



Proposal

Firing Range Lead Maintenance

Prepared for:

**Fulton County Multi Agency Range
141 Pryor Street SW
Atlanta, GA 30303
Andrew Yamayans, Lieutenant
victor.yamayamas@fultoncountygga.gov**

Prepared by:

**Metals Treatment Technologies, LLC
14045 W 66th Avenue
Arvada, CO 80004
www.mt2.com
888-435-6645**

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1.0 FIRING RANGE LEAD MAINTENANCE

Metals Treatment Technologies, LLC (MT2) proposes to provide firing range lead maintenance services at the Fulton County Multi Agency Range (Customer) firing range located at 5301 Aldredge Road Southwest, Atlanta, GA 30331. All work will be performed in accordance with applicable Federal, State, and local safety and environmental regulations including US Department of Labor regulations as well as achieving compliance with OSHA, US EPA, State, and NRA and NSSF recommended firing range environmental Best Management Practices (BMPs).

1.1 PROJECT DESCRIPTION

Based on the reported range usage, and typical usage at similar ranges, it is reasonable to expect 5-10 tons of lead may be recovered and recycled from the backstop berms and apron areas. MT2 has estimated soil quantities for processing pending final specifications. MT2 will excavate and process soil from the backstop berms until lead reclamation becomes economically infeasible and/or 80-90% of lead bullets and bullet fragments (measured as weight percent) are removed.

Estimated Project Quantities

Range/Berm	Berm Width (linear ft)	Berm Face Height (ft)	Est. Cut Depth (avg. ft bgs)	Est. Soil Volume (CY)
Berm	135	24	2	240

Site Map



2.0 TECHNICAL APPROACH

		
Berm Excavation	Lead Removal & Recycling	Berm Reconstruction

THE MT2 LEAD RECLAMATION PROCESS

- **RANGE PROJECT SETUP BY TRAINED & CERTIFIED CREW:** Work crew mobilizes and sets up our specialty equipment, sets up lead dust containment and ventilation; walks range with owner to conduct pre-work planning.
- **WORK PROCESS:** Reclaim lead, restore traps/berms and clean range. ALL work follows written Health and Safety and Work Plans. We are OSHA/EPA Experts with no violations, and we take no shortcuts.
- **JOB COMPLETION:** Finish site work, clean up, containerize, weigh & arrange for transportation of lead drums for recycling and LEGALLY dispose of your lead waste. Optional onsite lead waste treatment with ECOBOND® to ensure you NEVER Generate Hazardous Waste. GUARANTEED! Provide range with detailed log on amount of lead reclaimed and waste.
- **FINAL REPORT** (typically 1-2 weeks later): Prepare final report & important records for range to keep, including: waste manifests, lead reclamation certificates, and other important details to support final project completion to protect you & your range if EPA asks for documentation!
- **LEAD PROCEEDS:** Supply lead reclamation proceeds check to owner, or offset range service costs as per previously approved contract, ensuring no surprises! Or use lead proceeds in the MT2 Firing Range Lead Credit Store with a 16,000+ catalog of premium products from filters to firearms and more! **Receive your lead proceeds within 10 days!**

MT2 will minimize the impact on range operations: By implementing our proven methods of containment and staged remedial activities, your project will be effortlessly scheduled and successfully completed with minimal down-time for your range.

BASELINE SERVICES: MT2’s technical approach for firing range lead maintenance includes:

- **Project Setup:**
 - Prepare the following project plans, as needed: Work Plan, Health & Safety Plan
 - Install erosion control and storm water protection measures such as silt fence, waddles and hay bales to protect work areas, drainages and the environment; as needed
 - Complete a site walk-over with Customer representative to identify excavation/processing areas
 - Establish temporary access, site access control, traffic control, and placing appropriate signage

- Set up of processing area and equipment
- **Berm Excavation:** Excavate soil from the operating backstop berms and apron area or shot fall zone
 - Excavate estimated depth of 1.0-2.0 feet of soil from the backstop berms or deeper if concentrations of bullets appear economically feasible to recover at deeper depths
- **Lead Reclamation:** Separate lead bullets/bullet/shot fragments from the excavated soils
 - Separate sand material from bullet and bullet fragments using the EPA-required two-step process
 - MT2's Separation System is comprised of a multi-tiered screen plant to provide gross separation of sand material from bullets and bullet fragments based on size, and MT2's proprietary finishing system to finish the separation based on density
 - Remove 90% (weight percent) lead bullets and bullet fragments greater than ¼" as measured in samples collect before and after screening
- **Lead Recycling:** Recycle recovered lead providing Customer a split of the net value of recycled lead as indicated in Section 3.0 Pricing
 - Containerize and securely store recovered lead for shipment, coordinate and ship the clean recovered lead to a licensed lead recycler, providing Customer with necessary documentation to show appropriate recycling
 - MT2 is committed to getting you the absolute highest value for your range lead
- **Berm Reconstruction:** Re-install processed soils back onto the firing range berms
 - Return screened fines to berm of origin
 - Replace oversize materials to range at a mutually agreed upon location
 - Place additional Customer-provided MT2 provided clay/soil mixture or ballistic sand <¼" to backstop berms
 - Perform general site cleanup
- **Demobilization & Final Report:** MT2 will develop a range maintenance report to provide the Customer with proper record keeping as recommended by the US EPA, NRA, and NSSF

OPTIONAL SERVICES: If requested, MT2 can provide the following optional services; Section 3.0 provides pricing:

- **Lead-Impacted Soil Treatment as per EPA Best Management Practices (BMP'S):** MT2 will reduce the leachability of lead (Pb) in soils by applying ECOBOND® (up to approximately 1%) and thoroughly mix with soils within each 250-500 CY of soil using in-situ or staging pile treatment methods.
- **Berm Improvement:** Installation and placement of additional clay/soil mixture or ballistic sand <¼" to backstop berm to supplement processed materials to augment existing berm materials and improve range safety and meet NRA, NSSF, and US EPA BMPs.
- **Environmental Stewardship Planning to NSSF, NRA, and EPA Guidance Standards:** Complete an environmental stewardship review of the range and prepare a range-specific Environmental Stewardship Plan (ESP) to summarize range conditions and provide BMP recommendations pertaining to range maintenance and operations; this plan will assist the Customer in ensuring compliance with US EPA regulations, as well as shooting range BMPs over the life cycle of the range.

3.0 PRICING

MT2 has developed the following pricing for lead maintenance services.

	Baseline Firing Range Lead Maintenance Task	QTY	Unit	Price
1	Upfront Payment: Plans, Mobilization, Site Setup and Preparation	1	Lump Sum	\$4,400
2	Lead Maintenance: Excavation, Lead Recovery, Lead Recycling, Replacement of Screened Soil to Berms, and Berm Reconstruction	Up to 264 CY	Lump Sum	\$28,000
3	Final Payment: General site clean-up, Demobilization, and Final Report	-	-	Included
				\$32,400
Estimated Lead Recycling Value				
4	Estimated Client Net Lead Recycling Value	5-10 tons	\$0.70 Per lbs.	(\$2,375 - \$5,475) ^{1/}
Optional Services ^{2/}				
5	Optional: ECOBOND® Soil Amendment of Soils Returned to Active Range(s) <ul style="list-style-type: none"> - Utilize MT2's ECOBOND® to reduce the leachability as per USEPA BMP's (up to 1% ECOBOND®) - Pricing Assumes application of up to 1% ECOBOND® at a soil density of up to 1.5 TN/CY 	Up to 264 CY	Lump Sum	\$15,000
6	Optional: Berm improvement: placement of additional 45 CY – customer provided clay/soil mixture or ballistic sand <¼" to backstop berm	Up to 45 CY	Lump Sum	\$ 10,500
7	Optional: Environmental Stewardship Plan	1	Lump Sum	\$7,500

^{1/} MT2 owns the recovered lead; **MT2 will provide the Client 50% split of the net value of recycled lead.** Net value is determined as the recycled value of the material less the same percent of the cost of containers, pallets, handling equipment, transport, and applicable taxes, to be used to offset project costs. MT2 does not guarantee the value or quantity of recovered lead. The actual value of recycled lead will be determined at the time of recycling. The Estimated Lead Recycling Credit is based on a reasonable estimate of the amount of recoverable lead and current lead recycle value per pound

^{2/} Pricing for optional tasks is valid if performed at the time of lead maintenance tasks, no field investigations are included with the ESP preparation

3.1 PROJECT APPROACH CLARIFICATIONS AND ASSUMPTIONS

(applicable if marked)

- Pricing based on standard workdays (0700-1700 M-F).
- Stormwater Pollution Prevention Plan (SWPPP) is is not required.
- Plans and permitting. MT2 is responsible for, and pricing only includes Work Plan & HASP
- Customer will provide MT2 access to nearby water source (e.g. hydrant) and pay for water and associated items such as permit/meter/hose as needed. MT2 will utilize a water truck or trailer to provide dust suppression sprinkling as needed during excavation and separation operations.
- Pricing does not include management of live ammunition, only spent rounds. If live ammunition is discovered, it will be left onsite for Customer to manage.

- If applicable MT2 will use appropriately sized and/or rubber tire equipment and use caution to work around existing range appurtenances with limited access (e.g. backstop berm soils imposed by range knee walls, target systems, overhead baffles, and sidewalls). MT2 will not be responsible for damage to the range, range equipment, or appurtenances should damage occur during processing.
- Measurement of quantities will be based field measurement each day; signed-off daily by MT2 and Customer; and recorded in daily project log
- MT2 will perform dry decontamination of equipment before demobilization.
- MT2 pricing includes: Prevailing Wage Rates Bonding Retainage Liquidated Damages
- Pricing is based on fuel charges not exceeding \$6/gal on diesel and \$5/gal on gasoline based on the U.S. Energy Information Administration (USEIA) conglomerated "U.S" price (<https://www.eia.gov/petroleum/gasdiesel/listed>). If the USEIA price of fuel is higher than these rates at time of service, MT2 reserves the right to negotiate a fuel surcharge
- MT2 pricing is subject to MT2 review and approval of final contract terms and conditions.
- MT2 pricing valid for 90 days.
- This Agreement is valid for one (1) year from the date the Agreement is last signed by both Parties. This Agreement may be extended upon mutual agreement by Contractor and Customer to allow for optional continued services for up to three (3) years. Should the Customer no longer need this service or not have appropriated funds, this Agreement can be terminated.
- MT2 shall not be responsible for nor have any liability for any damages, injuries or hazards derived from the shooting range operations or from the act of shooting at the shooting range to include but not be limited to bullet or fragment ricochets, or for bullets or shot leaving range containment.

3.2 CLIENT RESPONSIBILITIES:

- Obtain necessary approvals/permits
- Ensure MT2 safe access to the range site
- Complete utility locates and identify any potentially impacted utilities, drainage systems, etc.
- Remove range equipment, vegetation and materials such as timbers, scrap piles, material piles, fencing, concrete slabs, asphalt, and large debris from the lead-impacted soils area
- Protect or remove knee walls; Remove target stands/systems, if applicable
- Customer to provide Upfront Payment prior to MT2 mobilization, if required above, prior to MT2 mobilization. Progress Payment(s) and Final Payment due Net 30 days upon receipt of MT2 invoice. If Customer payment is late, Customer agrees to pay an additional 1.5% per month on the account and all collection fees for any past due amount owed to MT2. MT2 Final Invoice will be submitted to the Customer along with the Range Maintenance Report and Lead Recycling Certificates.
- Replace knee walls, target stands/systems
- Re-seed or re-vegetation of the site, as applicable

3.3 PROJECT SCHEDULE

Project schedule depends on "dry" conditions prior to and during onsite operations. MT2 will coordinate arrival with the Customer to identify a time when dry conditions exist 1-2 weeks prior to arrival and followed by anticipated dry conditions. MT2 can begin this project as early as **Summer / Fall 2024** weather permitting. **Contract work time shall be extended as necessary to allow for completion due to wet weather impacts.**

4.0 MT2 OVERVIEW

Experience you can trust! *MT2 is the #1 and largest nationwide professional firing range lead reclamation, maintenance, cleaning & construction contractor.* We offer a wide range of outdoor firing range services from routine range maintenance, cleaning, lead/brass reclamation, and recycling, to trap reconstruction, soil stabilization, all the way to remediation and closure, to best serve your range needs. *Our personnel have on average 24 years industry experience* – this expertise saves time and money for our customers since there will be no learning curve that may be incurred by less experienced firms. MT2 staff maintain applicable certifications (e.g. OSHA HAZWOPER) and licensing.

✓ **MT2 is the #1 Largest Nationwide Professional Firing Range Lead Reclamation, Maintenance, Cleaning & Construction Contractor Specializing In:**

- **Lead:** Treatment, Screening & Reclamation to MAXIMIZE Your Lead Value
- **Environmental:** EPA & OSHA Consulting, Remediation, Soil/Waste Treatment, and Closure
- **Maintenance:** Soil and Rubber Berms, Traps, Lead Remediation, and Range Improvements
- **Construction:** Renovation, Design/Build, Improvements, Dismantling/Demolition

✓ **MT2 is the Only Nationwide Firing Range Services Provider:** MT2 operates from our network of regional offices and offers full 50 state coverage with OSHA & EPA-certified work teams to provide fast, professional service to fulfill your project needs and schedule. *MT2 has completed over 3,000 firing range projects nationwide*

✓ **Lead Removal & Recycling – MT2 exclusively guarantees the highest value for your range lead:** MT2 has performed lead reclamation in all 50 states nationwide to remove and recycle over 15,000,000 lbs. of lead. *To maximize lead recovery*, MT2 uses our proprietary lead separation systems to separate lead from soils based on size, and “finish” the process by separating lead from like-size materials based on density. *MT2 guarantees to pay the highest percent of LME lead value– we have credited > \$5,600,000 to range owners from lead recycling.*

✓ **Lead Recycling Credit Options:** *MT2 guarantees to pay the highest percent of LME lead value. MT2 is committed to getting you the absolute highest value for your range lead so we offer the opportunity to LOCK IN the lead credit value at: 1) The time of contracting or 2) When we arrive onsite and package the lead - You are in control!* When you use our National Service Team to generate maximum lead recycling credit, the Range receives \$\$ in a check, or as credit at the nation’s leading Firing Range Supply Store with preferred pricing. MT2 has developed a strategic alliance with a national distributor of firearms, ammunition and shooting accessories with a 16,000+ catalog of premium firearms & accessories, they have served retail gun shops, major sporting goods stores, gun clubs, shooting ranges and government agencies since 1984; and are a supplier of nearly 100 of the world’s premier shooting industry manufacturers. *You are not limited to using your lead credit for only bullets or targets and we have negotiated highly preferred pricing for you from filters to firearms.*

✓ **Exclusive Lead-Contaminated Soil and Waste Treatment:** *MT2 utilizes our exclusive patented and proprietary ECOBOND® technology to treat lead-impacted soils/waste during lead maintenance projects*

MT2 is the Nation’s #1 and largest nationwide professional firing range services provider

- >23 years’ experience
- > 3,000 firing range projects nationwide
- Lead Recovery of > 15,000,000 lbs
- MT2 exclusively guarantees to pay the highest percent of LME lead value– we have credited > \$5,600,000 to range owners from lead recycling
- Maintenance, renovation, construction, Design/Build, improvements, soil treatment, and closure
- Successful ECOBOND® treatment of > 10,000,000 tons of lead impacted soils/waste

*to save an average of 50% on waste disposal or to mitigate potential physical, occupational, and environmental hazards associated with high concentrations of lead in range soils; as well as achieve compliance with OSHA, US EPA, State, and NRA and NSSF recommended firing range environmental Best Management Practices (BMPs). **ECOBOND® is regularly approved and even specified for use by US EPA and state regulatory agencies.***

- ✓ **MT2's Liability Defender Compliance & Performance Promise:** Your choice of a lead reclamation contractor could expose your range to US EPA hazardous waste fines up to \$50,000 per day (penalties double for subsequent violations) and potential criminal charges. ***A range owner ALWAYS retains responsibility for ALL lead waste and materials derived from their range even if it is their chosen contractor that improperly handles, transports, or disposes of the lead waste.***
 - When you hire MT2, you can rely on and trust our extensive prior track record as the industry leader. In addition, **we are the only lead reclamation company to guarantee performance** with a \$10,000,000 environmental and lead pollution insurance liability coverage package that protects range owners and managers from claims or occurrences of lead hazard violations, penalties, and cleanup expenses.
- ✓ **Environmental Stewardship Planning:** MT2 has extensive experience assisting range owners understand and meet recommended firing range Best Management Practices including the ***development of 100's of site-specific Environmental Stewardship Plans to NSSF, NRA, and EPA guidance standards.***
- ✓ **Firing Range Design and Construction:** With over 20 years' experience, MT2 is a fully integrated professional and technical services firm positioned to design and build projects nationwide for public and private sector clients. MT2 was recently recognized as an Inc. 5,000 fastest growing company and is the ***ONLY contractor who is the premier all-in-one solution for firing range assessment, and lead maintenance and reclamation who also provides the fully integrated combination of design and build construction services.*** With our knowledge of federal, state, and local compliance orders, as well as technical and US EPA RCRA requirements, we can manage, monitor, and inspect progress to ensure services are preformed to necessary standards.

4.1 MT2 EXPERIENCE

MT2 brings extensive experience in firing range lead removal, contaminated soil stabilization, environmental remediation, permitting, and project management for a broad range of government, commercial, industrial, municipal and engineering clients. Our key project personnel have an average of 24 years of relevant experience. With a staff of engineers, chemists, scientists, technicians, equipment operators, supervisors, project managers and management specialists, MT2 delivers quality work completed safely, on time and within budget. MT2 personnel routinely deliver turnkey deployment, including baseline sampling and characterization, treatment optimization, field operations and management and final report preparation.

5.0 OVERVIEW OF ECOBOND® TECHNOLOGIES

MT2 maintains a broad portfolio of patented and proprietary chemical metals stabilization processes; known as ECOBOND® that provide virtually permanent stabilization of all heavy metals. The MT2 processes are previously approved by the US EPA and are non-hazardous. The resulting treated soils contain extremely stable metal compounds that virtually eliminate the leaching of metals to the environment. The strength and effectiveness of the stabilization has been verified using the EPA's TCLP test parameters and Multiple Extraction Procedure (MEP) tests.

Advantages of ECOBOND® chemical stabilization also include its robust capability and ease of application. The technology can be applied in a wet or dry form and can be used to stabilize metals in-situ or ex-situ. These varied applications make it ideal for use at a wide range of metals contaminated sites. At some sites the technology can be surface applied and mixed into soil in its dry form. At other sites the technology can be sprayed in its wet form onto the contaminated material in a topical fashion. In addition to the technical and application advantages, the cost of utilizing chemical stabilization to treat heavy metals contamination is attractive. By being able to treat metals contamination to EPA RCRA or Universal Treatment Standards (UTS), stabilized waste can often be left on-site rather than transported offsite to a hazardous landfill. The disposal cost savings for stabilized metals can often be measured in the hundreds of dollars per ton.

MT2 ECOBOND® ADVANTAGE

- **Lower Cost:** Typically 30%-50% lower cost
- **Reduction of Environmental Liability:** Significantly reduces potential of long-term liabilities
- **Proven Technology:** Technology previously approved by EPA and state regulators with guaranteed, field validated reliability
- **Best Available Technology:** Virtually permanent chemical process, strength and durability to 1,000 years verified by EPA approved testing

Table 1 MT2 Metals Treatment Results (TCLP)

Waste Stream	Metals	Pre-Treatment	Post-Treatment	Regulatory Standards	
		TCLP (ppm)	TCLP (ppm)	RCRA (ppm)	UTS (ppm)
Mill Tailing	As	2,200.0	1.030	5.0	5.000
Sludge	Cd	160.0	0.100	1.0	0.110
Mill Tailing	Cr	14.0	<0.050	5.0	0.650
Industrial Site	Ba	249.0	0.030	100.0	210.0
Industrial Site	Pb	980.0	0.250	5.0	0.750
Firing Range	Pb	977.0	0.180	5.0	0.750
Mine Tailing	Zn	108.0	2.000	NA	4.300
Mill Tailing	Se	190.0	0.890	1.0	5.700
Chemical Waste	Hg	500.0	0.070	0.2	0.025

TCLP = Toxicity Characteristic Leaching Procedure