
Revegetation of 903 Pad and Lip Areas at Rocky Flats

Rocky Flats Stewardship Council Meeting
September 10, 2012

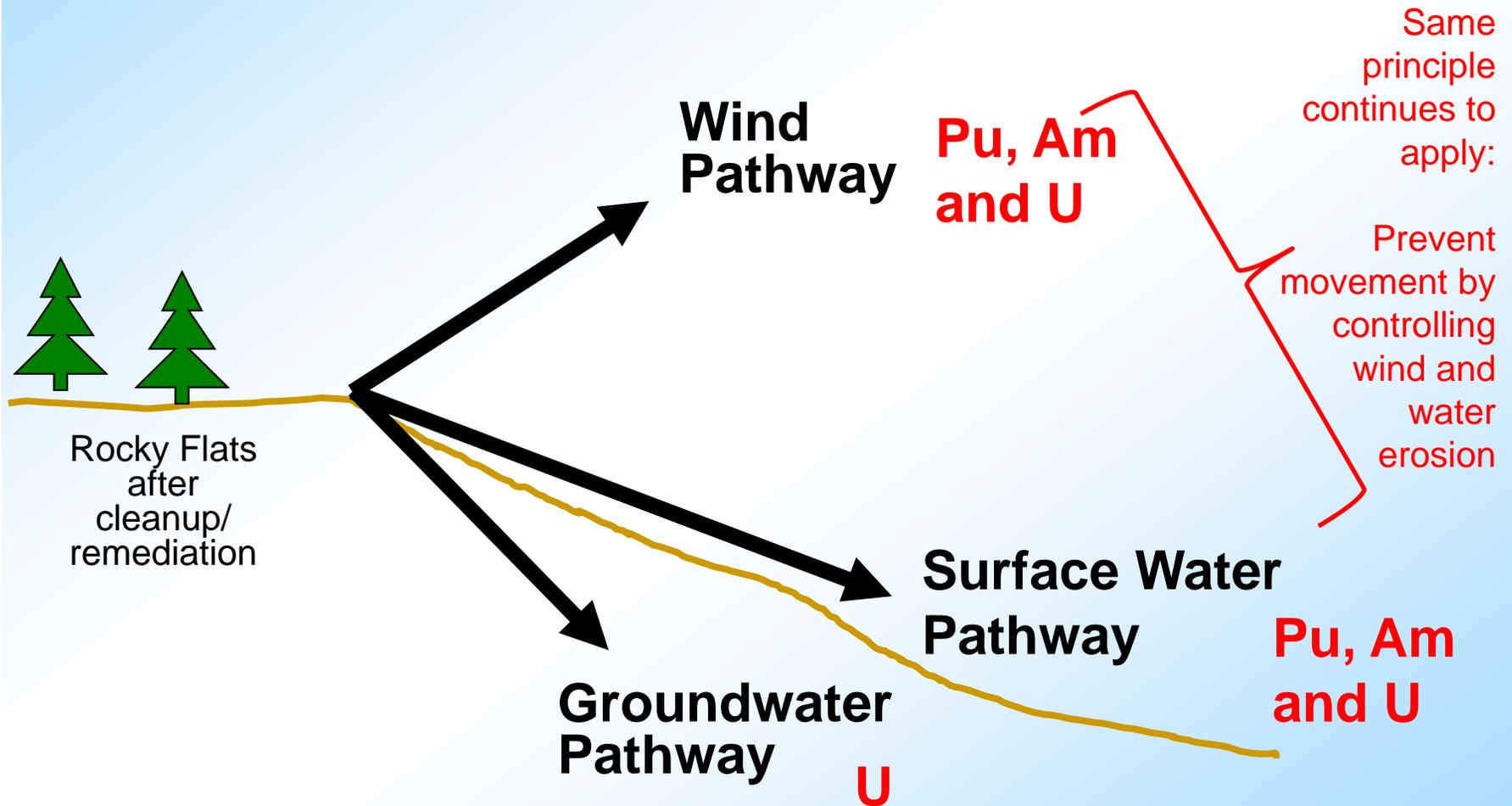


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Conclusion

Conceptual Model – Primary Pathways at Rocky Flats



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Application of Findings

Example: Remediation of Soil Contamination at 903 Pad

■ 903 Pad

- “Tents” used to enclose excavation areas
- Removed 32,000 tons of soil
 - 900 grams of Pu
 - Clean fill added on top
- Air, water quality – continually compliant
- Completed December 2003

■ 903 Lip Area (area east of 903 Pad)

- Remove soil > 50 pCi/g
- Approximately 34 acres
- Stringent dust and erosion controls
- Completed September 2004



903 Pad – Weather Enclosures



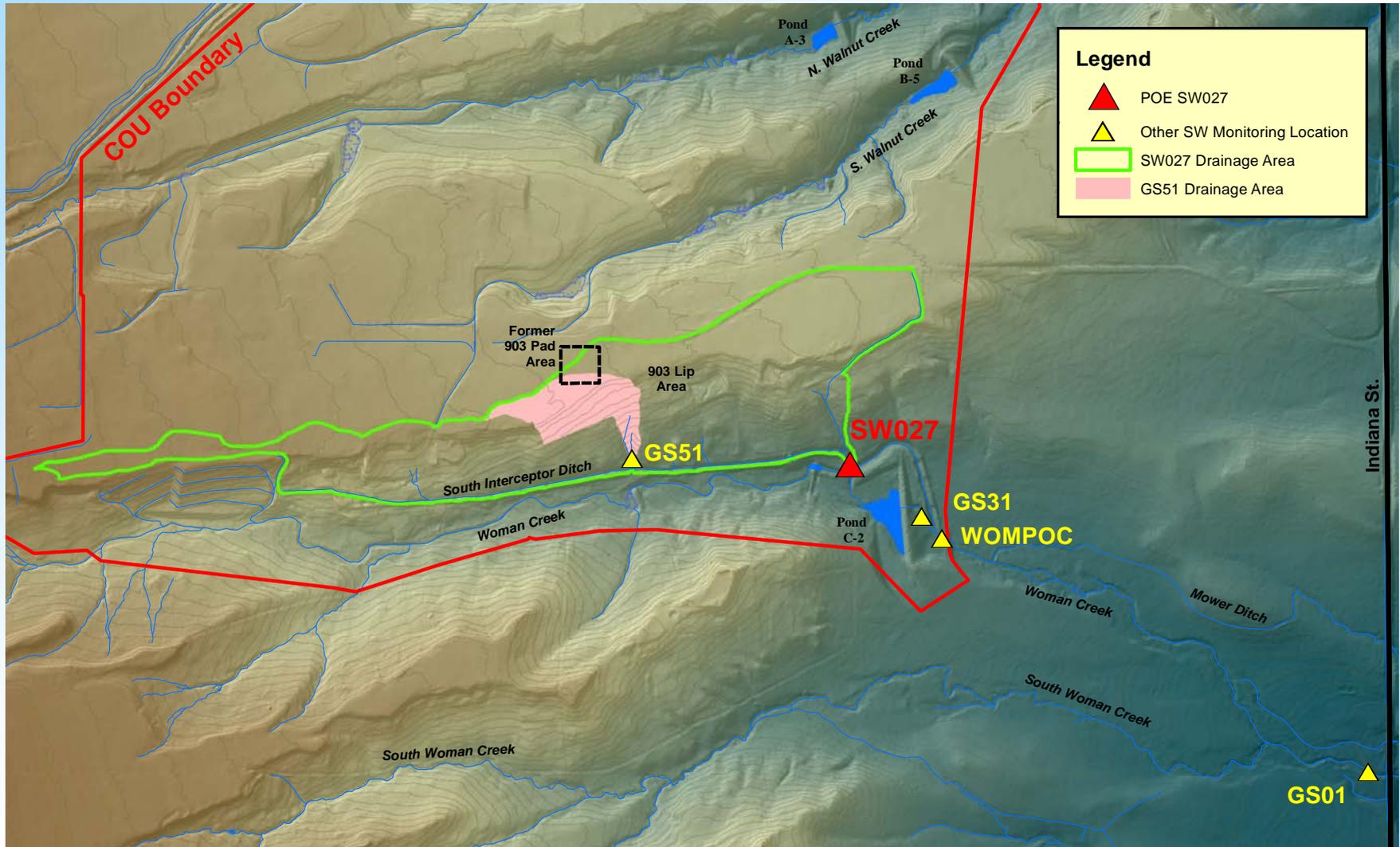
Lip Area – Erosion “Blankets”



903 Pad and Lip Area Revegetation

- Goal = establish good stand of native vegetation
- Seed mixes
 - Based on dominant native prairie species
 - No exotic, non-native species used
 - Different mixes for different slope positions, moisture regimes, etc.
 - Seeding conducted by broadcasting; erosion blanket placed to protect soil while vegetation established
- Revegetation monitoring
 - U.S. Department of Energy success criteria
 - U.S. Environmental Protection Agency developed success criteria
 - 903 pad and lip areas have met both success criteria

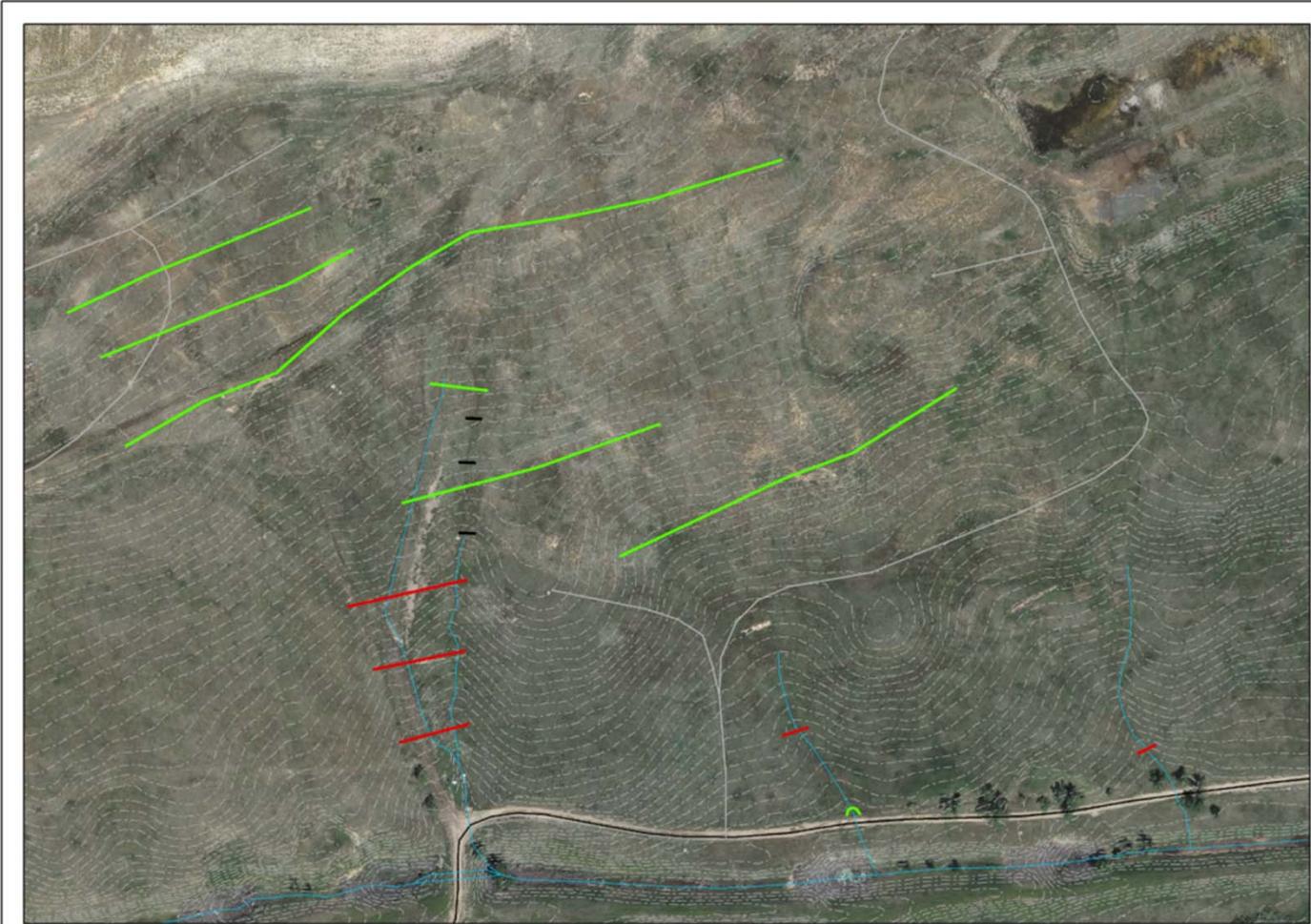




SW027 Hillside Activities

- The 12-month rolling average for plutonium-239/240 at SW027 initially exceeded the RFLMA surface water standard on April 30, 2010
- The vegetation and erosion controls on the hillside and South Interceptor Ditch (SID) were evaluated
- Interseeding of selected locations with lower foliar vegetation cover was conducted on hillside on June 23, 2010
- Additional erosion controls (Filtrex Siltsoxx wattles – filled with wood chips, compost, and seed) were installed on hillside in December 2010
- Sparsely vegetated areas within the SID were reseeded and had erosion mat placed in December 2010



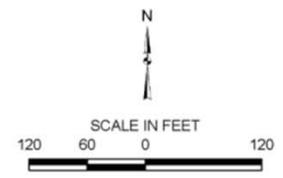


903 Lip Erosion Control Plan

Legend

- Contours (2 foot)
- Stream, ditch, or other drainage feature
- Lake or pond
- Roads**
- Open
- ATV Only
- Truck By Permission
- WattleType**
- 20 inch wattles
- 9 inch wattles
- GeoRidge

Wattle Lengths (approx.)
 9 inch = 2150 feet
 20 inch = 355 feet



U.S. DEPARTMENT OF ENERGY GRAND JUNCTION, COLORADO	Work Performed by S.M. Stoller Corporation Under DOE Contract No. DE-AC01-07LM00000
	DATE PREPARED: August 25, 2010
PROJECT NUMBER: S0698300	

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2004



903 Lip Area Revegetation

**Additional soil placed on
903 pad and area east
of pad in 2007**



2011



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903 Lip Area Revegetation



2004



2011



903 Lip Area Revegetation

Winter 2010–2011



Summer 2011



Filtrex Siltsoxx wattles placed on hillside



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Summer 2010



Winter 2010–11



Summer 2011



SID Erosion Controls and Revegetation



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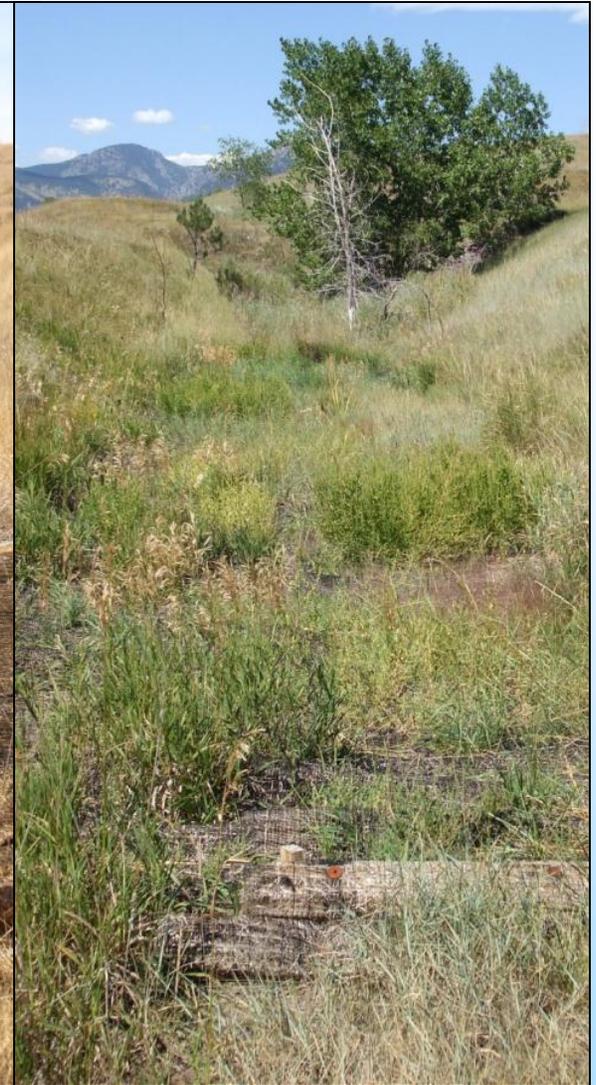
Summer 2010



Winter 2010–2011



Summer 2011



SID Erosion Controls and Revegetation



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CY 2011 Status Report of Action Taken in Point of Evaluation SW027 Drainage – January 2012

- Increased vegetation cover on hillside
- Filtrex Siltsoxx wattles in place and holding up. Vegetation grown up around wattles and coming up through wattles.
- SID vegetation increasing and erosion mats holding up in place
- Vegetation-related recommendations
 - Include SW027 drainage area in 2012 annual inspection and revegetation surveys. Continue interseeding as appropriate.



Questions?

