Letter Report – As-Built

ATEX #213 State Lead UST Site
3501 Isleta Blvd. SW, Albuquerque, NM
Facility ID #31815 RID #28 WPID #2783, D3

March 29, 2005

SMA
Souder, Miller & Associates
Scientists & Engineers
3451 Candelaria Road NE, Suite D • Albuquerque, NM 87107-1948
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Souder, Miller & Associates ♦ 3451 Candelaria Road NE, Suite D
Albuquerque, NM 87107-1948 ♦ (505) 299-0942 ♦ (877) 299-0942 ♦ fax (505) 293-3430

April 29, 2005 #3414158

Mr. Thomas Leck, Project Manager
New Mexico Environment Department
Petroleum Storage Tank Bureau, District 1 Office
5500 San Antonio Ave. NE
Albuquerque, New Mexico 87109

RE: LETTER REPORT – AS-BUILT, ATEX #213 UST RELEASE SITE, 3501 ISLETA BLVD. SW., ALBUQUERQUE, NEW MEXICO
FACILITY #18774007/31815 SID #28 WPID #2783

Dear Mr. Leck:

Souder, Miller & Associates (SMA) is pleased to submit this As-Built letter report for the ATEX #213 UST release site in Albuquerque, New Mexico. It is submitted in accordance with the work plan dated March 9, 2005 and approved by the New Mexico Environment Department (NMED) on March 10, 2005 (WPID #2783). This work plan amended the previous work plan dated June 15, 2004 and previous amendment dated November 8, 2004.

The attached drawings document the actual excavation areas, actual cross-sections of the excavated area and final site map. In addition, photos included in this report document activities performed at the site.

Structure Demolition and Remediation Equipment Removal

As discussed in previous reports, all structures at the site were demolished and removed and the old remediation equipment at the site was moved to the New Mexico Department of Transportation West Mesa yard.

Source Area Excavation

As discussed in the field, excavation details deviated from the original specifications submitted in the project engineering plans and specifications. Changes included the removal and disposal of the 1 to 1 slope within the excavation area due to sloughing and the large amount of contaminated soil contained within the slope. Other changes included the additional removal of contaminated soil at the south end of the excavated area. These changes were approved by the NMED on March 10, 2005.

Site Restoration

As of March 19, 2005, the excavation area was completely backfilled and recompacted as per the approved work plan. Each lift was compacted to 95% of proctor density. Backfill density was verified using a nuclear densitometer deployed to the field by Amec. The re-compaction reports are enclosed in this report. Following re-compaction, the site was restored. Site restoration included leveling the site and adding a 6" layer of crushed gravel to the top of the disturbed area for erosion control.

Contaminated Soil Disposal

As of March 11, 2005, all petroleum-contaminated soils had been removed from the site and transported to the Tri-Sect facility located on Highway 6 west of Los Lunas, New Mexico. The Tri-Sect facility is owned by Waste Management. A total of approximately 3,680 cubic yards of contaminated soil was removed from the ATEX #213 site. The manifests documenting the soil disposal were included with the Structure Demolition and Soil Removal report submitted on March 21, 2005.

Groundwater Recovery

As of March 12, 2005, approximately 5,000 gallons of contaminated groundwater had been removed from the source area and transported to Rhino Environmental's facility near El Paso, Texas for treatment and disposal.

Please note that the Souder, Miller & Associates Albuquerque office has moved. Our new address is:

3451 Candelaria Road NE, Suite D
Albuquerque, NM 87107-1948.

Please update your records, if you have any questions, please do not hesitate to call me at 299-0942, or to e-mail me at sam@soudermiller.com.

Sincerely,
SOUDER, MILLER & ASSOCIATES

Scott A. McKitrick, P.G.
Senior Geoscientist

Encl. Site Photos, As-Built Plans and Specifications, Re-compaction Reports

cc : Mr. Jeff Henry, 7404 Brazos Ct. NE., Albuquerque, NM 87109

Photo 1. Demolition of canopy and pay booth.


Photo 2. Demolition of canopy and pay booth.

Photo 3. Removal of steel above ground influent settling tank.

Photo 4. Removal of air stripper tower.

Photo 5. Removal of clean overburden on north end of excavation.

Photo 6. Continued removal of clean overburden.

Photo 7. Removal of contaminated soil

Photo 8. Boundary line of lighter uncontaminated soil above and darker contaminated soil below.

Photo 9. Groundwater with a thin layer of NAPL seeping out of saturated soil.

Photo 10. Continued removal of contaminated soil at north end of excavation area.

Photo 11. Stockpiling of contaminated soil.

Photo 12. Loading contaminated soil into belly dumps

Photo 13. Backfilling with clean gravel and sand as the excavation moves southward.

Photo 14. Removal of contaminated soil at southwest corner of excavation area.

Photo 15. Removal and stockpiling of contaminated soil at southwest corner of excavation area.

Photo 16. Excavation area looking south with clean backfill in the foreground.

Photo 17. Removal of contaminated groundwater and a small amount of NAPL.

Photo 18. Close-up of groundwater and NAPL that was removed from the excavated area.

Photo 19. Backfilling and compaction of the excavated area.

Photo 20. Continued backfilling and compaction of the excavated area.

Photo 21. Restored site with crusher gravel over excavated area.

Photo 22. Restored site with all structures and old remediation equipment removed.

Client: Rhino Environmental Services
PO Box 57180
Albuquerque, NM 87187-

Attn: Steve Dyer

Project Name: 2004 Miscellaneous Testing

Report Date: March 18, 2005

Project #: 4-519-002986
Report #: 5318
Tested By: Dave Chelgren
Date Tested: 03/16/2005
Visual Description of Material: Remediation Backfill at Isleta and Rio Bravo

FIELD DENSITY TEST (ASTM D2922 and ASTM D3017)

Moisture Density Curves Used

AMEC Lab #	Maximum Density	Optimum Moisture	Test Type / Method	Description	Id #	Supplied By
	122.5	11.0	/		WT001	Western Tech

Nuclear Density Gauge
Make: Troxler
Model #: 3430
Serial #: 30055

Test #	Location	Elevation	Test Mode	Probe Depth (in)	% Moisture Actual	% Moisture Required (-)	% Moisture Required (+)	Wet Density (pcf)	Dry Density (pcf)	Maximum Density (pcf)	% Compaction	% Compaction Required Min	% Compaction Required Max
073	South End Old Tank Location at West End of Pit	FSG -4.0'	D	6	9.9			131.5	119.7	122.5	98	95	
074	South End of Old Tank Location at East End of Pit	FSG -4.0'	D	6	8.7			132.2	121.6	122.5	99	95	

Reviewed By: _____
jd

Distribution: Client: ☑ File: ☑ Supplier: ☑ Other: Addressee (2)

BTSB=Below Top of Subbase, BTOF= Below Top of Fill, FBC= Final Base Course, FSG = Finished Subgrade, FBC = Finished Base Course, BOP = Bottom of Pipe, BOB = Bottom of Base, BOF = Bottom of Footing, OGP = Original Ground Prep
Test Mode = D for Direct Transmission and B for Backscatter Modes

AMEC Earth .Environmental, Inc.
8519 Jefferson NE
Albuquerque, NM 87113
Tel 5058211801
Fax 5058217371
www.amec.com

Client: Rhino Environmental Services, Inc.
PO Box 310
Canutillo, TX 79835-

Attn: Steve Deyer

Project Name: 2005 Misc. Testing for Rhino Environmental

Report Date: March 22, 2005

Project #: 5-519-003377
Report #: 5372
Tested By: Dave Chelgren
Date Tested: 03/18/2005
Visual Description of Material: Remediation Backfill

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003	Northwest Quadrant, Approx. 50' West and 50' South of Southwest Corner of Isleta	FSG	D	6	3.5			120.3	116.3	122.5	95	95	
004	Northwest Quadrant Approx. 20' South of Test #003	FSG	D	6	4.3			121.0	116.0	122.5	95	95	
005	Northwest Quadrant Approx. 50' South of Test #004	FSG	D	6	3.7			120.3	116.0	122.5	95	95	
006	Approx. Center of Old Tank Excavation Area	FSG	D	6	3.3			122.3	118.3	122.5	97	95	

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