Bratcher, Mike, EMNRD

From:	Tavarez, Ike <Ike.Tavarez@tetratech.com>
Sent:	Wednesday, August 21, 2013 12:02 PM
To:	Bratcher, Mike, EMNRD
Cc:	'hlamb@helmsoil.com'
Subject:	Alamo - West Artesia Grayburg Tank Battery and West Artesia Grayburg #4 - Proposed Evaluation and Remedation
Attachments:	Alamo WAG 4 Spill Site Data and Plats .pdf; WAG - Tank Battery C-141.pdf; Alamo WAG - Larson Sampling Data Tank Battery.pdf

Mike,

West Artesia Grayburg Tank Battery

We appreciate you meeting us onsite at the Alamo - West Artesia Tank Battery on August 15, 2013. As discussed, Alamo is concern about the open excavation located near the tank battery and would like to close the issue. I have attached a C-141 which we believe may be related to the tank battery release. We also found some lab data from the open excavation collected by Larson. The lab data is attached. Based on the data, the east excavation area (trench locations) were not vertically defined and requested delineation, which would involve drilling this area. As approved, the open excavation will be backfilled to a depth of approximately 3.0' to 4.0' below surface to prepare the area for access to install a borehole (between the two trench locations) to define the vertical extents. In addition, some of the sidewalls will be scraped to remove the elevated chlorides and all of the stockpiles related to the excavation will be hauled to proper disposal. Once completed and approved, the excavation will be capped with a 40 mil liner and backfilled to grade. Once all the activities are performed, Tetra Tech will prepared a closure report for the site.

In addition, a second open excavation was located immediately northwest of the excavation. As requested, Tetra Tech will collected soil samples from the excavation bottoms and sidewalls for evaluation. The sampling results will be forward for your review. Based on the results, the excavation will be addressed appropriately.

West Artesia Grayburg Unit #4

Here is another location with open excavation with no C-141 for the site. To evaluate, Tetra Tech collected soil samples from the open excavation and stockpiles. The sampling results are attached for your review. As we discussed and approved, the area of AH-1 will be excavated to approximately 2.0' below surface to remove the elevated chlorides. In area of AH-10, we will make an attempt to remove the elevated chloride. However, the dense limestone rock in the excavation bottom may hinder the excavation. In addition, you requested additional impacted soil to be removal (0.5' deep) from an area located along the lease road, which migrated approximately 300' northwest from the excavation site. Once the excavated, the open excavations will be backfilled with clean soil to surface grade. All of the soil stockpiles onsite will be hauled to proper disposal. Once all the activities are performed, Tetra Tech will prepared a closure report for the site.

If you additional information please let me know thanks

Ike Tavarez, PG | Senior Project Manager

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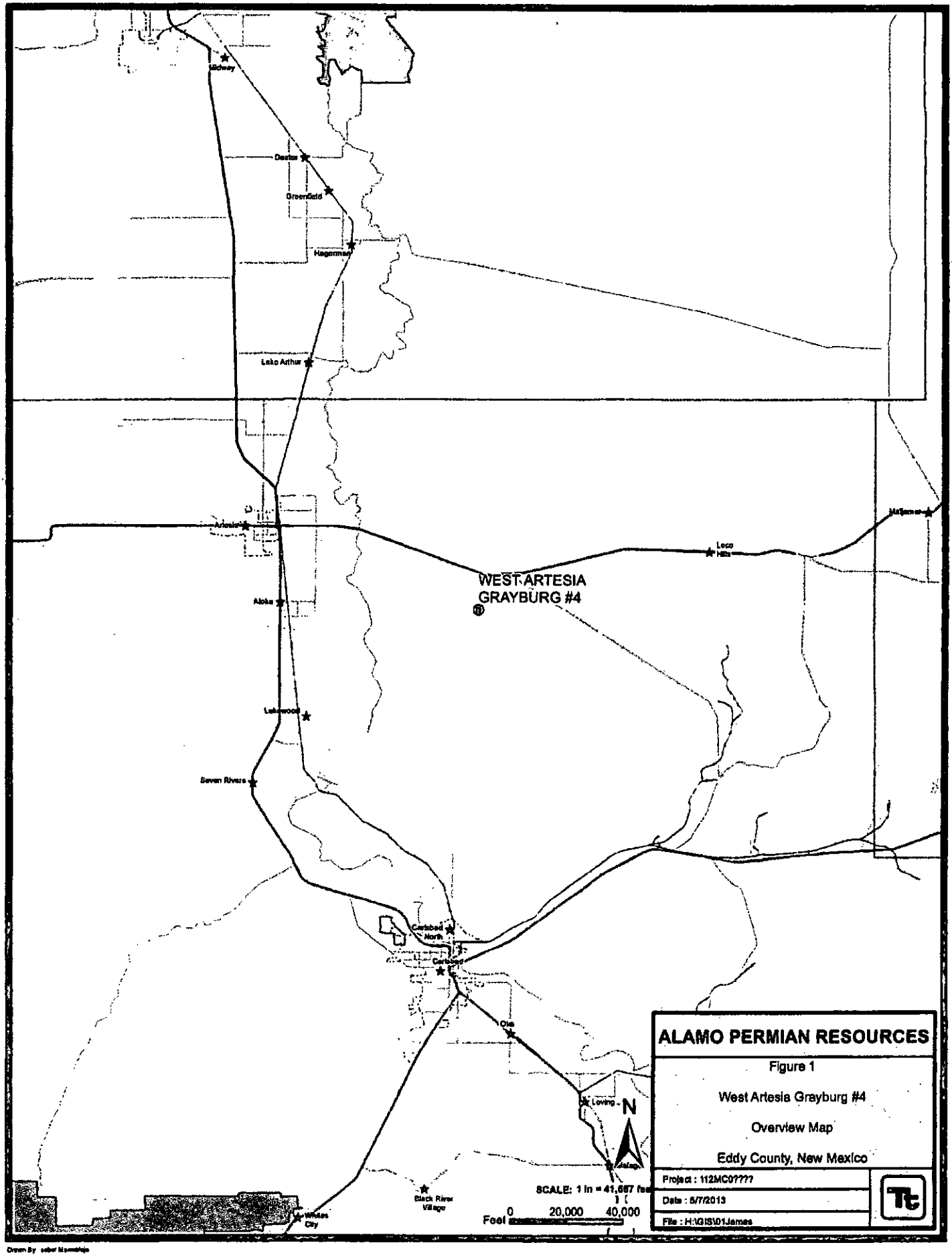
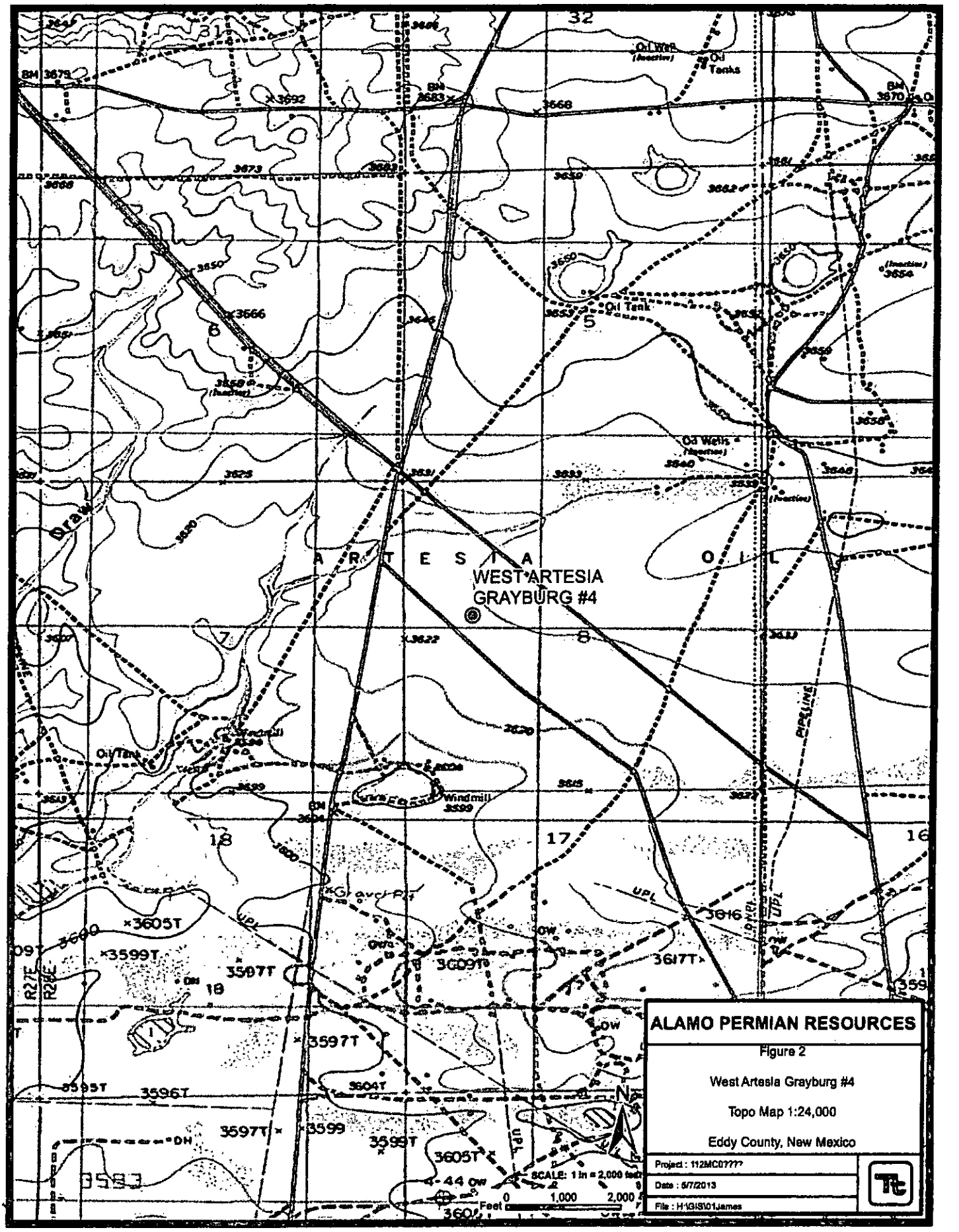
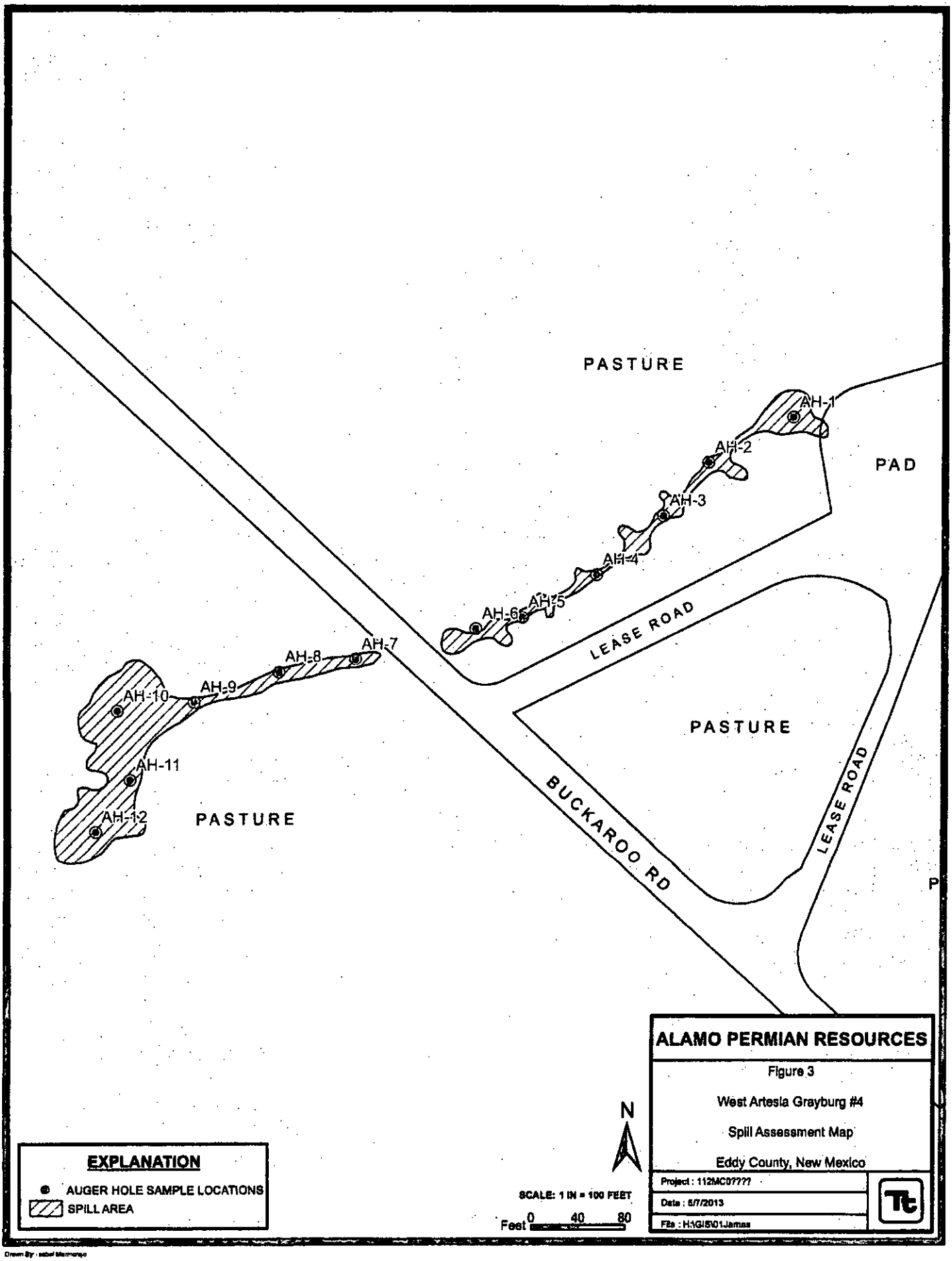

Midway
Dexter
Greenfield
Hagerman
Lake Arthur
Artesia
Aloka
Lakewood
Seven Rivers
Loco Hills
WEST ARTESIA
GRAYBURG #4
Carlsbad North
Carlsbad
Otis
Loving
Black River Village
White City
N
SCALE: 1 In = 41,667 fe
0 20,000 40,000
Feet
ALAMO PERMIAN RESOURCES
Figure 1
West Artesia Grayburg #4
Overview Map
Eddy County, New Mexico
Project : 112MC0????
Date : 5/7/2013
File : H:\GIS\01James

Drawn By: [illegible]


WEST ARTESIA
GRAYBURG #4
ARTESIA OIL
Oil Tanks
Oil Wells
Windmill
Gravel Pit
PIPELINE
SCALE: 1 in = 2,000 feet
0 1,000 2,000
Feet
N
ALAMO PERMIAN RESOURCES
Figure 2
West Artesia Grayburg #4
Topo Map 1:24,000
Eddy County, New Mexico
Project : 112MC07???
Date : 5/7/2013
File : H:\GIS\01James



Drawn By : isabel Marmanejo

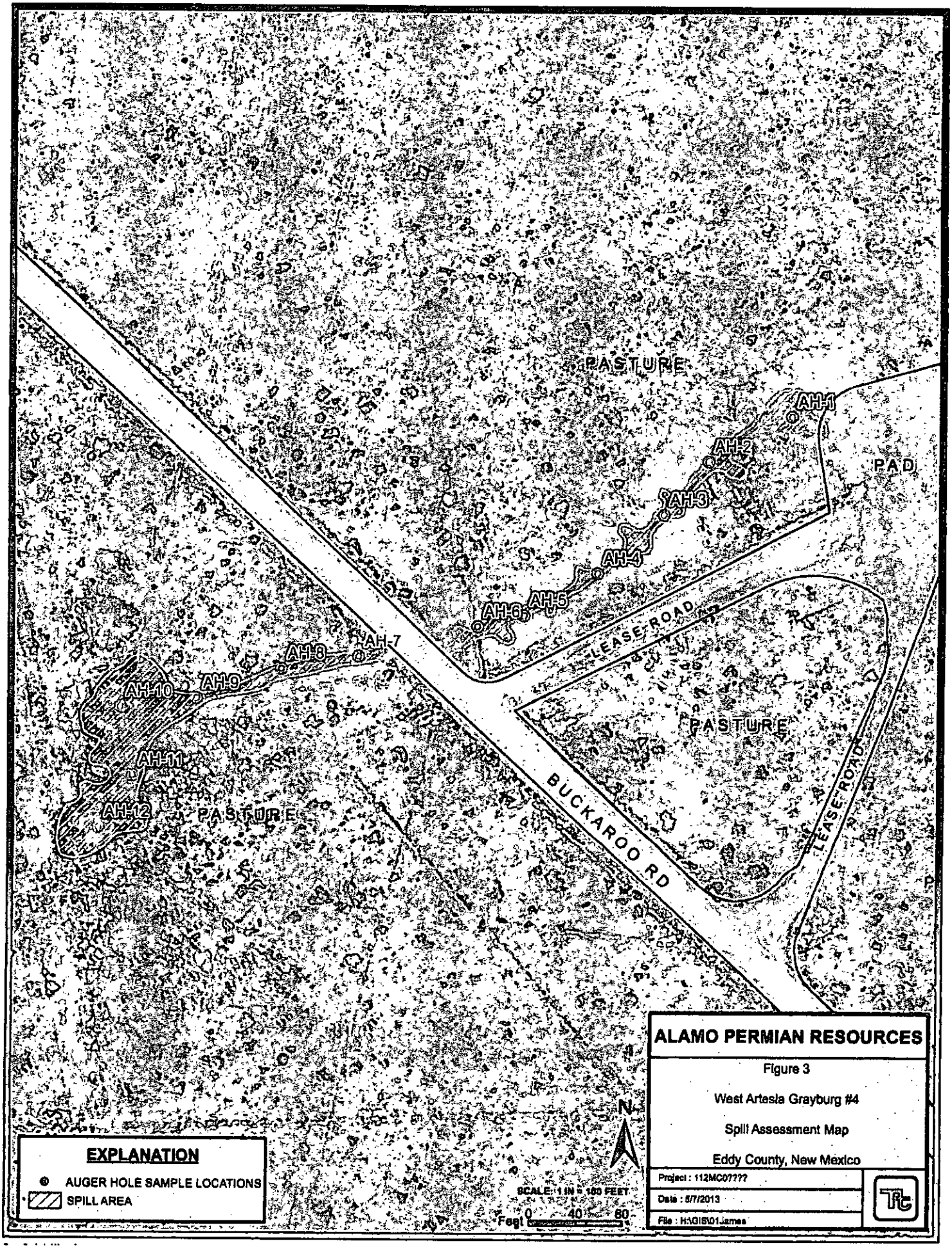

PASTURE
AH-1
AH-2
AH-3
AH-4
AH-5
AH-6
AH-7
AH-8
AH-9
AH-10
AH-11
AH-12
PAD
LEASE ROAD
PASTURE
BUCKAROO RD
LEASE ROAD
PASTURE
EXPLANATION
AUGER HOLE SAMPLE LOCATIONS
SPILL AREA
N
SCALE: 1 IN = 100 FEET
Feet 0 40 80
ALAMO PERMIAN RESOURCES
Figure 3
West Artesia Grayburg #4
Spill Assessment Map
Eddy County, New Mexico
Project : 112MC07???
Date : 5/7/2013
File : H:\GIS\01James

Table 1
Alamo Permian
West Artesia Grayburg (WAGU) #4
Eddy County, New Mexico

Sample ID	Sample Date	BEB Sample Depth (ft)	Excavation Bottom Depth (ft)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	Total						
AH-1	5/8/2013	0-1	0	X		<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	10,700
	"	1-1.5	"	X		-	-	-	-	-	-	-	-	2,660
	"	2-2.5	"	X		-	-	-	-	-	-	-	-	213
AH-2	5/8/2013	0-1	0	X		<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	582
	"	1-1.5	"	X		-	-	-	-	-	-	-	-	592
	"	2-2.5	"	X		-	-	-	-	-	-	-	-	543
AH-3	5/8/2013	0-1	0	X		<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	344
AH-4	5/8/2013	0-1	0	X		<40.0	<50.0	<50.0	-	-	-	-	-	854
AH-5	5/8/2013	0-1	0	X		<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	213
	"	1-1.5	"	X		-	-	-	-	-	-	-	-	155
AH-6	5/8/2013	0-1	0	X		<4.00	<50.0	<50.0	-	-	-	-	-	136
AH-7	5/8/2013	0-1	0	X		<8.00	<50.0	<50.0	-	-	-	-	-	83.6
AH-8	5/8/2013	0-1	0	X		<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	24.6
	"	1-1.5	"	X		-	-	-	-	-	-	-	-	63.9
AH-9	5/8/2013	0-0.5	0	X		<4.00	<50.0	<50.0	-	-	-	-	-	49.2
AH-10	5/8/2013	0-0.2	0	X		<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	2,420
AH-11	5/8/2013	0-0.5	0	X		<4.00	<50.0	<50.0	-	-	-	-	-	<20.0
AH-12	5/8/2013	0-0.5	0	X		<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<20.0

Table 1
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West Artesia Grayburg (WAGU) #4
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				In-Situ	Removed	GRO	DRO	Total						
Stockpile #1	5/15/2013	-	-	X		-	-	-	-	-	-	-	-	5,380
Stockpile #2	"	-	-	X		-	-	-	-	-	-	-	-	4,500
Stockpile #3	"	-	-	X		-	-	-	-	-	-	-	-	9,430
Stockpile #4	"	-	-	X		-	-	-	-	-	-	-	-	5,830
Stockpile #5	"	-	-	X		-	-	-	-	-	-	-	-	4,430
Stockpile #6	"	-	-	X		-	-	-	-	-	-	-	-	5,010
Stockpile #7	"	-	-	X		-	-	-	-	-	-	-	-	3,430
Stockpile #8	"	-	-	X		-	-	-	-	-	-	-	-	3,470
Stockpile #9	"	-	-	X		-	-	-	-	-	-	-	-	4,280
Stockpile #10	"	-	-	X		-	-	-	-	-	-	-	-	5,140

(-) Not Analyzed

(BEB) Below Excavation Bottom