

NORTHWEST VERMONT SOLID WASTE MANAGEMENT DISTRICT

GEORGIA, VERMONT

SOLID WASTE FACILITY AND OPERATIONS
[HHW/RCRA WASTE]

MAY 26, 2015

HHW FACILITY [PROGRAM] OBJECTIVES

- OPERATIONAL SAFETY
- EMPLOYEE TRAINING
- ENVIRONMENTAL PROTECTION
- REGULATORY REQUIREMENTS
 - ☐ USEPA AND VT HHW/RCRA COMPLIANCE
 - ☐ OSHA COMPLIANCE
 - ☐ DOT COMPLIANCE
- FACILITY SECURITY
- CUSTOMER SERVICE AND SATISFACTION

INTEGRATION OF HHW PROGRAM NEEDS INTO A MULTIPLE-USE FACILITY

- TRANSFER STATION RECEIVING MULTIPLE WASTE STREAMS
 - PROCESSING/STORAGE [RECYCLABLES]
 - ELECTRONICS
 - MUNICIPAL TRASH
- GENERAL SHIPPING / RECEIVING BAY
- CUSTOMER DROP-OFF ACTIVITIES
- HHW MATERIALS
 - ☐ TOTAL PROGRAM FOOTPRINT: @ 1700 FT²
 - ☐ STEWARDSHIP PAINT PROGRAM
 - ☐ STEWARDSHIP BATTERY PROGRAM



FRONT VIEW [west] – OFFICE/WAREHOUSE FACILITY

8,600 FT² WAREHOUSE/PROCESSING FACILITY

**CONCERNS: DIRECTIONAL TRAFFIC FLOW; CUSTOMER AND EMPLOYEE
SAFETY; DAILY OPERATIONS AND CUSTOMER SERVICE**



FRONT GATE AT FACILITY ENTRANCE

CONCERNS: TWO-WAY TRAFFIC; CUSTOMER APPROACH TO REAR
FACILITY ENTRANCE



WESTERN EXTERIOR STORAGE

EXTERIOR STORAGE; REFRIGERANT CONTAINING UNITS; KITCHEN
MICROWAVES; GAS/OIL POWERED UNITS



WEST WAREHOUSE ENTRANCE

A MULTIPLE-USE FACILITY

RECYCLABLE MATERIALS; TRASH; RECEIVING/PROCESSING/STORAGE;
LOADING BAY; CUSTOMER DROP-OFF; HHW MATERIALS
RECEIVING/STORAGE

INTERIOR HHW WORK SPACE

1. REQUIRES FLEXIBLE FLOOR SPACE UTILIZATION
2. MAKE FREQUENT WASTE SHIPMENTS [WEEKLY FOR PAINT]
3. CREATE USEFUL STORAGE SPACE
4. MAINTAIN LOADING BAY ACCESS
5. USE MOVABLE EQUIPMENT
 - FOLDING TABLES
 - ROLLING TABLE
6. **WHAT WASTE STREAMS WILL YOU COLLECT?**
7. **IDENTIFY YOUR PROGRAM SPACE REQUIREMENTS BEFORE PROGRAM CREATION!**



INTERIOR HHW SPACE @ 800 FT² [30' X 27']

**FOLDING TABLE; ROLLING TABLE; GREEN BOX FOR MOBILE HHW EVENT
SUPPLIES; LOADING BAY IN CENTER OF SPACE**



3 PAINT BOXES READY TO SHIP

**CONCERNS: COMBUSTIBLE PAINTS ON THE FLOOR IN VICINITY OF
OTHER COMBUSTIBLE MATERIALS**

ADDED [4] BC FIRE EXTINGUISHERS TO HHW AREA



RACK STORAGE/SHELVING

CONCERN: SKID STEER LIMITED TO SERVING EXISTING HEIGHT OF SECOND SHELF



THE FLEXIBLE CORNER

**CONTAINMENT PALLET FOR WINTER STORAGE OF HHW PESTICIDES;
DETERGENT AND SOAPS DRUM**

EXTERIOR HHW WORKSPACE

1. EVALUATE NEED FOR WINTER ACCESS AND SNOW REMOVAL
2. WILL THE SPACE REQUIRE HEAT?
3. EVALUATE CUSTOMER APPROACH [INGRESS AND EGRESS] TO THE HHW FACILITY
4. EVALUATE FACILITY SECURITY NEEDS
5. IDENTIFY PROPER MATERIAL SEGREGATION NEEDS
6. ANTICIPATE NEED FOR GROWTH AND ADDITIONAL SPACE
7. EXPLORE REGIONAL SOLUTIONS TO PERMANENT FACILITIES
8. STORAGE SPACE FOR PROGRAM SUPPLIES



HHW CONEX STORAGE UNIT [@300 FT²]

12 HHW WASTE STREAMS:

**WET ACID BATTERIES; PRIMARY BATTERIES; UNIVERSAL WASTE [Hg] LAMPS;
MERCURY CONTAINING ITEMS; PCB CAPACITORS; PCB BALLASTS; NON-PCB
CAPACITORS; NON-PCB BALLASTS; LEAD [Pb] METAL; AMERICIUM 241 SMOKE
DETECTORS; OBSOLETE FIRE EXTINGUISHERS**



THE HAZARDOUS WASTE CAGE

2 PORTABLE CONTAINMENT UNITS [110 FT² EACH]



CEG RCRA CONTAINERS

FLAMMABLE LIQUIDS AND CEG RCRA WASTES



FLAMMABLE LIQUIDS FOR BULKING

- THINNERS; SOLVENTS; GASOLINE
- GROUND CABLE TO FLAM LIQUIDS DRUM
- CONTAINMENT UNITS ARE TIED INTO SUBSURFACE GROUNDING CABLES



USED OIL AREA

USED OIL; GREASE AND RAGS; USED ANTIFREEZE



AEROSOL CONTAINER STORAGE

- COLLECTED FROM NOVEMBER 2014 TO PRESENT
- PREPARE AN SOP FOR OPERATION OF PUNCTURE UNIT
- WASTE PROFILE WITH VENDOR



FACILITY FABRICATED SHELVING IN CONTAINMENT

CONCERNS: WHAT IS THE LOAD RATING WHEN YOU MAKE IT YOURSELF?



CONTAINMENT TRACK IN CONTAINMENT UNIT

PROBLEM: WINTER USE OF UNIT REQUIRED REGULAR REMOVAL OF SNOW AND ICE FROM TRACK AND AREA WITHIN THE CAGE



EYE WASH STATION

**WHAT WILL YOUR FACILITY REQUIRE FOR YEAR ROUND OPERATIONS?
PROTECTION FROM FREEZING? RUNNING WATER?
EMERGENCY SHOWER FACILITY?**



FACILITY SCALE

USED TO WEIGH PAINT BOXES; DRUMMED WASTE CONTAINERS



SKID STEER

- **MULTIPLE USES AT FACILITY**
- **MOVES PAINT BOXES; PALLETIZED DRUMS; PALLETIZED LAMPS**
- **CONCERNS: DIESEL EXHAUST INSIDE THE WAREHOUSE**



THE “ROCKET”

AKA – PORT-A-JOHN

- INCLUDE THE LIQUID CHEMICAL DEODORIZER IN YOUR CHEMICAL INVENTORY