



S.L. Gimbel Foundation Fund Grant Evaluation Form

Grant Period: October 1, 2012 through September 30, 2013	Evaluation Due Date: September 15, 2013
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Organization: **United Mountain Defense**

Contact Name: **James Kane** Title: **President**

Phone Number: **615-219-9041** Grant Period: **Oct. 1, 2012 – Sept. 30, 2013**

Award Amount: **\$25,000** Grant Number: **2012766**

- Describe the project's key outcomes and results based on your goals and objectives. Provide the number of clients served and other relevant statistics.
- What were the challenges and obstacles you encountered (if any) in attaining your goals & objectives? How did you overcome and/or address the challenges and obstacles? What were the lessons learned?
- Describe any unintended positive outcomes as a result of the efforts supported by this grant.
- Describe the overall effect this grant has had on your organization.
- Tell us a few success stories that made an impact on your organization and/or community as a result of this grant.
- Provide a financial report on the use of your grant funds (expenditures).
- Additional condition: Please report on the following:
N/A
- ❖ Please send copies of publicity and other promotional materials.
- ❖ All variances or time extensions must be approved by The Community Foundation's Grant Committee. Please contact us at 951-684-4194, ext. 111 immediately if a variance or extension becomes necessary.

Please return the completed form to:

Penny Beaulieu, Manager, Grant Programs
The Community Foundation
3700 Sixth St., Suite 200, Riverside, CA 92501 or fax to 951-684-1911
Or email to: pbeaulieu@thecommunityfoundation.net

**United Mountain Defense
Grant Evaluation Report**

The Community Foundation S.L. Gimbel Foundation

Grant Number 2012766

Grant Period

10/1/12 to 9/30/13

Submitted

September 9, 2013

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Executive Summary for the S.L. Gimbel Foundation

From October 2012 to September 2013, United Mountain Defense has made use of its Community Foundation grant to expand water testing and environmental literacy throughout 10 counties of Appalachian East Tennessee. In our first year of funding, our efforts have included 16 field excursions yielding 128 water samples taken from indicator streams and watersheds in or near coal industry surface mining zones, analyzed to support initial findings of 142 permit violations (lab results pending). Our all-volunteer, citizen-led field research has documented 35 instances of toxic metals contamination and 19 instances of unacceptably high conductivity in delicate watershed ecosystems.

The grant funds have allowed us to form consistent partnerships with local community groups and residents, enhancing the efficiency of our volunteer water-testing through the use of local knowledge combined with independent scientific techniques. The grant has helped us develop a presence in the community by expanding our fourth-annual regional environmental law conference, the Appalachian Public Interest Environmental Law Conference (APIEL), with specialized training on citizen-led enforcement efforts of environmental laws and regulations. These efforts include regularly attending public hearings and engaging rural residents with easy-to-use online tools for public participation in the permit challenging process.

We have faced challenges in transportation, scheduling, and communication in our all-volunteer field investigations, and have overcome them by obtaining and maintaining all-terrain vehicles, improving online communications, hosting regularly scheduled training events in our target region, and working with local communities to navigate undeveloped terrain more quickly.

In this first year, 51% of funds were used to conduct water tests, 19% was used towards vehicle and equipment needs, 8% for field supplies, 7% for shipping and postage for lab submissions, 14% used towards the 2013 APIEL conference, and the remainder used for passes, permits, and supplies to support legal, permit and office work. United Mountain Defense now looks forward to another year of expanding our citizen enforcement and scientific testing programs by deeper connections to the communities who host our efforts and broader partnerships with national and regional environmental groups.

For the Mountains,

A handwritten signature in dark ink, appearing to read 'James Kane', with a stylized, flowing script.

/s/ James Kane

President, United Mountain Defense

Community Engagement made possible by S.L. Gimbel Foundation

Over the life of the grant period, UMD has conducted the following activities which promote/support the S.L. Gimbel Foundation:

- 23 Events which UMD conducted or was associated with ([Appendix A: Activities](#))
- 4 appearances in local news ([Appendix A: Appearances in Local News](#))
- 1 press release ([Appendix A: Press Releases](#))
- 19 videos ([Appendix A: Videos](#))

Grant Evaluation: Project key outcomes based on objectives

Project Objectives

Objective I

To continue and expand UMD's program of systematic assessment of the water quality and integrity of coal and gas impacted watersheds and to continue to raise public awareness.

Objective I Key Outcomes

Grant resources have allowed UMD volunteers to systematically assess widely dispersed, heavily impacted locations throughout East Tennessee, including Scott, Campbell, Claiborne, Morgan, Anderson, Roane, and Knox Counties. Water quality data for 128 points (as of 9/13/13) have been collected, including temperature, dissolved oxygen (percent and mg/L), conductivity, pH, arsenic, manganese, selenium, aluminum, and sulfate ([Appendix B: Field Activities](#)). Access to rugged, remote locations has been assured by the use of grant funds for fuel and vehicle maintenance.

Data has been used to produce interpretive maps and analysis of impacted spatial distributions and severity. All data, including raw photos, data, testing locations and testing routes has been made publicly available to community groups and the public at large.

Additionally, UMD has trained 42 individuals on the use of field equipment, water testing and sample handling, allowing these individuals to contribute to testing, advocacy and public participation activities.

Objective II

To utilize testing results in administrative and legal actions.

Objective II Key Outcomes

Staff attorneys and Field Director have monitored results and are in the process of taking appropriate actions to enforce permit requirements and EPA standards for sedimentation, heavy metals other water criteria threatening navigable waters as defined by the Clean Water Act. Each of the 118+ violations ([Appendix B: Field Activities](#)) discovered through Grant-funded field activities will be filed on, with legal action following any lack of progress in violation rehabilitation.

Over the Grant period, UMD has secured informal conferences and site visits for five OSM mining permits: 3249, 3143, 3112, 3263 and 3270, NPDES permits TN0079545, TN0079430 and TN0069281, attended a public hearing for OSM Permit 3252, developed a 30+ page all-inclusive comment package for use on all Tennessee coalfield permits, and submitted comments for the OSM Cost Recovery for Permit Processing, Administration, and Enforcement. UMD has and continues to promote and solicit public participation through our website and social media outlets, as well as trying new ways of increasing accessibility to the public through web-based 'comment-O-matic' tools.

Objective III

Systematically inventory results for historical analysis and to provide data to communities.

Objective III Key Outcomes

A complete water quality database is available on our website. Testing location points have been made available in all commonly used formats. Key locations of poor water quality and significant pollution contribution have been documented and marked for reassessment. All UMD map products are available online, with custom map creation made available on demand.

Grant funds have allowed the continuation and progression of geospatial mapping techniques, expanding upon data gathered in prior years. UMD has shared results and procedures, publicized outcomes, and continued documentation and monitoring of sites that continue to show sub-standard results.

Number of clients served

With Grant funds, we have conducted citizen-led scientific water quality monitoring throughout East Tennessee. Our outreach programs include APIEL, the largest environmental law conference in the Eastern United States, and the annual publication of The Mountain Defender, with 25,000 copies in circulation across the Southeast Region. The PACE law office has assisted in pursuing violators and to serve UMD and other grassroots organizations in this region.

Local communities served include 10 counties in East Tennessee, with a total population of 807,722 and a total land area of 9,873,033 square miles ([Appendix C: Population and Area Served by UMD](#)). UMD has provided water testing, organizing, and advocacy services such as calling public hearings and preparing mining permit challenges for citizens and community-based groups in these counties.

On May 18, 2013, UMD began collaborating with the Appalachian Community Enforcement (ACE) project (<http://www.ace-project.org/>) to further promote our water testing data, potentially making this data widely accessible to a wider audience.

Challenges & obstacles in attaining Goals & Objectives

Challenges faced during the grant period included coordinating schedules, training volunteers, volunteer turnover, safety and liability concerns, timing, coordination and targeting of sampling activities in an extremely target-rich environment.

Overcoming & Addressing Challenges

UMD has created a robust framework for dealing with the daily challenges faced by managing and applying grant resources:

- Coordination of volunteer efforts was improved by using online 'poll' based methods, weekly volunteer updates and online communication with active volunteers
- Trainings occurred at times convenient for volunteers, in conjunction with other events, and were offered at regular intervals
- New safety and training procedures were put in place
- Volunteers were briefed with an informed consent procedure on risks of fieldwork, and signed written informed consent agreements

- Volunteer recruitment materials were created, task and position descriptions created, and simple, easy-to-use procedures were instituted
- Responsibilities and tasks have been democratized with formal consensus process procedures and training
- New open-source methods and procedures for identifying, plotting and mapping areas of interest have been identified

Lessons Learned

- Keep things as simple as possible
- Make sure login credentials reside in a permanent location and are accessible at all times; update and change passwords regularly
- Plan for turnover- don't put all your eggs in one basket
- Backup everything and make as much as possible available online; don't silo information
- Partnering with allied organizations expands your reach and gives access to new feedback and ideas
- Experiment with new ways of doing things and don't be afraid to modify what already works
- Keep everything in perspective and don't lose sight of the big picture

Unintended positive outcomes as a result of grant efforts

- Grant activities have opened up new venues for our data and have resulted in several new partnerships with allied groups
- UMD's testing schedule has become more regular, resulting in enhanced volunteer engagement and a resurgence in volunteer interest
- Organizational morale has improved

Overall Effects of Grant on UMD

Due to this grant, UMD is stronger thanks to improved volunteer recruitment and retention, is expanding our organizational partners, is more effectively sharing the information we collect, and is now better equipped, better prepared, more professional, has more consistent messaging, and has more impact than ever before on furthering our organizational mission.

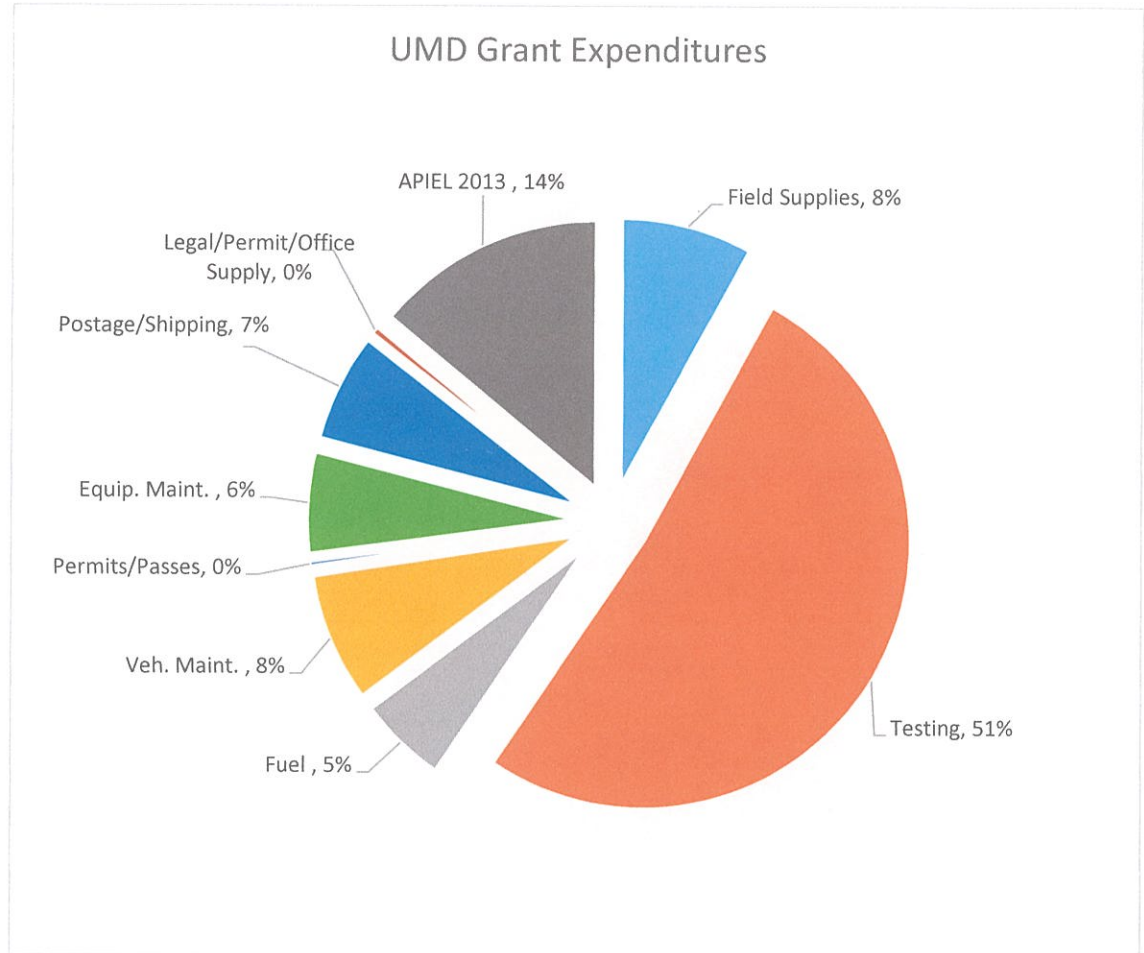
Organizational Success Stories

- Historically, UMD volunteers used their own vehicles, funds and resources to do field work, travel, and sustain themselves. Due to this grant, our volunteers have been able to attend more public hearings, stay in the field for longer hours, and have coffee & snacks on a regular basis!
- Due to expanded vehicle access, UMD volunteers have greatly improved their understanding of the places surrounding our coalfield communities and are more comfortable working in the field. Our familiarity with major streams, topography and community connections have led to us being able to refer to specific mine sites, ridges, and watershed basins; e.g. "Did you see what they're doing at the Sterling & Strays site?", "Could you access Buffalo Mountain from Windrock?", "I met some folks from Sunbright over near Norma."
- Due to expanded testing we are able to regularly inform coalfield residents about the water quality of streams that they are intimately familiar with. In some cases, local residents have been able to confirm that wildlife has declined in impacted locations, or in other cases they have been pleasantly surprised to learn that certain streams appear to be healthy.

Financial Report on use of Grant Funds

All grant funds have been used according to the grant proposal. Approximately 51% was used to fund water tests, 19% was used towards vehicle and equipment needs, 8% for field supplies, 7% for shipping and postage, 14% used towards the 2013 APIEL conference, and the remainder for passes, permits, and supplies to support legal, permit and office work. See [Appendix D](#) for a complete accounting of expenditures by category.

Figure 1: UMD Grant Expenditures by Category



Appendix A

Appearances in local news

- October 29, 2012; aired Nov. 21, 2012: United Mountain Defense Interviewed by Knoxville WATE Channel 6 for a feature on hydraulic fracturing. Available at <http://www.wate.com/story/20115861/gas-well-fracking-continues-to-raise-concerns-in-tennessee>.
- August 22, 2013: United Mountain Defense interviewed for Knoxville Channel 6 WATE 11pm news about TVA contractor being sued for not providing protective gear for workers at the Kingston Ash Disaster site. Available at <http://www.wate.com/story/23231538/workers-sue-company-contracted-to-clean-up-kingston-ash-spill>
- September 6, 2013: United Mountain Defense interviewed on The David Doer Show “A Red Line in the Sand?” on the subject of the Fukushima nuclear disaster. Available at <http://daviddorer.com/the-david-doer-show-a-red-line-in-the-sand/>
- September 14, 2013: United Mountain Defense interviewed for Knoxville Channel 10 WBIR News regarding fracking on UT/public lands. Available at <http://www.wbir.com/story/news/local/downtown-ut/2013/09/14/ut-fracking-project-reaction/2815247/>

Press releases

- April 3, 2013: “Selenium In Water Points to Destruction of Appalachian Streams, Water Quality “

Outreach Activities & Community Events

- Santa Action and Coal Caroling Christmas Extravaganza (December 20, 2012)
- Six presentations on Mountaintop removal to classes at Whites Creek High School (85% of students below the poverty line, majority minority student body) (August 7, 2013)
- Life of the Mind Lecture: Eaarth with Bill McKibben. UMD volunteers collected petition signatures against Fracking in the Cumberland. Represented UMD at a meet and greet with Bill McKibben and got his support for our collaborative anti fracking petition (August 19, 2013)
- Knoxville Sierra Club meeting and discussed UMD projects
- Held an Environmental Law Organization Field Training day
- UMD representative was present at every Environmental Law Organization Meeting
- Reached out to undergrad environmental group SPEAK and discussed UMD
- Nashville Sierra Club annual meeting and discussed Sierra Club's participation with UMD
- Tabled and gave an introduction to UMD at the climate change event: One Earth, Our Choice
- Continual coordination with Knox Climate Change Central
- Participation in weekly Fracking Calls about UT proposal in coordination with Sierra Club, Statewide Organizing for Community eMpowerment (SOCM), TN Citizens for Wilderness Planning and Southern Environmental Law Center (SELC).
- Represented the proposed student representative to present information to UT Board of Trustees on the potential impacts of fracking on public conservation land
- Organizing Appalachian Public Interest Environmental Law Conference (APIEL)
- Sponsored and participated in the Fractivist conference
- Met with SELC about future legal collaboration pertaining to our open source data, this partnership will come to fruition after the October 2013 APIEL IV
- Distributed our annual publication all over Tennessee, parts of North Carolina and Kentucky.
- Represented and tabled for UMD at the public interest environmental law conference in Oregon.
- Started University of Tennessee's first environmental law alternative spring break
- Hosted three different law schools for alternative spring breaks

- Brought law students to participate in water testing and showed the students what to look for in terms of legal violations at mine sites
- Created a streamlined form for anyone to easily submit information and comments to current permits
- Monitored business/governmental agencies for opportunities to comment and stop environmentally harmful projects
- Sent UMD members to participate in public hearings on potential strip mining permits
- Creation of official United Mountain Defense anti-oppression/anti-racism policy.

Videos

- UMD @ Tackett Creek 6/16/12: UMD went out to the New River Watershed near King Mountain and Tackett Creek to examine the results of the Office of Surface Mining's (OSM) lax regulation. The coal company hydra is running roughshod over the landscape- leaving devastation in its wake. Available at http://www.youtube.com/watch?v=XKMZWZj_kh0
- Feb 18 2012 UMD field report: While into the field ran into Grant, a gentleman working on mussel populations in the same area. Available at <http://www.youtube.com/watch?v=cUvkz2KFlxM>
- UMD at Cooper's Ridge, Claiborne Co TN 3/24/13: UMD visited the site of a newly proposed strip mine at Cooper's Ridge, TN to take some volunteers out into the field and obtain water samples for metals analysis. Available at <http://www.youtube.com/watch?v=STnMWzHWsBc>
- UMD field report Nov 4th 2012: Out on the western side of the New River watershed. Available at http://www.youtube.com/watch?v=O0WNmB_8Bi8
- Feb 24 2013 UMD Field Lecture: Volunteer Chris Irwin explains some of the field work and how it relates to UMD goals & objectives. Available at <http://www.youtube.com/watch?v=pzEwiKMvgI8>
- UMD Sutherland Avenue Violation 7/12/12: UMD Volunteers hiked the Knoxville City Greenway to determine the source of sediment pollution from Third Creek into the Tennessee River- what we found was a huge waterfall of silt from a construction site-the University of Tennessee's new intramural fields- at Sutherland Avenue, directly into an already impacted 303(d) stream and the Tennessee River. Available at <http://www.youtube.com/watch?v=G1uF37i5FbQ>
- TDEC and UT pumping more mud into the TN river. 4th time we have put staff time into tracking the sheer volume of mud the University of Tennessee is spewing into the Tennessee River from its Sutherland Avenue construction site. Available at http://www.youtube.com/watch?v=eBwrEOm8_5E
- UMD busting UT at Sutherland: UMD's fieldwork is directly responsible for ending tons of sedimentation being dumped into the Tennessee River. Available at <http://www.youtube.com/watch?v=OR33lhLWDgo>
- University of Tennessee site Aug 4th 2012 still pumping mud: Available at http://www.youtube.com/watch?v=u09_1izpGgk
- New River Field Report Feb 24 2013: Collected 15 samples and sent to lab. Also collected conductivity, pH, etc. Available at <http://www.youtube.com/watch?v=8zGrnUfgeAU>

- UMD field protocols and test Nov 11th 2012: This video is an attempt to put our field protocols out there for open public critique. Available at <http://www.youtube.com/watch?v=4bODYxRBlzU>
- Nov 25 th UMD FIELD REPORT 2012: United Mountain Defense volunteers went out to do conductivity, dissolved oxygen, pH, Selenium, Mercury, temp. Available at <http://www.youtube.com/watch?v=wytttry933SI>
- AMREN: Chris Irwin was invited to speak before the AMREN conference about antiracism and principles of tolerance. Available at <http://www.youtube.com/watch?v=hEgve7oznDk&feature=c4-overview&list=UUmltU2-m3VoFXbjZj1ikuwg>
- James White Parkway EIS Hearing: (Multiple) Available at <http://www.youtube.com/watch?v=7xN03UTOrPc>; <http://www.youtube.com/watch?v=DI3gB0QpJdA>; <http://www.youtube.com/watch?v=Dj42WU1rhBw>; <http://www.youtube.com/watch?v=FC6Wc1belhc>; <http://www.youtube.com/watch?v=f4HpgMGf7U>; <http://www.youtube.com/watch?v=6SYZHXHYKo>

Appendix B

Field Activities

- 10/13/12
 - 4 violations documented
- 11/11/12
 - 10 Water Samples
- 11/25/12
 - 9 water samples
 - 3 violations documented
 - 8 conductivity violations
 - 3 metals violations
- 2/9/13
 - 5 water samples
 - 4 violations documented
 - 1 conductivity violation
- 2/23/13
 - 15 water samples
 - 18 violations documented
 - 1 metals violation
- 3/19/13
 - 2 streams tested
 - Volunteer group (8 Individuals) trained on water sampling & use of equipment
- 3/24/13
 - 10 water samples
 - 2 conductivity violations
 - 4 metals violations

- 4/27/13
 - 17 water samples
 - 8 violations documented
 - 5 conductivity violations
 - 1 metals violation
- 5/21/13
 - Field visit to local illegal hazardous material dump
- 6/15/13
 - 17 water samples
 - 4 violations documented
- 6/30/13
 - 13 water samples
 - 9 violations documented
 - 1 metals violation
- 7/27/13
 - 11 water samples
 - 15 violations documented
 - 4 metals violations
- 7/28/13
 - 6 water samples
 - 2 violations documented
 - 3 conductivity violations
 - 2 metals violations
- 8/24/13
 - 8 water samples
 - 2 violations documented
 - 1 Field Volunteer trained
 - Lab results pending
- 8/31/13
 - 4 water samples
 - 1 violations documented
 - Lab results pending
- 9/7/13
 - 4 water samples
 - 13 violations documented
 - Lab results pending
- **TOTALS:**
 - **16 field excursions**
 - **142 documented violations (NPDES/OSM permits)**
 - **19 conductivity violations**
 - **35 metals violations**
 - **9 volunteers trained**

Appendix C

Population and Area Served by United Mountain Defense

<i>Appalachian Tennessee*</i>	<i>Population</i>	<i>In poverty</i>	<i>Land area (sq/mi)</i>
<i>Anderson County</i>	<i>75,233</i>	<i>12,187 (16.2%)</i>	<i>337.521</i>
<i>Campbell County</i>	<i>40,512</i>	<i>9,439 (23.3%)</i>	<i>480.082</i>
<i>Claiborne County</i>	<i>32,172</i>	<i>6,338 (19.7%)</i>	<i>434.295</i>
<i>Cumberland County</i>	<i>56,632</i>	<i>9,401 (16.6%)</i>	<i>681.63</i>
<i>Hancock County</i>	<i>6,737</i>	<i>2,324 (34.5%)</i>	<i>222.303</i>
<i>Hawkins County</i>	<i>56,671</i>	<i>10,767 (19.0%)</i>	<i>486.686</i>
<i>Knox County</i>	<i>436,929</i>	<i>64,229 (14.7%)</i>	<i>508.492</i>
<i>Morgan County</i>	<i>21,838</i>	<i>4,695 (21.5%)</i>	<i>522.070</i>
<i>Roane County</i>	<i>53,838</i>	<i>7,537 (14.0%)</i>	<i>360.993</i>
<i>Scott County</i>	<i>22,160</i>	<i>5,363 (24.2%)</i>	<i>532.121</i>
<i>TOTALS</i>	<i>807,722</i>	<i>132,280 (16.4%)**</i>	<i>9,873.033</i>

**Data provided by Appalachian Regional Commission, "County Economic Status, Fiscal year 2012: Appalachian Tennessee" at < http://www.arc.gov/reports/region_report.asp?FIPS=47999&REPORT_ID=37 >.*

*** All counties average approximately 122.5% of U.S. Poverty Rate.*

Appendix D
Financial Report

GRANT EXPENSES

Field Work			
Field Supplies	\$1,990.93		
9/13/2012	TARGET 0 0860 / Equipment/Supplies		\$40.40
11/26/2012	WM SUPERCENTER# 0860 / Testing Services		\$29.13
11/27/2012	WALGREENS #1015 0860 / Fieldwork - daily expenses		\$8.70
2/11/2013	CARYVILLE AMOCO 1493 / Fieldwork - daily expenses		\$5.35
2/11/2013	GINGER S DELI & 1493 / Fieldwork - daily expenses		\$20.51
2/11/2013	INGLES STORE #3 1493 / Fieldwork - daily expenses		\$57.76
2/19/2013	THE HOME DEPOT 1493 / 1996 Chevy Truck		\$56.77
2/19/2013	THE HOME DEPOT 1493 / 1996 Chevy Truck		\$38.23
2/19/2013	THE HOME DEPOT 1493 / 1996 Chevy Truck		\$1.07
2/20/2013	AMAZON MKTPLACE 1493		\$81.72
2/21/2013	AMAZON MKTPLACE 1493		\$307.99
2/22/2013	AMAZON MKTPLACE 1493		\$50.92
4/29/2013	WAL-MART #1320 1493		\$99.90
4/29/2013	WAL-MART #1320 1493		\$56.00
5/1/2013	PAYPAL *GPSLOT 0860		\$44.95
5/2/2013	PAYPAL *BLUESKY 0860		\$22.99
9/5/2013	WALGREENS #1015 1501		\$1.71
6/19/2013	WALGREENS #1015 5789		\$6.28
6/17/2013	WAL-MART #1318 5789		\$77.08
6/17/2013	WAL-MART #1318 5789		\$45.00
6/17/2013	KENJO MARKET # 5789		\$5.99
6/17/2013	WAL-MART #1318 5789		\$2.15
7/30/2013	EARTH FARE #405 5789		\$22.88
7/30/2013	WALGREENS #1015 5789		\$1.92
7/29/2013	WAL-MART #1194 5789		\$39.71
7/29/2013	KENJO MARKET # 5789		\$29.34
7/1/2013	WAL-MART #1194 5797		\$87.95
7/1/2013	WAL-MART #1194 5797		\$28.00
7/1/2013	WAL-MART #1194 5797		\$17.00
8/27/2013	WALGREENS #1015 5789		\$1.92
9/10/2013	WALGREENS #1015 5789		\$1.71
9/9/2013	WAL-MART #1318 5789		\$157.48
9/9/2013	FIREHOUSE SUBS 5789		\$18.42
9/9/2013	WAL-MART #1318 5789		\$2.15
9/3/2013	HARBOR FREIGHT 5789		\$28.90
11/26/2012	MOE S SOUTHWEST 0860 / Meals		\$13.96

	2/25/2013	KROGER #531 1493	\$124.34
	3/25/2013	ROCKY TOP MKT # 1493	\$1.63
	3/25/2013	SMOKY MOUNTAIN 1493	\$13.10
	7/9/2013	2455 CHECK #2455	\$50.00
	8/26/2013	FIREHOUSE SUBS 5789	\$18.32
	8/26/2013	KROGER #549 5789	\$10.71
	9/3/2013	TUPELO HONEY KN 5789	\$27.73
	9/13/2013	Field Consumables to End of Grant 9/30/2013	\$233.16
Testing	\$12,869.00		
	9/18/2012	CALIBER ANALYTI 0860 / Testing Services	\$500.00
	11/20/2012	CALIBER ANALYTI 0860 / Testing Services	\$630.00
	12/3/2012	CALIBER ANALYTI 0860 / Testing Services	\$700.00
	12/10/2012	CALIBER ANALYTI 0860 / Testing Services	\$875.00
	3/27/2013	CALIBER ANALYTI 0860	\$1,400.00
	5/13/2013	INT*CALIBER ANA 0860	\$1,924.00
	7/10/2013	INT*CALIBER ANA 5789	\$1,224.00
	9/10/2013	INT*CALIBER ANA 5789	\$576.00
	9/13/2013	CALIBER ANALYTI 0860 / Testing Services	\$1,872.00
	9/13/2013	Testing Earmark to End of Grant 9/30/2013	\$3,168.00
Fuel	\$1,334.48		
	10/15/2012	M&B MARKET 0860 / Gas	\$23.59
	11/27/2012	EXXONMOBIL 4, 0860 / Gas	\$30.00
	1/28/2013	WEIGELS #48 1493 / Gas	\$36.02
	2/4/2013	KROGER FUEL #15 1501 / Gas	\$86.46
	2/11/2013	PILOT 1493 / Gas	\$34.31
	2/25/2013	KENJO MARKET # 1501	\$95.49
	4/8/2013	KENJO MARKET # 1493	\$15.83
	4/8/2013	MAPCO-EXPRESS # 1493	\$30.38
	4/29/2013	KINFOLK MARKET 1493	\$5.14
	4/29/2013	PILOT 1493	\$86.94
	4/29/2013	PILOT 0 0860	\$11.04
	4/29/2013	PILOT 0 1493	\$2.37
	5/20/2013	EXXONMOBIL 4 1493	\$18.81
	5/20/2013	EXXONMOBIL 4 1493	\$7.06
	5/21/2013	EXXONMOBIL 4 1493	\$24.09
	6/17/2013	KENJO MARKET # 5789	\$71.65
	6/17/2013	AZTEX #112 5789	\$9.17
	6/17/2013	AZTEX #112 5789	\$7.02
	7/30/2013	SHELL OIL 57544 5789	\$17.00
	7/30/2013	SHELL OIL 54164 5789	\$3.13
	7/29/2013	SHELL OIL 57544 5789	\$47.48
	7/29/2013	SHELL OIL 57544 5789	\$17.00
	7/29/2013	MARATHON PETROO 5789	\$7.14

	7/1/2013		SHELL OIL 54164 5797	\$75.32
	9/9/2013		MARATHON PETROO 5789	\$23.01
	9/3/2013		SHELL OIL 57545 5789	\$60.57
	9/3/2013		SUNOCO 05347182 5789	\$33.97
	9/13/2013		Fuel Earmark to End of Grant 9/30/2013	\$454.49
Veh. Maint.	\$1,952.29			
	2/11/2013		OREILLY AUTO 0 1493 / 1996 Chevy Truck	\$143.90
	2/25/2013		O REILLY AUTO 1501	\$22.37
	7/29/2013		OREILLY AUTO 0 5789	\$19.63
	7/2/2013		HONDA YAMAHA OF 5789	\$51.06
	7/1/2013		HONDA YAMAHA OF 5789	\$163.88
	7/1/2013		NORTHERN TOOL E 5797	\$145.78
	8/5/2013		AMAZON MKTPLACE 5789	\$152.99
	8/1/2013		AMAZON.COM 5789	\$95.81
	9/9/2013		MOUNTAIN MOTORS 5789	\$156.87
	9/13/2013		Vehicle Maint. Earmark to End of Grant 9/30/2013	\$1,000.00
Permits/Passes	\$78.55			
	2/25/2013		GINGER S DELI & 1501	\$40.55
	6/17/2013		GINGER S DELI & 5789	\$38.00
Equip. Maint.	\$1,528.64			
	1/22/2013		YSI INCORPORATE 1493 / Equipment/Supplies	\$115.00
	7/29/2013	2456	YSI CHECK #2456	\$1,413.64
Postage/Shipping	\$1,631.66			
	10/4/2012	2071	CHECK #2071 / USPS	\$58.00
	10/9/2012		FEDEXOFFICE 0 0860 / FedEx Kinkos	\$8.63
	10/22/2012		FEDEXOFFICE 0 0860 / FedEx Kinkos	\$11.46
	10/22/2012		FEDEXOFFICE 0 0860 / FedEx Kinkos	\$3.23
	11/8/2012		FEDEX 418450877 0860 / FedEx Kinkos	\$7.64
	11/9/2012		FEDEX 418503593 0860 / FedEx Kinkos	\$98.04
	11/14/2012		FEDEX 418742224 0860 / FedEx Kinkos	\$9.21
	11/16/2012		FEDEX 418888915 0860 / FedEx Kinkos	\$126.38
	11/20/2012		USPS 4746380903 0860	\$1.19
	11/28/2012		FEDEX 419466130 0860 / FedEx Kinkos	\$10.30
	11/30/2012		FEDEX 419603089 0860 / FedEx Kinkos	\$118.68
	12/3/2012		FEDEXOFFICE 0 0860 / FedEx Kinkos	\$47.02
	12/3/2012		USPS 4746380903 0860 / FedEx Kinkos	\$35.75
	2/15/2013		FEDEX 802243920 1493 / Postage/Shipping	\$54.26
	2/27/2013		FEDEX 424830791 0860	\$15.27
	3/1/2013		FEDEX 424974106 0860	\$66.73
	3/27/2013		FEDEX 426886095 0860	\$7.64
	3/29/2013		FEDEX 427068179 0860	\$37.66
	4/3/2013		USPS 4746380903 1493	\$7.32
	5/3/2013		FEDEX 429982600 0860	\$58.35

6/24/2013	FEDEX 434004868 0860	\$60.21
7/5/2013	FEDEX 435023246 0860	\$55.91
7/8/2013	FEDEX 435115450 0860	\$38.21
7/23/2013	USPS 4746360923 1501	\$3.56
7/24/2013	FEDEX 436292391 0860	\$11.13
8/2/2013	FEDEX 437143634 0860	\$41.36
8/6/2013	USPS 4746360923 1501	\$7.81
8/30/2013	FEDEX 439373182 0860	\$39.18
9/9/2013	FEDEX 439966849 0860	\$35.83
9/13/2013	Shipping Earmark to End of Grant 9/30/2013	\$555.70

Office Supply/Service

9/14/2012	J2 *RAPIDFAX SV 0860 / FedEx Kinkos	\$9.95
10/15/2012	J2 *RAPIDFAX SV 0860 / FedEx Kinkos	\$9.95
12/14/2012	J2 *RAPIDFAX SV 0860 / FedEx Kinkos	\$9.95
1/14/2013	0 CHECK #0	\$5.00
1/14/2013	J2 *RAPIDFAX SV 0860 / FedEx Kinkos	\$9.95
2/14/2013	J2 *RAPIDFAX SV 0860	\$9.95
3/14/2013	J2 *RAPIDFAX SV 0860	\$9.95
4/15/2013	J2 *RAPIDFAX SV 0860	\$9.95
5/14/2013	J2 *RAPIDFAX SV 0860	\$9.95
6/14/2013	J2 *RAPIDFAX SV 0860	\$9.95
7/15/2013	J2 *RAPIDFAX SV 0860	\$9.95
8/14/2013	J2 *RAPIDFAX SV 0860	\$9.95

APIEL 2013 Expenses

Outreach	9/13/2013	\$500.00
Materials & Setup	9/13/2013	\$1,000.00
Scholarships	9/13/2013	\$2,000.00

FOR IMMEDIATE RELEASE

Selenium In Water Points to Destruction of Appalachian Streams, Water Quality

KNOXVILLE, Tennessee (April 03, 2013) – New water testing results obtained by United Mountain Defense (UMD) from a proposed coal strip mine near Claiborne, Tennessee show levels of selenium- an element known to cause developmental abnormalities- in water high enough to disrupt or destroy ecosystems and potentially effect human health.

The water testing, conducted on the site of Cooper's Ridge (36.553086,-83.892117) and the site of a proposed surface strip mine by Kopper Glo Fuels LLC, analyzed 10 water samples from sediment pond discharge points. This analysis detected selenium at four testing points, ranging from 1.1 to as high as 5.0 mcg/L (parts per billion).

"These are some of the highest levels of selenium ever detected by our organization" said James Kane, UMD president and director of field operations, "5.0 mcg/L is unbelievable- this level of selenium is death for wildlife and could affect all downstream users. What happens to children who play in these streams? These results show that the Office of Surface Mining (OSM) and the Tennessee Department of Environment and Conservation (TDEC) are utterly failing the people of Tennessee by allowing these toxic discharges and not adequately regulating mining activities."

OSM and TDEC have not identified potential selenium sources or taken any steps to effectively control its discharge throughout Tennessee. Selenium can cause birth defects and pathological deformities in wildlife, as well as loss of nails, hair, tooth decay and mental debilitation in people. Selenium pollution commonly occurs when coal mining happens close to streams and other surface waters.

UMD has also submitted permit comments and requested hearings with OSM but has has heard nothing from the regulatory authority, which oversees mining activities in Tennessee.

To find out more, please visit www.unitedmountaindefense.org.

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