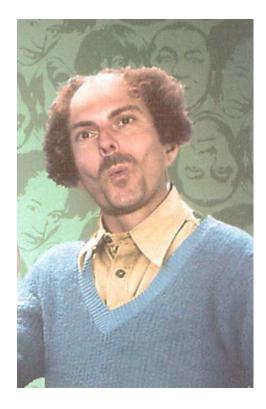
Florida Department of Environmental Protection Office of Communications

# Keys to the Inspection Process An Intro to the Florida Keys and Generator Classifications May 15, 2013





#### **Webinar Overview**



Presented by Ed Russell, SD Marathon Branch



- To provide a "Basic" Training for Newer inspectors during our transition and reorganization to "multi-sector" inspectors.
- (Quick) Overview of the inspection process.
- Needed a catchy phrase: Keys to the Inspection Process, focused namely the Florida "Keys"!
- Provide examples that are not just Bad a mix.
- Overview of our biggest generator that encompasses all levels of generator classifications.



- The "Keys" Stretch about 112 linear miles
- Cluster of Island Chains Island Hopping
- Industries include (but not limited to):
  - Fishing, Automotive Repair, Retail Stores, Marinas and Boatyards, Dry Cleaners, Hospitals, Military, etc.
  - One of two Large Quantity Generator (LQG) in our District.
  - Treatment, Storage and/or Disposal Facility (TSDF)
  - Post-closure OB/OD (Open Burn / Open Detonation)
  - Probably the Only County without a Wal-Mart



### **An Overview**





- Identify:
  - Identify yourself, ask to speak to owner / operator / manager.
- Explain:
  - Explain the purpose of the inspection, what you'll be looking at, what you'll need to see (records, operations), let them know you'll be taking photos.
- Plan:
  - This is likely the first inspection at the site or the first they have had, so choose your plan or approach. Will it be a announced / coordinated inspection or not?



#### • Plan continued:

- Records or Processes: Which first? Everyone's choice is different. Situations are different.
  - Records may not be readily available your clue may be in your Explanation of your inspection – or they may have told you they "have copies somewhere." Records give you a quick indication of their generator status or classification. It's one clue to how they may be regulated.
  - Processes: Site Review or Walk Through. This will give you an indication of their processes and potential waste streams generated. You have to "determine" what's Hazardous Waste (HW) and what's Solid Waste or Exempted (recycled).



#### • Plan continued:

- Processes continued: Site Review or Walk Through. Try to be orderly in the walk through and control the flow if possible. Otherwise you'll be jumping around the site.
- Understand: It's their business and they may need to be interrupted with calls or customers. Make use of the interruption to observe but unless it's ok with the facility, don't start snooping.



- Watch like at Chameleon: Eyes open and looking ALL around.
- Listen like a Bat: Pay attention to what someone says or tells you and write it down.
- Ask questions
- Take Photos: best memory device.
- Explain problems or make recommendations when you find them.



Above Photos from Wikipedia







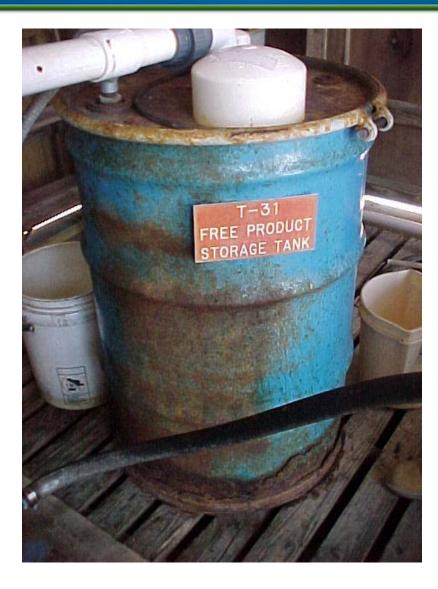






Being aware of your surroundings is important – Eyes open for hazards and other areas of interest. Your looking at operations, procedures, work processes, etc.





Site Operations / Work Processes, etc.

It's not uncommon for people to walk past the same "waste" or unknown items for years.
Tunnel Vision

- •Old Petroleum Clean-up site
- •Free Product? Labeled as such
- •Drum rusted out at bottom
- •Questions?:
  - What happened to the contentsAny discharges obvious
- •Recommendations:
  - •Properly dispose /replace if needed





#### **Tunnel Vision:**

Walking past things routinely until you don't see them anymore.
Rusted tops indicated they've been onsite for some time.







#### The Lone Stranger:

Looks abandoned
Worth investigating
Poor condition
Probably contains waste items





Not Abandoned
Worth investigating
Poor condition
Probably contains waste items



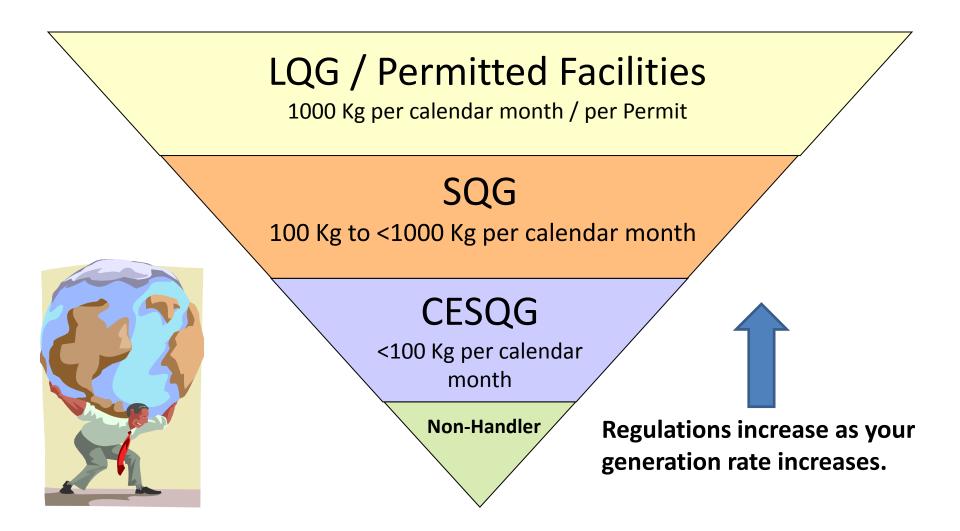
## **Types of Generators**

- Generator Status / Classifications
  - Non-handler (e.g. non-hazardous waste generator.)
  - Conditionally Exempt Small Quantity Generator (CESQG): Generates <100 Kg per calendar month.</li>
  - Small Quantity Generator (SQG): Generates between 100
     Kg and <1000 Kg per calendar month.</li>
  - Large Quantity Generator (LQG): Generates 1000 Kg per calendar month.
  - Permitted Hazardous Waste Facility (TSDF, OB/OD..)

Note: "P-waste" ("acutely *hazardous*") limits apply in determining generator status. Not discussed in this presentation.



#### **Types of Generators**





- "No" HW generated.
- Types of wastes often generated:
  - Used Oil: Recycled, Labeling, containment, ....
  - Used Oil Filters: Recycled.
  - Used antifreeze or used coolant.
  - Batteries: Universal Waste (UW) / Recycled
  - Fluorescent Lamps: Universal Waste.
  - Parts Washers if they are in a continuous use program.
  - Shop rags in a shop rag / uniform cleaning program.



# **CESQG Requirements**

- Perform HW determination.
- Cannot accumulate >1000 kg at any time. ("5 drum limit")
- Ensure delivery of HW to a proper recycling facility or TSDF.
- Keep records documenting proper disposal.





# **SQG Requirements**



- 1. Obtain a DEP/EPA ID Number (NOTIFICATION REQUIRED)
- 2. Use manifest system [unless there is a reclamation agreement, and ship only to a permitted facility.
- 3. Never exceed the 6000 kg accumulation / 180 day storage time limit.
- 4. Emergency Planning: at least one employee or a designee with authority as Emergency Coordinator (EC) on 24-hour call & more...
- 5. **Training** of personnel regarding proper HW handling and emergency response.
- Keep records, including manifests, test results, etc., a minimum of three (3) years.
- 7. If tanks are used for management of HW, meet the tank requirements (daily and weekly inspections, required maintenance, spill response and closure standards.)
- 8. Meet the following LQG requirements (next slide): Items 1, 2, 4, 5, 6, 12 to 15, 17, and 22.
- 9. If a SQG fails to meet applicable requirements, the full generator standards (and possibly TSDF standards) may apply.



# **LQG Requirements**

- 1. Perform HW determination including LDR waste analyses.
- 2. Obtain a DEP/EPA ID number. (NOTIFICATION REQUIRED)
- 3. Use manifest system, and ship to a permitted facility
- 4. Meet pre-transport requirements for packaging, labeling, marking and placarding.
- 5. Meet satellite accumulation rules.
- 6. Label containers and tanks with the words "Hazardous Waste" and label containers with accumulation start dates.
- 7. Do not store HW > 90 days.
- 8. Keep all records for at least three (3) years
- 9. File a biennial report for HW shipped off site.
- 10. File exception report for late or missing manifests from the designated facility.
- 11. Meet personnel training requirements, including documentation of training.
- 12. Maintain and operate the facility in a clean, safe manner.
- 13. Provide emergency.
- 14. Maintain adequate aisle space for evacuation, **inspecting drums**, etc., e.g., no less than three (3) feet.





# LQG Requirements Cont'd

- 15. Attempt to make arrangements with authorities
- 16. Have a **contingency plan**.
- 17. Containers (e.g. drums, cans, etc.) must be kept closed and in good condition, inspected at least weekly, be compatible with the HW stored, and separated from other incompatible wastes. **Records must be kept of these inspections.**
- 18. Ignitable or reactive HW must be stored at least fifty (50) feet from the facility's boundary line.
- 19. Tanks must meet specific requirements (structural integrity; containment and detection of releases; inspections; response leaks or spills; operating requirements; closure and post-closure care; special requirements for the waste stored, etc.
- 20. Special cautions (including "no smoking" signs) are required for ignitable or reactive wastes.
- 21. Security (e.g. a locked fence) and bermed containment areas (with roof and impermeable floor) for HW storage areas are strongly recommended.
- 22. A Land Disposal Restrictions (LDR) Certification or Notification must accompany the initial manifest for a restricted waste. Generators who treat waste to meet land disposal restrictions must submit a waste analysis plan to DEP.
- 23. Meet applicable air emission standards.



#### The following are some general examples of Generator Sites related to one entity over several non-contiguous properties showing the different Generator Classifications and their operations / storage areas.



# NAS Key West





- No HW generated\*
- May Generate (examples):
  - Used Oil: Recycled, Labeling, containment, ....
  - Used Oil Filters: Recycled
  - Used gasoline: Recycled
  - Batteries: Universal Waste (UW) / Recycled
  - Fluorescent Lamps: Universal Waste.
  - \*Parts Washers waste if they are in a continuous use program



- What do we look at / for:
  - Disposal method
    - Manifest or receipts
    - Core exchanges (e.g. batteries)
    - Evidence of recycling such as "manifest", receipts for used oil, used oil filters, contract for parts washers recycling, etc.
  - Labeling as required
  - Containment as required
  - Management:
    - condition of drums
    - open/closed
    - good housekeeping





**POL Site** – Petroleum, Oil and **Lubricant Storage** •Used oil related storage •Oily rag (Nonhazardous waste) storage •Pluses: Well managed, containment •Minus: decline in their level of management







- Hazardous Waste is generated:
  - Small monthly volumes (up to 100 kg/ calendar month)
  - Paint related waste
  - Aerosol residue waste
  - Solvent wastes
  - Shop rags
- Other waste which may be generated:
  - Any Non-Handler waste streams / types
  - Used Oil, Used Oil Filters, Batteries, Used Antifreeze, Used Fluorescent Lamps, etc...

 open/closed - Volume on site ("5 drum limit")

CESQG

- condition of drums
- Management:
- Containment as required

Disposal method

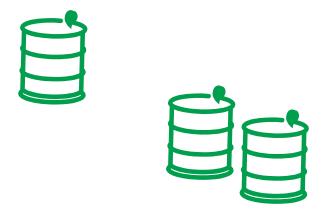
- Manifest or receipts

- Same types of things as a Non-Handler.

What do we look at / for:

Labeling as required











- Poor Fluorescent Bulb (Spent Lamps) Management.
- Should be Managed, to prevent breakage and labeled.

















 $\mathbf{x}\mathbf{x}$ 



#### CESQG



This facility generates waste aerosol residue from puncturing aerosol canisters as well as potential paint waste.

Labeling not required for CESQGs but is Highly recommended.

OUND, CONTACT THE NEAREST POLICE O PUBLIC SAFETY AUTHORITY OR THE U.S. ENVIRONMENTAL PROTECT









This site deals primarily with Non-Handler waste but may generate hazardous waste (Lawn Care operation with possible solvents: i.e. parts washer and other possible solvents.





- HW is generated
  - Higher volumes of waste per month (100-1000 Kg / calendar month)
  - Paint related waste
  - Solvents
  - Cleaners, thinners
  - Chemicals expired lab waste
- Other waste which may be generated:
  - Any Non-Handler waste streams / types
  - Used Oil, Used Oil Filters, Batteries, Used Antifreeze, Used Fluorescent Lamps, etc...





- What do we look at / for:
  - Disposal method / Manifest
  - Labeling as required
  - Containment as required
  - Container Management
  - Volume on site
  - Time limits on storage (180 day limit)
  - Inspection records (the date and time of the inspection, the legibly printed name of the inspector, the number of containers, the condition of the containers, a notation of the observations made, and the date and nature of any repairs or other remedial actions)









### SQG



Paint Related Waste is the primary waste of this facility.



5/15/13







### Does this look like good Management?



Open Containers
Spillage
Labeling
Start Date

•This with other issues was an enforcement item – In-kind and implementation of management procedures







New Paint Booth : In-Kind Project







Lab Chemicals – Require Waste Determination or Verification as Products





- HW is generated
  - Lots of different waste streams
  - Paint related wastes
  - Parts washer solvents, numerous parts washers
  - Waste solvents
  - Sandblasting waste
  - X-ray waste
  - Unknowns
- Other waste which may be generated:
  - Any Non-Handler waste streams / types
  - Used Oil, Used Oil Filters, Batteries, Used Antifreeze, Used Fluorescent Lamps, etc...





- What do we look at / for:
  - Disposal method / Manifest
  - Labeling as required
  - Containment as required
  - Container Management
  - Start Dates (when waste is first placed in)
  - Time limits on storage (90 day limit)
  - Inspection records (the date and time of the inspection, the legibly printed name of the inspector, the number of containers, the condition of the containers, a notation of the observations made, and the date and nature of any repairs or other remedial actions)
  - & more....



### LQG

	CANTACT:	ZARDOUS WAST	DATE	7542				
TEM				SIGNATU	RE	TIME: 09-4	5	
		DESCRIPTION	SAT	UNSAT	-12	-lay		
	SITE CON	CONDITION	~			REMARKS		
1	AREA CE	CURED / LOCKED	V					
4	CONTAIN	MENT WELL	V	1 Contraction				
5	EVEWAS	H/SHOWER	V					
6	SITE FOU	IPMENT INVENTORY	v		RAN	5 MIN		
7	FIRE EVT	INGUISHER				2 CON		
	DRUM CO		-		INSA	T ÉSHN		
	SEGREGA		-			- sne		
-		TION	1					
	LABELS		V					
		PA NUMBER	4					
	DDER / FU		~					
	EAKS / SE		1					
	ONTAINE		~					
		ATION DATE	V					
D	RUM PICI	K-UP DATE	1		80 DAY	DATE: 27A	06-0	35
V	ARNING	SIGNS	1					
C	ONTIGEN	CY PLAN / SIGN	1					
		SITE INVENTO	RY AND	STORA	GE INFO	RMATION		
IM AL	DRUM	DI	ESCRIPTIC	DN	WASTE CODI	ES	START	
	55	PAINTE	SOL	UENT	5	DOD1, FO03		85000
	27	USCO BLAST MEDIA			N.R.	NER. SAF		
	55				0005	and the second se		
	55 WASTE PAINT				DOD1, DOD5 3			
	85 WASTE PAINT				N. F.	N. F.		
*	85	WASTE	PAINT	-		0001		6/23-97
	85	REPATED PAWER, BLO	st Low	x, Pores	STRATA	CATY FOOS, D	035	28 500
	20	(BOOTH) RASS BLUSHES ROLLERS			N,K		295000	
						-		-
	20	(LAG) E	ENERAL	LREMA	RKS			
			RTIA		1.03	-		9 1000
	4'		ETIME		ch5			24FE

# Weekly inspections tell us a lot:

- •Start dates
- •Waste in storage (type and size)
- •What, if any, problems
- •Who , What, When and Where





	HAZARDOUS WAST			PLEC HO	N REPORT
SITEC	TTY: NRL Key West, Bldg. F-1 ONTACT: R. L. Foster	DATE:	ZTUL		
TEM	No. of Concession, Name of Con		Z JUL SIGNATI	IRE:	TIME: 0945
ICM	DESCRIPTION OUTSIDE CONDITION	SAT	UNSAT	-12	-tak
	SITE CONDITION	~			REMARKS
	AREA SECURED / LOCKED	V			
	CONTAINMENT WELL	-			
	EYE WASH / SHOWER	V			
	SITE EQUIPMENT INVENTORY	V	-	RAN	5 MIN
7	FIRE EXTINGUISHER	L	-		
	DRUM COMDITION		-	INSPE	TISHN
9	SEGREGATION	V	-		
0 1	LABELS	V			
I F	PROPER EPA NUMBER	V		-	
2 0	DDER / FUMES	V			
L	EAKS / SPILLS	~			
C	ONTAINER LOG	1			
A	CCUMULATION DATE	V			
	RUM PICK-UP DATE	V		80 DAY	DATE: 27 AUG-05
	ARNING SIGNS	1			~(100-0)
C	ONTIGENCY PLAN / SIGN	1			



### LQG

10	CONTIGE	NCY PLAN / SIGN		
		SITE INVENTORY AND STORAGE INFOR	MATION	
DRUM TOTAL	DRUM SIZE	DESCRIPTION	WASTE CODES	START DATES
1	55	PAINT & SOLVENTS	DO01, FOD 3	850005
1	27	USCO BLAST MEDIA	NiR.	SAPROS
1	55	WASTE PAINT	2005	30 JUN 05
1	55	WASTE PAINT	D001, 10005	30 JON 05
2	85	WASTE PAINT	N. R.	28:30 50005
5.9.4	85	WASTE PAINT	0001	6/23-97/5
1	85	RETATED PANER, BRUSH, LOUCK, PASE SILAY Da	F003, D035 NY F005, 0005	
1	20	(BOOTH) RAGS BLUSHES ROLLERS	N.R.	2950005
	20	(LAG) EMPTI	-	
	~ ~	GENERAL REMARKS		O. MADAC
1	4'	BOX PARTIAL BULBS		9 MAROS 24 FEO 05
1	31	BOX PARTIAL BULKS		ATTE
		NAS FORM 5090/1 (3-92) MODIFIED 8-15-96		







Used Oils, Used Gasoline, Used Antifreeze Storage Area Recycled – Non- Hazardous Waste Storage



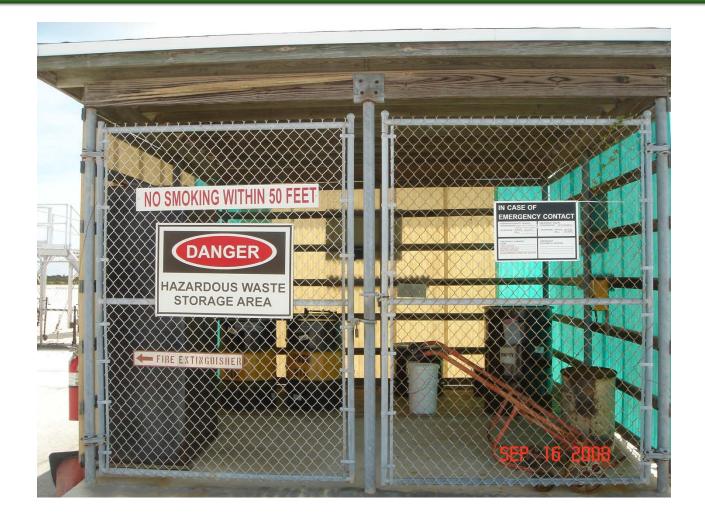




90 Day Storage







Typical Waste Storage Areas





GENERATOR INFORMAT NAVAL HEAVEN 1/grathe chins HAME COmmanding OFFIC ADDRESS NAUAL AIM TTATION CITY Key WEST STATE / BPA 10100 FL0000 445684 WASTE NO. Ace MANFES UN 1247, WASTE METHYL ME THARK STABRIZED, 3 Py TI D.O.T. PROPER SHIPPING NAME AND UN OR NA NO. WITH PREFIX HANDLE WITH CARE!

We look at waste stored at the various work areas and for waste codes (e.g. U162) that are not in the TSDF's permit. This is important since the TSDF is permitted only for specific wastes codes.



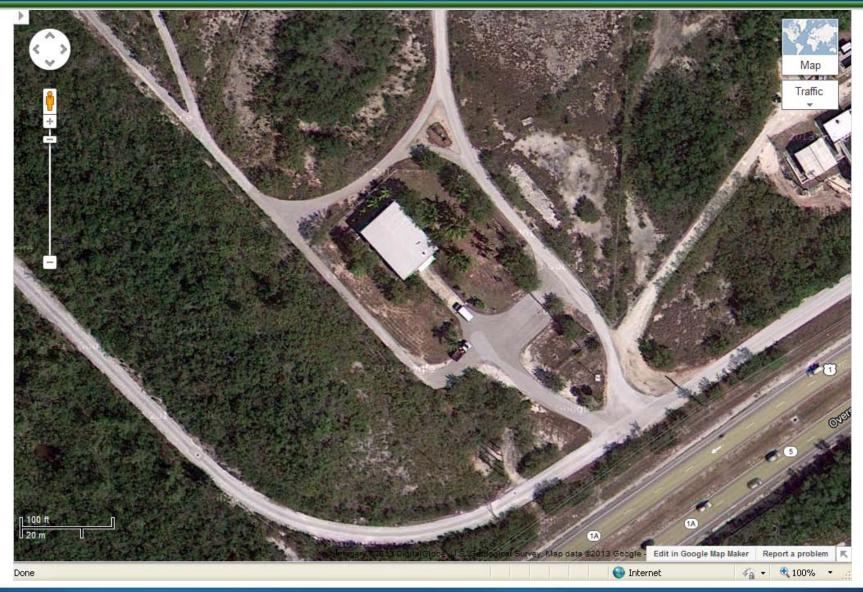




- Problems we've seen with records
  - Inspection reports that are copies and just signed
  - Items appear and disappear from weekly inspection report
  - Items disappear from weekly inspection report and no corresponding shipping manifest or not received at TSDF
  - Waste codes change from HW to non-Hazardous Waste (HW)



### **TSDF**



8/13/2013



- Permitted RCRA Subpart B facility.
- Container Storage Facility
- Receives waste from Navy (DOD) operations and tenant activities and one USAF.
- Storage Facility for up to 1 year.











#### Weekly Bay Inventory

Bay B					<u> </u>	Date:	
ID	EPA Numbers	Location	Composition	Weight	Call In		Disposal
8521	DO35 ( 50 printed at	B61BL4078	Paint Rags and Debris	45	2/24/2012	9/12/2012	
8522	N/R	B61BR4078	PF Solvent Fr PW Freecel Forces	110	3/1/2012	9/12/2012	
8523	D018 🕥 🗧	B61BL4078	Spill Debris C/W Gasoline	25	3/1/2012	9/12/2012	
8525	N/R	B63BL4078	Paint Chips and Debris - Test 31-12 Port ops Gun Tust	55	3/30/2012	9/12/2012	
8530	DO05 NRL	B62BR4078	Seawater C/W Paint (Barium)	490	4/4/2012	9/12/2012	
8531	DO05 NHL 2	B62BL4078	Seawater C/W Paint (Barium)	185	4/4/2012	9/12/2012	
8532	N/R	B62BR4078	N.O.S. Poly & Diisocyanate Specis	180	4/4/2012	9/12/2012	
8533	N/R N/R	B62BL4078	Paint In Original Containers	200	4/4/2012	9/12/2012	
8535	N/R	B61BR4078	Grease in 5 gallon container	95	4/10/2012	9/12/2012	
8536	N/R	B63BR4078	Alkiline batteries	400	4/10/2012	9/12/2012	
8540	D018 5-1 -12 2	B61BR4078	Rags C/W Gasoline From Spill	20	5/1/2012	9/12/2012	
8548	D008	B63BR4078	Antisize C/W PB	10	5/10/2012	9/12/2012	
8549	N/R	B63BL4078	Magnaflux from NDI	240	5/22/2012	9/12/2012	
8550	N/B	B63BR4078	Latex Paint Wash Water	130	5/23/2012	9/12/2012	
8551	N/R NDI	B64BR4078	Devoloper Solution In 5 Gal Containers	169	5/23/2012	9/12/2012	
8552	D011	B64BL4078	Fixer Solution in 5 Gal Containers 5-23-16	189	5/23/2012	9/12/2012	
8561	N/B	B64BR4078	Non reg Paint Wash Water	70	6/11/2012	9/12/2012	
8565	D006.D007	B64BR4078	Paint Chips and Debris Fr FRC-CC PB A-990	130	7/3/2012	9/12/2012	
8566	UW	B151BL4078	Crushed Florescent lights	260	7/11/2012	9/12/2012	
8567	UW	B51BR4078	Alkaline Batteries	250	7/11/2012	9/12/2012	
8568	UW	B51BR4078	Crushed Florescent lights	360	7/12/2012	9/12/2012	
8570	D009,D011 2 146 50	B51BR4078	Filters C/w Amalgram perter N/50 7-17-12	12	7/17/2012	9/12/2012	
8571 (D	D009, D011 350 121-11	B51BL4078	Capcules C/w Amalgram Pentre w11/11-7/12/12	5	7/17/2012	9/12/2012	
8572	N/B	B51BR4078	Asbestos Tiles, Non-Friable	82	7/25/2012	9/12/2012	
Bay B: 24 re			Bay Total:	3712			
Bay C						Date:	
ID Day C	EPA Numbers	Location	Composition	Weight	Call In		Disposa
8546	D002,D007 (4) 3	C72BR4078	Alodine 1201-Chromic Acid	12	5/10/2012	9/12/2012	-
8562	D002,D008	C73BR4078	Cracked Sealed Pb Acid Batteries	27	6/21/2012	9/12/2012	
Bay C: 2 rei		0100111010	Bay Total:	39			
and a second second	colds		2-19-15				
Bay D			2-12-12		0-111	Date:	Diamarra
ID n	EPA Numbers	Location	Composition	Weight	Call In		Disposa
8527 2	D001,D005,D007,D008,D035	D131BR4078	Paint In Original Containers (5 Gal) 3-6-12 / 4-4-12	490	4/4/2012		
8529 2	D001 3-2-12	D131BR4078	Paint in Original containers 44 12	300	4/4/2012	9/12/2012	

#### 1/1/2012 - 7/31/2012

@ FL 41700 25788

Things we look at: •Every container. •Storage time: 1 year or 90 days for non-permitted waste codes. •Waste Codes. •Overall site – any problems needing repairs. •Training •Disposal Manifest (codes and

- volumes)
- •& more....

FL0000445684

@ FL21700 24473 (3) FL6170022952

5/15/13







- •Labels are facing out and easy to read.
- •Good aisle space
- •Good condition





•Every thing on these drums I can trace back to the original generator through the facility's logs, manifests and records. •From the generator, I can trace the wastes from their logs, their manifests to a specific drum(s) at the TSDF. •If there's a gap, it needs an explanation.



### Demo Key - OBOD





### **Post Closure OBOD**



Initial Remediation of site Circa 1999



### **Post Closure OBOD**



Site in 2012



## Things to Note

- This presentation is not your "typical" business operations.
- "Typical" business operations are likely to:
  - Have poor housekeeping (which often leads to poor waste management practices
  - Have poor record keeping and few they can produce
  - Have fewer Staff and less time to spend with you (time=\$\$)
  - Have lesser knowledge on regulations (Explanation / Outreach is important)



### Deltas

### Positives

- CHRIMP (Consolidated Hazardous Material Reutilization Inventory Management Program)
- Reduced Hazardous Materials to 30-day supply
- Wastes reduced considerably over the years
- Checks and Balances
- Great communication and partnership

- Negatives
  - Change in Personnel
  - Decline in the consistency
  - Decline in good paper documentation / records keeping



### Questions

- Please limit questions to the following:
  - Restaurants
  - Sites to visit
  - Rock Fever
  - And similar



 Oops (If I was lucky I ran the time out for questions!)