

Zender Environmental Health & Research

- Non-profit organization
- Based in Anchorage
- Updated website:
www.zendergroup.org



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The Problem

There is no safe way to discard hazardous and potentially harmful waste in rural communities.



Materials come in...but there is no organized & consistent way of getting them back out

Household Hazardous Waste

LIST OF COMMON HOUSEHOLD HAZARDOUS WASTE ITEMS

CLEANING PRODUCTS

- Oven cleaners
- Drain cleaners
- Wood and metal cleaners and polish
- Toilet cleaners
- Tub, tile, shower cleaners
- Laundry bleach
- Chemical pool cleaners

AUTOMOTIVE PRODUCTS

- Motor oil
- Fuel additives
- Carburetor and fuel injection cleaners
- Air conditioning refrigerants
- Starter fluids
- Automotive batteries
- Transmission and brake fluid
- Antifreeze

LAWN AND GARDEN PRODUCTS

- Herbicides
- Insecticides
- Fungicides/wood preservatives

INDOOR PESTICIDES

- Houseplant insecticides
- Moth repellents
- Mouse and rat poisons and baits
- Flea repellents and shampoos
- Bug sprays
- Cockroach sprays and baits
- Ant sprays and baits

WORKSHOP/PAINTING SUPPLIES

- Adhesives and glues
- Furniture strippers
- Oil or enamel based paint
- Stains and finishes
- Paint thinners and turpentine
- Paint strippers and removers
- Photographic chemicals
- Fixatives and other solvents

OTHER FLAMMABLE PRODUCTS

- Propane tanks and other compressed cylinders
- Kerosene
- Home heating oil
- Diesel fuel
- Gas/oil mix
- Lighter fluid

OTHER PRODUCTS

- Batteries
- Mercury thermometers or thermostats
- Fluorescent light bulbs
- Driveway sealers

Other Hazardous Waste Streams (Potentially Found in Communities)

- Unknown Drums (not labeled)
- Automotive Fluids (waste oil, solvents)
- Asbestos Containing Building Materials
- PCB Containing Ballasts and Transformers (pre 1979)
- Fuel Storage Tanks (sludges from cleaning)
- Contaminated Soil and Water from Clean-ups
- Mining Waste Streams
- Military Activity

Elim Alaska – Kawerak Brownfield



Inventory and Logistics Planning

- Quantity and Type of Waste Stream(s)
- How will the Waste be Packaged, Loaded, and Shipped
 1. DOT Approved Containers (Totes, Drums, Cubic Yard Boxes)
 2. Forklift, Crane, Heavy Equipment
 3. Truck Hauled, Landing Craft/Marine Barge, Rail, Air (Packaging Exceptions)
 4. 20', 40' Connex Container, Deck-loaded, or?
 5. Will Testing be Needed (SDS, lab analysis, Haz Cat kit, Chlor D Tec)
 6. Is it Residential or Commercial Generated Waste (EPA Generator ID)
- Where will the Waste be Disposed/Recycled
 1. EPA Approved Hazardous Waste Facility

Dillingham Alaska Paint Removal Project



Dillingham Oil Base and Latex Paints Removal

- **Oil Base Paints:**

1. DOT, EPA, OSHA Regulated Hazardous Waste (Flammable and Health Hazard)
2. EPA Regulations Require Disposal/Recycling by an EPA Approved Hazardous Waste Facility
3. DOT and OSHA Regulations Require Appropriate Handling, Packaging, Labeling, Shipping, and Documentation (Hazwaste Manifest, EPA Generator/Transporter ID). Residential Generated Exception (Dangerous Goods BOL, Non-hazwaste Manifest, No EPA Generator needed)

- **Latex/Acrylic Paints:**

1. Not Regulated-Except must be Dried/Hardened Before Disposal.
2. Water-Soluble when Liquid.

- **40' Container Mixed Paint:**

1. Packaged in 16 Lined Cu/yard Boxes, Forklift Loaded into 20' container, Hauled to Port, AML Marine Trans to Seattle, Hauled From Port to Rail, Rail to WM Hazardous Waste Facility in Arlington, OR.

Quotes

- Disposal/Recycling Facility
- Packaging and Loading
- Transportation
 1. Trucking (Certified for AML Transport)
 2. Marine Barge
 3. Rail

Disposal/Treatment Facility Quote

- PRICE SCHEDULE
- LP01
- Loose Packs (paint and paint related materials, flammable) crushable for fuels, no resins, adhesives
- \$1,413.00 Ydbox
- LP03
- Loose Packs (latex, water based items (pH3-11) for solidification and landfill
- \$462.00 Ydbox
- Code / Description Price Unit Minimum
- BCONT2N \$10,040.00 Per load
- 20' Intermodal Non-Hazardous Transportation
- BCONT2H \$18,330.00 Per load
- 20' Intermodal Hazardous Transportation
- A wastewater management fee, currently at 4.75% will be applied to the core disposal charge.
- \$5/ton Oregon DEQ fee.
- \$85.00 profile fee charged to each profile submitted

Profiles and Regulatory Compliance

- Preparing Hazardous Waste Facility Required Profiles
 1. Manufacturer SDS Sheets, Field Testing, Laboratory Analytical Data
 2. Chemical and Physical Characteristics
 3. Hazardous or Non-Hazardous Determination
 4. Federal and State Regulations and Codes
- Regulatory Compliance
 1. Hazardous Class Determination-Flammable Class 3
 2. Handling, Packaging, Labeling, Shipping, Disposal and Manifesting Requirements

Oil Base Paint Profile



EZ Profile™

Requested Facility: CWM Arlington Unsure Profile Number: OR356612
 Multiple Generator Locations (Attach Locations) Request Certificate of Disposal Renewal? Original Profile Number: _____

A. GENERATOR INFORMATION (MATERIAL ORIGIN)

1. Generator Name: City of Dillingham
 2. Generator Site Address: 141 Main St.
 (City, State, ZIP) Dillingham AK 99578
 3. County: Dillingham
 4. Contact Name: Patti Buhalm
 5. Email: planner@dillinghamak.us
 6. Phone: (907) 842-3785 7. Fax: _____
 8. Generator EPA ID: _____ N/A
 9. State ID: _____ N/A

C. MATERIAL INFORMATION

1. Common Name: Paint Related Material
 Describe Process(es) Generating Material: See Attached
collected from households
 2. Material Composition and Contaminants: See Attached

1. <u>oil base paint/paint related material</u>	<u>100%</u>
2.	
3.	
4.	

Total comp. must be equal to or greater than 100% ≥100%
 3. State Waste Codes: X008 N/A
 4. Color: varies
 5. Physical State at 70°F: Solid Liquid Other: _____
 6. Free Liquid Range Percentage: 0 to 100 N/A
 7. pH: 7 to 9 N/A
 8. Strong Odor: Yes No Describe: chemical-VOC
 9. Flash Point: <140°F 140°-199°F ≥200° N/A

E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION

1. Analytical attached Yes
 Please identify Lab Report(s) and list specific representative Sample ID#s:

 2. Other information attached (such as SDS)? Yes

G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)

By signing this Waste Management ("WM") Profile, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for proper material characterization and to identify known and suspected hazards has been provided. Any analytical data attached was derived from a sample that is representative as defined in 40 CFR 261.1 - Appendix 1 or by using an equivalent method. All changes occurring in the character of the material (i.e., changes in the process or new analytical) will be identified by the Generator and be disclosed to WM prior to providing the material to WM. I am aware that there are significant penalties for knowingly submitting false information.

I am authorized to sign on behalf of the Generator and I have confirmed with the Generator that information contained in this profile, as well as supporting documents provided, are accurate and complete.
 I am a duly authorized employee of Generator holding a position of technical responsibility with direct knowledge of the waste stream and the information contained in this profile, and I confirm that information contained in this profile, as well as supporting documents are accurate and complete.

QUESTIONS? CALL 800 963 4776 FOR ASSISTANCE

B. BILLING INFORMATION SAME AS GENERATOR

1. Billing Name: Curyung Tribe-IGAP
 2. Billing Address: 715 Seward St.
 (City, State, ZIP) Dillingham AK 99578
 3. Contact Name: Desi Bond
 4. Email: environmental@curyung.com
 5. Phone: (907) 842-2384 6. Fax: _____
 7. P.O. Number: _____
 8. Payment Method: Credit Account Cash Credit Card at Gate

D. REGULATORY INFORMATION

1. EPA Hazardous Waste? Yes* No
 Code: _____
 2. State Hazardous Waste? Yes No
 Code: X008
 3. Is this material non-hazardous due to Treatment, Delisting, or an Exclusion? Yes* No
 4. Contains Underlying Hazardous Constituents? Yes* No
 5. Does the material contain benzene? Yes* No
 6. Facility remediation subject to 40 CFR 63 GGGGG? Yes* No
 7. CERCLA or State-mandated clean-up? Yes* No
 8. NRC, State-regulated, NORM or TENORM waste? Yes* No
 *If Yes, see Addendum (page 2) for additional questions and space.
 9. Contains PCBs? → If Yes, answer a, b and c. Yes No
 a. Regulated by 40 CFR 761? Yes No
 b. Remediation under 40 CFR 761.61? Yes No
 c. Were PCBs imported into the US? Yes No
 10. Regulated and/or Untreated Medical/Infectious Waste? Yes No
 11. Contains Asbestos? Yes No
 → If Yes: Non-Friable Non-Friable - Regulated Friable
 12. Contains Dioxins? (If Yes, please attach analysis) Yes No

F. SHIPPING AND DOT INFORMATION


1. One-Time Event Repeat Event/Ongoing Business
 2. Estimated Annual Quantity/Unit of Measure: 6
 Tons Yards Drums Gallons Other _____
 3. Container Type and Size: original containers packed in boxes
 4. USDOT Proper Shipping Name _____ N/A
UN283, PAINT RELATED MATERIAL INCLUDING PAINT THINNING, DRYING, REMOVING, OR REDUCING COMPOUND MIXTURES, 3, PG 1, Oil Base Paint and Paint Related Material
 5. Estimated Start Date 09/28/2023
 6. Transportation Needed? Yes* No

Name (Print): Derrick Spoelman
 Title: Coordinator
 Company: Zender Environmental and Health Group
 Date: 09/22/2023
 Certification Signature

Hazardous Waste Manifest

CWMi
Form Approved OMB No. 2050-0039

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number EXEMPT	2. Page 1 of 2	3. Emergency Response Phone (800) 424-9300	4. Manifest Tracking Number 017412433 FLE	
5. Generator's Name and Mailing Address CITY OF DILLINGHAM 141 MAIN ST DILLINGHAM AK 99578 Generator's Phone: (907) 842-5789						
6. Transporter 1 Company Name ALASKA MARINE LINES			U.S. EPA ID Number WAD991281809			
7. Transporter 2 Company Name LYNDEN TRANSPORT			U.S. EPA ID Number AKD002504457			
8. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC. 17629 CEDAR SPRINGS LANE ARLINGTON OR 97812-9709 Facility's Phone: (503) 454-2643						
U.S. EPA ID Number ORD059452353						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	X	1. UN1283, PAINT INCLUDING PAINT, LACQUER, ENAMEL, STAIN, SHELLAC SOLUTIONS, VARNISH, POLISH, LIQUID FILLER 3.1 HHW OR356612	4 CF	3200	P	X006
		2. MATERIAL NOT REGULATED BY U.S. DOT (LATEX PAINT) OR356617	12 CF	9800	P	X004
		3.				
		4.				
14. Special Handling Instructions and Additional Information 1. OR356612 CHEMTREC CCN24117 2. OR356617 CONTAINER # 2037163						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled (if required), and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offero's Printed/Typed Name Kimberly Johnson Acting City Manager Signature:  Month Day Year: 10 2 13						
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. <input type="checkbox"/> For of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name _____ Signature _____ Month Day Year _____ Transporter 2 Printed/Typed Name _____ Signature _____ Month Day Year _____						
18. Discrepancy 18a. Discrepancy Indication Specify <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number _____ U.S. EPA ID Number _____						
18b. Alternate Facility (or Generator) Facility's Phone: _____ 18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. _____ 2. _____ 3. _____ 4. _____						
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a Printed/Typed Name _____ Signature _____ Month Day Year _____						

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM



Segregation of Oil Base and Latex Paints

Packaging Paint



Paint Packages Labeling and Loading



Loading Cubic Yard Boxes of Paint into 20' Container



Secured Load For Transport



Logistics Tracking and Invoicing

- Haul from Dillingham Landfill to Dock
- Book, Track, and Coordinate AML Pick-up
- Track AML Voyage to Seattle and Schedule Trucking to Railyard
- Track Arrival at Landfill
- Disposal Certificate, Final Manifest documentation
- Invoicing
 1. AML Invoice Approximately \$5,700 (Barge Transportation)
 2. WM Invoice Approximately \$13,000 (Rail Transport and Disposal/Recycling)
 3. Zender was In Kind (Covered by Government Grants)

Issues and Concerns to Consider

- Voyages from Alaska to Seattle Require a Canadian Transport Notice if Hazardous Waste is Shipped within their Waters
- Asbestos can be Present in most Building Materials Except Wood, Metal, and Glass (Highly Likely prior to 1987 and Likely 1987-1990)
- Hazardous Waste Shipping-EPA Generator, Shipper and Disposal ID Numbers, Manifest, Profile, Disposal, Costs, Handling, Labeling, Packaging, Storage and Shipping Regulations
- Proper PPE, Spill Prevention and Emergency Response, Health and Safety Plans, Appropriate Training Certifications (40-Hour Hazwoper with the required Environmental Professional Oversight)
- Compatibility of Waste Streams Shipping
- Large, Small, Very Small Generator, or Exempt Classification
- Environmental Consulting Company for Sampling, Testing, Packaging, Shipping
- Emergency Contact Number for Manifest-ChemTrec

Backhaul Alaska

*Building a Self-Sustaining Waste Removal
Program for Rural Alaska*



Questions & Further Information



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