Well Field Protection Program

Employee Training

CITY OF GRESHAM

Gresham's Drinking Water System

Bull Run Reservoir
Primary source since early 1900s
City of Portland

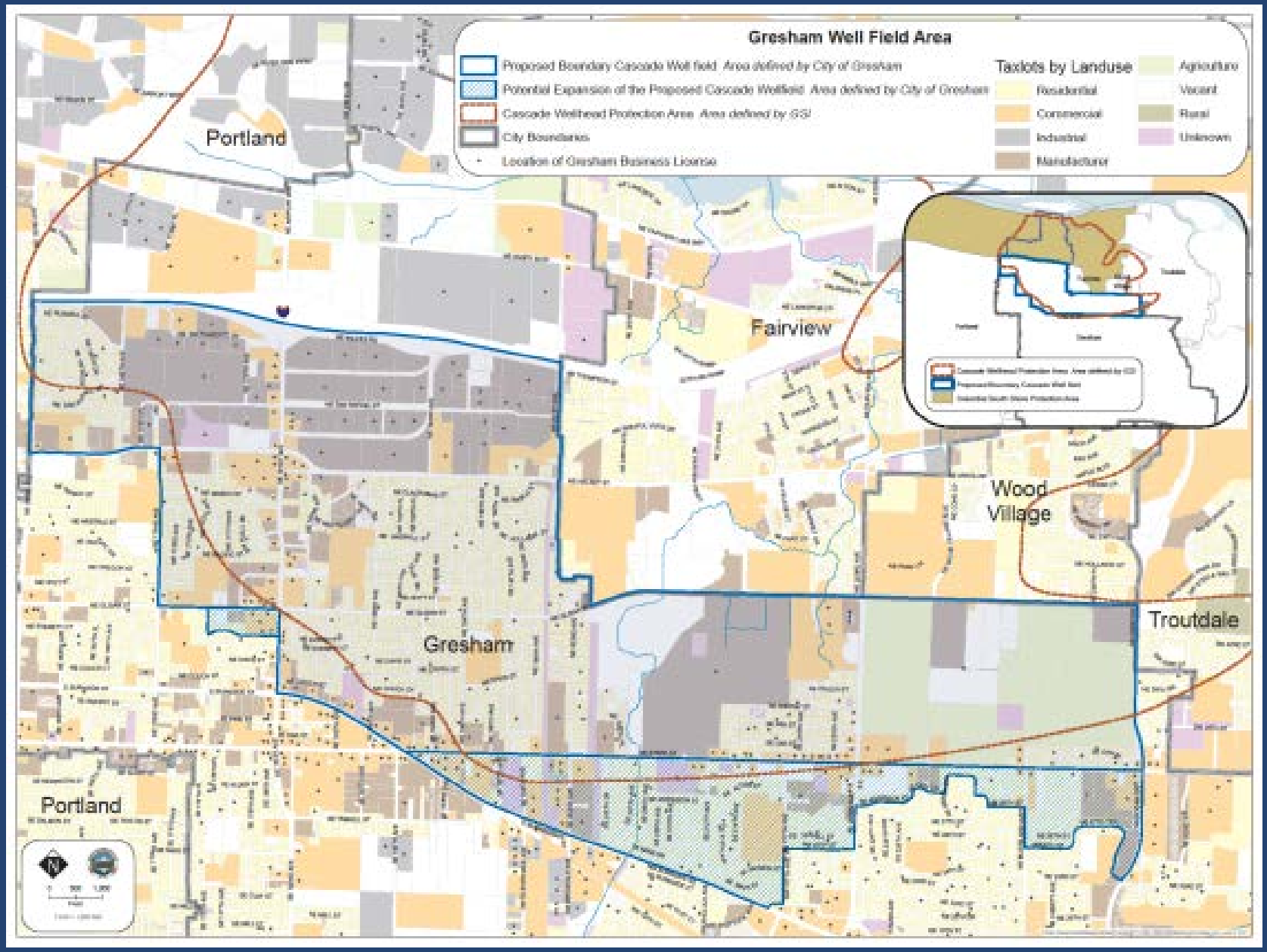
Cascade No. 5 Well House
Supplemental source since 2010
Partnership Between City of Gresham and Rockwood Water People's Utility District

Potential Threats to Groundwater

- Uncontained chemicals
- Spills of industrial or household hazardous waste
- Inappropriate application or disposal of farm, garden or household chemicals

Training Overview

- Business location within the well field protection area
- Location of Materials Safety Data Sheets (MSDS)
- How to read an MSDS
- Who to contact for spill response
- Training for spill control and response personnel
- Review reports and procedures


Gresham Well Field Area
Proposed Boundary Cascade Well field Area defined by City of Gresham
Potential Expansion of the Proposed Cascade Wellfield Area defined by City of Gresham
Cascade Wellhead Protection Area Area defined by GSI
City Boundaries
Location of Gresham Business License
Taxlots by Landuse
Residential
Commercial
Industrial
Manufacturer
Agriculture
Vacant
Rural
Unknown
Portland
Fairview
Wood Village
Troutdale
Gresham
Portland

Material Safety Data Sheet (MSDS)

- Location of MSDS
- How to Read an MSDS

Material Safety Data Sheet
May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

HMIS®

HEALTH	2	REACTIVITY	0
FLAMMABILITY	0	PERSONAL PROTECTION	A

Identity (As Used on Label and List)
30025 Electrotek Non-Flammable Safety Cleaner

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

SECTION I

Manufacturer's Name
ITW Dykem

Address (Number, Street, City, State, and ZIP Code)
805 East Old 56 Highway

Olathe, Kansas 66061

Emergency Telephone Number
1-800-424-9300 CHEMTREC

Telephone Number for Information
1-800-443-9536

Date Prepared
4/23/01

Signature of Preparer (Optional)
Regulatory Dept.

SECTION II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	CAS No.	OSHA PEL	ACGIH-TLV	Other Limits Recommended	%(Opt.)
*1,1-Dichloro-1-fluoroethane	1717-00-6	Not estab.	Not estab.		60 – 100 %
Carbon dioxide	124-38-9	5000 ppm	5000 ppm	STEL 30000 ppm	3 – 7 %
Isopropanol	67-63-1	500 ppm	500 ppm		1 – 5 %

* This product contains 1,1-Dichloro-1-fluoroethane which is listed and may require reporting under SARA Title III Sec. 313 if used over the threshold reporting quantity. This information must be included in all MSDSs that are copied and distributed for this material.

WARNING: Contains 1,1-Dichloro-1-fluoroethane, a substance which harms public health and the environment by destroying ozone in the upper atmosphere.

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

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Contacts for Spill Response (Example)

Position	Name	Phone	Other
Receiving Manager	Jeff Stolts	503-667-2245	Radio Channel 5, Sub-channel 4
Warehouse Operations	Susan Jones	503-667-2247	
VP Environmental Services	Jeremy Chiles	503-667-2228	
External Regulators:			
City of Gresham:	503-618-2626		
OERS:	503-378-2911		

Spill Response Team Training

- Site Map
- Facility Risk Assessment
- Fuel and Hazardous Materials Inventory
- Spill Response Personnel
- Spill Response Procedure

Columbia South Shore Wellfield Protection Program – Fuel and Hazardous Material Inventory

Company Name: _____ Date: ____/____/20___

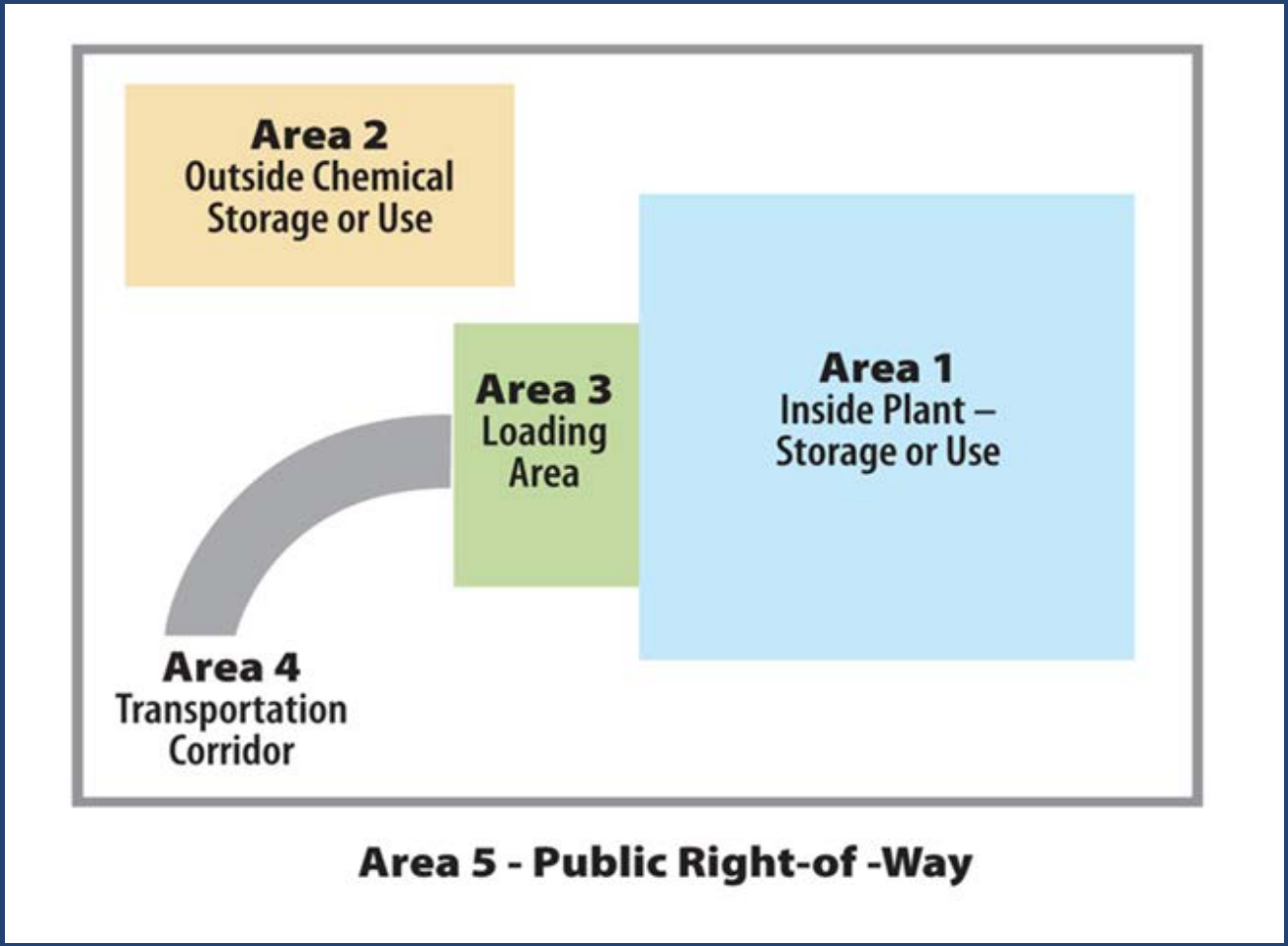
Functional Area(s) [1]	Common or Trade Name [2]	Chemical [3]	CAS No. [4]	Physical State [5]		Hazardous Material Category [6]				
						Halogenated Solvent [a]	Carcinogen [b]	Hazardous Substance [c]	Hazardous Waste [d]	Petroleum Fuel [e]
				S	L	> 10 gal/100 lbs (≥10% by wt)	> 50 gal/400 lbs (≥10% by wt)	> 50 gal/400 lbs (≥10% by wt)	> 30 gal/220 lbs (Any Conc.)	>50 gal in any Single Container
1	Solvent Blend (60/40)	*(Example Only)* Methyl Ethyl Ketone	78-93-3		X			X	X	
2	Antifreeze (New and Used)	*(Example Only)* Ethylene Glycol	107-21-1		X			X		
3	Diesel Fuel	*(Example Only)* Diesel Fuel	68334-30-5		X					X

1. On a facility map, indicate the locations where the hazardous material is stored or handled.
2. **Nonwaste:** Provide the common or trade name of the hazardous material. **Waste:** In lieu of trade names, you may provide the Waste Category.
3. Provide the chemical name(s) of the major constituents that singularly or in the aggregate exceed the concentration threshold(s) identified in Section 1.3.1 of the Reference Manual.
4. Enter the chemical abstract service identification number (CAS number) found in 29 CFR, if known for the constituent of highest concentration. Material Safety Data Sheets (MSDS) can be used as a reference.
5. Enter one of the following codes by using an "X" as it applies to the hazardous material's physical state: S = Solid L = Liquid
6. Per the definition of hazardous material in Section 1.3.1 in the Reference Manual, the hazardous material in this report is subject to WHPP regulation based one or more if applicable, of the chemical categories in (a)-(e). Select with an "X" which category(s) applies to the hazardous material. More than one category may apply.

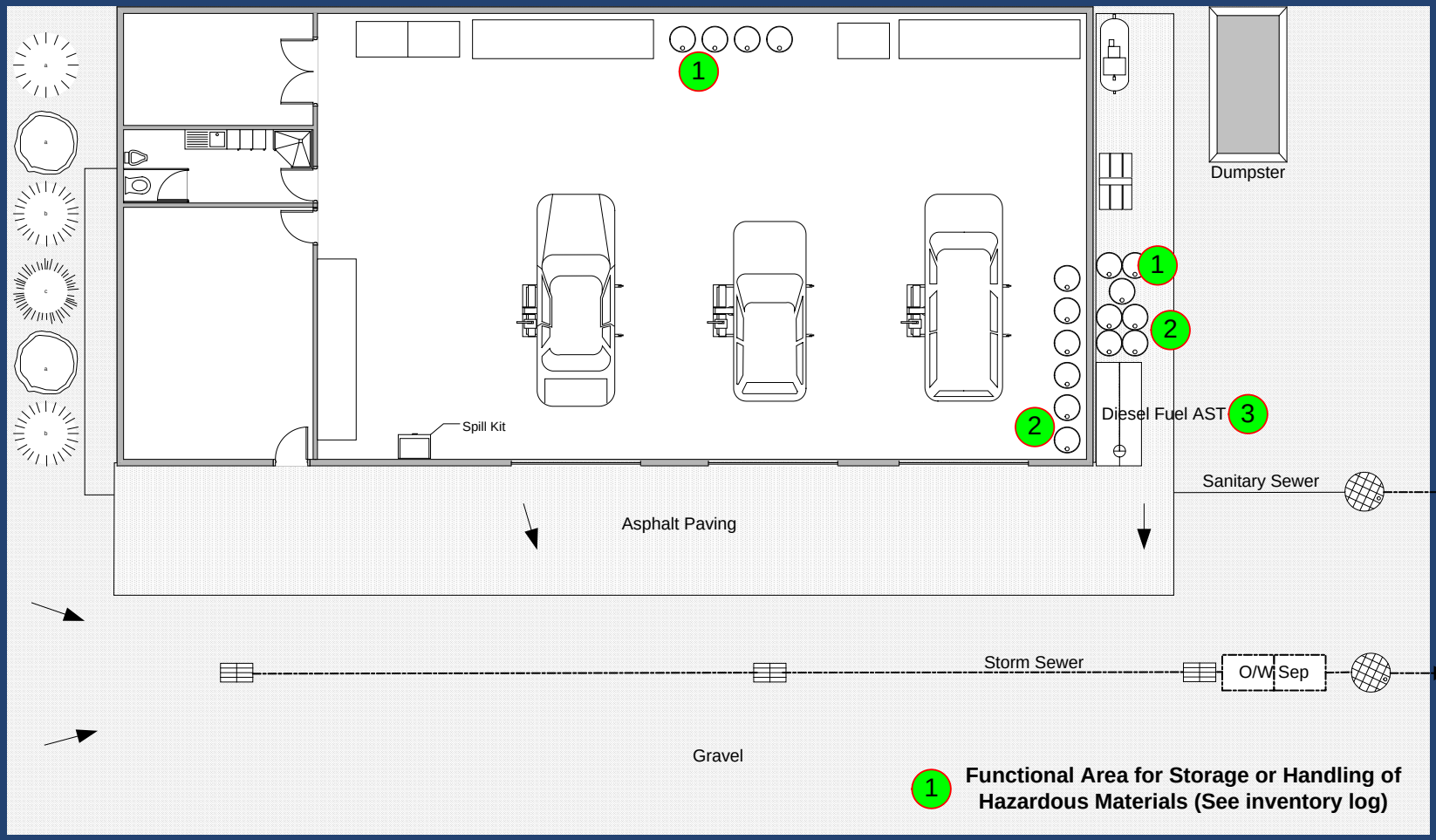
Facility Report Review

- Location & Functional Areas for Hazardous Materials
- On-site Hazardous Materials Routes
- Locations of Storm Drains and Drainage Areas
- Locations of Dry Wells Or Sumps
- Location and Description of Spill Control Devices
- Location of Emergency Spill Containment Equipment

Functional Areas



Example of Site Map



Site Risk Assessment

- Low, moderate or high
- Varies by chemical and quantity
- Storage method
- Transportation
- Intra-site and on/off-site
- Points of likely spillage

Spill Response Procedure

1. Contact facility spill response personnel
2. Contain, stop and clean-up spill (personnel safety comes first!)
3. Contact external regulators if:
   - ✓Spill reaches soil or stormwater system
   - ✓Exceeds 43 gallons
   - ✓Exceeds other EPA/DEQ reporting levels (pesticides, chlorinates, solvents)

A drop of prevention is worth a gallon of cure

Clay Walker
Well Field Protection Program Inspector
503-618-2487
Clay.Walker@greshamoregon.gov

CITY OF GRESHAM