held an incompatible waste or material.

C7.3.4 GENERAL TANK AND TANK SYSTEMS REQUIREMENTS

Incompatible waste, or incompatible wastes or materials, will not be placed in the same tank system, unless the requirements of 40 CFR 264.17 (b and c) are complied with. Similarly, hazardous waste will not be placed in a tank system that has not been decontaminated and that previously held an incompatible waste or material, unless compliant with the requirements of 40 CFR 264.17 (b and c).

C7.3.5 SAMPLING AND ANALYSIS

Trained technicians sample and analyze incoming wastes in accordance with Sections C4, C5, C6, and established Facility SOPs. As outlined in Section C4, sampling and analysis for compatibility purposes may be required or may be conducted if profile information or incidental observations (color, odor, labeling or manifest information) indicate possible presence of incompatible materials. When necessary, laboratory personnel are trained to conduct the specific compatibility reviews listed below.

Liquids

Potentially incompatible liquids (and semi-solid materials, if enough liquid present to conduct tests) that are to be consolidated may undergo the following testing for compatibility purposes:

- pH (either direct measurement using pH paper or measurement of prepared 1:1 mixture of waste and water)
- Oxidizer screen (test strip)
- Cyanide screen (test strip)
- Waste compatibility test (if wastes to be mixed into a tank and the wastes are not known to be compatible). Sample of waste is mixed with sample from target tank; if temperature rise of 10 °C or greater or a violent reaction is observed, material deemed incompatible with material in target tank.

Solids

Although no specific compatibility tests are conducted for solids, a thorough review of the waste profile is conducted for solid wastes to be consolidated specifically for the presence of any of the following:

- Oxidizers
- Wastes dangerous when wet/water reactives
- Organic peroxides
- Mineral acids
- Vinyl benzyl chloride
- Unreacted monomers, resins, isocyanates (e.g., TDI/Toluene diisocyanate, MDI, epoxy Part A), with the potential to cause exothermic polymerization reactions
- Batteries with corrosive liquids
- Reactive wastes
- Wastes with reactive constituents
- DOT Flammable solids (DOT Hazard Class 4.1) other than those with a proper shipping name of "Solids containing flammable liquids"
- Facility personnel also perform a physical observation of solid waste samples specifically for the presence of the following:
- Containers suspected of containing any of the chemicals noted above
- Solid wastes with free liquids
- Glass chemical containers (broken or intact)

C7.3.6 WASTE DISPOSITION CODE DESIGNATION

The assignment of disposition codes is another method used at the Facility to ensure that incompatible wastes are not mixed. As outlined in Section C4.5, and based on storage and process limitations (Tables C-5 and C-6), compatibility results, customer preferences, and Facility compatibility guidelines, the Facility assigns a waste disposition code to each waste received. This disposition code will then accompany the waste (via a marking for wastes in containers, or via paperwork for bulk waste shipments). Containers making up a single waste shipment may show sufficient variability to require differing management methods. In this case, different containers received under the same profile may be assigned and labeled with different disposition codes; however all wastes will be treated to the most stringent applicable requirement. Example disposition codes are shown in Table C-7.

C7.3.7 WASTE TO VESSEL COMPATIBILITY

Romic considers waste-to-vessel compatibility when assigning disposition codes. Vessel compatibility corresponds closely to the overall process types individual disposition codes fall under. Waste-to-vessel compatibility by process type is outlined in Section D1 and D2.

C7.3.8 OPERATIONS

Disposition codes provide information to operations personnel regarding general waste compatibility characteristics via the designated management methods, segregation, and appropriate storage areas.

Certain storage areas are designated for the storage of materials posing specific compatibility concerns. Building #2 (See Figure C-1) has storage bays separated by a seven-foot high concrete wall. Bays of Storage Building #2 are used in segregating incompatible materials. See Section D for more details.

C8 PROCEDURES TO ENSURE COMPLIANCE WITH LDR REQUIREMENTS

Romic treats hazardous wastes onsite with the primary goal to recover materials for sale (e.g., solvent recovery) or to produce a hazardous waste fuels or incinerable materials. Some wastes are also sent for off-site landfilling. Generally, hazardous waste streams derived from received wastes and destined for off-site management will be subject to the same LDR standards as the incoming hazardous wastes.

When products are made, the materials exit the LDR requirements. When Romic sends other materials off-site as RCRA fuels, incinerable waste, or to be landfilled the waste codes and LDR requirements are passed through the facility to the ultimate disposal location. Incoming RCRA wastewater and wastewater treatment residuals from other processing on-site exit the LDR requirements when they are placed into the discharge to the POTW under a permit. Romic performs testing of the wastewater discharge in accordance with their POTW permit conditions.

Residuals from a process treating wastes for off-site disposal may in some cases undergo verification testing to determine whether the LDR standards of 40 CFR 268 are met. Testing would be done to certify that no further treatment is required to meet LDRs or that the waste was treated by the prescribed technology.

The Facility will prepare appropriate LDR notifications, certifications, and records for on-site generated hazardous waste streams to be managed off-site. In addition to the LDR notification, any additional data for the waste stream (e.g., waste profile sheets, analytical data), as required by the receiving facility, will be provided to the designated treatment facility.

Special requirements apply to lab packs, F001-F005 waste streams, leachate, recycled materials, and contaminated soils. The Facility will prepare a one-time notice to accompany the first shipment of any lab pack streams subject to the alternative treatment standards of 40 CFR 268.42(c) to any off-site facility. The notice will contain EPA waste codes applying to the lab pack stream, the manifest number of the initial shipment, and the certification language in 40 CFR 268.7(a)(9)(A). The Facility will list constituents of concern on any notices for F001-F005 and F039 wastes, unless the waste will be treated and monitored for all constituents.

The Facility will prepare a one-time notice to accompany the first shipment of any contaminated soil waste stream to any off-site facility. The notice, in addition to standard LDR information, will include certification language in accordance with 40 CFR 268.7(a)(2)(A).

C9 RECORDKEEPING AND REPORTING

This section describes the recordkeeping procedures for hazardous waste analysis. All records of test results, hazardous waste analyses, or other determinations performed for the purpose of identifying, treating, storing, or disposing of hazardous waste are kept in the operating record until final facility closure. Manifests of on-site generated hazardous waste signed by the initial transporter are kept at least 3 years, or until a signed copy is received from the receiving facility. The signed facility copy is kept at least 5 years. Original copies of waste profiles are filed at the Facility site, and electronic versions of profiles are available to plant personnel. Records required by this WAP may be kept in either paper or electronic format.

The facility will also keep records of the name and location of each entity receiving a recycled hazardous waste-derived product per 40 CFR 268.7(b)(6).

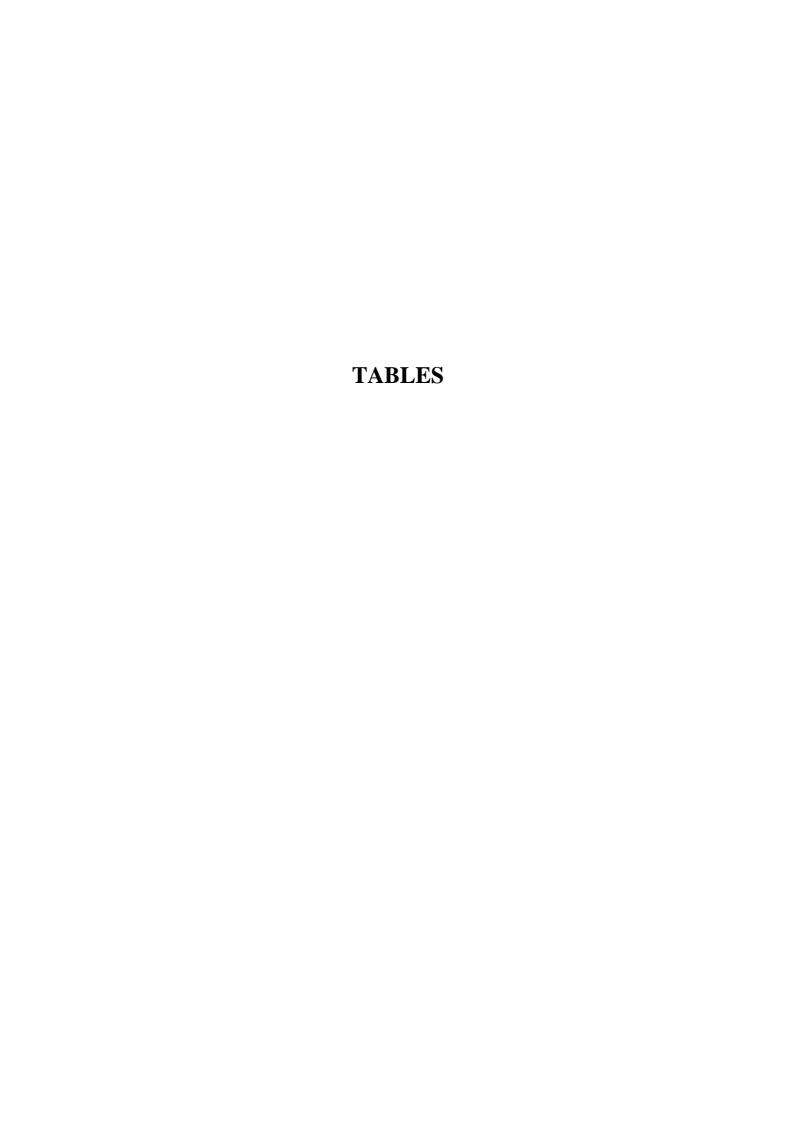


TABLE C-1
EPA WASTE CODES AND FACILITY WASTE MANAGEMENT OPTIONS

						PROC	ESS SY	PROCESS SYSTEM HANDLING WASTE	HAND	LING V	VASTE					Γ
EPA WASTE CODE	WASTE TYPE (see note 3)	Solvent Recovery	Етһуlепе Сіусоі Кесусііпg	Fuel Blending Liquefaction	Wastewater Treatment	Neutralization	Inorganic Treatment (note 4)	Solids Consolidation	Shredding	Small Container Management	gandzuri) na	noinziruzesuqsU lozo19A	nsaW mura	Тгиск Wash	Off-Site Transfer	Generated Onsite
D001	Ignitable (I)	×		_	_	_		X	X	X	Х	Х	Х	×	×	×
D002	Corrosive (C)	×		-	×	×	×	×		×	Х	X	×	×	×	×
D003	Reactive (R)				x	x) :	Х	X		Х		X	Х		X	×
D004	Arsenic	Х		X X	X	\mathbf{X}	X	X	X	Х	X		X	X	Х	×
D005	Barium	X					X	X	×	X	X		Х	X	X	×
D006	Cadmium	X		Х	x :	X :	X	X	X	X	X		X	X	Х	X
D007	Chromium	X					X	×	×	×	X		X	×	×	×
D008	Lead	X	X	X X			X	X	X	X	Х		Х	X	Х	Х
D009	Mercury	X					X	X	X	X	Х		Х	×	X	×
D010	Selenium	×		×	_	×	×	×	×	×	Х		×	X	×	×
D011	Silver	X		XX	X		X	X	Х	X	X		X	Х	X	X
D012	Endrin			XX	X			X		×			Х	Х	X	×
D013	Lindane			X	X			X		X			X	X	X	×
D014	Methoxychlor							X		×			X	×	×	×
D015	Toxaphene			X X	X			X		X			Х	X	X	×
D016	2,4-D				×			×		×			×	×	×	×
D017	2,4,5-TP (Silvex)				×			×		×			×	×	X	×
D018	Benzene	X		×	×	×	×	×	×	×			×	×	×	×
D019	Carbon Tetrachloride	X		X	×			×	×	×			×	×	×	×
D020	Chlordane	X						×	×	×			×	×	×	×
D021	Chlorobenzene	X		_	_			X	X	Х			X	X	X	×
D022	Chloroform	×		X	X			X	X	Х			X	Х	X	X
D023	o- Cresol	×		X X				X	X	X	X		X	X	X	X
D024	m- Cresol	X		X				X	X	Х	X		X	Х	×	×
D025	p- Cresol	X		Х	X			X	X	Х	×		×	×	×	×
D026	Cresol	X		X	-			×	×	×	×		×	×	×	X
D027	1, 4- Dichlorobenzene	×			×			×	×	×			×	×	×	×
D028	1, 2- Dichloroethane	×		X	_		_	×	×	×			×	×	×	×

"X" = waste code is managed in the indicated process system

					٦	300a	oc cvc	PROCESS SVSTEM HANDI INC	AT YOU	THE TAY A CITE	<u> </u>				
					֡֡֡֡֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֡	3	01000	EM IDA	INDIA	27 W 25	77.	ŀ			
EPA WASTE CODE	WASTE TYPE (see note 3)	Solvent Recovery	Ethylene Glycol Recycling	Fuel Blending Liquefaction	Wastewater Treatment	Meutralization	(4 эгол) тәттәтТ гіпьгголі	Solids Consolidation	gnibbərd2 sirdəU	Small Container Management	Can Crushing Aerosol Depressurization	ysv _M unıq	Luck Mash	Off-Site Transfer	Senerated Dasite
D029	1, 1- Dichlorethylene				×			×		×		×	\dashv	×	×
D030	2, 4- Dinitrotoluene		`	Н	×			×		×		×	\dashv	×	×
D031	Heptachlor (and its epoxide)		X	X	Х			X		×	• •	×	×	×	×
D032	Hexachlorbenzene	X	7	X	×			×	×	×	\dashv	×	×	×	×
D033	Hexachlorobutadiene	X	`	X X	×			×	×	×		×	×	×	×
D034	Hexachloroethane	X	ζ	X	×			×	×	×		×	×	×	×
D035	Methyl Ethyl Ketone	X	^	XX	X			×	×	×	×	×	×	×	×
D036	Nitrobenzene	X	7	X X	X			×	×	×	_	×	×	×	×
D037	Pentachlorophenol		7	X X	X			×		X		×	×	×	×
.D038	Pyridine	X	7	x x	×			×	×	X	×	×	×	×	×
D039	Tetrachloroethylene	X	7	х, х	X			X	X	X	X	×	×	×	×
D040	Trichloroethylene	×	7	x x	×			Х	X	X 2	X	X	X	X	×
D041	2,4,5-Trichlorophenol	X	~	XX	X			Х	X	X		×	X	X	×
D042	2,4,6-Trichlorophenol	X		X X	Х			X	Х	X		×	×	×	×
D043	Vinyl Chloride	×		X	×			×	×	×	-	×	×	×	×
F001	Spent halogenated solvents used in degreasing (see list in 40 CFR 261.31)	×		×	×			×	×	X		×	×	×	×
F002		×		X	×			×	×	×		×	×	×	×
F003	Spent non-halogenated solvents (see list in 40 CFR 261.31) that are ignitable but not toxic	×		×	×			×	×	×		×	·	×	×
F004	Spent non-halogenated solvents (see list in 40 CFR 261.31)	×		×	×			×	×	×	\dashv	×	×	×	×
F005	Spent non-halogenated solvents (see list in 40 CFR 261.31) that are ignitable and toxic	×		×	×			×	×	×		<u> </u>	, ×	×	X
F006	Wastewater treatment sludges from electroplating operations			X	×	×	X	×		×		×	X	×	×
F007	spent cyanide plating bath solutions from electroplating operations (R,T)			×	×	×	×	,×		×		. ×	×	×	×
F008	plating bath residues from the bottom of plating baths from electroplating operations where evanides are used in the process (R,T)			X	×	×	Х	×	,	Х		×	×	×	×
			1												i

	Generated Onsite	×	×	X	×	×	X	×	×
	Transfer	×	×	X	×	×	×	X	×
	Тгиск Wash	×	X	Х	×	×	×	X	×
	үs л М тилО	×	X	X	×	×	×	×	X
	herosol Depressurization				,				•
ASTE	gnideur) ແນວ								
SYSTEM HANDLING WASTE	Small Container Management	X	×.	X	X	×	X	×	×
IANDL	Snibbəris SirdəO			,					
тем н	Solids Consolidation	×	X	X	X	×	×	X	×
SS SYS	(ь эюп) тэттэгТ этгглогд	×				×			
PROCESS	Neutralization	Х				×			
Ъ	Wasiewaier Treatment	×	X	X	×	×	×	×	×
	Liquefaction	Х	Х	Х	×	×			
	Fuel Blending	×	Х	Х	X	×			
	Ethylene Glycol Recycling			:		:			
	Solvent Recovery								
	WASTE TYPE (see note 3)	spent stripping and cleaning bath solutions from electroplating operations where cyanides are used in the process (R,T)	Quenching bath residues from oil baths from metal heat treating operations where cyanides are used in the process.	Spent cyanide solutions from salt bath pot cleaning from metal heat treating operations.	Quenching waste water treatment sludges from metal heat treating operations where cyanides are used in the process.	Wastewater treatment sludges from the chemical conversion coating of aluminum except from zirconium phosphating in aluminum can washing when such phosphating is an exclusive conversion coating process	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tri- or tetrachlorophenol, or of intermediates used to produce their pesticide derivatives. (This listing does not include wastes from the production of Hexachlorophene from highly purified 2,4,5-trichlorophenol.).	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of pentachlorophenol, or of intermediates used to produce its derivatives.	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tetra-, penta-, or hexachlorobenzenes under alkaline conditions.
	EPA WASTE CODE	F009	F010	F011	F012	F019	F020	F021	F022

	T	(excation) ation) produced ation produced ations of loropuly four fichlocal actions of the control of the cont	s was ıd rea ic hy	nsed la pro catal catal naving	s (exc zation) mami ment j	ded un	Residues resulti contaminated w F026, and F027
PROCESS SYSTEM HANDLING WASTE	WASTE TYPE (see note 3)	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production of materials on equipment previously used for the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tri- or tetrachlorophenols. (This listing does not include wastes from equipment used only for the production or use of Hexachlorophene from highly purified 2,4,5-trichlorophenol.).	Process wastes, including but not limited to distillation, residues, heavy ends, tars, and reactor clean-out wastes, from the production of certain chlorinated aliphatic hydrocarbons by free radical catalyzed processes.	Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These cholorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production of materials on equipment previously used for the manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tetra-, penta-, or hexachlorobenzene under alkaline conditions.	discarded unused formulations containing tri-, tetra-, or pentachlorophenol or discarded unused formulations containing compounds derived from these chlorophenols (H)	Residues resulting from the incineration or thermal treatment of soil contaminated with EPA Hazardous Waste Nos. F020, F021, F022, F023, F026, and F027.
	20јлепі Кесолегу					-	
	Enel Blending			×			
PR	noiseleurion			×			
	Wastewater Treatment	×	X	×	×	×	×
SOCES	Neutralization						
SYST	Inorganic Treatment (note 4)						
EM HA	Solids Consolidation	×	×	×	×	×	×
NOLIN	Debris Shredding	^				, ,	
3 WAS	Small Container Management Can Crushing	×	×	×	×	×	×
Ξ	noitazirussərqəQ losorəA	· · · · · · · · · · · · · · · · · · ·					
	hspW murd	×	×	×	×	×	×
	Іспек Мазћ	×	×	×	×	×	×
	Transfer	×	×	×	×	×	×
	Generated Onsite	×	×	×	×	×	×

					П				
	Generated Onsite	×	×	×	×	×	×	×	×
	releast Transfer	×	×	×	×	×	×	×	×
	ңго _М үэпл <u>Т</u>	×	×	×	×	×	×	×	×
	Mash Wash	×	×	×	×	×	×	×	×
	herosol Depressurization								
ASTE	ջոննչուշ ունշ								
ING W	Small Container Management	X	×	×	Х	X	X	×	×
ANDL	Bebris Shredding				×	×	X		
PROCESS SYSTEM HANDLING WASTE	Solids Consolidation	. ×	×	×	×	×	X	×	×
SSYS	(4 sion) insamerT zinegronl				×	×	Х		
ROCES	Neutralization								
PRC	Wastewater Treatment	X	×	×	X	×	×	×	×
	Liquefaction	X	X	×	X	×	×	X	×
	ष्ट्राह्मा स्थित होता है।	X	×	×	×	×	×	×	X
	Ефудене Срусој Кесусјіпд								,
	Solvent Recovery								
	WASTE TYPE (see note 3)	Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that use or have previously used chlorophenolic formulations.	Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that use creosote formulations. This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.	Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that use inorganic preservatives containing arsenic or chromium. This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.	Petroleum refinery primary oil/water/solids separation sludge	oil/water/solids separation sludge - any sludge and/or float generated from the physical and/or chemical separation of oil/water/solids in process wastewaters and oily cooling wastewaters from petroleum refineries.	Leachate (fiquids that have percolated through land disposed wastes) resulting from the disposal of more than one restricted hazardous waste classified as hazardous under article 4 of this chapter.	Bottom sediment sludge from the treatment of wastewaters from wood preserving processes that use creosote and/or pentachlorophenol.	Wastewater treatment sludge from the production of chrome yellow and orange pigments.
	EPA WASTE CODE	F032	F034	F035	F037	F038	F039	K001	K002

"X" = waste code is managed in the indicated process system

		Truck Wash Off-Site Transfer Generated Onsite	X X	X X	X	×	X X	х	x x	X X	×	×	X	×	X X X	X X	×	**
		<i>цѕо</i> <u>М</u> шпл(I	×	×	×	×	×	X	Х	×	×	×	×	×	×	×	×	^
. 41.1	11.	Can Crushing Aerosol Depressurization		·		`					 							
NC WA	NG WA	Small Container Management	X	X	×	×	X	X	X	×	×	×	×	×	×	×	×	×
HAMIDI	HANDL	gnibborh2 zirdoU	,							X	×	×	×	×				
CVCTTCM	SYSTEM HANDLING WASTE	(norganic Treatment (note 4) Solids Consolidation	X	X	X	×	×	X	×	×	×	× ×	X	X	×	×	×	*
SEC	PROCESS	Neutralization																
14	Š	Wastewater Treatment	Х	×	X	Х	Х	X	X	×	×	×	×	X	×	X	Х	×
		Fuel Blending Liquefaction	х х	×	×	X	x	x	×	×	х	×	X	X	X	х	х	×
		Етһулепе Сіусоі Кесусііпд		-				:										
		Solvent Recovery								×	×	X	×	Х				
		WASTE TYPE (see note 3)	Wastewater treatment from the production of molybdate orange pigments	Wastewater treatment sludge from the production of zinc yellow pigments	Wastewater treatment sludge from the production of chrome green pigments	Wastewater treatment sludge from the production of chrome oxide green pigments (anhydrous and hydrated).	Wastewater treatment sludge from the production of iron blue pigments	Oven residue from the production of chrome oxide green pigments	Wastewater treatment sludges generated in the production of creosote	dissolved air flotation (DAF) float from the petroleum refining industry	slop oil emulsion solids from the petroleum refining industry	heat exchanger bundle cleaning sludge from the petroleum refining industry	API separator sludge from the petroleum refining industry	tank bottoms (leaded) from the petroleum refining industry	Emission control dust/sludge from the primary production of steel in electric furnaces	Spent pickle liquor generated by steel finishing operations of facilities within the iron and steel industry (SIC Codes 331 and 332).	Acid plant blowdown slurry/sludge resulting from the thickening of blowdown slurry from primary copper production.	Surface impoundment solids contained in and dredged from surface
		EPA WASTE CODE	K003	K004	K005	M006	K007	K008	K035	K048	K049	K050	K051	K052	K061	K062	K064	

EPA WASTE CODES AND FACILITY WASTE MANAGEMENT OPTIONS

	EPA WASTE CODE	K066	K069	K084	K086	K087	K088	K090	K091	K100	K102	K156
	TE WASTE TYPE (see note 3)	Sludge from treatment of process wastewater and/or acid plant blowdown from primary zinc production.	Emission control dust/sludge from secondary lead smelting. (Note: This listing is stayed administratively for sludge generated from secondary acid scrubber systems. The stay will remain in effect until further administrative action is taken. If EPA takes further action effecting this stay, EPA will publish a notice of the action in the Federal Register.)	Wastewater treatment sludges generated in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.	solvent washes and sludges, caustic washes and sludges, or water washes and sludges from cleaning tubs and equipment used in the formulation of ink from pigments, driers, soaps, and stabilizers containing chromium and lead;	decanter tank tar sludge from coking operations.	Spent potliners from primary aluminum reduction	Emission control dust or sludge from ferrochromiumsilicon production	Emission control dust or sludge from ferrochromium production	Waste leaching solution from acid leaching of emission control dust/sludge from secondary lead smelting.	Residue from the use of activated carbon for decolorization in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds	Organic hazardous waste (including heavy ends, still bottoms, light ends, spent solvents, filtrates, and decantates) from the production of carbamates and carbamoyl oximes. (This listing does not apply to hazardous wastes generated from the manufacture of 3-iodo-2-propynyl n-butylcarbamate.)
	Solvent Recovery				×							
	Ethylene Glycol Recycling											
	Fuel Blending	X	×	х	<u>~</u> ×	×	×	×	X		×	×
	Liquefaction Wastewater Treatment	X	× ×	X	×		X	· ×	XX	×		×
PROC	noitexilation				×			, .				
ESS SY	Inorganic Treatment (note 4)				×							
PROCESS SYSTEM HANDLING WASTE	Solids Consolidation	×	×	×	×	X	×	×	×,	×	×	×
HANDI	gnibbəril2 sirdəQ											
ING W	Small Container Management	X	×	X	×	X	×	Х	X	×	х	×
ASTE	grinlsurD nbD											
ŀ	hoitaziruzzsuqsU lozorsA											
	nand	×	×	×	×	X	×	×	×	×	×	×
	үгиск Магћ	×	×	×	×	X	×	×	×	×	×	×
:	Off-Site Transfer	×	×.	×	×	X	×	×	×	×	×	×
	Generated Onsite	Х	×	×	×	X	×	X	X	×	×	×

TABLE C-1
EPA WASTE CODES AND FACILITY WASTE MANAGEMENT OPTIONS

							l					١				
						PRO	CESS S	PROCESS SYSTEM HANDLING WASTE	HAND	LING	WASTE					
EPA WASTE CODE	WASTE TYPE (see note 3)	Зојлепі Кесолегу	Ethylene Glycol Recycling	Fuel Blending	Liquefaction	Wastewater Treatment Veutralization	Inorganic Treatment (note 4)	Solids Consolidation	Sanibbərd2 sirdə(I	Small Container Management	ean Crushing	herosol Depressurization	ntsaW mura	Truck Wash	relearT Site Transler	91ianO batarana
K157	Hazardous wastewaters (including scrubber waters, condenser waters, washwaters, and separation waters) from the production of carbamates and carbamoyl oximes			×	×	×		×		×			×	×	X	X
K158	Bag house dusts and filter/separation solids from the production of carbamates and carbamoyl oximes.			×	×	×	×	×		×			×	×	×	×
K159	Organics from the treatment of thiocarbamate hazardous wastes.			×	×	×		X		×			×	×	X	Х
K160	Solids (including filter wastes, separation solids, and spent catalysts) from the production of thiocarbamates and solids from the treatment of thiocarbamate wastes.			×	×	×		×		×	<u> </u>		×	×	X	X
K161	Purification solids (including filtration, evaporation, and centrifugation solids), bag house dust and floor sweepings from the production of dithiorcarbamate acids and their salts.			×	×	×		×		×			×	×	×	×
K169	Crude oil storage tank sediment from petroleum refining operations			×	X	×		×		×			×	×	X	X
K170	Clarified sturry oil storage tank sediment and/or in-line filter/separation solids from petroleum refining operations			×	×	×		×		×			×	х	X	X
K171	Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (excludes inert support media) (1,T)			×	×	×		×		×		:	×	×	X	×
K172	Spent hydro refining catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (excludes inert support media) (I,T)		-	×	×	×	·	× -	·	×			×	×	×	×
P001	2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1-phenylbutyl)-, & salts, when present at concentrations greater than 0.3%			X	X	×		×	-	×			×	×	×	×
P002	1-Acetyl-2-thiourea			X	X	×		X		Х			×	×	×	X
P003	Acrolein			Х	Х	X		X		×			×	×	×	×
P004	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexa-chloro-1,4,4a,5,8,8a,-hexahydro-, (1aipha, 4alpha, 4abeta, 5alpha, 8alpha, 8abeta)- (OR) Aldrin (H)	·		×	×	×		×	-	×			×	×	×	×
P005	2-Propen-1-ol (OR) Allyl alcohol (H)	×		×	×	×		×		×			×	×	×	×
ĺ																

TABLE C-1
EPA WASTE CODES AND FACILITY WASTE MANAGEMENT OPTIONS

						PROCESS		TEM B	SYSTEM HANDLING		WASTE					
EPA WASTE CODE	WASTE TYPE (see note 3)	Зој лен	Ethylene Glycol Recycling	Fuel Blending Liquefaction	Wastewater Treatment	Neutralization		Solids Consolidation	gnibbərd2 sirdəO		Can Crushing	Aerosol Depressurization	hzaW mu1A	Truck Wash	Off-Site Transfer Generated Onsite	2000 2 2000 2000
P006		_	ŀ					X		Х		-	Х		\vdash	L.
P007	5-(Aminomethyl)-3-isoxazolol		Ľ	L			L	×		×			×		X	
P008	4-Aminopyridine (OR) 4-Pyridinamine (H)				-			×		×			×		×	Ü
P010	Arsenic acid H3AsO4 (H)		×	X	×		×	×		X			X	X)	X	
P011	Arsenic oxide As205 (OR) Arsenic pentoxide (H)				×		×	×		×			×	 	×	
P012	Arsenic oxide As2O3 (OR) Arsenic trioxide (H)		×	×	-		×	×		X			X	X	X X	
P013	Barium cyanide		×	X	X			X		×		,	X	X	XX	
P014	Benzenethiol (OR) Thiophenol (H)		×	X	×			X		×			X	X	х х	Ų.
P015	Beryllium (H)				X	Щ		Х		X				X	XX	
P016	Dichloromethyl ether (OR) Methane, oxybis <chloro- (h)<="" td=""><td></td><td>ζ</td><td>X X</td><td>X</td><td></td><td></td><td>X</td><td></td><td>×</td><td></td><td></td><td></td><td></td><td>X</td><td></td></chloro->		ζ	X X	X			X		×					X	
P017	Bromoacetone		Υ .	X X	X			Х		Х			X		Х	J
P018	Brucine (OR) Strychnidin-10-one, 2,3-dimethoxy- (H)		X	X	X			X		X					X X	ū
P020	Dinoseb		~	X X	\vdash			Х		X			X	X	X	
P021	Calcium cyanide				X			X		X			×		×	
P022	Carbon disulfide (H)		`	X X	X			Х		×			X	×	X	
P023	Acetaldehyde, chloro-		ζ					X		×			×		×	
P024	Benzenamine, 4-chloro- (OR) p-Chloroaniline (H)		ζ]		×			×		×			×	×	×	
P026	1-(o-Chlorophenyl)thiourea (OR) Thiourea, (2-chlorophenyl)- (H)		^	×	×	_		×		×	_		×	-	-	J
P027	3-Chloropropionitrile		^	X	×			×		×			×	×	×	J
P028	Benzene, (chloromethyl)- (OR) Benzyl chloride (H)		ζ	X X	×			X		×			×	×	×	×
P029	Copper cyanide		^	XX	_			X		X		_	×	×	×	×
P030	Cyanides (soluble cyanide salts), not otherwise specified			X	X			Х		X			X	×	×	×
P031	Cyanogen				X			X		Х			×	×	×	×
P033	Cyanogen chloride (CN)CI				X			×		×			×	×	×	×
P034	2-Cyclohexyl-4,6-dinitrophenol		_	X X				X		X			X	×	×	V
P036	Dichlorophenylarsine				X			Х		Х			×	×	×	Ü
														ĺ		

"X" = waste code is managed in the indicated process system

						PROC	SSS SX	STEM !	ANDE	PROCESS SYSTEM HANDLING WASTE	STE					Г
EPA WASTE CODE	WASTE TYPE (see note 3)	Solvent Recovery	Ethylene Glycoi Recycling	Fuel Blending Liquefaction	Wastewater Treatment		Inorganic Treatment (note 4)	Solids Consolidation	gnibborid2 zirdəO	Small Container Management	Can Crushing	herosol Depressurization	ńspW murd	Truck Wash	Off-Site Transfer	Generated Onsite
P037	2,7:3,6-Dimethanonaphth<2,3-b>oxirene, 3,4,5,6,9- hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aaipha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha)- (OR) Dieldrin (H)							X		×		,	×	×	×	×
P038	Arsine, diethyl- (OR) Diethylarsine (H)			X X	X			Х		Х	-		Х	X	×	×
P039	Disulfoton			×	X			X		Х			X	×	X	×
P040	O,O-Diethyl O-pyrazinyl phosphorothioate			x x	X			X		Х			×	×	×	×
P041	Diethyl-p-nitrophenyl phosphate		,	x x	X			X		×			×	×	×	×
P042	Epinephrine		^ _ -	×	X			X		X			×	×	×	×
P043	Diisopropylfluorophosphate (DFP)			X	X			X		X			Х	×	X	×
P044	Dimethoate			x x	X			X		Х			×	×	×	×
P045	2-Butanone, 3,3-dimethyl-1-(methylthio)-, o-(methylamino)carbonyl) oxime			X	X			Х		×			×	×	×	×
P046	alpha, alpha-Dimethylphenethylamine			x x	X 3			X		X			X	Х	×	×
P047	4,6-Dinitro-o-cresol, & salts			X	X			X		Х	-		X	×	×	×
P048	2,4-Dinitrophenol			x x	X :			Х		X	:		×	×	×	X
P049	Dithiobiuret			х	X			×		X			×	×	×	×
P050	6,9-Methano-2,4,3 benzodioxathiepin,6,7,8,9,10, 10- hexachloro-1,5,5a,6,9,9a-hexahydro-,3-oxide (OR) Endosulfan (H)			×	×			×		×			×	×	×	×
P051	2,7:3.6-Dimethanonaphth<2,3-b>oxirene, 3,4,5,6,9,9- hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha, 2beta, 2abeta, 3alpha, 6abeta, 7beta, 7aalpha)- & metabolites (OR) Endrin (OR) Endrin, & metabolites (H)		<u></u>	× ×	×		<u>.</u>	×		×			×	×	×	X
P054	Aziridine (OR) Ethyleneimine (H)	_		X X	×			x		X			X	×	X	×
P056	Pluorine				×			X	•	×			×	×	×	×
P057	Fluoroacetamide			Х	X			×		×		7	×	×	×	×
P058	Acetic acid, fluoro-, sodium salt (OR) Fluoroacetic acid, sodium salt (H)			$\mathbf{x} \mid \mathbf{x}$	X	<u> </u>		×		×			×	×	×	×
P059	4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro- 3a,4,7,7a-tetrahydro- (OR) Heptachlor (H)			×	×			×		×			×	×	×	×

TABLE C-1
EPA WASTE CODES AND FACILITY WASTE MANAGEMENT OPTIONS

WASTE TYPE (see mote 3) WASTE TYPE TYPE (see mote 3) WASTE TYPE TYPE TYPE TYPE TYPE TYPE TYPE TY		Drum Wash Truck Wash Off-Site Transfer Generated Onsite	X X X	X X X X	X X X X	X X X X	× × × ×	X X X	X X X	×	X X X X	X X X X	X X X	$X \mid X \mid X \mid X$	X X X	X X X X	×	X X X	×	×	X X X X	X X X X	X X X X	
WASTE TYPE (see note 3) 1.4.5.8-Dimethancomphibalene, 1.2.3.4.10.10-hexa-chlore-1.4.4a,5.8.8a. 1.4.5.8-Dimethancomphibalene, 1.2.3.4.10.10-hexa-chlore-1.4.4a,5.8.8a. 1.4.5.8-Dimethancomphibalene, 1.2.3.4.10.10-hexa-chlore-1.4.4a,5.8.8a. 1.4.5.8-Dimethancomphibalene, 1.2.3.4.10.10-hexa-chlore-1.4.4a,5.8.8a. 1.4.5.8-Dimethancomphibalene, 1.2.3.4.10.10-hexa-chlore-1.4.4a,5.8.8a. 1.4.5.8-Dimethancomphibalene, 1.2.3.4.10.10-hexa-chlore-1.2.3.4.10.10-hexa-	STE	noitaziruzzsytysQ lozorsA	^	΄	ξ	\	^		~		7	7												_
PROCESS			X	X	X	X	×	×	X	×	X	X	×	X	X	×	Х	×	×	X	X	X	×	•
WASTE TYPE (see note 3) 1.4.5.8 Dimethanonaphthalene, 1.2,3.4.10,10-hexa-chloro-1,4.4.5.8 Ba-locayery hexaltyl terruphosphale Hexaethyl terruphosphale Hexaethyl terruphosphale Hydrogen cyanide (OR) Nitrogen cyale NO2 (H) Hydrogen dioxide (OR) Nitrogen cyale NO2 (H) Hydrogen cyanide Hydrogen cyanide Hydrogen cyale Hydrogen cyale NO2 (H) Hydrogen cyale Hydrogen cyale Hydrogen cyale NO2 (H) Hydrogen cyale			X	X	X	X	X	X	X	X	X	X	×	X	×	×	×	×	×	×	X	Х	X	> _
WASTE TYPE (see note 3) 1.4.5.8-Dimethanonaphthalene, 1.2.3.4.10.10-hexa- chloro-1,4.4a.5.8.8a- hexably terraphosphate. 1.4.5.8-Dimethanonaphthalene, 1.2.3.4.10.10-hexa- chloro-1,4.4a.5.8.8a- hexably the cyanide. Methonyi 1.4.5.8-Dimethanonaphthalene, 1.2.3.4.10.10-hexa- chloro-1,4.4a.5.8.8a- hexably the cyanide. Methonyi 1.4.5.8-Dimethanonaphthalene, 1.2.3.4.10.10-hexa- chloro-1,4.4a.5.8.8a- hexably the cyanide. Methonyi parathion (OR) Methyl hydrazine (H) Nickel carbonyl (OR) Nickel carbonyl Ni(CO)-dimethyl (H) Nickel carbonyl (OR) Nickel carbonyl Ni(CO)-4, (T-4)- (H) Nickel carbonyl (OR) Nitrogen oxide NO (H) Nitrosonitine Nitrosoniterhylamine Nitrosoniterhylamine Nitrosoniterhylamine Nitrosoniterhylamine Nitrosoniterhylamine	JOHA	Wastewater Treatment			H		X								Н	×		_	_	_			H	>
WASTE TYPE (see note 3) 1.4.5.8-Dimethanonaphthalene, 1.2.3.4.10,10-hexa-chloro-1,4.4a,5.8.8a, Hexachtyl terraphosphate Hydrogen cyanide Hydrogen cyanide Methane, isocyanato- Methane, isocyanato- Methane, isocyanato- Methane, isocyanato- Methane, isocyanide Methanyl (OR) Aziridine, 2-methyl (H) Hydrazine, methyl (OR) Methyl hydrazine (H) 1.2-Propylenimine (OR) Aziridine, acid, O.Odimethyl O-(4- Methyllactonitiic Addicarb Methyllactonitiic Methyllactonitiic Methyl parathion (OR) Phosphorothioic acid, O.Odimethyl O-(4- nitrophenyl) ester (H) alpha-Naphthyllthiourea (OR) Thiourea, 1-maphthalenyl- (H) Nickel carbonyl (OR) Nickel carbonyl Ni(CO)4, (T-4)- (H) Nickel carbonyl (OR) Nickel carbonyl Ni(CO)4, (T-4)- (H) Nickel carbonyl (OR) Nitrogen oxide, NO (H) Philrosonline Nickel Coyanide Nickel Coyanide Nickel Coyanide Nickel cyanide		Fuel Blending		_	L				_										_	<u> </u>				^ ^
WASTE TYPE (see note 3) 1.4.5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexa-chloro-1,4,4a,5,8,8a, hexahylto-, (1alpha, 4alpha, 4abeta, 5beta, 8beta, 8abeta)- (OR) Isodrin Hexaehylt tetraphosphate Hydrocyanic acid Hydrogen cyanide Methane, isocyanato- Methanyl- (OR) Aziridine, 2-methyl- (H) 1,2-Propylenimine (OR) Aziridine, 2-methyl- (H) Hydrazine, methyl- (OR) Methyl hydrazine (H) 2-Methyllactonitrile Aldicarb Methyl parathion (OR) Phosphorothioic acid, O,O,-dimethyl O-(4- nitrophenyl) ester (H) alpha-Naphthyltitiourea (OR) Thiourea, 1-naphthalenyl- (H) Nickel cyanide Nickel carbonyl (OR) Nickel carbonyl Ni(CO)4, (T-4)- (H) Nickel cyanide						-										·								
EPA WASTE CODE CODE CODE P060 P060 P060 P060 P060 P060 P060 P06			a,5,8,8a, Isodrin	Hexaethyl tetraphosphate	Hydrocyanic acid	Hydrogen cyanide	Methane, isocyanato-	Methomyi	1,2-Propylenimine (OR) Aziridine, 2-methyl- (H)	Hydrazine, methyl- (OR) Methyl hydrazine (H)	2-Methyllactonitrile	Aldicarb	Phosphorothioic acid, O,O,-dimethyl O-(alpha-Naphthylthiourea (OR) Thiourea, 1-naphthalenyl- (H)	Nickel carbonyl (OR) Nickel carbonyl Ni(CO)4, (T-4)- (H)	Nickel cyanide	., &	Nitric oxide (OR) Nitrogen oxide NO (H)	p-Nitroaniline	Nitrogen dioxide (OR) Nitrogen oxide NO2 (H)	N-Nitrosodimethylamine	N-Nitrosomethylvinylamine	Octamethylpyrophoramide	

Process System Process														Ţ		ر ا	آل			ال			, a	, a			J	٦	
Proceedings System Process Pro		Generated Onsite	×	×	×	X	×	×	×	×	×	×	×	×	×	X	$\stackrel{\times}{\parallel}$	×	×	×	×	×	X	X	X	×	×	×	×
Processing System Household (Internet) Processing		rəlansıT əti2-ftO	×	×	×	×	×	×	×	×	×	×	×	×	×	X	×	×	×	×	×	×	×	X	×	×	×	×	×
WASTE TYPE (see note 3) PROCESS STEPH HANDLONG WASTE TYPE (see note 3)		1 спс _{к М} азh	×	×	×	X	×	X	×	×	×	×	×	×	X	X	×	×	×	×	×	×	X	X	×	×	×	×	×
Presention of the Constitution of the Consti		usoW muлО	×	X	Х	X	Х	Х	Х	X	X	X	×	X	X	Х	×	×	×	×	X	X	×	X	X	×	×	×	X
Parathion (OR) Phosphorothioic acid, O,O-diethyl-O-(4-nitrophenyl) ester (H) Meranty, (acctato-Ophenyl- (OR) Phenylmercury acetate (H) Phenylthiourea Phorase Phor		herosol Depressurization	-																										
Parathion (OR) Phosphorothioic acid, O,O-diethyl-O-(4-nitrophenyl) ester (H) Meranty, (acctato-Ophenyl- (OR) Phenylmercury acetate (H) Phenylthiourea Phorase Phor	ASTE	SairtsurD naD																		-									
Parathion (OR) Phosphorothioic acid, O,O-diethyl-O-(4-nitrophenyl) ester (H) Meranty, (acctato-Ophenyl- (OR) Phenylmercury acetate (H) Phenylthiourea Phorase Phor	NG W	Small Container Management	Х	×	Х	X	Х	X	Х	X	X	×	Х	Х	Х	X	×	X	×	×	X	X	×	×	X	Х	Х	×	X
Parathion (OR) Phosphorothioic acid, O,O-diethyl-O-(4-nitrophenyl) ester (H) Meranty, (acctato-Ophenyl- (OR) Phenylmercury acetate (H) Phenylthiourea Phorase Phor	NDLI	gnibbərd? sirdəU																											
Parathion (OR) Phosphorothioic acid, O,O-diethyl-O-(4-nitrophenyl) ester (H) Meranty, (acctato-Ophenyl- (OR) Phenylmercury acetate (H) Phenylthiourea Phorase Phor	EM H	Solids Consolidation	×	×	×	X	Х	Х	Х	×	X	X	Х	Х	×	Х	×	×	×	×	X	×	×	×	X	×	X	×	×
Parathion (OR) Phosphorothioic acid, O,O-diethyl-O-(4-nitrophenyl) ester (H) Meranty, (acctato-Ophenyl- (OR) Phenylmercury acetate (H) Phenylthiourea Phorase Phor	SYST	(h 910n) insaimeri Zinngronl		-											_	-								-					
Parathion (OR) Phosphorothioic acid, O,O-diethyl-O-(4-nitrophenyl) ester (H) Meranty, (acctato-Ophenyl- (OR) Phenylmercury acetate (H) Phenylthiourea Phorase Phor	OCES	Neutralization										_												l					┢
WASTE TYPE (see note 3) Parathison (OR) Phosphorothtoic acid, O,O-diethyl-O-(4-nitrophenyl) ester (H) Mercury, (acctato-O)phenyl- (OR) Phenylmercury acetate (H) Phorate Phosgene Hydrogen phosphide Perassium cyanide K(CN) Potassium cyanide K(CN) Petassium silver cyanide Ehyl cyanide 2-Propyn-1-oh (OR) Propagyl alcohol (H) Selenourea (H) Silver cyanide Sodium cyanide	P.R.		Х	×	×	×	×	X	X	Х	X	Х	Х	X	X	Х	×	X	×	X	X	X	×	×	×	×	X	X	×
WASTE TYPE (see note 3) Parathino (OR) Phosphorothioic acid, O.O-diethyl-O-(4-nitrophenyl) ester (H) Phenyltiiourea Phosper Phosgene Hydrogen phosphide Phossen Hydrogen phosphide Phosper Learnethyl COR) Propargyl alcohol (H) Polassium cyanide 2-Propyn-1-ol (OR) Propargyl alcohol (H) Selenourea (H) Silver cyanide Sodium azide (H) Sodium azide (H) Sodium cyanide Sodium side (H) Tetraethyl phrophosphate Thallic oxide (OR) Thallium (I+) salt (OR) Thallium(I) selentie (H) Thereathyl chirallium (I+) salt (OR) Thallium(I) sulface (H) This coxide (OR) Thallium (H) Sodenicous acid, dithallium (I+) salt (OR) Thallium(I) sulface (H) This coxide coxid dithallium (I+) salt (OR) Thallium(I) sulface (H) This coxide coxid dithallium (I+) salt (OR) Thallium(I) sulface (H) This coxide coxid ammonium salt		Liquefaction	×		×	×	×	X	X	Х				×		X	Х	X	×	Х		X			×	×	Х	×	×
Parathion (OR) Phosphorothioic acid, O,O-diethyl-O-(4-nitrophenyl) ester (H) Mercury, (acetato-O)phenyl- (OR) Phenylmercury acetate (H) Mercury, (acetato-O)phenyl- (OR) Phenylmercury acetate (H) Phoryttiourea Phosgene Hydrogen phosphide Famphur Potassium cyanide (K(CN) Potassium silver cyanide 2-Propyn-1-ol (OR) Propargyl alcohol (H) Potassium silver cyanide Selenourea (H) Silver cyanide Sodium azide (H) Sodium azide (H) Sodium azide (H) Sodium cyanide Sodium azide (H) Terraethyl chronophare Thailium cacid, dithallium (1+) salt (OR) Thallium(I) selemite (H) Thallic cxide (OR) Thallium (1+) salt (OR) Thallium(I) selemite (H) Thiosemica habatide Trichloromethanethiol Trichloromethanethiol		Fuel Blending	×		×	×	×	Х	Х	Х				×		×	X	Х	×	×		×			×	×	Х	X	×
WASTE TYPE (see note 3) Parathion (OR) Phosphorothioic acid, O,O-diethyl-O-(4-nitrophenyl) ester (H) Phenyltriourea Phorate P		Ethylene Glycol Recycling																				-							
WASTE TYPE (see note 3) Parathion (OR) Phosphorothioic acid, O,O-diethyl-O-(4-nitrophenyl) ester (H) Phenyltriourea Phorate P		£72.022V.W.24700				-						┝	_							_			<u> </u>		┢	_			_
	-	waynag traylog		_			_					_											 		L	_		_	
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		į	-nitro	te (H)															Œ					lenite	ate (F			ľ	
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		· .	diethy	ercury															e, & s		(H)		 E	alliun	llium(-towing
			0,0	enylm	,									Œ					chnin	ļ	lead		203	R) Ti	Tha				90.
			; acid,	R) Ph							ľ			coho					t) Stry		aethyl		ide Ti	salt (C	# (O)				ipeac
		. •	thioic	0										rgyl a					s (OR	hate) Tetr		m ox	(1+)	1+) sa			salt	V (d)
		ote 3)	phoro	phen						(CN)	oide			Propa	1				& sali	dsoyd	- OR	hate	halliu	llium	ium (High	100
		(see n	Phos	0-og				phide		ide K	r cya			<u>8</u>			E	o o	-опе,	opyro	aethyl	Isoqa		ditha	lithall	zide	nethi	OHICHE	12. 17.0
		YPE	(OR)	(aceta	ourea		١,	ohd		ı cyar	n silve		nide	-1-ol	H) ES	unide	zide	yanid	in-10	Idithi	tetr.	Pyrc	xide (acid	cid, c	carba	meth	acid,	
		STET	ıthion	cury.	nylthi	rate	sgene	rogen	phur	ıssiun	ıssiun		/l cya	ukdo,	noure	er cya	ium a	ium c	chnid	aethy	nbane	aethy	lic o	nious	furic a	osemi	hloro	adic :	-
19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	L	5-3	Park	Ž Ž	Phe	<u>F</u>	Pho	Hyd	Fam	Pots	Pota	-	Ethy	2-P1	Sele	Silv	Sod	Sod	Stry	Tet	Plui	Tetr	H ₂	Sele	Sul	ĮĔ	Tric	V ar	1
		EPA WASTE CODE	P089	P092	P093	P094	P095	P096	P097	P098	P099	P100	P101	P102	P103	P104	P105	P106	P108	P109	P110	111	E 2	P114	P115	P116	P118	P119	0670

TABLE C-1
EPA WASTE CODES AND FACILITY WASTE MANAGEMENT OPTIONS

					PR	OCES	SYST	M HAN	DEIN	PROCESS SYSTEM HANDLING WASTE	E				
EPA WASTE CODE	WASTE TYPE (see note 3)	Solvent Recovery	Fuel Blending	Liquefaction	Wastewater Treatment	Neutralization	Inorganic Treatment (note 4)	Solids Consolidation Debris Shredding		Small Container Management Can Crushing	noimzirussərqəU losotəA	hzaW mura	Truck Wash	ransfer Transfer	Senerated Onsite
P121	Zinc cyanide Zn(CN)2		Х	X	X							X	X	X	Х
P122	Zinc phosphide Zn3P2 when present at concentrations greater than 10% (R,T)		X	×	×			×	X	y		X	×	×	×
P123	Toxaphene		X	×	Х			×	^	×		×	×	×	×
P127	7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-, methylcarbamate (OR) Carbofuran (H)				×			×	×	X		×	×	×	×
P128	Phenol, 4-(dimethylamino)-3,5-dimethyl-, methylcarbamate (ester) (H)	·			×			×		×		×	×	×	×
P185	1,3-Dithiolane-2-carboxaldehyde, 2,4-dimethyl-, O(methylamino)-carbonylloxime (OR) Tirpate (H)				×			×	^	×		×	×	×	×
P188	Benzoic acid, 2-hydroxy-, compd. with (3aS-cis)-1,2,3,3a,8, 8a-hexahydro-1,3a,8-trimethylpyrrolo.2,3-b indol-5-yl methylcarbamate ester (1:1) (OR) Physostigmine salicylate (H)				×		-	×	^	×		×	×	×	×
P189	Carbamic acid, (dibutylamino)-thio methyl-, 2,3-dihydro-2, 2-dimethyl -7-benzofuranyl ester (OR) Carbosulfan (H)				×			×	^	×		×	×	×	×
P190	Carbamic acid, methyl-, 3-methylphenyl ester (OR) Metolcarb (H)				X			X	``	×		X	×	×	×
P191	Carbamic acid, dimethyl., 1- (dimethyl-amino)carbonyll- 5-methyl-1H-pyrazol-3-yl ester (OR) Dimetilan (H)				×			×	^	×		×	×	×	×
P192	Isolan (OR) Carbamic acid, dimethyl-, 3-methyl-1- (1-methylethyl)-1H-pyrazol-5-yl ester (H)				×			×		×.		×	×	×	×
P194	Ethanimidothioc acid, 2-(dimethylamino)-N(methylamino) carbonyl oxyl-2-oxo-, methyl ester (OR) Oxamyl (H)				×			×		×		×	×	×	×
961d	Manganese dimethyldithiocarbamate (OR) Manganese, bis(dimethylcarbamodithioato-S,S)-, (H)				×			×		×		×	×	×	×
P197	Formparanate (OR) Methanimidamide, N,N-dimethyl-N'2-methyl-4 (methylamino)carbonyloxyphenyl- (H)				X			×		×	-	×	×	×	×
P198	Methanimidamide, N,N-dimethyl-N'3(methylamino)-carbonyl oxylphenyl-,monohydrochloride (OR) Formetanate hydrochloride (H)		_		×			×	$\stackrel{\frown}{\dashv}$	×		×	×	×	×

TABLE C-1
EPA WASTE CODES AND FACILITY WASTE MANAGEMENT OPTIONS

	Off-Site Transfer Generated Onsite	X	×	X	X	X	X	×	×	×	-	+	< ×	+	×	X X	X X	x x		×	×	×
	Truck Wash		×	×	X	X	X	×	^ ×	×	+	+	\ \ \	-	\vdash	X	×	X	X	-		×
	nsoW murd		×	×	X	X X	X	×	×	_		+	< ×	+	١.	-	X			×	_	×
	Aerosol Depressurization		, ,		,	,			×												+	
STE			·							-	+	+	+		-		_			_	\dashv	\dashv
SYSTEM HANDLING WASTE	Small Container Management	×	X	×	X	X	X	×	×	×	×	×	< ×	×	×	X	X	X	×	×	×	×
NDLF	Baibbəril Sirdə G										1	\dashv	-	,				_		_	\dashv	\dashv
EM HA	Solids Consolidation	×	×.	×	Х	х	X	×	×	×	×	×	< ×	×	×	×	X	X	×	×	×	×
	(h 910n) insminst Tinngronl											\dagger	+			-					1	\dashv
PROCESS	Neutralization													T								
PF	Wastewater Treatment	Х	Х	X	Х	x	×	X	X	×	×	×	××	×	×	×	X	X	X	×	×	×
	Гідиеїастіоп							X	×	×	×	×	××	×	×	×	Х	×	X	×	×	×
	gnibnəlði İsu'i							×	×	×	×	×	××	×	×	×	×	×	×	×	×	×
	Ethylene Glycol Recycling				·							Ì										
	20јаси т Весо легу			1					×	×												
	WASTE TYPE (see note 3)	Methiocarb (OR) Mexacarbate (OR) Phenol, (3,5-dimethyl-4-(methylthio)-, methylcarbamate (H)	Phenol, 3-methyl-5-(1-methylethyl)-, methyl carbamate (OR) Promecarb (H)	m-Cumenyl methylcarbamate (OR) 3-Isopropylphenyl N-methylcarbamate (OR) Phenol, 3-(I-methylethyl)-, methyl carbamate (H)	Aldicarb sulfone (OR) Propanal, 2-methyl-2-(methyl-sulfonyl)-, O (methylamino)carbonyl oxime (H)	Physostigmine (OR) Pyrrolo.2,3-blindol-5-ol, 1,2,3,3a,8,8a-hexahydro-1, 3a,8-trimethyl-methylcarbamate (ester),(3aS-cis)- (H)	Zinc, bis(dimethylcarbamodithioato-S,S)-, (OR) Ziram (H)	Acetaldehyde (I)	2-Propanone (I) (OR) Acetone (I)	Acetonitrile (I,T)	Acetophenone (OR) Ethanone, 1-phenyl-	Acetamide, N-9H-fluoren-2-yl-	Acetyl chloride (C,R,T)	Acrylic acid (1)	Acrylonitrile	Mitomycin C	Amitrole	Aniline (I,T)	Auramine	Azaserine	Benz(c) acridine	Benzal chloride
	EPA WASTE CODE	661d	P201	P202	P203	P204	P205	U001	U002	U003	U004	U005	0000	11008	000A	0100	U011	U012	U014	U015	U016	U017

"X" = waste code is managed in the indicated process system

TABLE C-1
EPA WASTE CODES AND FACILITY WASTE MANAGEMENT OPTIONS

												7		1		1			一	- 1				7			1	\Box
	Generated Onsite	×	×	X	Х	Х	×	X	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
	Off-Site Transfer	×	×	×	X	×	X	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	X	×	×	×	×
	Truck Wash	X	X	×	X	X	X	Х	X	Х	×	×	×	×	×	×	×	×	×	×	×	×	×	X	X	×	×	×
	Drum Wash	X	×	×	Х	X	X	X	X	×	×	X	Х	X	×	×	×	×	×	×	×	×	×	X	X	×	×	×
Ì	Aerosol Depressurization							,																				
	gnidsur) na)																											
	Small Container Management	X	×	×	X	×	×	X	×	Х	×	Х	Х	Х	Х	×	×	×	×	×	×	×	×	×	×	X	×	×
	gnibbərıl2 zirdəQ		_	×																								
NIV TIP	Solids Consolidation	X	×	×	×	×	×	×	×	X	X	X	X	X	X	×	×	×	×	×	×	×	×	×	×	×	×	×
reic	Inorganic Treatment (note 4)								-				-														Н	Н
CEDS	Meutralization		_	_			-	-	_			_		_			_											
	Wastewater Treatment	X	×	×	×	×	×	×	×	X	X	×	X	×	X	Х	×	X	×	×	X	×	×	×	×	×	×	×
l	Liquefaction	X	×	×	×	×	×	×	×	×	×	×	×	×	X	X	×	×	X	X	X	×	×	×	×	×	×	×
	Fuel Biending	X	×	×	×	×	×	×	×	×	×	×	×	×	×	X	X	Х	×	X	X	×	×	×	×	×	×	×
		Ė	-	\vdash				_	_			-				_					-			-			_	\vdash
	Pripara Clavel Passering		_	_		_			_		L			_								_	-	\vdash	\vdash	\vdash	L	H
	Solvent Recovery			×												×						×				$oldsymbol{ol}}}}}}}}}}}}}}}}}}$	×	
		-									-												alpha-hydroxy-, ethyl					
	STE TYPE (see note 3)	ropenoic acid. 2-methyl-, ethyl ester	nz(a)anthracene	zene (I.T)	nzenesulfonic acid chloride (C.R)	ızidine	nzo(a)nvrene	nzene. (tricloromethyl)-	hioromethoxy ethane	hloroethyl ether	ohthalenamine, N.N	hloroisopropyl ether	Benzenedicarboxylic acid, bis(2-ethylhexyl) ester	thane, bromo-	izene, 1-bromo-4-phenoxy-	tutanol (I) (OR) n-Butyl alcohol (I)	romic acid H2CrO4, calcium salt	bon oxyfluoride (R,T)	etaldehyde, trichloro-	nzenebutanoic acid, 4-(bis(2-chloroethyl)amino)-	lordane, alpha & gamma isomers	nzene, chloro- (OR) Chlorobenzene	nzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl)-s	ihloro-m-cresoi	ichlorobydrin	Thornethyl vinyl ether	nene chloro- (OR) Vinvl chloride	Chloroform (OR) Methane, trichloro-
	EPA WASTE WAS		Т		Τ	1	T	Т	1	Т	Τ	Т	1	T	П	Т	Г	Т	U034 Ac	T	Τ	Т		T	Т	Т	Т	-
		Solvent Recovery Solvent Recovery Ethylene Glycol Recycling Fuel Blending Mastewater Treatment (note 4) Journ Solids Consolidation Solids Consolidation Can Crushing Can Crushing Debris Shredding Order Treatment Official Figures WASTE TYPE Solvent Recovery Solvent Recovery Ethylene Glycol Recycling Kuel Blending Aliquefaction Mastewater Treatment Mastewater Treatment Mastewater Treatment Mastewater Treatment Acrosol Depressurization Can Crushing Acrosol Depressurization Acrosol Depressurization Acrosol Depressurization Acrosol Depressurization Mastewath Acrosol Depressurization March Wash Arrack Wash Mastewath March Wash WASTE TYPE (see note 3) WASTE TYPE (see note 3) Ethylene Glycol Recycling Ethylene Glycol Recycling Ethylene Glycol Recycling Wastewater Treatment (note 4) Wastewater Treatment (note 4) Wastewater Treatment (note 4) Wastewater Treatment Acouralization Acourali	WASTE TYPE (see note 3) WASTE TYPE (see note 3) WASTE TYPE (see note 3) Ethylene Glycol Recycling Ethylene Glycol Recycling Ethylene Glycol Recycling Wastewater Treatment (note 4) Yeutralization Inorganic Treatment (note 4) Yeutralization Aerosol Depressurization X X X Solids Container Management X X X X Solids Container X X X X Drum Wash X X X X Drum Wash X X X X X Truck Wash X X X X X Truck Wash X X X X X Truck Wash X X X X X X Truck Wash X X X X X X Truck Wash X X X X X X X Truck Wash X X X X X X X Truck Wash X X X X X X X X X X X X X X X X X X X	WASTE TYPE (see note 3) WASTE TYPE (see note 3) Solvent Recovery Ethylene Glycol Recycling Ethylene Glycol Recycling Wastewater Treatment (note 4) Lonorganic Treatment (note 4) Lonorganic Treatment (note 4) Mastewater Treatment Mastewater Treatment Can Crushing Ax x x x x x x x x x x x x x x x x x x	WASTETYPE (see note 3) 2-Propenoic acid, 2-methyl, ethyl ester Benz(a)anthracene X X X X X X X X X X X X X X X X X X X	WASTE TYPE (see note 3) WASTE TYPE (see note 3) 2-Propencic acid, 2-methyl, ethyl ester Benzene (i.T) Benzene (i.T) Benzene (i.T) X X X X X X X X X X X X X X X X X X X	WASTE TYPE (see note 3) WASTE TYPE (see note 3) WASTE TYPE (see note 3) 2-Propenoic acid, 2-methyl., ethyl ester Benzene (I,T) WASTE TYPE (see note 3) WASTE TYPE (see note 3) Ethylene (Benzenent (note 4)) Wastewater Treatment (note 4) Wastewater Treatment (not	WASTE TYPE (see note 3) WASTE TYPE (see note 3) 2-Propenoic acid, 2-methyl., ethyl ester 2-Propenoic acid, 2-methyl., ethyl ester Benzene (1.1) WASTE TYPE (see note 3) Ethylene Cilycol Recycling And Solvent Recovery And Solvent Recycling And Solvent Recovery And And Solvent Recovery An	WASTE TYPE (see note 3) Partial Container Management and Container Man	WASTE TYPE (see note 3) WASTE TYPE (see note 3) WASTE TYPE (see note 3)	WASTE TYPE (see note 3) WASTE TYPE (see note 4) WASTE TYPE (see	WASTE TYPE (see note 3) WASTE TYPE (see note 3)	2. PASTE TYPE (see note 3)	WASTE TYPE (see note 3)	NASTE TYPE (see note 3) 2- Propenoic acid, 2-methyl., ethyl ester Bernzene (J.T.) Bernzene (J.C.) Bernzene (J.T.) Bernzene (J.C.) A. X.	WASTE TYPE (see note.) WASTE TYPE (see not	WASTE TYPE (see note 3) 2-Propagator 2-propag	WASTE TYPE (see note 2) WASTE TYPE (see note 2) WASTE TYPE (see note 3) WASTE TYPE TYPE TYPE TYPE TYPE TYPE TYPE TY	WASTE TYPE (see mee 3)	WASTE TYPE (see note 2) Physical Events	WASTE TYPE (see note 3)	Solvent Recovery Solvent Recovery	Protection of the Control of Heater	Section Color Co	Nava Fig. 17 17 18 18 18 18 18 18	WASTE TYPE (see mer 3) WASTE TYPE (see mer 4) WASTE TYPE TYPE TYPE TYPE TYPE TYPE TYPE TY		

TABLE C-1
EPA WASTE CODES AND FACILITY WASTE MANAGEMENT OPTIONS

	T			-		-		_			-							\neg									\neg		_
	Generated Onsite	Х	×	×	×	×	X	×	×	×	×	×	×	X	X	×	×	×	×	×	×	×	X	X	×	×	×	×	×
	Off-Site Transfer	X	×	X	×	X	X	X	X	×	×	×	×	X	×	Х	X	X	×	×	×	×	X	X	×	×	×	×	×
	Truck Wash	Х	×	X	X	X	X	×	Х	×	×	Х	Х	X	Х	X	Х	Х	×	X	X	Х	X	Х	Х	×	X	×	×
	nan Wash	×	X	X	Х	X	X	X	X	×	×	Х	×	X	X	×	×	Х	×	×	X	×	X	X	Х	X	×	×	X
	Aerosol Depressurization							,					×										,						
ASTE	guidzīna)			<u> </u>																									-
NG W	Small Container Management	Х	×	Х	X	X	X	×	X	X	×	X	X	X	X	X	Х	X	×	×	X	X	Х	Х	×	Х	X	×	X
NDLI	gnibbəril2 zirdəU						٠																			X	×	×	
PROCESS SYSTEM HANDLING WASTE	Solids Consolidation	×	X	X	Х	X	Х	Х	X	X	Х	X	Х	×	X	×	X	×	×	×	X	×	×	Х	×	X	×	×	X
SYSI	Inorganic Treatment (note 4)													·													П		
OCES	Meutralization		-																										
PR	Wastewater Treatment	X	×	×	Х	X	X	X	X	Х	Х	X	Х	×	X	X	X	Х	×	Х	X	X	×	X	×	Х	×	X	×
	Liquefaction	×	×	×	X	Х	Х	X	X	X	×	Х	Х	×	Х	Х	Х	Х	×	Х	Х	X	×	×	X	X	×	X	X
	Fuel Blending	X	×	×	X	×	×	X	Х	X	Х	Х	X	×	Х	Х	Х	Х	×	×	Х	X	×	×	×	Х	×	×	×
	Етһулепе Слусол Кесусілів								•																				
	Solvent Recovery											X	X							-					ļ	X	×	Х	
											(пе	ene	пе	
	WASTE TYPE (see note 3)	Methane, chloro- (I,T)	Chloromethyl methyl ether	beta-Chloronaphthalene	o-Chlorophenol	4-Chloro-o-toluidine, hydrochloride	Chrysene	Creosote	Cresol (Cresylic acid) (OR) Phenol, methyl-	Crotonaldehyde	Benzene, (1-methylethyl)- (f) (OR) Cumene (l)	Benzene, hexahydro- (I) (OR) Cyclohexane (I)	Cyclohexanone (I)	Cyclophosphamide	Daunomycin	ada	DDT	Diallate	Dibenz(a,h)anthracene	Benzo(rst)pentaphene	1,2,3,4 - Diepoxybutane	1,2-Dibromo-3-chloropropane	Ethane, 1,2-dibromo-	Methane, dibromo-	Dibutyl phthalate	Benzene, 1,2-dichloro- (OR) o-Dichlorobenzene	Benzene, 1,3-dichloro- (OR) m-Dichlorobenzene	Benzene, 1,4-dichloro- (OR) p-Dichlorobenzene	(1,1'-Biphenyl)-4,4'-diamine, 3,3' dichloro
	EPA WASTE CODE	U045	U046	U047	U048	U049	U050	U051	U052	U053	U055	U056	U057	U058	U059	0900	. 190n	U062	U063	U064	U065	9900	L0067	0068	690N	0/0n	U071	U072	U073

"X" = waste code is managed in the indicated process system

TABLE C-1
EPA WASTE CODES AND FACILITY WASTE MANAGEMENT OPTIONS

Γ		Generated Onsite	×	×	X	X	×	X	×	×	×	×	×	×	×	X	×	×	×	×	×	×	X	X	X	×	X	×	×	×
1		Off-Site Transfer	Х	Х	X	X	Х	X	Х	×	×	×	X	Х	X	X	X	×	X	×	×	X	Х	X	X	Х	×	X	×	×
		Truck Wash	X	X	Х	X	X	X	Х	X	×	×	Х	Х	X	X	X	×	X	×	X	X	Х	X	X	Х	X	Х	X	>
		nund Mash	X	×	Х	X	X	Х	Х	X	×	×	×	Х	X	X	Х	×	×	×	×	X	X	X	Х	X	X	×	×	>
1		noinzirueesyd9C loeorsA							×																					
	WASTE	gnintsurD naD																	-											
	NG W	Smail Container Management	Х	×	Х	X	×	×	Х	×	×	×	×	Х	×	X	Х	X	X	Х	X	X	X	X	X	Х	×	Х	X	>
	ANDL	Debris Shredding																										П		
	PROCESS SYSTEM HANDLING	noimbilosnoO shiloS	X	×	Х	X	×	×	Х	Х	×	×	X	Х	×	×	×	×	Х	×	Х	X	X	×	×	Х	X	×	Х	1
1	SYST	(de 910n) insambert Sindgronl																-												
	OCES	Neutralization																												
	PF	Wastewater Treatment	X	×	×	X	X	X	Х	X	X	X	X	X	×	X	X	X.	X	Х	. X	X	X	×	X	X	Х	X	X	
		Liquefaction	X	×	X	X	×	×	X	Х	X	Х	X.	X	X	×	X	Х	X	X	×	×	X	×	×	×	X	Х	X	À
		Епе Віепфіля	Х	×	X	Х	×	×	X	X	X	X	X	X	X	X	X	X	Х	×	X	X	×	×	×	X	×	X	X	
		Ethylene Glycol Recycling		,																										
		20ј мен г Весомегу							×																					
		WASTE TYPE (see note 3)	2-Butene, 1,4-dichloro- (I,T)	Dichlorodifluoromethane	Ethane, 1,1-dichloro-	Ethane, 1,2-dichloro-	1,1-Dichloroethylene	1,2-Dichloroethylene	Methane, dichloro- (OR) Methylene chloride	2,4-Dichlorophenol	2,6-Dichlorophenol	Propylene dichloride	1,3-Dichloropropene	1,2:3,4-Diepoxybutane(I,T)	Hydrazine, 1,2-diethyl-	O,O-Diethyl S-methyl dithiophosphate	1,2-Benzenedicarboxylic acid, diethyl ester	Diethylstilbesterol	1,3-Benzodioxole, 5-propyl-	(1,1' - Biphenyl) - 4,4' - diamine, 3,3'-dimethoxy	Dimethylamine (I)	Benzenamine, N,N-dimethyl-4-(phenylazo)-	Benz(a)anthracene, 7,12-dimethyl-	(1,1'-Bipheny-4,4'-diamine, 3,3'-dimethyl-; 3,3-D	alpha, alpha-Dimethylbenzylhydroperoxide (R)	Dimethylcarbamoyl chloride	Carbamic chloride, dimethyl-	1,2-Dimethylhydrazine	2,4-Dimethylphenol	
		EPA WASTE CODE	U074	U075	920D	U077	U078	0.00	0800	. 180A	U082	U083	U084	U085	980N	U087	U088	080A	0600	U091	U092	U093	U094	U095	0600	760U	860N	660N	U101	

"X" = waste code is managed in the indicated process system

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						PRO	CESS S	PROCESS SYSTEM HANDLING	HAN	LING	WASTE		l	Ì	Ì	
EPA WASTE CODE	E WASTE TYPE (see note 3)	Solvent Recovery	Етһујепе Сјусој Кесусііпg	Fuel Blending	Liquelaction	Wastewater Treatment	Meutralization Inorganic Treatment (note 4)	Solids Consolidation	gnibbərd? sirdəQ	Small Container Management	ฐนเ กรมา ว แขว	herosol Depressurization	nsoW murO	Truck Wash	Off-Site Transfer	Generated Onsite
U103				X	×					X			X	Х	X	X
U105	2,4-Dinitrotoluene			X	×	×		X		×			×	×	X	X
010e				X	X	X		X		×			Х	X	Х	X
U107	1,2-Benzenedicarboxylic acid, dioctyl ester			Х	×	×		X		X			X	X	×	×
U108	1,4-Diethyleneoxide (OR) 1,4-Dioxane			X	X	X		X	X	X			X	X	X	×
U109	Hydrazine, 1,2-diphenyl-			X	X	X		X		X			Х	X	×	X
U110	1-Propanimine, N-propyl-(I) (OR) Dipropylamine (I)			Х	X	X		X.		X			X	X	X	×
0111	Di-n-propylnitrosaminė			X	X	X		X		X			X	×	×	X
U112	Acetic acid ethyl ester (I) (OR) Ethyl acetate (I)	Х		Х	×	×		X		×			Х	X	×	×
U113	Ethyl acrylate (I)			X	×	X		×		×			×	×	×	×
U114	Carbamodithioic acid, 1,2-ethanediylbis-, salts & esters			Х	Х	Х		X		X	,		Х	×	×	×
U115				Х	X	×		X		×			X	X	×	×
0116	2-Imidazolidinethione			X	X	X		X		X			X	Х	Х	×
U117	Ethyl ether (I)			X	Х	×		X		X			Х	×	×	×
U118				×	X	×		×		×			×	×	×	×
U119				Х	×	×		X		×			×	×	×	×
U120	Fluoranthene			×	×	×		×		×			×	×	×	×
U121	Methane, trichlorofluoro- (OR) Trichloromonofluoromethane	×		×	×	×	_	×		×			×	×	×	×
U122	Formaldehyde			×	×	×	_	×	×	×			×	×	×	×
U123	Formic acid (C,T)			×	×	×	-	×	_	×			×	×	×	×
U124	Furan (I)			×	×	×		×		×			×	×	×	×
U125	Т			X	X	×		×		×			×	×	×	×
U126	Glycidylaldehyde			×	×	×		×		×			×	×	×	×
U127	Hexachlorobenzene			X	Х	×	_	×		×			×	×	×	×
U128	Hexachlorobutadiene			×	×	×		×		×			×	×	×	×
U129	Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1aipha, 2aipha, 3beta, 4alpha, 6beta)-			×	×	×		×		×			×	×	×	×
U130	1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-			X	×	×		×	\vdash	×	Ш		×	×	Х	X
	1							: 	f		ĺ					

TABLE C-1
EPA WASTE CODES AND FACILITY WASTE MANAGEMENT OPTIONS

_	<u></u>	_		-					_		_						_	_							_			
	Senerated Onsite	X	X	×	X	X	X	X	×	X	X	×	X	×	×	X	×	×	×	×	×	X	×	×	×	×	×	×
	ranstransfer	X	X	Х	X	X	X	X	×	×	×	×	X	X	X	X	X	X	×	×	×	X	×	×	\times	×	×	X
	Ггиск Маsh	Х	X	Х	X	X	X	X	×	X	X	X	Х	X	X	Х	X	Х	×	×	X	X	Х	Х	×	×	×	×
	нгач тилО	Х	Х	×	X	X	×	Х	×	X	X	×	X	X	×	Х	Х	X	×	×	Х	X	X	X	×	×	×	X
	herosol Depressurization												_											Х				
WASTE	Can Crushing				X																							
G WA	Small Container Management	X	X	×	X	Х	×	X	X	X	X	×	Х	X	X	X	X	X	X	×	X	X	×	Х	×	×	×	X
SYSTEM HANDLING	Bubberis Shredding			·																-							H	_
M HA	Solids Consolidation		Х	×	X	X	×	X	X	Х	X	×	X	×	×	X	X	X	×	X	X	×	×	X	×	×	×	×
SYSTE	Inorganic Treatment (note 4)	_			X																					-	\vdash	
PROCESS	Meutralization				X	-			_																	_		_
PRO	Wastewater Treatment	×	X	×		X	×	X	X	X	X	×	X	×	×	X	×	X	X	X	X	X	×	×	X	×	×	X
	Liquefaction	-			X	X	×	X	X	Х	X	×	X	×	×	×	X	X	X	×	×	X	×	×	×	×	×	×
	Fuel Blending				X	X	<u>`</u>	X	X		X		-	X			×		X			_	-		Н			X
		-	_				_			7			7									_			Ĥ			
	Ethylene Glycol Recycling				X																				Ц	_		L
	Solvent Recovery									X														×				
Γ																												
	,																											
					(T					(T)																		
					Hydrofluoric acid (C,T) (OR) Hydrogen fluoride (C,T)					1-Propanol, 2-methyl- (I,T) (OR) Isobutyl alcohol (I,T)																		
	,				Juori					l alco																	hyl	
					nage					obuty																(I,T)	3-met	
					Hydr					R) Is	(<u>f</u>					xytri) lou		ester	/dro-	line)
	•				OR)					T)(0)	ropei					hydro								/ alco		ethyl	-dih	roani
	note 3) (T;		\ - 	ene		/l- (I,	(1-p) salt		tetral						E.		deth)		id, m	e, 1,2	-chlo
	(see 1	:ne	ne.	 	cid (C	 	meth	d)pyr		meth)	ole, 5			rd(2+	82	to-0)		g				ile (I,	E	JR) 1		lic ac	rylen	bis(2
	YPE	rophe	rophe	? (R,1	nic a	sulfi	id, d	2,3-c	dide	ıl, 2-1	voibo		ine	d, le	sphate	aceta	dione	drazı	trile			lonitr	hiol () (E)	ilene	hloni	eanth	ylene
	WASTE TYPE (see note 3)	Hexachlorophene	Hexachlorophene	Hydrazine (R,T)	rofluc	Hydrogen sulfide	Arsinic acid, dimethyl-	Indeno(1,2,3-cd)pyrene	Methyl iodide	opanc	1,3-Benzodioxole, 5-(1-propenyl)-	one	Lasiocarpine	Acetic acid, lead(2+) salt	Lead phosphate	Lead, bis(acetato-O)tetrahydroxytri-	2,5-Furandione	Maleic hydrazide	Malononitrile	Melphalan	cury	Methacrylonitrile (I,T)	Methanethiol (I.T.	Methanol (I) (OR) Methyl alcohol (I)	Methapyrilene	Carbonochloridic acid, methyl ester (I,T)	Benz(j)aceanthrylene, 1,2-dihydro-3-methyl	4,4'-Methylenebis(2-chloroaniline)
L		Hex	Hex	Hyd	Hyd	Hyd	Arsin	Inde	Meth	I-Pr	1,3-1	Kepone	Lasi	Acet	Lead	Lead	2,5-1	Mak	Mak	Mel	Mercury	Met	Met	Meth	Meth	Carb	Benz	4.4
	EPA WASTE CODE	U131	U132	U133	U134	U135	U136	U137	U138	U140	U141	U142	U143	U144	U145	U146	U147	U148	U149	U150	U151	U152	U153	U154	U155	U156	U157	U158
	2 ≼ छ	Ω	\Box	\Box	\Box	\Box	\Box	Ω	\Box	\Box	\Box	\Box	\Box	\Box	ļ	Ω		1	Ω	10	\Box	\square	P	\Box	\Box	12	72	Γ

TABLE C-1
EPA WASTE CODES AND FACILITY WASTE MANAGEMENT OPTIONS

Г	Generated Onsite		٦			Ü	J	٦	×	×	×	J	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
	atizn() baterana;)	×	× .	X	×	×	×	×	$\stackrel{\sim}{+}$		_	×	_	$\hat{-}$	\dashv	-	\dashv	-	\dashv	-		~		\dashv	\dashv		\dashv	
	Site Transfer	X	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	X	×	×	×	×	*
	Тгиск Wash	X	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	X	X	×	×	×	\times	Ì
	- hraw murd	X	X	×	×	×	×	×	×	×	×	X	×	×	×	×	×	×	×	×	×	X	Х	×	×	×	×	;
	noitazirussərq9A losor9A								-												:							
ASTE	Suidsurd nad																											
W UN	Small Container Management	Х	×	X	X	X	×	×	×	×	Х	×	X	X	X	×	×	×	×	×	Х	X	×	X	×	×	X	4.5
ANDL	gnibbərd? sirdəQ																											
SYSTEM HANDLING WASTE	Solids Consolidation	Х	х	Х	Х	Х	×	×	×	×	X	Х	Х	Х	Х	×	X	×	×	×	×	×	×	Х	×	×	×	;
SYS	Inorganic Treatment (note 4)																	•										
PROCESS	Neutralization																											
Ā	Маз tеwater Т геа ппепt	X	X	X	X	X	×	Х	X	Х	X	X	·X	X	X	X	X	×	×	×	×	×	×	×	×	×	×	;
	Liquefaction	Х	×	Х	Х	Х	Х	×	X	X	X	X	X	×	X	X	X	Х	Х	X	X	×	×	×	X	×	×	,
	Fuel Blending	Х	×	Х	×	×	Х	Х	Х	X	Х	Х	X	×	X	X	Х	X	Х	Х	X	×	×	×	X	×	×	ſ
	Ethylene Glycol Recycling				-								- `															
	Solvent Recovery		×																									Ī
	WASTE TYPE (see note 3)	2-Butanone, peroxide (R,T)	4-Methyl-2-pentanone (I) (OR) Methyl isobutyl ketone (I) (OR) Pentanol, 4-methyl-	Methyl methacrylate (I,T)	Guanidine, N-methyl-N'-nitro-N-nitroso	Methylthiouracil	Naphthalene	1,4-Naphthalenedione	1-Naphthalenamine	2-Naphthalenamine	Benzene, nitro-	p-Nitrophenol	2-Nitropropane (I,T) (OR) Propane, 2-nitro- (I,T)	1-Butanamine, N-butyl-N-nitroso-	N-Nitrosodiethanolamine	Ethanamine, N-ethyl-N-nitroso-	N-Nitroso-N-ethylurea	N-Nitroso-N-methylurea	Carbamic acid, methylnitroso-, ethyl ester	N-Nitrosopiperidine	Pyrrolidine, 1-nitroso-	Benzenamine, 2-methyl-5-nitro-	11 3 5-Trioxane, 2.4.6-trimethyl	Benzene, pentachloro-	Ethane, pentachloro-	Benzene, pentachloronitro-	1-Methylbutadiene (I)	
	EPA WASTE CODE	091N		U162	П	U164	U165	0106	V167	U168	6910	Г	Т	U172	U173	U174	0176	U177	U178	U179	0180	1181	11182	U183	U184	U185	U186	20.0

TABLE C-1
EPA WASTE CODES AND FACILITY WASTE MANAGEMENT OPTIONS

PROCESS SYSTEM HANDLE DOT WASTE		Generated Onsite	×	×	×	×	×	×	X	Х	X	X	X	×	×	×	×	×	×	×	×	×	X	×	×	×	×	×	×
Processing		Off-Site Transfer	×	×	×	×	×	X	Х	Х	X	Х	X	×	X	Х	×	×	×	×	×	X	X	×	×	Х	×	×	×
Proceedings Procedings Proceedings Proceedings Proceedings Proceedings Procedings Pr		Ггиск Жаѕћ	×	×	X	×	×	×	X	X	X	×	X	×	X	×	×	×	×	×	X	X	X	×	×	X	×	×	×
WASTE TYPE (see aste 2) WASTE TYPE (see						_	_												×	×	×	×	X	X	×	×	×	×	 ×
Present											,	,																	
National Price Nati	JE.						_												\dashv			^					Н		
National Processing	WAST	aninsu 7.																		_									
National Processing	LING	Small Container Management	X	×	X	X	×	X	X	X	X	X	X	×	X	X	×	×	×	×	X	X	X	×	×	×	×	X	×
National Price Nati	HAND	gnibbəril2 sirdəO																	\rfloor										
National Price Nati	TEM	Solids Consolidation	X	×	X	X	×	×	X	X	X	×	X	×	X	X	×	×	×	×	×	X	X	×	×	×	×	×	×
National Price Nati	SS SYS	(4. sion) lneatheart (acte 4)																											
National Parameters	ROCES	Neutralization																											
WASTE TYPE (see note 3)	PF	Wastewater Treatment	×	×	X	×	×	×	X	X	X	×	X	Х	×	X	×	×	×	×	×	X	×	×	×	×	X	X	×
WASTE TYPE (see note 3) Phenol Sulfur phosphide (R) 1.3-bebenzofurandione 2-Prodine Berzamide, 3.5-dichloro-N-(1,1-dimethyl-2-propynyl)- 1.2-Oxathiolane, 2.2-dioxide 1.3-Benzoquinone Rescrpine 1.3-Benzoquinone Rescrpine 1.3-Benzodinotol, 5.2-propenyl)- Selemium sulfide Gollucopyanose, 2-deoxy, 2-(3-methyl-3-nitrosoureido), D- Benzene, 1,2-4.5-tetrachloro-thane (OR) Ethane, 1,1,1,2-tetrachloro-thane (OR) Ethane, 1,1,1,2-tetrachloro-thane (OR) Tetrachloro-thane (OR) Ethane, 1,1,1,2-tetrachloro-chane (OR) Tetrachloro-thylene Carbon tetrachloro-(OR) Tetrachloro-thylene Carbon tetrachloro-(OR) Tetrachloro-thylene Carbon tetrachloro-thylene (OR) Tetrachloro-thylene Carbonic acid, dithallium(1+) salt Thallium(1) chloride		noitsefaction	X	×	X	×	×	X	×	Х	×	X	X	X	×	X	×	×	×	×	×	Х	×	×	×	×	X	X	×
WASTE TYPE (see note 3) Phenol 1-3-Robenzofurandione 1-3-Robenzofurandione 1-2-Oxathiolane, 2.2-dioxide 1-2-Oxathiolane, 2.2-dioxide 1-Propanamine (1.7) 1-2-Oxathiolane, 2.2-dioxide 1-Propanamine (1.7) 1-2-Oxathiolane, 2.2-dioxide 1-3-Benzenediol 1-2-Benzisothiazol-3(2H)-one, 1,1-dioxide, & salts 1-3-Benzenediol 1-3-Benzisothiazol-3(2H)-one, 1,1-dioxide, & salts 1-3-Benzisothiazol-3(2H)-one, 1,1-dioxide, & sal		gribnəlä ləu4	Х	×	Х	×	×	X	×	Х	×	×	X	X	X	Х	×	×	×	×	Х	Х	×	×	×	×	Х	X	×
WASTE TYPE (see note 3) Phenol 1-3-Robenzofurandione 1-3-Robenzofurandione 1-2-Oxathiolane, 2.2-dioxide 1-2-Oxathiolane, 2.2-dioxide 1-Propanamine (1.7) 1-2-Oxathiolane, 2.2-dioxide 1-Propanamine (1.7) 1-2-Oxathiolane, 2.2-dioxide 1-3-Benzenediol 1-2-Benzisothiazol-3(2H)-one, 1,1-dioxide, & salts 1-3-Benzenediol 1-3-Benzisothiazol-3(2H)-one, 1,1-dioxide, & salts 1-3-Benzisothiazol-3(2H)-one, 1,1-dioxide, & sal		Eurylene Glycol Recycling					 					H											-		-			Н	
WASTE TYPE (see note 3) Phenol Sulfur phosphide (R) 1;3-Isobenzofurandione 2-Picoline Benzamide, 3;5-dichloro-N-(1,1-dimethyl-2-propynyl)- 1;2-Oxathiolane, 2,2-dioxide 1-2-Oxathiolane, 2,2-dioxide 1-2-Propanamine (I,T) Pyridine P-Benzoquinone Re-Benzoquinone 1;3-Benzodioxole, 5,(2-propenyl)- 1;2-Benzisothiazol-3(2H)-one, 1,1-dioxide, & salts 1;3-Benzodioxole, 5,(2-propenyl)- Selenious acid Selenium sulfide Gultcopyranose, 2-deoxy-2-(3-methyl-3-nitrosoureido)-, D- Benzene, 1,2,4,5-tetrachloro- Benzene, 1,2,2-fetrachloro- 1,1,1,2-Tetrachloro-thane (OR) Ethane, 1,1,1,2-tetrachloro- Ethene, tetrachloro- (OR) Tetracholoro-thylene Carbon tetrachloride (OR) Methane, tetrachloro- Furan, tetrabloro- (OR) Tetrahydrofuran (I) Acetic acid, thallium(1+) salt Carbonic acid, cithallium(1+) salt Financhind(1) chloride Nitric acid, thallium(1+) salt Financhind(1+) salt Financhind(1+) salt Financhind(1+) salt								_				\vdash				\vdash	\dashv		-		\dashv		_	_	_		_	_	
		Solvent Recovery	X																	×	×	X		×					
		·																											
																		_		-6	-(:		
		,					- [do)-, I		chlore	chlor								
							opyny							salts				ourei		2-tetra	2-tetra		6						
							1-2-pr							le, &				nitros		,1,1,	,1,2,2	/lene	chlor	(I) na					
							nethy							lioxic				1yl-3-		ane, 1	ane, 1	roeth	, tetra	rofur					
							.1-din							1,1-0	ıyl)-			-metl) Eth) Eth	achlo	thane	rahyd		salt			
		· ·					Z Z	tide						-one,	roper			,-2-(3	oro-	(OR	; (OR	Tetr) Me) Tet	salt	(1+)		salt	
		note 3		0	one		loro	-dio						3(2H)	-(2-p			deoxy	rachl	thane	thane	(OR)	(S)	OR)	1(+1)	llium	40	(±	
		ese.		de (R	ırandi		5-dic	le, 2,7	(I,T		Je.		ol	azol-	ole, 5		de	se, 2-	,5-tet	loro	loro	loro-	loride	lro-(I	alliun	ditha	loride	Hium	
		XPE		osphi	njozu	65	le, 3,	iolan	amine		uinor		nedi	sothi	odiox	acid	sulfic	ranos	1,2,4	etracl	etrack	trach	trach	rahyo	id, th	acid,	(I) ch	d, tha	imeo
		TET	lor	ur ph	Isobe	coline	zamid	Oxath	opana	dine	nzog	rpine	Benze	Benzi	Benze	nious	nium	ıcopy	zene,	1,2-T	2,2-T	ne, te	on te	n, tet	ic aci	onic	lium(ic aci	nethi
ASTE DIDE ASTE D	L		Pher	Sulfi	1,3-1	2-Pi	Benz	1,2-(1-Pr	Pyric	p-Be	Rese	1,3-1	1,2-1	1,3-1	Sele	Sele	Gulu	Benz	1,1,1	1,1,2	Ethe	Carb	Fura	Acet	Carb	Tha	E E	Etha
		EPA WASTE CODE	U188	681N	U190	U191	U192	U193	U194	. 96IN	U197	U200	U201	U202	U203	U204	U205	U206	U207	U208	U209	U210	U211	U213	U214	U215	U216	U217	218

"X" = waste code is managed in the indicated process system

					l a	ROCE	SS SYST	PROCESS SYSTEM HANDLING WASTE	NI TO	3 WAST	R				
EPA WASTE CODE	WASTE TYPE (see note 3)	Solvent Recovery	Ethylene Glycol Recycling	Fuel Blending Liquefaction	Wastewater Treatment	Neutralization	(4 ston) tnsammenT zinngronl	Solids Consolidation	Debris Shredding	Small Container Management Can Crushing	noitaziruses 1496 loso 19A	nsoW mura	Т гиск Wash	Off-Site Transfer	Generated Onsite
U220	Benzene, methyl- (OR) Toluene	×	-	_	-			H		-	×	×	×	×	×
U221	Benzenediamine, ar-methyl-	-		├-	┡			×		×	_	×	×	×	Х
U222	Benzenamine, 2-methyl-, hydrochloride			_	×			×		X		X	×	X	X
U223	Benzene, 1,3-diisocyanatomethyl- (R,T)		7	X	×			X		X		×	X	Х	×
U225	Bromoform		7	x x	X			X		X		×	×	×	×
U226	Ethane, 1,1,1-trichloro- (OR) Methyl chloroform	X		x x	X			X		Х	×	×	X	×	×
U227	Ethane, 1,1,2-trichloro-		ζ.	X X	X			X	_	X	,	×	×	×	X
U228	Ethene, trichloro- (OR) Trichloroethylene	X		x x	X		-	X		Х	×	×	×	×	×
U234	Benzene, 1,3,5-trinitro-			x x	X			×		×		×	×	×	×
U235	1-Propanol, 2, 3-dibromo-, phosphate (3:1)		<u> </u>	×	×			×		×		×	×	×	×
U236	2.7-Naphthalenedisulfonic acid, 3,3'-((3,3'-dimethyl(1,1'-biphenyl)-4,4'-diyl)bis(azo)bis(5-amino-4-hydroxy)-, tetrasodium salt			×	×		,	×		×		×	×	×	×
U237	2,4-(1H,3H)-Pyrimidinedione, 5-((bis(2-chloroethyl)amino)-			x x	X			X		×		×	×	×	×
U238	Carbamic acid, ethyl ester			x x				X		Х		×	×	×	×
U239	Benzene, dimethyl- (I,T) (OR) Xylene (I)	×		Х	X			X		X	×	×	×	×	×
U240	2,4-D, salts & esters			X	×			×		×	_	×	×	×	×
U243	1-Propene, 1,1,2,3,3,3-hexachloro-			X	×			×		×		×	×	×	×
U244	Thioperoxydicarbonic diamide ((H2N)C(S))2 S2, tetramethyl-			X X	×			×		×	_	×	×	×	×
U246	Cyanogen bromide (CN)Br			X	×			×		×	_	×	×	×	×
U247	Benzene, 1,1'-(2,2,2,-trichloroethylidene)bis(4-methoxy-				×			×		×		×	×	×	×
U248	2H-I-Benzopyran-2-one, 4-hdyroxy-3-(3-oxo-1-phenyl-butyl)-, & salts, when present at concentrations of 0.3% or less	· · · · · · ·		×	×			×		×	,	×	×	×	×
U249	Zinc phosphide Zn3P2, when present at concentrations of 10% or less			×	×			×		Х		X	Х	×	×
U271	Benomyl (OR) Carbamic acid, .1(butylamino)carbonyl- 1H-benzimidazol-2-yl-, methyl ester			х	×		-	×		×		×	×	×	×
U277	Sulfallate			ХХ	×			×	1	×	$\frac{1}{2}$	×	×	×	×
U278	Bendiocarb (OR) 1,3-Benzodioxol-4-ol, 2,2-dimethyl-, methyl carbamate			×	×			×		×		×	×	×	×
	- New York - Control of the Control	1							ł						

							_		_	_	_	_	-		_	_	_	_	_	_	_	_	$\overline{}$			
	Generated Onsite	X	×	×	×	Х	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	X	X	×	×	×
	Off-Site Transfer	·X	×	×	×	X	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	Х	×	×	×	×
	Iruck Wash	Х	X	×	×	X	X	X	×	X	X	X	X	X	X	×	×	×	×	×	×	X	×	×	×	×
	new Mash	×	×	×	×	X	Х	×	X	Х	Х	Х	Х	X	X	X	X	×	X	×	Х	×	Х	×	×	×
	noimzirussərqəU lozorəA																									
ASTE	Can Crushing									•																
ING W	Small Container Management	×	×	×	×	X	Х	Х	Х	X	X	X	X	Х	X	×	×	×	X	X	×	×	X	Х	Х	×
ANDL	gnibbəvil2 sirdəQ																									
PROCESS SYSTEM HANDLING WASTE	Solids Consolidation	×	×	×	×	Х	Х	X	Х	Х	X	Х	X	X	Х	X	×	×	X	×	X	×	X	×	Х	X
SXS	(4 sion) tneatment (note 4)																									
CES	Neutralization																									
12	Wastewater Treatment	X	X	X	X	X	X	X	Х	X	X	X	X	×	X	X	×	×	×	×	X	×	×	×	×	×
	Liquefaction	X	×	X	X	X	X	X	X	X	X	X	X	X	X	X	Х	×	X	X	×	×	×	×	×	×
	Fuel Blending	×	×	×	×	×	×	×	X	×	×	X	×	Х	X	X	X	X	X	X	×	×	Х	×	×	×
	Ethylene Glycol Recycling																									
Ì	Solvent Recovery		 																							
-			15											<u> </u>							-			qr) ester	
		-	nyl ester							enol	ndazim													Carbamothioic acid, dipropyl-, S-(phenylmethyl) ester (OR) Prosulfocarb	Carbamothioic acid, bis(1-methylethyl)-, S-(2,3,3-trichloro-2-propenyl) ester (OR) Triallate	
			2-buty				hyl-			ran ph	Carber	E											-	R) Pro	ro-2-pi	
			chloro-				-dimet			arbofu	r (OR)	Propha				nate								ster (C	trichlo	
	·	mate	1)-, 4-(ol, 2,2		÷	OR)	yl ester	(OR)) 2		carban						F	yl ester	thyl) e	2,3,3-	
-		lcarba	opheny				-4-lox			ethyl- (, meth	l ester		samate		-dithio		m salt				ył este	, S-eth	snylme	·I)-, S-(l ester
		methy	-chlore				nzodic			2-dime	ol-2-yl	ylethy	ımate	hiocar	mate	methyl	ا د	sodiu	ate	mate		S-pror	cthyl	S-(phe	ylethy	S-ethy
	9	lenol,	cid, (3				1,3-be			dro-2,	midaz	-meth	/lcarba	nyl-dit	ocarba	hyl-n-ı	bamat	thyl, -	arbam	ocarba		opvl	ohexy	opyl-,	1-meth	opyl-,
	note 3	aphtha	umic a	ethyl-	ethyl-	i	(S)			3-dihy	-benzi	nyl-, I	n-but)	dimeth	l-dithi	xymet	hiocar	id, die	lithioc	l-dithi		dipr	i, cycl	d, dipr	1, bis(dip.
	aas) I	Z-I ≈	Carb	2. 2-m(e, 4-m	hoxy-	henoi			nol, 2,	id, 1H	id, phe	lynyd	rakis (methy	hydro	tyl-dit	ioic ac	ethyl-c	methy	 <u> </u>	ic acic	ic acit	ic aci	oic aciv	nc aci
	E TYP	(O)	Barban (OR) Carbamic acid, (3-chlorophenyl)-, 4-chloro-2-butyn	Jamine	namine	1, 2-ct	carb 1	ate	iet	zofura	nic ac	Carbamic acid, phenyl-, 1-methylethyl ester (OR) Propham	-2-pro	um tet	Potassium n-methyl-dithiocarbamate	ium n-	Sodium dibutyl-dithiocarbamate	carbamodithioic acid, diethyl, - sodium salt	Sodium dimethyl-dithiocarbamate	Potassium dimethyl-dithiocarbamate	Metam Sodium	Carbamothioic acid. dipropyl S-propyl ester	Carbamothioic acid, cyclohexylethyl-, S-ethyl ester	mothic	Carbamothioic (OR) Triallate	Carbamothioic acid, dipropyl-, S-ethyl ester
	WASTE TYPE (see note 3)	Carbaryl (OR) 1-Naphthalenol, methylcarbamate	Barbar	Benzenamine, 2-methyl-	Benzenamine, 4-methyl-	Ethanol, 2-ethoxy-	Bendiocarb phenol (OR) 1,3-benzodioxol-4-ol, 2,2-dimethyl-	Molinate	Dazomet	7-Benzofuranol, 2,3-dihydro-2,2-dimethyl- (OR) Carbofuran phenol	Carbamic acid, 1H-benzimidazol-2-yl, methyl ester (OR) Carbendazim	Carbai	3-lodo-2-propynyl n-butylcarbamate	Selenium tetrakis (dimethyl-dithiocarbamate) 2	Potass	Potassium n-hydroxymethyl-n-methyl-dithiocarbamate	Sodiur	carban	Sodim	Potass	Metan	Carbai	Carba	Carbai	Carba (OR)	Carba
	EPA WASTE CODE	T	1	U328	1	П	U364	1	U366	Т	U372	U373		T	Т	U378 ·	U379	U381	U382	U383	U384	11385	U386	U387	U389	U390
L	ವ ≥ ರ		<u>l</u> ⊃		ΙÞ	ΙÞ	I⊃	12	\Box	Ι⊃	I⊇			ļ		Ι⊃	P	Þ		10	l P			1 >	1 2	ΙĐ

TABLE C-1
EPA WASTE CODES AND FACILITY WASTE MANAGEMENT OPTIONS

A2213 (OR) Ethanimidothioic acid, 2-(dimethylamino)-N-hydroxy-2-oxo-, methyl ester
Diethylene glycol, dicarbamate (OR) Ethanol, 2,2'-oxybis-, dicarbamate
Carbamic acid, .1,2-phenylenebis (iminocarbonothioyl) bis-, dimethyl ester (OR) Thiophanate-methyl
Ethanimidothioic acid, N,N'thiobis.(methylimino) carbonyloxybis-, dimethyl ester (OR) Thiodicarb
Phenol, 2-(1-methylethoxy)-, methylcarbamate (OR) Propoxur

	EPA WASTE	3GD2
	EPA WASTE WASTE	WASLE LYFE (see note.
		إ
	•	
		1
	olvent Recovery	S
i ,	thylene Glycol Recycling	Œ
	gaibradi fər	4
	.iquefaction Vasiewater Treatment	┨
PROCE	Teutralization	┨
SS SYS	(4 ston) insatment sinagron	1
PROCESS SYSTEM HANDLING WASTE	noimbiloznoD sbilo	s
NDLIN	gnibbəril2 sirdə(\overline{q}
G WAS	inail Container Management	┨
TE	an Crushing arosol Depressurization	-
	noihzinueesytysO loeoty hebW mur(+
	ruck Wash	┨
	Transfer	┨
	enerated Onsite]

Notes

1) Unless otherwise indicated, all "D", "F", "K", "P", and "U" listed wastes shown above are hazardous due to toxic properties.

If not hazardous due to toxicity only, the hazardous properties are indicated in parentheses following the waste description using the notations listed below:

(T) = Toxicity, (R) = Reactivity, (I) = Ignitability, (C) = Corrosivity, (H) = Acute Hazardous Waste (refer to 40 CFR 261.30 for additional information on each waste stream).

2) The waste description following "(OR)" in the "Waste Type" column signifies the common name of the material, per 40 CFR 261.30

3) Refer to 40 CFR 261.20 to 261.33 for full description of the waste codes.

4) Organic wastes containing less than 500 ppmw of volatile organic compounds may be stabilized to remove free liquids in the roll-off bin located in this process area. These organic wastes may carry any codes associated with waste destined for solids consolidation.

5) Wastes will be processed and treated through Romics Process System Handling Waste as described in Subpart D-Treatment Standards in 40 CFR 268.40

TABLE C-2

"RESERVED"

TABLE C-3A

WASTE IDENTIFICATION/CLASSIFICATION SOLVENT RECYCLING

Typical Industries/Processes Generating Wastes:

Auto Body, Painting, Electronic Manufacturing, Dry-Cleaning, Paints and Pigments, General Parts & Equipment Degreasing, Laboratory/R&D

TYPICAL WASTE STREAMS ¹	TYPICAL WASTE CODES ²	TYPICAL CHARACTERISTICS ³
Non-Chlorinated Solvents Acetone, Lacquer Thinner, Methyl Ethyl Ketone, n-Methyl Pyrollidone, Mineral Spirits, N-butyl Acetate, Tetrahydrofuran, Toluene, Xylene	EPA Codes: D004, D005, D006, D007, D008, D009, D010, D011, D018, D023, D024, D025, D026, D035, D036, D038, F003, F004, F005, K048, K049, K050, K051, K052, P005, U002, U003, U031, U056, U057, U112, U140, U154, U159, U161, U213, U220, U239	Physical Characteristics: Liquid: 75-100% Solid/Semisolid: 0-25% pH: 3-11 Specific Gravity: 0.6-1.4 Flashpoint: < 140 °F Chemical Composition: Acetone, Alcohols, Methyl Ethyl Ketone, Mineral Spirits, n-Methyl Pyrollidone, N-butyl Acetate, Tetrahydrofuran, Toluene, Xylene Hazardous Characteristics Ignitable, Toxic
Chlorinated Solvents Methylene Chloride, Perchloroethylene, Trichloroethylene, 1,1,1-Trichloroethane	EPA Codes: D001, D002, D019, D020, D021, D022, D027, D028, D032, D033, D034, D039, D040, D041, D042, D043, F001, F002, K086, U037, U080, U121, U208, U209, U210, U226, U228	Physical Characteristics: Liquid: 75-100% Solid/Semisolid: 0-25% pH: 3-11 Specific Gravity: 0.6-1.7 Flashpoint: < 140 °F Chemical Composition: Methylene Chloride, Perchloroethylene, Trichloroethylene Hazardous Characteristics: Ignitable, Toxic

- A sampling of typical waste streams/codes managed by the Facility managed in the indicated processes is supplied; the listing is not comprehensive. See Table C-1 for a complete listing of acceptable waste streams/codes for each management process.
- These waste codes typically represent the wastes to be managed as specified. Wastes carrying other waste codes (as listed in Table C-1) may also be managed in Facility processes.
- 3. These characteristics typically represent the wastes to be managed as specified. Please refer to Tables C-5 and C-6 for storage and process limits for each waste management method.

TABLE C-3B WASTE IDENTIFICATION/CLASSIFICATION ETHYLENE GLYCOL RECYCLING

Typical Industries/Processes Generating Wastes:

Vehicle repair/service, machine shops, metal working activities

TYPICAL WASTE STREAMS ¹	TYPICAL WASTE CODES ²	TYPICAL CHARACTERISTICS ³
Ethylene glycol, propylene glycol, triethylene glycol – these materials are commonly referred to as antifreeze or coolant	EPA Codes: D008	Physical Characteristics: Liquid: 75-100% Solid/Semisolid: 0-25% pH: 3-11 Specific Gravity: 0.9-1.2 Flashpoint: > 140 °F Chemical Composition: Ethylene glycol, propylene glycol, may have trace used oil Hazardous Characteristics: Toxic

- A sampling of typical waste streams/codes managed by the Facility managed in the indicated processes is supplied; the listing is not comprehensive. See Table C-1 for a complete listing of acceptable waste streams/codes for each management process.
- 2. These waste codes typically represent the wastes to be managed as specified. Wastes carrying other waste codes (as listed in Table C-1) may also be managed in Facility processes.
- 3. These characteristics typically represent the wastes to be managed as specified. Please refer to Tables C-5 and C-6 for storage and process limits for each waste management method.

TABLE C-3C WASTE IDENTIFICATION/CLASSIFICATION FUEL BLENDING

Typical Industries/Processes Generating Wastes:

Industrial maintenance, cleaning of parts and equipment, painting, paint manufacture, tank and line cleaning, printing

TYPICAL WASTE STREAMS ¹	TYPICAL WASTE CODES ²	TYPICAL CHARACTERISTICS ³
Paint and paint thinner, hydrocarbon solvents, flammable solvents, machine and hydraulic oils, alcohols, diesel, gasoline, inks, press wash	EPA Codes: D001, D002, D004-D015, D018-D042, F001-F005, F037, F038, K048-K052, K086, K087, K156, K159, K161, K169-K172, P005, U002, U003, U019, U031, U037, U043, U044, U051, U052, U055, U056, U057, U070, U071, U072, U080, U108, U112, U121, U122, U140, U154, U159, U161, U171, U188, U210, U211, U213, U220, U226, U228, U239	Physical Characteristics: Liquid: 50-100% Solid/Semisolid: 0-50% pH: 2.0 – 12 Specific Gravity: 0.6-1.7 Flashpoint: < 140 °F Chemical Composition: Mineral spirits, toluene, xylene, oils, Stoddard solvent, isopropyl alcohol, methanol, other oxygenates, diesel, gasoline, other inert ingredients Hazardous Characteristics: Ignitable, Toxic

- A sampling of typical waste streams/codes managed by the Facility managed in the indicated processes is supplied; the listing is not comprehensive. See Table C-1 for a complete listing of acceptable waste streams/codes for each management process.
- 2. These waste codes typically represent the wastes to be managed as specified. Wastes carrying other waste codes (as listed in Table C-1) may also be managed in Facility processes.
- 3. These characteristics typically represent the wastes to be managed as specified. Please refer to Tables C-5 and C-6 for storage and process limits for each waste management method.

TABLE C-3D WASTE IDENTIFICATION/CLASSIFICATION AQUEOUS TREATEMENT

Typical Industries/Processes Generating Wastes:

Aqueous cleaning and degreasing, manufacturing processes, groundwater remediation, contaminated precipitation, tank and line rinsing, automotive maintenance

TYPICAL WASTE STREAMS ¹	TYPICAL WASTE CODES ²	TYPICAL CHARACTERISTICS ³
Water and ethylene glycol, dilute acetic acid solution, coolant oil, aqueous cleaners, slurry waste, contaminated stormwater	EPA Codes: D001, D002, D004-D011, D018, D023-D026, D028, D029, D035, F001-F005, F039, K048, K051, K052, K086, K087, U002, U019, U031, U154, U159, U161, U188, U210, U213, U220, U226, U228, U239	Physical Characteristics: Liquid: 75–100% Solid/Semisolid: 0–25% pH: 4.0-12.0 Specific Gravity: 0.8-1.4 Flashpoint: > 100 °F Chemical Composition: Water, organic solvents, dirt, acetic acid, hydrocarbons, salts Hazardous Characteristics: Ignitable, Corrosive, Toxic

- A sampling of typical waste streams/codes managed by the Facility managed in the indicated processes is supplied; the listing is not comprehensive. See Table C-1 for a complete listing of acceptable waste streams/codes for each management process.
- These waste codes typically represent the wastes to be managed as specified. Wastes carrying other waste codes (as listed in Table C-1) may also be managed in Facility processes.
- 3. These characteristics typically represent the wastes to be managed as specified. Please refer to Tables C-5 and C-6 for storage and process limits for each waste management method.

TABLE C-3E WASTE IDENTIFICATION/CLASSIFICATION NEUTRALIZATION

Typical Industries/Processes Generating Wastes:

Metal finishing, surplus product, tank and line rinsing, etching

TYPICAL WASTE STREAMS ¹	TYPICAL WASTE CODES ²	TYPICAL CHARACTERISTICS ³
Spent acid, cleaning compounds, caustic solutions	EPA Codes: D002, D004-D011	Physical Characteristics: Aqueous liquids, little to no organic contamination pH: 0-14.0 Specific Gravity: 0.8-1.7 Flashpoint: > 140 °F Chemical Composition: Hydrochloric acid, sulfuric acid, nitric acid, sulfamic acid, water, sodium hydroxide, potassium hydroxide, sodium bicarbonate, detergents, surfactants, sodium carbonate Hazardous Characteristics: Corrosive

- A sampling of typical waste streams/codes managed by the Facility managed in the indicated processes is supplied; the listing is not comprehensive. See Table C-1 for a complete listing of acceptable waste streams/codes for each management process.
- These waste codes typically represent the wastes to be managed as specified. Wastes carrying other waste codes (as listed in Table C-1) may also be managed in Facility processes.
- 3. These characteristics typically represent the wastes to be managed as specified. Please refer to Tables C-5 and C-6 for storage and process limits for each waste management method.

TABLE C-3F WASTE IDENTIFICATION/CLASSIFICATION INORGANIC TREATMENT

Typical Industries/Processes Generating Wastes:

Semi-conductor industries, metal fabrication and/or processing waste, aqueous cleaners

TYPICAL WASTE STREAMS ¹	TYPICAL WASTE CODES ²	TYPICAL CHARACTERISTICS ³
Miscellaneous metal-bearing wastes,	EPA Codes:	Physical Characteristics:
corrosive wastes, aqueous parts cleaning	D002, D004-D011, F006-F009, F019,	Liquid: 75-100%
wastes, metal processing wastes	F039, P010-P012, U134	Solid/Semisolid: 0-25%
		pH: 0-14.0
		Specific Gravity: 0.6-1.7
		Flashpoint: >140 °F
		Chemical Composition:
		Heavy metals, hydrochloric acid, sulfuric acid, nitric acid, sulfamic
		acid, water, sodium hydroxide, potassium hydroxide, sodium
		bicarbonate, detergents, surfactants, sodium carbonate
		Hazardous Characteristics:
		Toxic, Corrosive
		TOXIC, COHOSIVE
Non-pumpable sludges, semi-solid	EPA Codes	Physical Characteristics:
wastes, filter cakes, contaminated soils,	F037, F038, F039, K048, K050, K051,	Liquid: 0-10%
potentially with incidental free liquids	K052	Solid/Semisolid: 90-100%
		pH: n/a
		Specific Gravity: n/a
		Flashpoint: n/a
		Chemical Composition:
		Metal bearing sludges, absorbents, soil contaminated with organics or
		inorganics, oil.
		<u>Hazardous Characteristics:</u>
		Toxic

- A sampling of typical waste streams/codes managed by the Facility managed in the indicated processes is supplied; the listing is not comprehensive. See Table C-1 for a complete listing of acceptable waste streams/codes for each management process.
- 2. These waste codes typically represent the wastes to be managed as specified. Wastes carrying other waste codes (as listed in Table C-1) may also be managed in Facility processes.
- 3. These characteristics typically represent the wastes to be managed as specified. Please refer to Tables C-5 and C-6 for storage and process limits for each waste management method.

TABLE C-3G WASTE IDENTIFICATION/CLASSIFICATION SOLIDS CONSOLIDATION

Typical Industries/Processes Generating Wastes:

Manufacturing, equipment maintenance, printing, site remediation, cleanup,

TYPICAL WASTE STREAMS ¹	TYPICAL WASTE CODES ²	TYPICAL CHARACTERISTICS ³
SOLID FUELS	EPA Codes:	Physical Characteristics:
Solvent-, oil-, and grease-contaminated rags, wipes,	D004–11, D018, D019, D021–30, D032–36,	Solid 100%
wood, and other debris having >5,000 BTU/lb,	D038, D039, D040, D043, F001–5, F037,	pH: n/a
reacted resins, solid spill clean-up residuals	F038, K048–51, U002, U003, U019, U031,	Specific Gravity: n/a
	U037, U055, U056, U057, U070, U080, U108,	Flashpoint: n/a
	U112, U121, U140, U154, U159, U161, U171,	
	U210, U211, U213, U220, U226, U228, U239	Chemical Composition:
		Debris (e.g., wood, paper, cloth): 75–
		100%
		Organic solvents: 0–20%
		Oil, grease: 0–20%
		Ink 0–20%
		Resin 0-100%
		Absorbent 0-20%
		<u>Hazardous Characteristics:</u>
		Toxic

- A sampling of typical waste streams/codes managed by the Facility managed in the indicated processes is supplied; the listing is not comprehensive. See Table C-1 for a complete listing of acceptable waste streams/codes for each management process.
- 2. These waste codes typically represent the wastes to be managed as specified. Wastes carrying other waste codes (as listed in Table C-1) may also be managed in Facility processes.
- 3. These characteristics typically represent the wastes to be managed as specified. Please refer to Tables C-5 and C-6 for storage and process limits for each waste management method.

TABLE C-3G

WASTE IDENTIFICATION/CLASSIFICATION

SOILIDS CONSOLIDATION (continued)

Typical Industries/Processes Generating Wastes:

Site remediation, surplus product, process wastes, electroplating

TYPICAL WASTE STREAMS ¹	TYPICAL WASTE CODES ²	TYPICAL CHARACTERISTICS ³
LANDFILL: Solid corrosive materials, sodium bicarbonate, absorbent with hydrocarbons, plating sludges, baghouse dust, petroleum contaminated soils	EPA Codes: D004–11, F001-F006, D018-019, D021-030, D032-D040, F024, F037, F039, K048, K050, K052, K086-087, U002-U004, U019, U031, U037, U055- 057, U070, U080, U108, U110, U112, U121, U122, U140, U154, U159, U161, U171, U209, U210, U211, U213, U220, U226, U228, U239	Physical Characteristics: Solid 100% Liquid or liquid-solid requiring treatment prior to land disposal pH: n/a Specific Gravity: n/a Flashpoint: n/a Chemical Composition: Sand, soil, debris, petroleum hydrocarbons, sodium hydroxide, sodium bicarbonate, metals Hazardous Characteristics: Corrosive, Toxic

- A sampling of typical waste streams/codes managed by the Facility managed in the indicated processes is supplied; the listing is not comprehensive. See Table C-1 for a complete listing of acceptable waste streams/codes for each management process.
- 2. These waste codes typically represent the wastes to be managed as specified. Wastes carrying other waste codes (as listed in Table C-1) may also be managed in Facility processes.
- 3. These characteristics typically represent the wastes to be managed as specified. Please refer to Tables C-5 and C-6 for storage and process limits for each waste management method.

TABLE C-3G

WASTE IDENTIFICATION/CLASSIFICATION

SOILIDS CONSOLIDATION (continued)

Typical Industries/Processes Generating Wastes:

Lab cleanup, surplus product, site cleanup, petroleum refining, chemical manufacture, electronics manufacturing, semiconductor manufacturing

TYPICAL WASTE STREAMS ¹	TYPICAL WASTE CODES ²	TYPICAL CHARACTERISTICS ³
INCINERATION: Packaged Laboratory Chemicals (Lab Packs), contaminated debris, paint related materials, mill waste, process waste	EPA Codes: D001, D002, D004–11, D012–17, D018–43, F001–5, F037, F038, F039, K048–52, K086, K087, K156–159, K161, K169–K172, various U and P codes	Physical Characteristics: Liquid, solid, semi-solid, multi-phase pH: n/a Specific Gravity: n/a Flashpoint: n/a Chemical Composition: Varies Hazardous Characteristics: Ignitable, Toxic

- A sampling of typical waste streams/codes managed by the Facility managed in the indicated processes is supplied; the listing is not comprehensive. See Table C-1 for a complete listing of acceptable waste streams/codes for each management process.
- These waste codes typically represent the wastes to be managed as specified. Wastes carrying other waste codes (as listed in Table C-1) may also be managed in Facility processes.
- 3. These characteristics typically represent the wastes to be managed as specified. Please refer to Tables C-5 and C-6 for storage and process limits for each waste management method.

TABLE C-3H WASTE IDENTIFICATION/CLASSIFICATION OFF-SITE TRANSFER

Typical Industries/Processes Generating Wastes:

At a minimum, inclusive of industries listed under other Facility management options.

TYPICAL WASTE STREAMS ¹	TYPICAL WASTE CODES ²	TYPICAL CHARACTERISTICS ³
Waste streams managed under this option vary table C-1 for a listing of waste streams manage	widely and may consist of any of the example waste streams sld under this option.	nown in Table C3A through I, as well as others. See

- A sampling of typical waste streams/codes managed by the Facility managed in the indicated processes is supplied; the listing is not comprehensive. See Table C-1 for a complete listing of acceptable waste streams/codes for each management process.
- 2. These waste codes typically represent the wastes to be managed as specified. Wastes carrying other waste codes (as listed in Table C-1) may also be managed in Facility processes.
- 3. These characteristics typically represent the wastes to be managed as specified. Please refer to Tables C-5 and C-6 for storage and process limits for each waste management method.

TABLE C-3I WASTE IDENTIFICATION/CLASSIFICATION TEN-DAY TRANSFER

Typical Industries/Processes Generating Wastes:

At a minimum, inclusive of industries listed under other Facility management options.

TYPICAL WASTE STREAMS ¹	TYPICAL WASTE CODES ²	TYPICAL CHARACTERISTICS ³
Not an activity subject to permitting requirements.		

- A sampling of typical waste streams/codes managed by the Facility managed in the indicated processes is supplied; the listing is not comprehensive. See Table C-1 for a complete listing of acceptable waste streams/codes for each management process.
- 2. These waste codes typically represent the wastes to be managed as specified. Wastes carrying other waste codes (as listed in Table C-1) may also be managed in Facility processes.
- 3. These characteristics typically represent the wastes to be managed as specified. Please refer to Tables C-5 and C-6 for storage and process limits for each waste management method.

TABLE C-3J WASTE IDENTIFICATION/CLASSIFICATION MISCELLANEOUS MANAGEMENT PROCESSES

Typical Industries/Processes Generating Wastes:

Lab cleanup, product use, surplus materials, educational institutions, R&D

TYPICAL WASTE	TYPICAL WASTE CODES ²	TYPICAL CHARACTERISTICS ³
STREAMS ¹		
Consolidation of Small		
Containers	EPA Codes:	Physical Characteristics:
(Lab Packs)	Any listed in Part A	Varies widely, liquid or solid, lab packs are small containers packed in DOT containers with absorbent materials
		Chemical Composition: Varies widely
		Hazardous Characteristics: Ignitable, Corrosive, Toxic
Can Crush		
Paints, roofing supplies,	EPA Codes:	Physical Characteristics:
carburetor cleaner, paint	D001, D002, D004–11	1–5 gallon containers of liquid, semi-solid, or mixed liquid-solid
thinner, ink		pH: 2-14
		Specific Gravity: varies
		Flashpoint: > 73 °F
		Chemical Composition:
		Solvents, paints, thinners, inks,
		Hazardous Characteristics: Ignitable, Toxic
		ignitable, Toxic

- A sampling of typical waste streams/codes managed by the Facility managed in the indicated processes is supplied; the listing is not comprehensive. See TablesC-1 for a complete listing of acceptable waste streams/codes for each management process.
- These waste codes typically represent the wastes to be managed as specified. Wastes carrying other waste codes (as listed in Table C-1) may also be managed in Facility processes.

TABLE C-3K

WASTE IDENTIFICATION/CLASSIFICATION MISCELLANEOUS MANAGEMENT PROCESSES (Continued)

TYPICAL WASTE STREAMS ¹	TYPICAL WASTE CODES ²	TYPICAL CHARACTERISTICS ³
Aerosol Depressurization Spray paint, lubricants, cosmetics	EPA Codes: D001, U002, U057, U080, U154, U159, U226	Physical Characteristics: Pressurized gas with liquid in small cans Chemical Composition: Flammable propellant with various active ingredients. Hazardous Characteristics: Ignitable, Toxic
Drum Wash DOT empty drums, RCRA empty drums, and drums with some residual materials (not meeting definition of RCRA empty)	EPA Codes: See Table C-1	Physical Characteristics: Liquids: varies Solids/Semisolids: varies pH: varies Specific Gravity: varies Flashpoint: varies Chemical Composition: varies Hazardous Characteristics: Toxic, ignitable, corrosive

- A sampling of typical waste streams/codes managed by the Facility managed in the indicated processes is supplied; the listing is not comprehensive. See Table C-1 for a complete listing of acceptable waste streams/codes for each management process.
- 2. These waste codes typically represent the wastes to be managed as specified. Wastes carrying other waste codes (as listed in Table C-1) may also be managed in Facility processes.
- 3. These characteristics typically represent the wastes to be managed as specified. Please refer to Tables C-5 and C-6 for storage and process limits for each waste management method.

TABLE C-3K

WASTE IDENTIFICATION/CLASSIFICATION MISCELLANEOUS MANAGEMENT PROCESSES (Continued)

TYPICAL WASTE STREAMS ¹	TYPICAL WASTE CODES ²	TYPICAL CHARACTERISTICS ³	
Truck Wash Trucks and/or tankers may contain any water compatible liquid and sludges that have been received by the facility. These can carry almost any of the waste codes received at the facility as shown in Section C, Table C-1, except for D003 (reactive wastes), which are not processed on-site. Romic will also be able to clean hazardous material or hazardous waste transfer vehicles that have not made a delivery to the facility	EPA Codes: Any listed in Part A	Physical Characteristics: Liquids: varies Solids/Semisolids: varies pH: 0-14 Specific Gravity: varies Flashpoint: varies Chemical Composition: Varies widely Hazardous Characteristics: varies	

- A sampling of typical waste streams/codes managed by the Facility managed in the indicated processes is supplied; the listing is not comprehensive. See Table C-1 for a complete listing of acceptable waste streams/codes for each management process.
- 2. These waste codes typically represent the wastes to be managed as specified. Wastes carrying other waste codes (as listed in Table C-1) may also be managed in Facility processes.
- 3. These characteristics typically represent the wastes to be managed as specified. Please refer to Tables C-5 and C-6 for storage and process limits for each waste management method.

TABLE C-4

WASTE ACCEPTANCE ANALYSIS SUMMARY*

PRIMARY MANAGEMENT PROCESSES

Waste Parameters	Solvent Recovery	Ethylene Glycol Recycling	Fuel Blending	Wastewater Treatment	Neutralization	Inorganic Treatment	Solids Consolidation	Off-site Transfer
Physical Description/Observation (1)	D,B	D,B	D,B	D,B	D,B	D,B	D	D,B
pН	D,B (2)	D,B	D(2)	D,B (2)	D,B (2)	D,B (2)		D,B (2, 3)
Specific Gravity	D,B	D,B	D,B	D,B	D,B	D,B		B (3, 4)
Radiation Screen	D,B	D,B	D,B	D,B	D,B	D,B	D	D,B
Solvent Composition	D,B	D,B	D,B (5)	D,B	D,B (6)	D,B (6)		D,B (3, 6)
Cyanide Screen	D,B (6)	D,B (6)	D,B (6)	D,B (6)	D,B (6)	D,B (6)		D,B (3, 6)
Oxidizer Screen	D,B (6)	D,B (6)	D,B (6)	D,B (6)	D,B (6)	D,B(6)		D,B (3, 6)
Sulfide Screen				D,B (6)	D,B (6)			D,B (3, 6)
Heat of Combustion (BTU)			В				D	D(1)
Total Metals			D, B (6)	D, B (6)		D,B	D (1)	D,B (6)
Total Halogens			В				D (1)	D,B (6)
PCBs			D,B (6)					D,B (6)
Total Cyanides				D, B (8)	D, B (8)		D (8)	D, B (8)
Total Sulfides	·			D, B (8)	D, B (8)		D (8)	D, B (8)
Flash Point				B (6)				D,B (3, 6)
Waste Compatibility	D,B (9)		B (9)	D,B (9)	D,B (9)	D,B (9)		D,B (9, 10)
Ammonia				B (6)	D,B			B (3, 6)

Footnotes:

- * = Table applies to both pre-acceptance and acceptance processes
- D = Analysis performed on container waste
- B = Analysis performed on bulk waste
- 1) Includes an evaluation of chemical composition listed on waste's profile, conformity of the information with container labeling, and physical observation of waste.
- 2) Test may be conducted on 1:1 mix of sample and water, if direct measurement is not feasible.
- 3) Performed on liquids only and, for semi-solid wastes, if viscosity and/or % sludge allows test.
- 4) Analysis only performed on liquids to be placed into on-site tanks.
- 5) May be performed in-lieu of BTU analysis.
- 6) Performed as necessary if profile or waste's chemical and/or physical characteristics (*e.g.* extreme pH value, labeling) indicate possible presence of suspect waste parameter and/or to comply with off-site receiving facility criteria.
- 7) If visible oil layer is present, and enough oil is present to obtain a sample (typically > 1 milliliter).
- 8) Analysis performed only if profile and/or test strip indicate possible presence, and the exact amount present is required to be known to properly handle the waste.
- 9) Only performed if incoming material is to be consolidated with other wastes and exhibits extreme acidic or basic properties (pH \leq 2.5 or \geq 8.5), or has the potential to react (e.g. oxidizers, un-reacted monomers).
- 10) Compatibility of potentially incompatible solid wastes (e.g. extreme pH values, oxidizers) to be consolidated is based on profile information and/or physical descriptions/observations of wastes.

TABLE C-5
STORAGE AND PROCESS LIMITATIONS* – PRIMARY MANAGEMENT PROCESSES

Waste Parameters	Solvent Recycling	Ethylene Glycol Recycling	Fuel Blending	Liquefaction	Wastewater Treatment	Neutralization	Inorganic Treatment	Solids Consolidation	Debris Shredding	Off-Site Transfer
Physical Description	Liquid	Liquid	Solid/liquid	Solid/ semisolid	Semisolid/ liquid	Solid/liquid	Semisolid/ liquid	Solid	Solid	Solid/ semisolid/ liquid
pН	2.0 - 14.0	2.5 - 12.0	1.0 - 14.0	2.5 - 12.0	4.0 – 12.0	0 - 14.0	0 – 14.0	n/a	n/a	0-14
Specific Gravity	0.6 - 1.7	0.9 - 1.2	0.6 - 1.7	n/a	0.8 - 1.4	0.8 - 1.7 (liquids)	0.6-1.7	n/a	n/a	see footnote 1
Radiation Screen	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	Negative	negative
Solvent Composition	See footnote ²	> 15 % ethylene glycol	See footnote	n/a	Organics < 50%	Organics ≤ 1%	Organics ≤ 10 %	n/a	n/a	varies ^{2, 3}
Cyanide Screen	Negative	Negative	Negative	Negative	See Footnote ³	Negative	No limit	n/a	n/a	varies 3
Oxidizer Screen	Negative	Negative	Negative	Negative	See Footnote ³	See Footnote ³	No limit	n/a	n/a	varies 3
Sulfide Screen	n/a	Negative	n/a	n/a	See Footnote ³	n/a	n/a	n/a	n/a	varies 3
Heat of Combustion (BTU)	No limit	n/a	> 3,000 BTU/lb	> 3,000 BTU/lb	n/a	n/a	n/a	n/a or > 3,000 BTU/lb ⁴	n/a or > 3,000 BTU/lb ⁴	n/a > 3,000 BTU/lb ⁴
Total Metals	No limit	No limit	varies 3	No limit	See footnote 5	No limit	See footnote 10	varies 3	varies 3	varies 3
Total Halogens	No limit	No limit	varies 3	No limit	No limit	No limit	No limit	varies 3	varies 3	varies 3
PCBs	< 5 ppm	< 5 ppm ⁶	< 50 ppm	< 50 ppm	< 5 ppm ⁶	< 5 ppm ⁶	< 5 ppm ⁶	< 50 ppm	< 50 ppm	< 50 ppm
Total Cyanides	No limit	No limit	No limit	No limit	< 2,000 ppm	< 2,000 ppm	No limit	varies 3	varies 3	varies 3
Total Sulfides	No limit	No limit	No limit	No limit	< 260 ppm	< 260 ppm	No limit	varies 3	varies 3	varies 3
Flash Point	No limit	> 100 ° F	No limit	No limit	No limit	No limit	No limit	n/a	n/a	varies 3
Waste Compatibility ^{7,8}	$\Delta T < 10^{\circ}C$	$\Delta T < 10^{\circ}C$	$\Delta T < 10^{\circ}C$	ΔT< 10°C	$\Delta T < 10^{\circ}C$	$\Delta T < 10^{\circ}C$	$\Delta T < 10^{\circ}C$	see footnote 8 see footnote 8		$\Delta T < 10^{\circ}C^{9}$
Ammonia	No limit	See Footnote ³	No limit	No limit	See Footnote ³	See Footnote ³	No limit	n/a	n/a	< 2,000 ppm 9 or varies ³

Footnotes:

* = The determination of each waste's compliance with the storage and process limits listed here is based on profile and/or sampling information. Also note that, although not specifically listed here, the Facility's permit-excluded wastes (i.e. radioactive, bio-hazardous, etc.) are assumed waste acceptance limitations.

- Results should correspond closely to expected specific gravity for material; limits also based on EPA-approved specific gravity limits of tank/container used to consolidate liquids.
- 2) Solvent composition assists Facility in determining the amount and nature of solvents present in wastes. Results should correspond closely to waste composition information provided on profile, and are used as an aid in setting operating parameters. There are no specific limits for Facility permit-acceptable solvents.
- 3) The storage and/or process limits for these parameters are determined by the Facility's general permit waste acceptance limits and/or ultimate off-site receiving facilities, and are not applicable to Facility management methods.
- 4) For wastes destined for incineration or landfill, BTU values are not applicable. For wastes destined for fuel, target BTU value is > 3,000 BTU/lb.
- The following metals limits correspond to disposition code/treatment process used for aqueous wastes: A1 (direct bio-treatment): equals that of POTW discharge limits, A2 (TFE distillation column): equals POTW limits multiplied by 20, and A3 (vacuum distillation): equals POTW limits multiplied by 400. Metals analysis is performed on consolidated aqueous wastes in tanks on a batch basis prior to transfer to the A1, A2, or A3 treatment processes.
- 6) If visible oil layer is present, and enough oil is present to obtain a sample (typically > 1 milliliter), oil must be < 5 ppm PCBs.
- 7) For liquids, aliquot of sample of potentially incompatible waste (based on profile or fingerprint analysis) is mixed with a sample of waste in a target storage tank; an observed violent reaction or temperature rise of 10°C or greater indicates incompatibility.
- 8) For solids, compatibility of potentially incompatible wastes to be consolidated is based on profile information and/or physical descriptions/observations of wastes.
- 9) Limit for potentially incompatible liquids to be consolidated prior to off-site transfer.
- 10) Metals limits will vary by waste type and are based on the specific processing method's ability to treat inorganic wastes so that resulting waste water meets above listed Wastewater Treatment metals limits.

TABLE C-6
STORAGE AND PROCESS LIMITATIONS* – MISCELLANEOUS MANAGEMENT PROCESSES

Waste Parameters	Consolidation of Small Containers	Can Crushing	Aerosol Depressurization	Drum Wash	Tanker Truck Wash
Physical Description/ Observation	Solid/semisolid/ liquid	Semisolid/ liquid	Pressurized liquid	Nearly empty; may contain residual solid/semisolid/ liquid	Semisolid/liquid
pН	See footnotes ^{1,2}	See footnotes ^{1,2}	n/a	n/a	0-14 2
Specific Gravity	See footnote ¹	See footnote ¹	n/a	n/a	no limit
Radiation Screen	negative ⁹	negative ⁹	negative ⁹	negative ⁹	negative ¹⁰
Solvent Composition	See footnote 1, 3	See footnotes ³	n/a	n/a	see footnote ³
Cyanide Screen	See footnote ¹	negative	n/a	n/a	no limit ⁸
Oxidizer Screen	See footnote ¹	negative	n/a	n/a	no limit ⁸
Sulfide Screen	See footnote ¹	no limit	n/a	n/a	no limit ⁸
Heat of Combustion (BTU)	See footnote ¹	> 3,000 ⁴	n/a	n/a	n/a
Total Metals	See footnote ¹	See footnote ⁵	n/a	n/a	no limit
Total Halogens	See footnote ¹	no limit	n/a	n/a	no limit
PCBs	< 50 ppm ^{6, 9}	< 50 ppm ^{6, 9}	n/a	n/a	< 50 ppm ^{6, 9}
Total Cyanides	See footnote ¹	no limit	n/a	n/a	< 2,000 ppm
Total Sulfides	See footnote ¹	no limit	n/a	n/a	< 260 ppm
Flash Point	See footnote ¹	no limit	n/a	n/a	no limit
Waste Compatibility ⁷	ΔT<10°C	ΔT<10°C	n/a	n/a	ΔT<10°C
Ammonia	See footnote ¹	no limit	n/a	n/a	< 2,000 ppm

Footnotes:

* = Storage and process limits based on profile and/or sampling information n/a = not applicable $\Delta T = change$ of temperature PCBs = Polychlorinated biphenyls ppm = parts per million

- 1) Waste acceptance limit pertains to consolidated wastes and defaults to limit for onsite management option or off-site facility receiving limit.
- If pH of waste is ≤ 2.5 or ≥ 12.5 (based on profile or analytical data), waste compatibility (see note #7) test may be performed.
- 3) Solvent composition assists Facility in determining the amount and type of solvents present in wastes. Results should correspond closely to waste composition information provided on profile, and are used as an aid in setting operating parameters. There are no specific limits for Facility permit-acceptable solvents.
- 4) For resulting wastes destined for wastewater treatment, solvent recovery, incineration, or landfill, BTU is not applicable; BTU value must be > 3,000 for wastes destined for fuel.
- 5) For wastes destined for fuel and/or off-site transfer wastes, metals limits are set by individual kilns/off-site facilities and are subject to change. For wastes destined for on-site aqueous treatment, see Table C-5 for metals limits.
- 6) If oil or oil layer present, and enough oil is present to obtain a sample (typically > 1 milliliter)
- 7) Aliquot of sample of potentially incompatible waste (based on profile or fingerprint analysis) is mixed with a sample of waste in a target storage tank; an observed violent reaction or temperature rise of 10°C or greater indicates incompatibility.
- 8) If test strip indicates possible presence, compatibility test will be performed as necessary for wastes to be consolidated
- 9) Limit based on profile information; physical analysis may be performed if physical observations (i.e. labeling) indicate a deviation from waste's profile.
- 10) Test performed on non-RCRA empty trucks arriving solely for the purpose of receiving truck washing services.

TABLE C-7a

DISPOSITION CODE COMPATIBILITY AND CONTAINER STORAGE LOCATIONS PRIMARY MANAGEMENT PROCESSES

Waste Management Option	Example Disposition Codes ¹	Example Incompatible Disposition Codes 1, 2, 3	Typical Container Storage Locations ⁴
Solvent Recycling	Non-Chlorinated Solvents ACE: Acetone, LAC: Lacquer Thinner, MEK: Methyl Ethyl Ketone, NMP: n-Methyl Pyrollidone, RCMS: Mineral Spirits, NBAC: N-butyl Acetate, THF: Tetrahydrofuran, TOL: Toluene, XYL: Xylene Chlorinated Solvents MCH: Methylene Chloride, PERK: Perchloroethylene, TCE: Trichloroethylene, TCA: 1,1,1-Tri-chloroethane	OXLA, OXLB, NAL	Storage Building #1
Ethylene Glycol Recycling	E/G: Ethylene glycol recycling	OXLA, OXLB, NAL	Storage Building #1
Fuel Blending	F1: Wastes for fuel with 0-10% water, 0-4% chlorine F2: Wastes for fuel with 11-20% water, 4-8% chlorine F3: Wastes for fuel with > 20% water, > 8% chlorine	OXLA, OXLB, NAL	Storage Building #1
Liquefaction	T/B: Liquefaction	OXLA, OXLB, NAL	Storage Building #1
Aqueous Treatment	 A1: Aqueous waste to go directly to bio-treatment system A2: Aqueous waste with less than 5% solids, can go directly to fractionator A3: Aqueous waste with less than 5% solids, can go directly to thin film evaporator 	NAL	Storage Building #1
Neutralization	NAL: Neutralize acid, liquid	NBL, OXLB	Storage Building #2Building on secondary containment pallets, if necessary ⁵
	NBL: Neutralize base, liquid	NAL, OXLA	Storage Building #2 on secondary containment pallets, if necessary ⁵
Inorganic Treatment	To be determined (TBD)	See footnote ³	Storage Building #1 or #2
Solids Consolidation	INC: Incineration, solids for consolidation, LDF: Landfill, may be consolidated	OXLA, OXLB, NAL See footnote ³	Storage buildings #1

- 1) The disposition codes listed here are shown for example purposes only. The Facility may change, add, or delete disposition codes for each management option to meet current waste management requirements.
- 2) Wastes with disposition codes that are known to be incompatible will not be mixed unless compatibility test results demonstrate conclusively that, in that specific case, the two wastes are compatible, and mixing them would cause no adverse reaction or condition.
- For proposed waste streams and management options, disposition codes will be assigned and/or wastes will be segregated based on some or all of the following: profile information, laboratory data, manifest information, DOT information, and/or established data on wastes compatibility. This also applies to disposition codes that do not specify waste characteristics (e.g. acidic, basic), such as INC, LDF.
- 4) Upon receipt, all incoming containerized wastes are temporarily stored in container sampling areas (see Figure C-1) pending results of receipt analysis. Wastes designated as either oxidizers or corrosives (concentrated mineral acids only) by DOT labeling are placed on in designated sampling area, or are placed in secondary containment pallets in the container sampling area. If containerized wastes are determined through the receipt analysis procedure to have been classified incorrectly, they will be placed onto secondary containment pallets in a timely fashion before transfer to the appropriate container storage location.
- 5) Waste to be placed on secondary containment pallets if other wastes in storage area are incompatible.

TABLE C-7a

DISPOSITION CODE COMPATIBILITY AND CONTAINER STORAGE LOCATIONS PRIMARY MANAGEMENT PROCESSES

Waste Management Option	Example Disposition Codes ¹	Example Incompatible Disposition Codes 1, 2, 3	Typical Container Storage Locations ⁴
	DEBG : Debris, grindable (solid fuels)	OXLA, OXLB, NAL	
Debris Shredding	DEBS: solid fuels, to be shredded INCS: Incineration, to be shredded	OXLA, OXLB, NAL	Storage buildings #1
	INCN: Incineration, do not consolidate	OXLA, OXLB, NAL	Storage Building #1 or #2
	LDFN: Landfill, do not consolidate	See footnote ³	Storage Building #1
	OXLA: Oxidizer, liquid, acid storage	OXLB	Storage Building #2on secondary containment pallets, if necessary ⁵
Off-Site Transfer	OXLB: Oxidizer, liquid, base storage	OXLA	Storage Building #2 on secondary containment pallets, if necessary ⁵
	OXSA: Oxidizer, solid, acid storage	OXLB	Storage Building #2 on secondary containment pallets, if necessary ⁵
	OXSB: Oxidizer, solid, base storage	OXLA	Storage Building #2 on secondary containment pallets, if necessary ⁵
Ten-Day Transfer	Not applicable		

Other Example Disposition Codes

HOLD: Hold REJ: Reject

SID: Special Instructions for Disposal

RUS: Re-use on-site

- 1) The disposition codes listed here are shown for example purposes only. The Facility may change, add, or delete disposition codes for each management option to meet current waste management requirements.
- 2) Wastes with disposition codes that are known to be incompatible will not be mixed unless compatibility test results demonstrate conclusively that, in that specific case, the two wastes are compatible, and mixing them would cause no adverse reaction or condition.
- 3) For proposed waste streams and management options, disposition codes will be assigned and/or wastes will be segregated based on some or all of the following: profile information, laboratory data, manifest information, DOT information, and/or established data on wastes compatibility. This also applies to disposition codes that do not specify waste characteristics (e.g. acidic, basic), such as INC, LDF.
- 4) Upon receipt, all incoming containerized wastes are temporarily stored in container sampling areas (see Figure C-1) pending results of receipt analysis. Wastes designated as either oxidizers or corrosives (concentrated mineral acids only) by DOT labeling are placed on in designated sampling area, or are placed in secondary containment pallets in the container sampling area. If containerized wastes are determined through the receipt analysis procedure to have been classified incorrectly, they will be placed onto secondary containment pallets in a timely fashion before transfer to the appropriate container storage location.
- 5) Waste to be placed on secondary containment pallets if other wastes in storage area are incompatible.

TABLE C-7b

MISCELLANEOUS MANAGEMENT PROCESSES DISPOSITION CODE COMPATIBILITY AND CONTAINER STORAGE LOCATIONS

Waste Management Option	Example Disposition Codes ¹	Example Incompatible Disposition Codes 1,2,3	Typical Container Storage Locations ⁴			
Consolidation of Small Containers	LP/01: recycle LP/03: incineration LP/07: landfill	OXLA, OXLB, NAL OXLA, OXLB, NAL See footnote ³	Storage Building #2			
Can Crushing	TBD	OXLA, OXLB, NAL	Storage building #1 or #2			
Aerosol Depressurization	RA: Aerosols	OXLA, NAL	Storage building #1			
Drum Crush	RE : Recycle – Empty Drum	See footnote ³	Railspur Area & West Bay Processing			
Tanker Truck Wash	TBD	See footnote ³	N/A			

Other Example Disposition Codes

HOLD: Hold **REJ**: Reject

SID: Special Instructions for Disposal

RUS: Re-use on-site

- 1) The disposition codes listed here are shown for example purposes only. The Facility may change, add, or delete disposition codes for each management option to meet current waste management requirements.
- 2) Wastes with disposition codes that are known to be incompatible will not be mixed unless compatibility test results demonstrate conclusively that, in that specific case, the two wastes are compatible, and mixing them would cause no adverse reaction or condition.
- 3) For proposed waste streams and management options, disposition codes will be assigned and/or wastes will be segregated based on some or all of the following: profile information, laboratory data, manifest information, DOT information, and/or established data on wastes compatibility. This also applies to disposition codes that do not specify waste characteristics (e.g. acidic, basic), such as INC, LDF.
- 4) Upon receipt, all incoming containerized wastes are temporarily stored in container sampling areas (see Figure C-1) pending results of receipt analysis. Wastes designated as either oxidizers or corrosives (concentrated mineral acids only) by DOT labeling are placed on in designated sampling area, or are placed in secondary containment pallets in the container sampling area. If containerized wastes are determined through the receipt analysis procedure to have been classified incorrectly, they will be placed onto secondary containment pallets in a timely fashion before transfer to the appropriate container storage location.
- 5) Waste to be placed on secondary containment pallets if other wastes in storage area are incompatible.

TABLE C-8
SAMPLING METHODS AND EQUIPMENT

MATERIAL	METHOD	EQUIPMENT
Extremely viscous liquid or semi-solid	ASTM D140-70	Tubing or thief
Crushed or powered material	ASTM D346-75	Tubing, trier scoop or shovel
Soil or rock-like material	ASTM D420-69	Tubing, trier, auger, scoop or shovel
Soil-like material	ASTM D1452-65	Tubing, trier, auger, scoop or shovel
Fly ash-like material	ASTM D2234-76	Tubing, trier, auger, scoop or shovel
Containerized liquid	EPA 600/2-80-018 January 1980	Modified Coliwasa, tubing, weighted bottle, or bomb sampler

TABLE C-9
SAMPLE BOTTLE SELECTION

Sample	Plastic	Glass	Metal
Acids(except HF)	X	X	
Hydrofluoric Acid (HF)	X		
Alkalines	X	X	
Solvents		X	X
Oils	X	X	X
Solids	X	X	X
Aqueous	X	X	

X: Sample compatible for storage in this type of container.

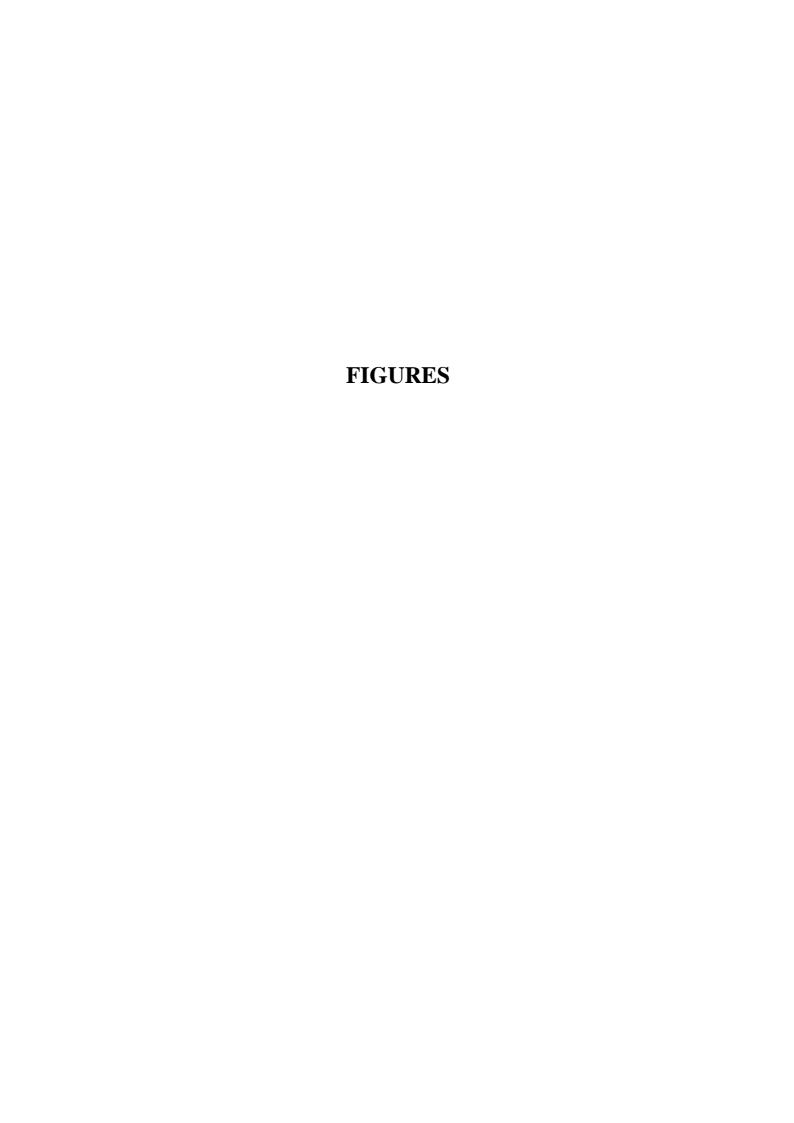
TABLE C-10 ANALYTICAL PARAMETERS, METHODS, AND RATIONALE

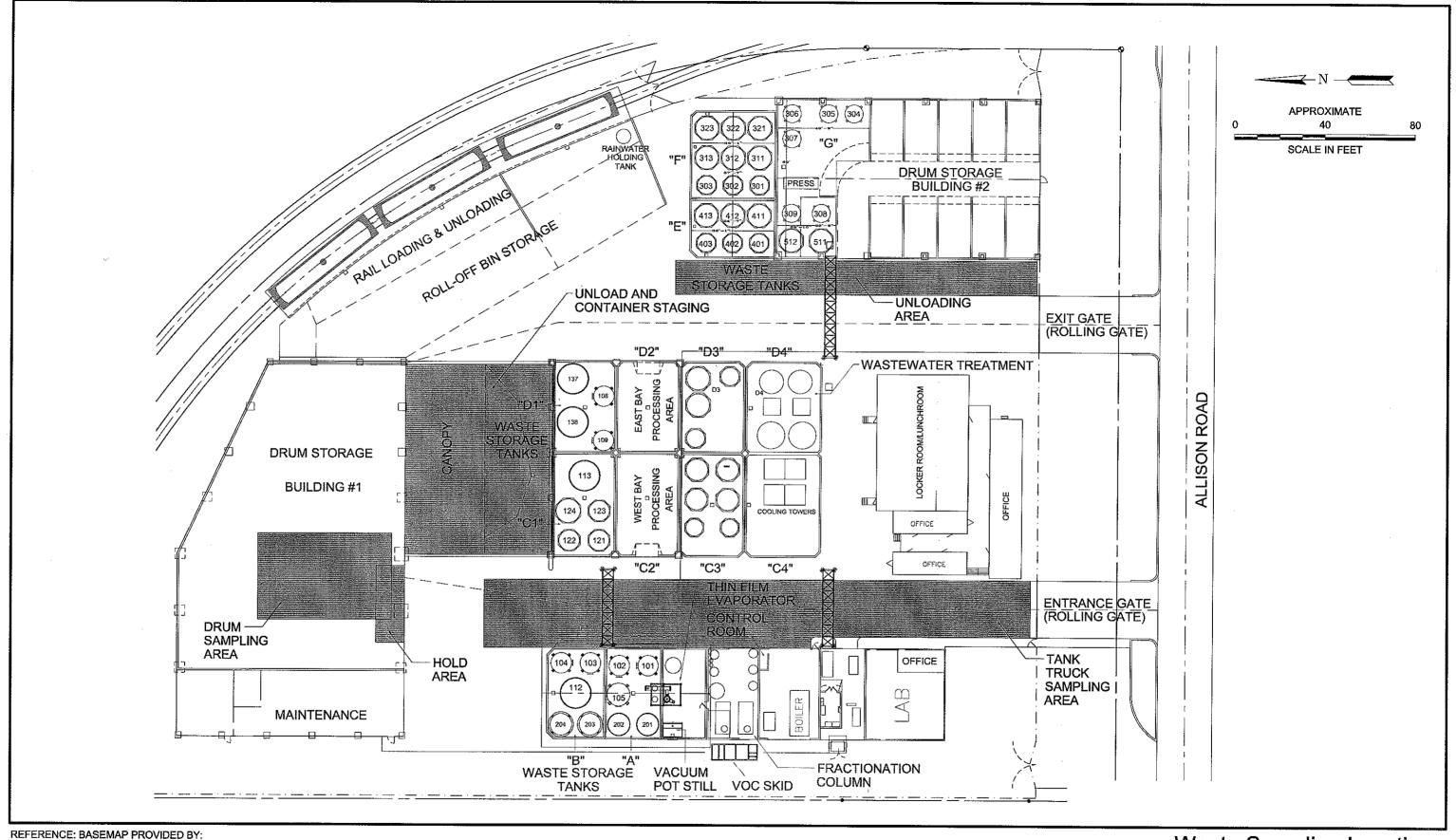
	Method	
Parameter	Reference ¹	Rationale
Physical Description/Observation	Romic Method	Determine variations in waste type, conformance to profile
рН	SW-846 Method	Determine variations in waste type; storage limitations; compatibility
Specific Gravity	Modified ASTM D1429-76 and/or Romic Method	Determine general chemical composition; variations in waste type
Radiation Screen	Geiger Counter/Romic Method	Screen out restricted material
Solvent Composition	Modified EPA Method, 8015 Gas Chromatography ASTM D3271	Determine composition of solvents present for use in determining ability to recycle and/or parameters necessary for treatment
Cyanide Screen	Test Strip/Romic Method	Determine variations in waste type; storage/process and discharge limitations; compatibility
Oxidizer Screen	Test strip/Romic Method	Indication of oxidizing potential
Sulfide Screen	Romic Method	Determine variations in waste type; process/discharge limitations; compatibility
Chlorine Screen	Beilstein Screen/Romic Method	Indicate presence of chlorine/chlorinated solvents
Heat of Combustion (BTU)	ASTM D240/Romic Method	Alternative fuel blending specifications
Total Metals ²	EPA methods 3005, 3050B, and 6010B	Alternative fuel specifications; ensure ability to meet discharge limits for specific treatment processes; LDR compliance
Total Halogens	Romic Method	Off-site receiving facility criteria
PCBs	EPA Method 8082	Screen out restricted material; off-site disposal specifications
Total Cyanides	Distillation/Romic Method SW846, 9014, 335.2	Screen out restricted material, off-site receiving facility criteria; process/discharge limitations, LDR compliance
Total Sulfides	SW846, 9034, 376.2/Romic Method	Off-site receiving facility criteria; LDR compliance
Flash Point	ASTM D3828	Determination of ignitability; storage limitations; compatibility, variations in waste type
Compatibility Screen	Romic Method	Determination of compatibility and proper management option
Ammonia	Romic Method	Determination of compatibility and proper management option, health and odor concerns

Footnotes:

- 1) "Romic Method" means a method developed internally to accommodate the special needs of hazardous waste verification. Romic Methods are described in Standard Operating Protocols (SOPs), which are maintained on site.

 2) "Total Metals" means the total concentration of one or more of the eight RCRA metals in a waste, individually speciated.







Waste Sampling Locations Romic - Southwest Chandler, Arizona

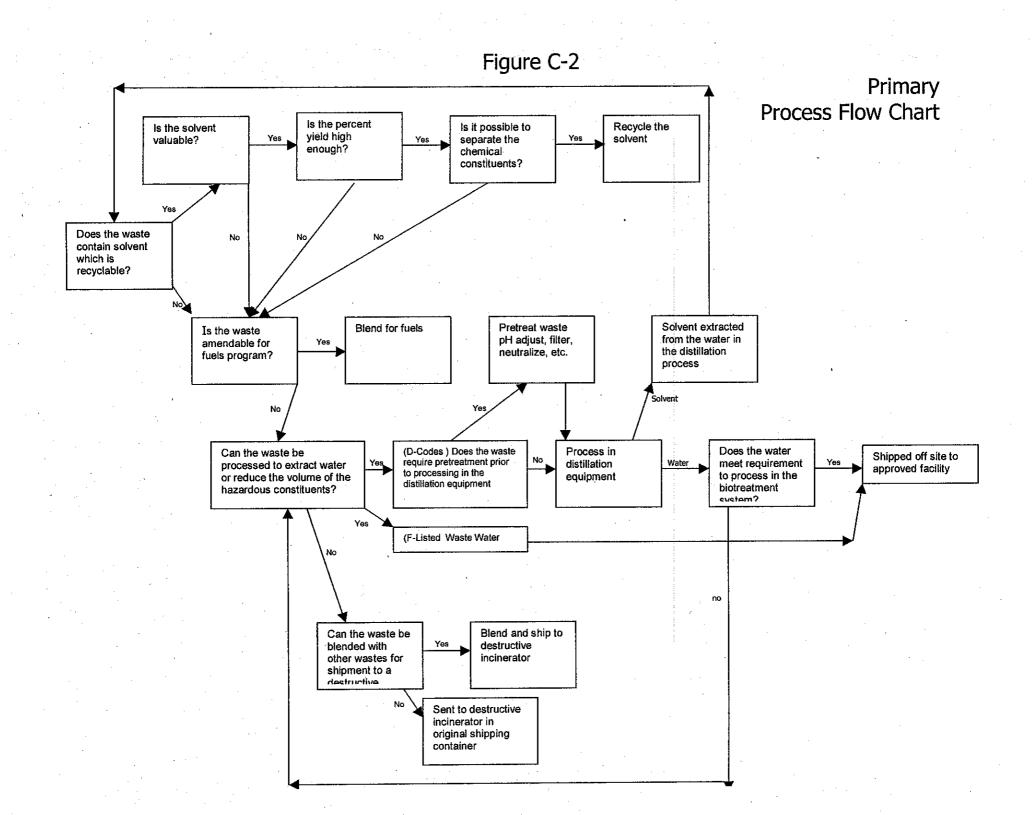
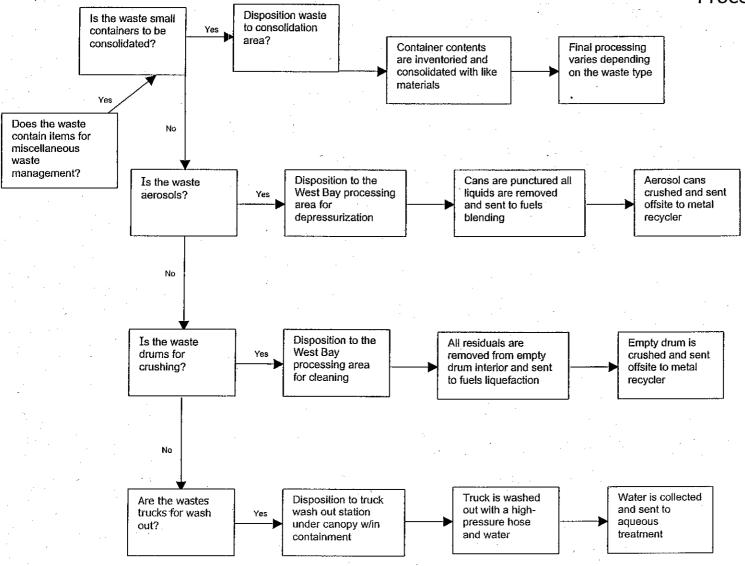


Figure C-3

Miscellaneous Process Flow Chart



WASTE PROFILE FORM



110 (9/02)

- Recycling
- · Lab Packing
- Field Services
- Consulting

"Excellence Through Commitment"

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☐ ROMIC • (800) ROMIC-4-U (800-766-4248)

2081 Bay Road • East Palo Alto, CA 94303-1316 Tel: (650) 324-1638 • Fax: (650) 462-2311

Total maximum concentration (must be ≥ 100%)

☐ ROMIC SOUTHWEST • (800) 952-5760

PO Box 5004 • 6760 W. Allison Road • Chandler, AZ 85226-5130 Tel: (520) 796-1040 • Fax: (520) 796-6214

A. Generator Information	
Company	Phone ()
Contact/Title	Fax ()
Site Address	
Manifest Mailing Address	City/State
	r Emergency #() Zip Code
	above? ■ Y ■ N
Company	Phone ()
	Fax ()
Mailing Address	City/State
EPA ID Profi	le Purchase Order # Zip Code
C. Transporter Information	
Company	
D. Generator Waste Information	EPA ID
Waste Name	Process Congrating Wests
	ning Degreasing Line/Equipment Flush Aerosols
-	Discarded Product
	ethod Code Source Code
Estimated Quantity Type/Size	Frequency
E. Physical Properties	
State at 70°F ☐ Liquid ☐ Solid ☐ Semi-Solid O	therColorLayers ☐ 1 ☐ 2 ☐ Multi
	Specific Gravity (if one layer)
	☐ 7 ☐ 7.1 - 12.4 ☐ ≥ 12.5 Exact Pumpable ☐ Y ☐ N
	I) ☐ 73-141 (D001/Flammable PG III) ☐ 142-199 (Combustible) ☐ ≥ 200
	% Halogens
F. Chemical Composition (use "% by volume	
	%
	%

No._____374591

G. Metals	s (us	e parts _l	per millic	n with a	maximu	ım range	of 1,00) ppm)							
☐ Tota	l	□.	TCLP	□s	TLC		No Metals	Presen	t						and the second s
Antimony	Sb				Chromiu	ım VI Cr	(D007)			Nic	kel	Ni			
Arsenic	As	(D004)		· ·	Cobalt	Co				Se	lenium	Se	(D010)	<u> </u>
Barium	Ва	(D005)			Copper	Cu			-	Silv	ver	Ag	(D011)	
Beryllium	Be				Lead	Pb	(D008)	***************************************	-	Th	allium	TI			
Cadmium	Cd	-			Mercury	Ü	(D009)			Va	nadium	. V			
Chromium III						num Mo				Zin	c	Zn			
H. Other	Pro	perties	(check al	I that app	oly)			e Dianes. Madrinis							
		DOT Cor. Oxidizer Organic F Polymeric OSHA Ca Acutely H CA Extree Pesticide	c Resin arcinogen lazardous mely Haza Containin	y (P code) rdous g		Flamma Dangero Spontan Pyropho Explosiv Non-Fria	e Cyanide e Sulfide ble Solid bus When eously Co ric / Air R e / Shock able Asbes	Wet ombustib eactive Sensitiv	e	Oze Am Hig Coo Rae	nzene None Dep monia C ihly Odo mpresse dical / Ir dioactive B Conta xin Con	oleting Containi Frous ed Gas ofectiou dining	ng		
				s Waste C	ertificatio	on for:	∃ Non-H	azardou	s Waste		Triple	_	l Conta	iners	
I. Shippin	ıg İn	ıformati	on												
Shipping Nam	ne														and see also in section
Technical n.o.	s. or	NON-RCI	RA Name		~~	:					V + 18	v.			<u> </u>
Hazard Class		· ·	· ·	UN / i	VA T		. 7		PG 🗀						
EPA Waste Co	ode(s	s)			hL		ł			_					
Subcategories	S		s				-							WW	□ NWW
CA Code		Othe	er State Co	ode(s)			Lowes	t RQ Co						nds	
☐ "Poison"				azard, Zor											T-E
Primary Label															*
Special Handl															
J. Certific															
I certify that a hazards have the waste to	c na	en discio	submitte sed. I fur	d in this a her certif	and all at y that an	tached d y sample	ocument es submi	s is com tted in c	nplete ar onjuncti	nd accu on with	rate an this do	d that a cumen	all knov It are r	vn or s eprese	suspected entative of
Authorized Ge	enera	tor Signat	ure				1								
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Attachments _															
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☐ Recycle/Re	eturn	- Specific	ations						-				•		
☐ New Custo			Existing C												
Comments			_								***************************************	·· _			

Appendix C-1 Laboratory Quality Assurance Procedures Manual

Appendix C-1

Laboratory Quality Assurance Procedure Manual

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1 PROJECT DESCRIPTION

1.1 Purpose

The laboratory of Romic Environmental Technologies Corporation maintains specific operational, test, and control procedures designed to assure that the analyses conducted produce accurate and reliable data. The data is used by various operating groups within Romic to properly classify and manage the received waste. The procedures established to assure accurate test results is described in the Quality Assurance Procedure Manual.

1.2 Scope

This QAPM addresses the specific needs of Romic's laboratory as part of a hazardous waste management facility (TSD) and is not designed to address the special needs of a state certified laboratory.

1.3 QA Objectives

Each analytical method maintains its own set of quality assurance objectives. These objectives are specified in the Standard Operating Procedures (SOP's) for each analysis. A summary of the QA/QC requirements for laboratory methods is listed in section 6 of this manual, however any requirements set forth in a method's SOP supercedes anything written here.

2 SAMPLING PROCEDURES

2.1 Purpose

The primary objective of the laboratory's sampling program is to collect samples that are accurate, reliable, and representative of the waste stream as a whole. A representative sample is a small portion of the waste that contains all the properties, constituents, and characteristics of the entire waste stream in the identical quantity and intensity. Detailed instructions for sampling waste received at Romic are set forth in SOP RSW-LAB-022. The Laboratory Drum Sampler has primary responsibility for all sampling activities on the facility.

2.2 Responsibilities

The designated drum sampler is responsible for:

- a) Determining the appropriate equipment, sampling techniques and sample containers to be used in the sampling process.
- b) Cleaning sampling devices, containers, and other equipment in order to eliminate the possibility of cross contamination between samples.
- c) Ensuring that sufficient quantity of sample is obtained.
- d) Checking that all sample documentation i.e., labels, log-sheets, chain of custody records, packing lists are correct and transfer this information to the laboratory.

2.3 Training

All sampling personnel are trained to be prepared for the potential hazards associated with handling toxic materials. They must follow the procedures established by the Health and Safety Department. They are required to wear appropriate personal protective equipment throughout the entire sampling process.

i

3 SAMPLE CUSTODY

3.1 Profile Samples

For the purpose of profile approval, a formal chain of custody is not required. However, many of the essential elements of a chain of custody procedure are followed to assure the integrity of the profile samples.

- a) All samples sent to Romic must be accompanied by a sample "Profile Form". Each profile form has a unique number that is used to identify the waste stream and track the sample.
- b) The generator is responsible for obtaining a representative sample of the waste, completing the profile form and labeling the profile sample with the profile number. By filling out and signing the profile form the generator is certifying that the sample is representative of the waste stream.
- c) The profile paperwork and sample arrive at the facility together either hand delivered by the generator, a representative of Romic, or shipped via a courier such as UPS.
- d) Laboratory personnel receive the sample and paperwork, and forward the profile form to Customer Service Department. The Customer Service Department reviews the profile form for completeness and routes the form to the laboratory document coordinator.
- e) The Document Coordinator enters customer and generator information into the waste tracking database, and returns the profile form to the laboratory.
- f) Laboratory personnel then record receipt of the profile into the Profile Log Database. After analysis and approval by the Laboratory Manager, the profile is logged out of the lab in the Profile Log Database.
- g) The Laboratory is responsible for the proper storage and disposal of all profile samples. Data sheets and laboratory records are retained as part of the permanent documentation until facility closure

3.2 Waste Shipments

- a) All container and bulk shipments are assigned a unique tracking number when they are received. A drum sampling analysis sheet is generated which will accompany the samples through the entire approval process. The generator name and manifest information is entered into Romic's waste tracking database.
- b) Each sample taken is labeled with the tracking number of the drums that it was taken from.
- c) The samples and the drum sampling analysis sheet are taken together to the laboratory. Laboratory personnel log receipt of the samples into the laboratory KPI database.
- d) Laboratory personnel are responsible for the care and custody of samples from the time they are received until the sample is exhausted. Data sheets and laboratory records are to be retained as part of the permanent documentation until facility closure.

4 SAMPLE RETENTION

The laboratory retains samples for three months for the specific purpose of allowing re-sampling in the event of a dispute or discrepancy in the waste shipment. At the end of the retention time the samples are handled as hazardous waste, and consolidated or put into drums for further management.

4.1 Profile Samples

Profile samples required per the Waste Analysis Plan will be retained for three months. They are stored in secondary containment in the laboratory. After three months, the samples will be treated as a hazardous waste and managed accordingly.

4.2 Waste Samples

Incoming waste shipments are sampled and analyzed per the requirements set forth in the Waste Analysis Plan. Samples are retained for up to three months in the original sample containers. They are stored in secondary containment in the laboratory. After three months the samples will be treated as a hazardous waste and managed accordingly.

4.3 Calorimetry

A benzoic acid tablet is run at a minimum monthly to check instrument operation. EE values are updated after a bomb has been resurfaced or as necessary based on the results of the benzoic acid standard runs.

4.4 Total Halogens

Titrate a 1% chloride standard monthly, or as necessary, to check the silver nitrate titrant stability.

4.5 Karl Fischer Analysis

Deionized water is used as the reference standard to set 100% titration endpoint. The water factor is determined daily and whenever the titration solution is changed.

4.6 pH Measurement

The meter is calibrated daily, with three buffer solutions pH 4, 7, and 10. An independent QC solution of pH 7.0 is used to check the calibration.

4.7 Ion Chromatography

The methods are calibrated using a one-point curve. A method QC and blank are run prior to every analysis set and at 10% intervals thereafter. The methods are recalibrated only when QC runs indicate it is necessary. The blank run should show the system is free from contamination.

5 CALIBRATION PROCEDURES AND FREQUENCY

The level and frequency of calibration will vary with each method as well as the specific requirements of the task at hand. In many cases, for the support of production processes, a completely verified and substantiated calibration procedure is not necessary or desirable. For those cases where a rigorous calibration procedure is required, the following are the minimum requirements.

5.1 Gas Chromatography Methods

- a) Solvent Screens: A two-point calibration curve is maintained using 25 of the most commonly received solvents. The curve's range is from 10% to 50% w/w composition. A QC solution containing five components 20% each w/w, selected for their range of retention times, is run each day and then at 10% intervals thereafter. Retention time standards for another 38 common industrial solvents are available primarily as a qualitative standard.
- b) PCB Analysis: A method blank, Arochlor 1242 standard, and a matrix spike are run before each analysis set. The matrix spike and blank are run at 10% intervals thereafter. After any PCB's are identified in the sample, the appropriate Arochlor standard is run and the sample amount is calculated using a one-point curve with the standard run. A retention time library for eight common Arochlor's is available for comparison and pattern matching. The library chromatograms are updated as required.

6 DATA REDUCTION, REPORTING, AND REVIEW

6.1 Data Reduction

All data generated is reduced using a combination of manual and automated computer programs. The Laboratory Manager or his designated Chemist reviews all data.

6.2 Data Reporting and Review

Data is reported in a number of forms as needed by the laboratory to assure proper management of the hazardous waste. At a minimum, all test results required in the facility's waste analysis plan are recorded and maintained as part of the facility's Operating Record. The Laboratory Manager is responsible for reviewing the files that are part of the Operating Record to assure QA policies are met.

6.3 Responsibility

Laboratory analysts are responsible for their own QA/QC data. This data has to be kept in the designated laboratory areas at all times. Each analyst is required to follow the QA/QC as specified in each method's SOP, and the Waste Analysis Plan. It is the analyst's responsibility to initiate any necessary corrective actions. It is the Laboratory Manager's responsibility to review and approve the corrective actions that were taken by the analysts.

7 ANALYTICAL PROCEDURES

All analyses are conducted in accordance with the specific test method referenced or described in the Waste Analysis Plan. The methods used are either from ASTM, EPA SW-846 or Romic Methods of the Part B Permit Application. All analysts are required to follow methods as specified therein.

8 PREVENTATIVE MAINTENANCE

Trained laboratory personnel perform all instrument maintenance that can affect the quality of data generated. Laboratory balances, viscometers, radiation meters, and colorimeter bombs are not maintained by Laboratory personnel. They are serviced, calibrated and certified annually by either the manufacturer or other vendor.