

# **Case Study: Ragged Mountain Spill Prevention Compliance**

**Presented By:**

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**RAGGED MOUNTAIN**





# Mountain Operations: Early Days

- Both golf and ski operations
- Approximately 8 full time and numerous seasonal staff
- 5 lifts, 2 groomers, and over 25 pieces of maintenance equipment



- Numerous fuel storage areas
- No secondary containment
- No staff training
- Few staff resources dedicated to environmental compliance





# Where Do We Begin?

- Combined phase I/II Environmental Assessment completed by new owners
- Many areas of “bad housekeeping” including drums, tanks, etc.
- Several areas with potentially reportable fuel / oil spills noted





# Immediately Reportable Conditions

- A spill of oil (diesel, gas, lube oil, etc.) of more than 25 gallons.
- If the spill is less than or equal to 25 gallons it must be cleaned up right away or it is reportable.
- Any spill that reaches groundwater or surface water is reportable.
- In short, if you have a small spill clean it up right away. If you have a big spill call NHDES and a spill contractor right away.





# What's Hiding Out There?





# The Dreaded Phone Call





RAGGED MOUNTAIN

# Dealing With It

- Approximately 30 drums of miscellaneous waste removed from site
- Excavated ~ 200 tons of contaminated soil
- Significant hit to annual operating budget



Type of Submittal (check one)	Petroleum Reimbursement Form (check one)
<input type="checkbox"/> Workscope / Budget	<input checked="" type="checkbox"/> Initial Response Action
<input checked="" type="checkbox"/> Technical Report	<input type="checkbox"/> Free Product Removal
<input type="checkbox"/> Reimbursement Request	<input type="checkbox"/> Initial Site Characterization
<input type="checkbox"/> Monitoring Result (Pre-permit)	<input type="checkbox"/> Site Investigation
<input type="checkbox"/> Monitoring Result (Post-permit)	<input type="checkbox"/> Remedial Action Plan

**INITIAL RESPONSE ACTION REPORT**

Ragged Mountain Resort  
620 Ragged Mountain Road  
Danbury, New Hampshire 03230  
NHDES Site# 200012021

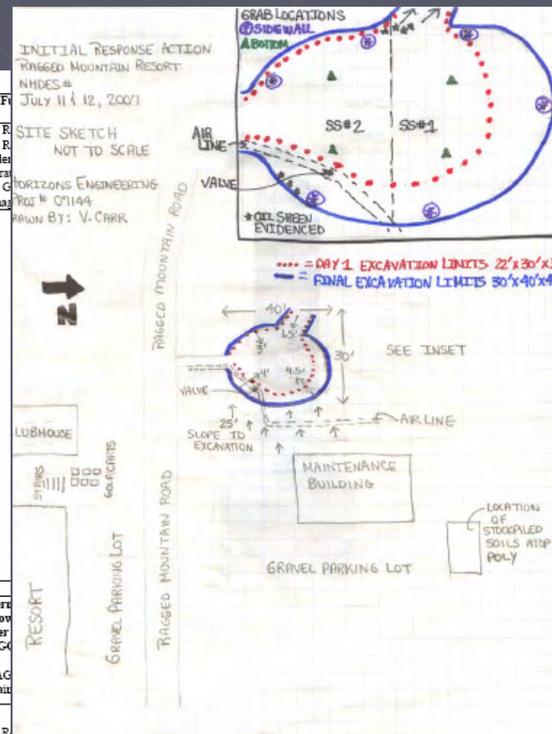
Prepared For:  
RM Resort Management, LLC  
Post Office Box 320370  
Salt Lake City, UT 84152  
(435) 645-7300  
Contact: Mr. Gerry Jackson

Prepared By:  
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Littleton, NH 03561  
(603) 444-4111  
Contact: Valerie Carr

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Horizons Engineering, P.L.L.C. File No. 07144

Recommended Risk Category (Check One)		
<input type="checkbox"/> 1. Immediate Human Health Risk (Impacted Water well, etc.)	<input type="checkbox"/> 4. Surface Water Impact (Actual Impact to Class B or Potential Impact to Class B)	<input checked="" type="checkbox"/> 7. Alter Available/Low Groundwater (<1,000 x AGQ)
<input type="checkbox"/> 2. Potential Human Health Risk (Residential Well Within 1000' or Site within Source Water Protection Area)	<input type="checkbox"/> 5. No Alternate Water Available/No Existing Wells in Area	<input type="checkbox"/> 8. No AG Source Remain
<input type="checkbox"/> 3. Free Product or Source Hazard	<input type="checkbox"/> Alternate Water Available/High Level Groundwater Contamination (>1,000 x AGQS)	<input type="checkbox"/> Closure R





# Then and Now





# An Ongoing Commitment

- You paid good money for a Spill Plan, so you might as well use it.
- Training is important; old habits die hard.
- The regulators are a partner, not an enemy.



**Site Inspection Form**  
For  
**Ragged Mountain Resort Facility**

Date of today's inspection \_\_\_/\_\_\_/\_\_\_ | Observer: \_\_\_\_\_  
 Name \_\_\_\_\_ | Observer: \_\_\_\_\_  
 Date of last inspection \_\_\_/\_\_\_/\_\_\_ |  
 Title/Qual. \_\_\_\_\_  
 Today's Weather \_\_\_\_\_

LOCATION:	Site #1 UNITank	Site #2 Tank Associated with Building Heating
<b>REQUIREMENT</b>		
Is integrity of tank shell		
Inspection of Pipe Support, Pipe c, and Valve c.		
In open drainage tank to: valve c, support, and Bundara c.		
In open drainage tank level gauge/and alarm c, and Mechanical function c, regulator c.		
In open containment area c and beam c.		
Record all rainwater drainage from above containment area c.		
Record the date and time of each rainwater drainage, have the employee or manager who performed drainage sign the record.		
Keep rainwater free of all debris.		





# Parting Thoughts on Compliance

- Don't be afraid to ask for help
- Being frugal is important but there are plenty of other opportunities besides spill compliance



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Ragged Mountain

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