NM1 - 8

MONITORING REPORTS

YEAR(S):

1989

WESTERN TECHNOLOGIES INC.

400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz
Star Route
Lindrith, New Mexico 87029

31044

Job No.
Lab/Invoice No. 31490261
Date *05/08/89
Reviewed By S.A. Madrid

Project: Lindrith Evaporation Pond
Location: Rio Arriba County, New Mexico
Type of Material: Clay — Authorized By: Client — Date: 05/05/89
Source of Material: Native — Tested/Calc. By: R. Day/WT
Moisture/Density Relationship: ASTM D 698 Meth. A — Test Locations Designated By: Client

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	05/05/89	60' W. of N.E. corner of dike	98"
2*	05/05/89	In N.W. key way (arroyo)	92'
3*	05/05/89	In S.W. key way (arroyo)	86.3'
4*	05/05/89	75' N. of S.W. corner of dike	86.3'
5	05/05/89	90' N. of S.E. corner of dike	97'
6R	05/05/89	Retest of Test #2, 05/05/89	92'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics: Moisture %	In-Place Characteristics: Dry Density pcf	Relative Compaction %	Within Specs. ?	Comments *
1		14.9	133.5	15.0	116.0	100+	Yes	1-4-8-15
2*		14.9	133.5	20.8	104.2	91	No	1-4-8-13-15
3*		14.9	133.5	16.1	111.5	98	Yes	1-4-8-15
4*		14.9	133.5	13.6	117.5	100+	Yes	1-4-8-15
5		14.9	133.5	14.4	116.2	100+	Yes	1-4-10-15
6R		14.9	133.5	13.1	108.7	96	Yes	1-4-8-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
*13. Opt. Moist. ± 3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Fill
*100'= Top of Bottom of Pond

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

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*Revised 05/10/89 to show Optimum Moisture requirements.

WESTERN TECHNOLOGIES INC.

400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz
Star Route
Lindrith, New Mexico 87029

31044 c

Job No.

Lab/Invoice No. 31490261

Date 05/08/89

Reviewed By S.A. Madrid

Project: Lindrith Evaporation Pond

Location: Rio Arriba County, New Mexico

Type of Material: Clay — Authorized By: Client — Date: 05/05/89

Source of Material: Native — Tested/Calc. By: R. Day/WT

Moisture/Density Relationship: ASTM D0698 Meth. A — Test Locations Designated By: Client

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	05/05/89	60' W. of N.E. corner of dike	98"
2*	05/05/89	In N.W. key way (arroyo)	92'
3*	05/05/89	In S.W. key way (arroyo)	86.3'
4*	05/05/89	75' N. of S.W. corner of dike	86.3'
5	05/05/89	90' N. of S.E. corner of dike	97'
6R	05/05/89	Retest of Test #2, 05/05/89	92'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics		Relative Compaction %	Within Specs. ?	Comments *
				Moisture %	Dry Density pcf			
1		14.9	133.5	15.0	116.0	100+	Yes	1-4-8-15
2*		14.9	133.5	20.8	104.2	91	No	1-4-8-13-15
3*		14.9	133.5	16.1	111.5	98	Yes	1-4-8-15
4*		14.9	133.5	13.6	117.5	100+	Yes	1-4-8-15
5		14.9	133.5	14.4	116.2	100+	Yes	1-4-10-15
6R		14.9	133.5	13.1	108.7	96	Yes	1-4-8-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. _____
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other _____
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Fill
*100'= Top of Bottom of Pond

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

Copies to: Client (3)
Billing (1)
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REVIEW OF CONSTRUCTION

Project: Lindrith Evaporation Pond, Lindrith, New Mexico — 31044 — Job No. _____

Lab/Invoice No. 31490261

Report No. _____ Date 04/28/89

Report By R. Yongosona/WT Date 04/27/89 Reviewed By L. Waresback Date 04/28/89

Prime Contractor Tony Schmitz Superintendent Tony Schmitz

Subcontractor _____ Superintendent _____

Work in progress and/or completed since last report: Arrived on site and contractor was in the process of compacting the N. and E. dike embankments. Compaction equipment used was a sheepsfoot roller, loaded scraper and a grader. Approximately 6" of backfill was added to each dike.

Unexpected site conditions: None

Sampling and/or testing performed: Four F.D.T.'s were performed. Moisture samples brought in for oven drying.

Conformance of materials, operations and/or test results to project requirements: Test results using oven dry moistures show adequate compaction was achieved.

Person/persons notified of nonconformance to project requirements: Tony Schmitz

Nonconformance corrected: Oven dry moisture samples were used to correlate nuclear densometer and adequate moisture contents and compaction were achieved.

Instructions or information received/from: Tony Schmitz/Layne Waresback

Weather: Cloudy & Windy. Temperature in 50's

Technician/Engineer time on project today: _____

No. of visits today: 1 Time and date for next visit: _____

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WESTERN TECHNOLOGIES INC.

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400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz
Star Route
Lindrith, New Mexico 87029

31044

Job No.
Lab/Invoice No. 31490261
Date 04/28/89
Reviewed By L. Waresback

Project: Lindrith Evaporation Pond

Location: Lindrith, New Mexico

Type of Material: Clay/Reddish Brown — Authorized By: Client — Date: 04/27/89

Source of Material: On-Site — Tested/Calc. By: R. Yongosona/WT

Moisture/Density Relationship: D968 — Meth.: A — Test Locations Designated By: R. Yongosona/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	04/27/89	235' W. of N.E. corner of dike	98'
2	04/27/89	160' S. of N.E. corner of dike	98'
3R	04/27/89	Retest of Test #1, 04/27/89	98'
4R	04/27/89	Retest of Test #2, 04/27/89	98'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics: Moisture %	In-Place Characteristics: Dry Density pcf	Relative Compaction %	Within Specs. †	Comments *
1		14.5	113.9	18.9	106.0	93	No	2-4-10-15
2		14.5	113.9	19.5	102.5	90	No	2-4-10-15
3R		14.5	113.9	12.7	108.3	95	Yes	2-4-10-15
4R		14.5	113.9	12.1	114.2	100+	Yes	2-4-10-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. _____
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other _____
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Dike

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

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Note: Moisture contents for tests 3R and 4R are oven dry moistures.

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WESTERN TECHNOLOGIES INC.

400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

LABORATORY REPORT

PHYSICAL PROPERTIES OF AGGREGATES

Client: Tony Schmitz
Star Route
Lindrith, New Mexico 87029

31044

Job No. ____
Lab/Invoice No. 31490261
Date of Report 04/26/89
Reviewed By L. Wareshaw

Project: Lindrith Evaporation Pond

Location: Lindrith, New Mexico — Sampled By: R. Yongosona/WT — Date: 04/24/89

Type of Aggregate: Clayey Sand — Submitted By: R. Yongosona/WT — Date: 04/24/89

Source of Aggregate: Mid of Evap Pond 0-3' — Authorized By: Client — Date: 04/24/89

Sieve Analysis, ASTM C136-

Sieve Size	% Passing Accumulative	Specification
4"		
3"		
2"		
1½"		
1⅛"		
1"		
¾"		
½"		
⅜"		
¼"		
No. 4		
8		
10		
16		
30		
40		
50		
100		
Finer than 200 ASTM C117-		

Test Standards are ASTM unless otherwise noted.

Test		Result	Specification	Test STD
Fineness Modulus				C125-
Dry Rodded Unit Weight, pcf				C29-
Lightweight Pieces, %				C123-
Clay Lumps and Friable Particles				C142-
Organic Impurities				C40-
Sand Equivalent Value				C2419-
Resistance to Abrasion	% Wear, rev.			C131-
	% Wear, 500 rev.			Grading
	% Wear, rev.			C535-
	% Wear, 1000 rev.			Grading
Scratch Hardness, % by: Weight | Count		|	|	C235-
Fractured Faces, % by: Weight | Count		|	|	
Liquid Limit | Plasticity Index		|	|	D4318-
Cleanness Value				Calif. 227-
Moisture Density Relations	Max. Dry Density, pcf	113.9	☒ D698- A ☐ D1557- ☐ AASHTO T99- ☐ AASHTO T180-	
	Optimum Moisture, %	14.5		
	Method	A		
Specific Gravity	Absorption, %		☐ C127- ☐ C128-	
	Bulk (Dry)			
	Bulk (SSD)			
	Apparent			

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WESTERN TECHNOLOGIES INC.

400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

FIELD REPORT

REVIEW OF EARTHWORK CONSTRUCTION

Job No. _____

Client Tony Schmitz 31044 Invoice No. 31490261

Project Lindrith Evaporation Pond Report No. _____ Date 04/25/89

Location Lindrith, New Mexico Report By R. Yougsona/WT Date 04/24/89

Prime Contractor Client Superintendent Tony Schmitz

Earthwork Subcontractor _____ Superintendent _____

Earthwork in progress and/or completed since last report: Contractor had top foot of site excavated in accordance with geotechnical report. They will try to excavate material for N. and E. dike embankments saturate with water to try and reach optimum moisture content for sub-base fill.

Unexpected site conditions: N/A

Sampling and/or testing performed: Pick-up sample to run Proctor.

Conformance of earthwork materials, operations and/or test results to project requirements: N/A

Person/persons notified of nonconformance to project requirements: N/A

Nonconformance corrected: N/A

Instructions or information received/from: Will call when they are ready for testing.

Tech./Eng'r time on project today: _____ No. of visits today: 1

Time and date for next visit: Will call.

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L. Wanstack
Reviewed By

272

REVIEW OF CONSTRUCTION

Project: Lindrith Evaporation Pond
Rio Arriba County, New Mexico

Job No. _____

Lab/Invoice No. 31490370

Report No. _____ Date 06/13/89

Report By H. Kuebler/WT Date 06/09/89 Reviewed By T. Wiersma Date 06/13/89

Prime Contractor Tony Schmitz Construction Superintendent Tony Schmitz

Subcontractor _____ Superintendent _____

Work in progress and/or completed since last report: Tony Schmitz Construction continued berm building.

Unexpected site conditions: None

Sampling and/or testing performed: Compaction tests and visual observation

Conformance of materials, operations and/or test results to project requirements: Compaction tests indicated adequate compaction.

Person/persons notified of nonconformance to project requirements: N/A

Nonconformance corrected: N/A

Instructions or information received/from: Tony Schmitz

Weather: _____

Technician/Engineer time on project today: _____

No. of visits today: 1 Time and date for next visit: 06/12/89

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WESTERN TECHNOLOGIES INC.

400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

FIELD REPORT

REVIEW OF EARTHWORK CONSTRUCTION

Job No. _____

Client Tony Schmitz Construction 31044 Invoice No. 31490370

Project Lindrith Evaporation Pond Report No. _____ Date 06/13/89

Location Rio Arriba County, New Mexico Report By H. Kuebler/WT Date 06/08/89

Prime Contractor Tony Schmitz Construction Superintendent Tony Schmitz

Earthwork Subcontractor _____ Superintendent _____

Earthwork in progress and/or completed since last report: Tony Schmitz Construction continued berm building.

Unexpected site conditions: Afternoon rain stopped project.

Sampling and/or testing performed: Compaction tests and visual observation. A proctor sample from the borrow area was brought to the Farmington Lab.

Conformance of earthwork materials, operations and/or test results to project requirements: Compaction tests indicated adequate compaction

Person/persons notified of nonconformance to project requirements: N/A

Nonconformance corrected: N/A

Instructions or information received/from: Tony Schmitz, job will continue 06/09/89

Tech./Eng'r time on project today: _____ No. of visits today: 1

Time and date for next visit: 06/09/89

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L. Wiesbach
Reviewed By

272

WESTERN TECHNOLOGIES INC.

400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

LABORATORY REPORT

PHYSICAL PROPERTIES OF AGGREGATES

Client: Tony Schmitz Construction
Star Route
Lindrith, NM 87029

31044

Job No. ____

Lab/Invoice No. 31490370

Date of Report 06/14/89

Reviewed By L. Wansbrough

Project: Lindrith Evaporation Pond

Location: Rio Arriba County, NM — Sampled By: H. Kuebler/WT — Date: 06/08/89

Type of Aggregate: Clay — Submitted By: H. Kuebler/WT — Date: 06/08/89

Source of Aggregate: Borrow Area, E. of Site — Authorized By: Client — Date: 06/08/89

Sieve Analysis, ASTM C136-

Sieve Size	% Passing Accumulative	Specification
4"		
3"		
2"		
1½"		
1⅛"		
1"		
¾"		
½"		
⅜"		
¼"		
No. 4		
8		
10		
16		
30		
40		
50		
100		
Finer than 200 ASTM C117-		

Test Standards are ASTM unless otherwise noted.

Test		Result	Specification	Test STD
Fineness Modulus				C125-
Dry Rodded Unit Weight, pcf				C29-
Lightweight Pieces, %				C123-
Clay Lumps and Friable Particles				C142-
Organic Impurities				C40-
Sand Equivalent Value				C2419-
Resistance to Abrasion	% Wear, rev.			C131- Grading
	% Wear, 500 rev.			
	% Wear, rev.			C535- Grading
	% Wear, 1000 rev.			
Scratch Hardness, % by: Weight | Count		|	|	C235-
Fractured Faces, % by: Weight | Count		|	|	
Liquid Limit | Plasticity Index		|	|	D4318-
Cleanness Value				Calif. 227-
Moisture Density Relations	Max. Dry Density, pcf	115.3	☒ D698-A ☐ D1557- ☐ AASHTO T99- ☐ AASHTO T180-	
	Optimum Moisture, %	13.3		
	Method	A		
Specific Gravity	Absorption, %		☐ C127- ☐ C128-	
	Bulk (Dry)			
	Bulk (SSD)			
	Apparent			

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WESTERN TECHNOLOGIES INC.
400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz Construction
Star Route
Lindrith, NM 87029

31044

Job No.
Lab/Invoice No. 31490370
Date 06/13/89
Reviewed By L. Wenstrom

Project: Lindrith Evaporation Pond
Location: Rio Arriba County, New Mexico
Type of Material: Clay — Authorized By: Clay — Date: 06/12/89
Source of Material: Native — Tested/Calc. By: H. Kuebler/WT
Moisture/Density Relationship: ASTM D698 Meth. A — Test Locations Designated By: H. Kubbler/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	06/12/89	S.E. corner of berm	99'
2	06/12/89	S.W. corner of S. Berm	99'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics		Relative Compaction %	Within Specs. †	Comments *
				Moisture %	Dry Density pcf			
1		14.9	113.5	14.9	116.2	100	Yes	1-10-13-15
2		14.9	113.5	15.8	110.5	97	Yes	1-10-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. Opt. Moist. ± 3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Berm

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

Copies to: Client (3)
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WESTERN TECHNOLOGIES INC.

400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz Construction
Star Route
Lindrith, NM 87029

31044

Job No.
Lab/Invoice No. 31490370
Date 06/13/89
Reviewed By L. Wiesbrock

Project: Lindrith Evaporation Pond
Location: Rio Arriba County, New Mexico
Type of Material: Clay — Authorized By: Client — Date: 06/09/89
Source of Material: Native — Tested/Calc. By: H. Kuebler/WT
Moisture/Density Relationship: ASTM D698 — Meth.: A — Test Locations Designated By: H. Kuebler/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	06/09/89	Center of E. berm	99'
2	06/09/89	S.E. corner of S. berm	98.5'
3	06/09/89	85' E. of S.W. corner of S. berm	98'
4	06/09/89	S.W. corner of S. berm	98'
5	06/09/89	90' S. of N.W. corner of N. berm	99'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics: Moisture %	In-Place Characteristics: Dry Density pcf	Relative Compaction %	Within Specs. ?	Comments *
1		14.9	113.5	17.6	107.5	95	Yes	1-10-13-15
2		14.9	113.5	17.1	111.4	98	Yes	1-10-13-15
3		14.9	113.5	16.4	112.4	99	Yes	1-10-13-15
4		14.9	113.5	13.2	108.5	96	Yes	1-10-13-15
5		14.9	113.5	14.7	117.0	100	Yes	1-10-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. Opt. Moist. + 3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Berm

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

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LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz Construction
Star Route
Lindrith, NM 87029

31044

Job No. ____
Lab/Invoice No. 31490370
Date 06/13/89
Reviewed By L. Wareback

Project: Lindrith Evaporation Pond
Location: Rio Arriba County, New Mexico
Type of Material: Clay — Authorized By: Clay — Date: 06/08/89
Source of Material: Native — Tested/Calc. By: H. Kuebler/WT
Moisture/Density Relationship: ASTM D698 — Meth. A — Test Locations Designated By: H. Kuebler/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	06/08/89	S.E. corner of S. berm	97'
2	06/08/89	S.W. corner of S. berm	98'
3	06/08/89	N.E. corner of N. berm	99'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics: Moisture %	In-Place Characteristics: Dry Density pcf	Relative Compaction %	Within Specs. ?	Comments *
1		14.9	113.5	13.5	114.5	100	Yes	1-10-13-15
2		14.9	113.5	15.4	113.5	100	Yes	1-10-13-15
3		14.9	113.5	15.0	117.0	100	Yes	1-10-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. Opt. Moist. ± 3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other ____
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Berm

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

Copies to: Client (3)
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WESTERN TECHNOLOGIES INC.
400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

FIELD REPORT

REVIEW OF EARTHWORK CONSTRUCTION

Job No. _____

Client Tony Schmitz 31044 Invoice No. 31490261

Project Lindrith Evaporation Pond Report No. _____ Date 04/25/89

Location Lindrith, New Mexico Report By R. Yougsona/WT Date 04/24/89

Prime Contractor Client Superintendent Tony Schmitz

Earthwork Subcontractor _____ Superintendent _____

Earthwork in progress and/or completed since last report: Contractor had top foot of site excavated in accordance with geotechnical report. They will try to excavate material for N. and E. dike embankments saturate with water to try and reach optimum moisture content for sub-base fill.

Unexpected site conditions: N/A

Sampling and/or testing performed: Pick-up sample to run Proctor.

Conformance of earthwork materials, operations and/or test results to project requirements: N/A

Person/persons notified of nonconformance to project requirements: N/A

Nonconformance corrected: N/A

Instructions or information received/from: Will call when they are ready for testing.

Tech./Eng'r time on project today: _____ No. of visits today: 1

Time and date for next visit: Will call.

Copies: Client (3)
/tt

L. Wanstack
Reviewed By

WESTERN TECHNOLOGIES INC.
400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

LABORATORY REPORT

PHYSICAL PROPERTIES OF AGGREGATES

Client: Tony Schmitz
Star Route
Lindrith, New Mexico 87029

31044

Job No. ____
Lab/Invoice No. 31490261
Date of Report 04/26/89
Reviewed By L. Wansbrough

Project: Lindrith Evaporation Pond

Location: Lindrith, New Mexico — Sampled By: R. Yongosona/WT — Date: 04/24/89

Type of Aggregate: Clayey Sand — Submitted By: R. Yongosona/WT — Date: 04/24/89

Source of Aggregate: Mid of Evap Pond 0-3' — Authorized By: Client — Date: 04/24/89

Sieve Analysis, ASTM C136-

Sieve Size	% Passing Accumulative	Specification
4"		
3"		
2"		
1½"		
1⅛"		
1"		
¾"		
½"		
⅜"		
¼"		
No. 4		
8		
10		
16		
30		
40		
50		
100		
Finer than 200 ASTM C117-		

Test Standards are ASTM unless otherwise noted.

Test		Result	Specification	Test STD
Fineness Modulus				C125-
Dry Rodded Unit Weight, pcf				C29-
Lightweight Pieces, %				C123-
Clay Lumps and Friable Particles				C142-
Organic Impurities				C40-
Sand Equivalent Value				C2419-
Resistance to Abrasion	% Wear, rev.			C131-
	% Wear, 500 rev.			Grading
	% Wear, rev.			C535-
	% Wear, 1000 rev.			Grading
Scratch Hardness, % by: Weight | Count		|	|	C235-
Fractured Faces, % by: Weight | Count		|	|	
Liquid Limit | Plasticity Index		|	|	D4318-
Cleanness Value				Calif. 227-
Moisture Density Relations	Max. Dry Density, pcf	113.9	☒ D698- A ☐ D1557- ☐ AASHTO T99- ☐ AASHTO T180-	
	Optimum Moisture, %	14.5		
	Method	A		
Specific Gravity	Absorption, %		☐ C127- ☐ C128-	
	Bulk (Dry)			
	Bulk (SSD)			
	Apparent			

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REVIEW OF CONSTRUCTION

Project: Lindrith Evaporation Pond, Lindrith, New Mexico — 31044 — Job No. _____

Lab/Invoice No. 31490261

Report No. _____ Date 04/28/89

Report By R. Yongosona/WT Date 04/27/89 Reviewed By L. Waresback Date 04/28/89

Prime Contractor Tony Schmitz Superintendent Tony Schmitz

Subcontractor _____ Superintendent _____

Work in progress and/or completed since last report: Arrived on site and contractor was in the process of compacting the N. and E. dike embankments. Compaction equipment used was a sheepsfoot roller, loaded scraper and a grader. Approximately 6" of backfill was added to each dike.

Unexpected site conditions: None

Sampling and/or testing performed: Four F.D.T.'s were performed. Moisture samples brought in for oven drying.

Conformance of materials, operations and/or test results to project requirements: Test results using oven dry moistures show adequate compaction was achieved.

Person/persons notified of nonconformance to project requirements: Tony Schmitz

Nonconformance corrected: Oven dry moisture samples were used to correlate nuclear densometer and adequate moisture contents and compaction were achieved.

Instructions or information received/from: Tony Schmitz/Layne Waresback

Weather: Cloudy & Windy. Temperature in 50's

Technician/Engineer time on project today: _____

No. of visits today: 1 Time and date for next visit: _____

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WESTERN TECHNOLOGIES INC.

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(505) 327-4966

LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz
Star Route
Lindrith, New Mexico 87029

Job No. 31044
Lab/Invoice No. 31490261
Date 04/28/89
Reviewed By L. Waresback

Project: Lindrith Evaporation Pond
Location: Lindrith, New Mexico
Type of Material: Clay/Reddish Brown — Authorized By: Client — Date: 04/27/89
Source of Material: On-Site — Tested/Calc. By: R. Yongosona/WT
Moisture/Density Relationship: D968 Meth. A — Test Locations Designated By: R. Yongosona/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	04/27/89	235' W. of N.E. corner of dike	98'
2	04/27/89	160' S. of N.E. corner of dike	98'
3R	04/27/89	Retest of Test #1, 04/27/89	98'
4R	04/27/89	Retest of Test #2, 04/27/89	98'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics		Relative Compaction %	Within Specs. ?	Comments *
				Moisture %	Dry Density pcf			
1		14.5	113.9	18.9	106.0	93	No	2-4-10-15
2		14.5	113.9	19.5	102.5	90	No	2-4-10-15
3R		14.5	113.9	12.7	108.3	95	Yes	2-4-10-15
4R		14,5	113.9	12.1	114.2	100+	Yes	2-4-10-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. _____
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other _____
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Dike

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

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Note: Moisture contents for tests 3R and 4R are oven dry moistures.

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LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz
Star Route
Lindrith, New Mexico 87029

Job No. 31044
Lab/Invoice No. 31490261
Date *05/08/89
Reviewed By S.A. Madrid

Project: Lindrith Evaporation Pond
Location: Rio Arriba County, New Mexico
Type of Material: Clay
Authorized By: Client Date: 05/05/89
Source of Material: Native
Tested/Calc. By: R. Day/WT
Moisture/Density Relationship: ASTM D 698 Meth. A
Test Locations Designated By: Client

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	05/05/89	60' W. of N.E. corner of dike	98"
2*	05/05/89	In N.W. key way (arroyo)	92'
3*	05/05/89	In S.W. key way (arroyo)	86.3'
4*	05/05/89	75' N. of S.W. corner of dike	86.3'
5	05/05/89	90' N. of S.E. corner of dike	97'
6R	05/05/89	Retest of Test #2, 05/05/89	92'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics: Moisture %	In-Place Characteristics: Dry Density pcf	Relative Compaction %	Within Specs. ?	Comments *
1		14.9	133.5	15.0	116.0	100+	Yes	1-4-8-15
2*		14.9	133.5	20.8	104.2	91	No	1-4-8-13-15
3*		14.9	133.5	16.1	111.5	98	Yes	1-4-8-15
4*		14.9	133.5	13.6	117.5	100+	Yes	1-4-8-15
5		14.9	133.5	14.4	116.2	100+	Yes	1-4-10-15
6R		14.9	133.5	13.1	108.7	96	Yes	1-4-8-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
*13. Opt. Moist. ± 3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other _____
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Fill
*100'= Top of Bottom of Pond

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

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*Revised 05/10/89 to show Optimum Moisture requirements.

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LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz
Star Route
Lindrith, NM 87029

31044

Job No.
Lab/Invoice No. 31490261
Date 05/09/89
Reviewed By L. Wiesbach

Project: Lindrith Evaporation Pond
Location: Rio Arriba County, New Mexico
Type of Material: Clay
Authorized By: Client Date: 05/08/89
Source of Material: Native
Tested/Calc. By: G. Anaya/WT
Moisture/Density Relationship: ASTM D 698 Meth. A
Test Locations Designated By: Client

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	05/08/89	N.W. Keyway (arroyo) 120' S. from N.W. corner of dike	91'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics		Relative Compaction %	Within Specs. ?	Comments *
				Moisture %	Dry Density pcf			
1		14.9	113.5	8.5	100.0	89	No	1-4-8-13-14

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. Opt. Moist. ± 3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Bottom of Pond

Note: *Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.*

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REVIEW OF CONSTRUCTION

Project: Lindrith Evaporation Pond, Rio Arriba County, New Mexico — 31044 — Job No. _____

Lab/Invoice No. 31490261

Report No. _____ Date 05/15/89

Report By H. Kuebler/WT Date 05/11/89 Reviewed By [signature] Date 05/15/89

Prime Contractor Tony Schmitz Superintendent Tony Schmitz

Subcontractor _____ Superintendent _____

Work in progress and/or completed since last report: Contractor began to fill depression areas along N.W. corner and S.E. corner of pond site.

Unexpected site conditions: None

Sampling and/or testing performed: One Permablity, Compaction Tests.

Conformance of materials, operations and/or test results to project requirements: Compactions tests indicated fill was compacted to compaction requirements.

Person/persons notified of nonconformance to project requirements: N/A

Nonconformance corrected: N/A

Instructions or information received/from: During phone conversation with Larry Cynova, WTI, the specification for fill below 10 feet was changed from 100% compaction to 98% compaction of ASTM D698.

Weather: Clear & Windy

Technician/Engineer time on project today: 5 hours

No. of visits today: 1 Time and date for next visit: _____

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LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz
Star Route
Lindrith, NM 87029

31044

Job No.
Lab/Invoice No. 31490261
Date 05/15/89
Reviewed By L. Wansbach

Project: Lindrith Evaporation Pond
Location: Rio Arriba County, New Mexico
Type of Material: Clay — Authorized By: Client — Date: 05/11/89
Source of Material: Native — Tested/Calc. By: H. Kuebler/WT
Moisture/Density Relationship: ASTM D698 Meth. A — Test Locations Designated By: H. Kuebler/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1R	05/11/89	Retest of Test #1, 05/08/89	87'
2	05/11/89	S.E. arroyo, 150' N. of S.E. corner of dike	80'
3	05/11/89	N.W. arroyo, 120' S. of N.W. corner of dike	87'
4R	05/11/89	Retest of Test #2, 05/11/89	80'
5	05/11/89	N.W. arroyo, 120' S. of N.W. corner of dike	88.5'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics		Relative Compaction %	Within Specs. ?	Comments *
				Moisture %	Dry Density pcf			
1R		14.9	113.5	13.8	119.5	100	Yes	1-9-13-15
2		14.9	113.5	12.3	109.5	97	No	1-9-13-15
3		14.9	113.5	12.4	117.0	100	Yes	1-9-13-15
4		14.9	113.5	14.0	113.2	100	Yes	1-9-13-15
5R		14.9	113.5	17.9	111.7	98	Yes	1-9-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. Opt. Moist. ± 3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Berm

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

Copies to: Client (3)
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LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz
Star Route
Lindrith, NM 87029

Job No. 31044
Lab/Invoice No. 31490261
Date 05/15/89
Reviewed By L. Wanebach

Project: Lindrith Evaporation Pond
Location: Rio Arriba County, New Mexico
Type of Material: Clay
Authorized By: Client Date: 05/11/89
Source of Material: Native
Tested/Calc. By: H. Kuebler/WT
Moisture/Density Relationship: ASTM D698 Meth. A
Test Locations Designated By: H. Kuebler/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
6	05/11/89	S.E. arroyo, 150' W. of S.E. corner of dike	81'
7	05/11/89	N.W. arroyo, 120' S. of N.W. corner of dike	89'
8	05/11/89	S.E. arroyo, 150' N. of S.E. corner of dike	82'
9R	05/11/89	Retest of Test #8, 05/11/89	82'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics		Relative Compaction %	Within Specs. ?	Comments *
				Moisture %	Dry Density pcf			
6		14.9	113.5	17.0	110.7	98	Yes	1-9-13-15
7		14.9	113.5	15.2	112.9	100	Yes	1-9-13-15
8		14.9	113.5	15.1	103.4	91	No	1-9-13-15
9R		14.9	113.5	11.9	115.7	100	Yes	1-9-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. Opt. Moist. ± 3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum: 100'=Top of Berm

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

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FIELD REPORT

REVIEW OF EARTHWORK CONSTRUCTION

Job No. _____

Client Tony Schmitz Construction 31044 Invoice No. 31490261

Project Evaporation Ponds - Lindrith Report No. _____ Date 05/19/89

Location Rio Arriba County, New Mexico Report By H. Kuebler/WT Date 05/12/89

Prime Contractor Client Superintendent Tony Schmitz

Earthwork Subcontractor Client Superintendent Tony Schmitz

Earthwork in progress and/or completed since last report: Crew continued to fill arroyos in N.W. and S.E. section of pond site.

Unexpected site conditions: None

Sampling and/or testing performed: Compaction Tests

Conformance of earthwork materials, operations and/or test results to project requirements: Compaction tests indicate fill was being placed to compaction requirements.

Person/persons notified of nonconformance to project requirements: N/A

Nonconformance corrected: N/A

Instructions or information received/from: Tony Schmitz - Work will begin 8:30 a.m. to 9:00 a.m. on Monday, 05/15/89

Tech./Eng'r time on project today: _____ No. of visits today: _____

Time and date for next visit: _____

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S. C. Madrid
Reviewed By

WESTERN TECHNOLOGIES INC.

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LABORATORY REPORT

PHYSICAL PROPERTIES OF AGGREGATES

Client: Tony Schmitz Construction
Star Route
Lindrith, NM 87029

31044

Job No. ____

Lab/Invoice No. 31490261

Date of Report 05/23/89

Reviewed By L. Waresback

Project: Lindrith Evaporation Pond

Location: Rio Aribba County, NM — Sampled By: H. Kuebler/WT — Date: 05/12/89

Type of Aggregate: Clay — Submitted By: H. Kuebler/WT — Date: 05/12/89

Source of Aggregate: Native — Authorized By: Client — Date: 05/12/89

Sieve Analysis, ASTM C136-

Sieve Size	% Passing Accumulative	Specification
4"		
3"		
2"		
1½"		
1⅛"		
1"		
¾"		
½"		
⅜"		
¼"		
No. 4		
8		
10		
16		
30		
40		
50		
100		
Finer than 200 ASTM C117-		

Test Standards are ASTM unless otherwise noted.

Test		Result	Specification	Test STD
Fineness Modulus				C125-
Dry Rodded Unit Weight, pcf				C29-
Lightweight Pieces, %				C123-
Clay Lumps and Friable Particles				C142-
Organic Impurities				C40-
Sand Equivalent Value				C2419-
Resistance to Abrasion	% Wear, rev.			C131-
	% Wear, 500 rev.			Grading
	% Wear, rev.			C535-
	% Wear, 1000 rev.			Grading
Scratch Hardness, % by: Weight | Count		|	|	C235-
Fractured Faces, % by: Weight | Count		|	|	
Liquid Limit | Plasticity Index		|	|	D4318-
Cleanness Value				Calif. 227-
Constant Head Permeability cm/sec		9.8×10^{-8}		
Moisture Density Relations	Max. Dry Density, pcf		☐ D698- ☐ D1557- ☐ AASHTO T99- ☐ AASHTO T180-	
	Optimum Moisture, %			
	Method			
Specific Gravity	Absorption, %		☐ C127- ☐ C128-	
	Bulk (Dry)			
	Bulk (SSD)			
	Apparent			

95% compaction at optimum moisture content

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LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz
Star Route
Lindrith, NM 87029

Job No. 31044
Lab/Invoice No. 31490261
Date 05/15/89
Reviewed By L. Wanebach

Project: Lindrith Evaporation Pond
Location: Rio Arriba County, New Mexico
Type of Material: Clay
Authorized By: Client Date: 05/12/89
Source of Material: Native
Tested/Calc. By: H. Kuebler/WT
Moisture/Density Relationship: ASTM D698 Meth. A
Test Locations Designated By: H. Kuebler/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	05/12/89	N.W. arroyo, 120' S. of N.E. corner of berm	90'
2	05/12/89	S.E. arroyo, 150' N. of S.E. corner of berm	82'
3	05/12/89	N.W. arroyo, 120' S. of N.W. corner of berm	90'
4	05/12/89	S.E. arroyo, 150' N. of S.E. corner of berm	83'
5R	05/12/89	Retest of Test #4, 05/12/89	83'
6	05/12/89	N.W. corner arroyo, 120' S. of N.W. corner berm	92'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics		Relative Compaction %	Within Specs. †	Comments *
				Moisture %	Dry Density pcf			
1		14.9	113.5	16.0	114.7	100	Yes	1-9-13-15
2		14.9	113.5	17.5	112.8	100	Yes	1-9-13-15
3		14.9	113.5	13.4	110.7	98	Yes	1-9-13-15
4		14.9	113.5	12.7	110.5	97	No	1-9-13-15
5R		14.9	113.5	11.9	111.7	98	Yes	1-9-13-15
6		14.9	113.5	15.2	110.8	98	Yes	1-9-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. Opt. Moist. ± 3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Berm

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

Copies to: Client (3)
Billing (1)
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Farmington, New Mexico 87401
(505) 327-4966

FIELD REPORT

REVIEW OF EARTHWORK CONSTRUCTION

Job No. _____

Client Tony Schmitz Construction 31044 Invoice No. 31490261

Project Lindrith Evaporation Ponds Report No. _____ Date 05/19/89

Location Rio Arriba County, New Mexico Report By H. Kuebler/WT Date 05/15/89

Prime Contractor Tony Schmitz Construction Superintendent Tony Schmitz

Earthwork Subcontractor Tony Schmitz Construction Superintendent Tony Schmitz

Earthwork in progress and/or completed since last report: Crew continued to fill N.W. and S.E. arroyos in pond site.

Unexpected site conditions: None

Sampling and/or testing performed: Compaction Tests and Visual Observation

Conformance of earthwork materials, operations and/or test results to project requirements: Compaction tests indicated adequate compaction.

Person/persons notified of nonconformance to project requirements: N/A

Nonconformance corrected: N/A

Instructions or information received/from: Tony Schmitz - Job will start at 8:30 a.m., 05/16/89

Tech./Eng'r time on project today: _____ No. of visits today: _____

Time and date for next visit: _____

Copies: Client (3)
Billing (1)
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S.a. madrid
Reviewed By

WESTERN TECHNOLOGIES INC.

400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz Construction
Star Route
Lindrith, New Mexico 87029

Job No. 31044
Lab/Invoice No. 31490261
Date 05/19/89
Reviewed By Sa madrid

Project: Lindrith Evaporation Ponds
Location: Rio Arriba County, New Mexico
Type of Material: Clay — Authorized By: Client — Date: 05/15/89
Source of Material: Native — Tested/Calc. By: H. Kuebler/WT
Moisture/Density Relationship: ASTM D698 Meth. A — Test Locations Designated By: H. Kuebler/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	05/15/89	S.E. corner arroyo, 150' N. of S.E. corner of dike	84'
2R	05/15/89	Retest of Test #1, 05/15/89	84
3	05/15/89	Center of W. berm	87'
4	05/15/89	S.E. corner arroyo, 150' N. of S.E. corner of dike	84'
5R	05/15/89	Retest of Test #4, 05/15/89	84'
6	05/15/89	S.E. corner arroyo, 150' N. of S.E. corner of dike	85'
7R	05/15/89	Restes to Test #6, 05/15/89	84'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics		Relative Compaction %	Within Specs. †	Comments *
				Moisture %	Dry Density pcf			
1		14.9	113.5	17.6	105.0	93	No	1-9-13-15
2R		14.9	113.5	14.7	117.7	100+	Yes	1-9-13-15
3		14.9	113.5	17.3	112.5	99	Yes	1-9-13-15
4		14.9	113.5	14.7	107.7	95	No	1-9-13-15
5R		14.9	113.5	14.1	113.5	100	Yes	1-9-13-15
6		14.9	113.5	12.1	106.2	94	No	1-9-13-15
7R		14.9	113.5	13.9	113.7	100	Yes	1-9-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. Opt. Moist. ±3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Berm

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

Copies to: Client (3)
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WESTERN TECHNOLOGIES INC.
400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

FIELD REPORT

REVIEW OF EARTHWORK CONSTRUCTION

Job No. _____

Client Tony Schmitz Construction 31044 Invoice No. 31490261

Project Lindrith Evaporation Ponds Report No. _____ Date 05/19/89

Location Rio Arriba County, New Mexico Report By H. Kuebler/WT Date 05/16/89

Prime Contractor Tony Schmitz Construction Superintendent Tony Schmitz

Earthwork Subcontractor Tony Schmitz Construction Superintendent Tony Schmitz

Earthwork in progress and/or completed since last report: Crew began to build west and south berms.

Unexpected site conditions: None

Sampling and/or testing performed: Compaction Tests

Conformance of earthwork materials, operations and/or test results to project requirements: Compaction tests indicated adequate compaction.

Person/persons notified of nonconformance to project requirements: N/A

Nonconformance corrected: N/A

Instructions or information received/from: Work will begin at 8:30 a.m., 05/17/89

Tech./Eng'r time on project today: _____ No. of visits today: _____

Time and date for next visit: _____

Copies: Client (3)
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S. A. Madrid
Reviewed By

WESTERN TECHNOLOGIES INC.

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Farmington, New Mexico 87401
(505) 327-4966

LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz Construction
Star Route
Lindrith, NM 87029

Job No. 31044

Lab/Invoice No. 31490261

Date 05/19/89

Reviewed By S a Mudud

Project: Lindrith Evaporation Ponds

Location: Rio Arriba County, New Mexico

Type of Material: Clay — Authorized By: Client — Date: 05/16/89

Source of Material: Native — Tested/Calc. By: H. Kuebler/WT

Moisture/Density Relationship: ASTM D698 Meth. A — Test Locations Designated By: H. Kuebler/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	05/16/89	S.E. arroyo, 150' N. of S.E. corner of dike	86'
2	05/16/89	S.E. arroyo, 150' N. of S.E. corner of dike	87'
3	05/16/89	S.E. arroyo, 150' N. of S.E. corner of dike	88'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics		Relative Compaction %	Within Specs. ?	Comments *
				Moisture %	Dry Density pcf			
1		14.9	113.5	13.5	111.7	98	Yes	1-9-13-15
2		14.9	113.5	12.4	111.0	98	Yes	1-9-13-15
3		14.9	113.5	13.4	111.8	98	Yes	1-9-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. Opt. Moist. ± 3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Berm

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

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(505) 327-4966

FIELD REPORT

REVIEW OF EARTHWORK CONSTRUCTION

Job No. _____

Client Tony Schmitz Construction 31044 Invoice No. 31490261

Project Lindrith Evaporation Ponds Report No. _____ Date 05/19/89

Location Rio Arriba County, New Mexico Report By H. Kuebler/WT Date 05/17/89

Prime Contractor Tony Schmitz Construction Superintendent Tony Schmitz

Earthwork Subcontractor Tony Schmitz Construction Superintendent Tony Schmitz

Earthwork in progress and/or completed since last report: Crew continued to build west and south berms.

Unexpected site conditions: None

Sampling and/or testing performed: Compaction Tests

Conformance of earthwork materials, operations and/or test results to project requirements: Compaction tests indicated adequate compaction.

Person/persons notified of nonconformance to project requirements: N/A

Nonconformance corrected: N/A

Instructions or information received/from: Work will begin at 8:30 a.m., 05/18/89

Tech./Eng'r time on project today: _____ No. of visits today: _____

Time and date for next visit: _____

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S.A. Madrid
Reviewed By

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(505) 327-4966

LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz Construction
Star Route
Lindrith, NM 87029

Job No. 31044

Lab/Invoice No. 31490261

Date 05/19/89

Reviewed By S.A. Madrid

Project: Lindrith Evaporation Ponds

Location: Rio Arriba County, New Mexico

Type of Material: Clay — Authorized By: Client — Date: 05/17/89

Source of Material: Native — Tested/Calc. By: H. Kuebler/WT

Moisture/Density Relationship: ASTM D698 Meth. A — Test Locations Designated By: H. Kuebler/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	05/17/89	100' W. of S.E. corner of S. berm	88'
2	05/17/89	60' N. of S.E. corner of S. berm	88'
3R	05/17/89	Retest of Test #1, 05/17/89	88'
4	05/17/89	90' S. of N.W. corner of N. berm	93'
5R	05/17/89	Retest of Test #3, 05/17/89	88'
6	05/17/89	70' S. of N.W. corner of N. berm	93'
7	05/17/89	60' N. of S.W. corner of S. berm	88'
8	05/17/89	Center of S. berm	88'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics		Relative Compaction %	Within Specs. ?	Comments *
				Moisture %	Dry Density pcf			
1		14.9	113.5	15.8	109.4	96	No	1-9-13-15
2		14.9	113.5	14.8	115.4	100+	Yes	1-9-13-15
3R		14.9	113.5	15.8	107.5	95	No	1-9-13-15
4		14.9	113.5	13.9	117.2	100+	Yes	1-9-13-15
5R		14.9	113.5	16.9	112.9	100	Yes	1-9-13-15
6		14.9	113.5	16.6	113.3	100	Yes	1-9-13-15
7		14.9	113.5	15.4	117.0	100+	Yes	1-9-13-15
8		14.9	113.5	13.2	114.8	100+	Yes	1-9-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. Opt. Moist. ± 3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Berm

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

Copies to: Client (3)
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WESTERN TECHNOLOGIES INC.
400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

FIELD REPORT

REVIEW OF EARTHWORK CONSTRUCTION

Job No.

Client Tony Schmitz Construction — Invoice No. 31490261

Project Lindrith Evaporation Pond — Report No. — Date 05/30/89

Location Rio Arriba County, New Mexico — Report By H. Kuebler/WT — Date 05/18/89

Prime Contractor Client — Superintendent Tony Schmitz

Earthwork Subcontractor Client — Superintendent Tony Schmitz

Earthwork in progress and/or completed since last report: Tony Schmitz Construction continued W. and S. berm construction.

Unexpected site conditions: None

Sampling and/or testing performed: Compaction test and visual observation.

Conformance of earthwork materials, operations and/or test results to project requirements: Compaction tests indicated compacted fill met compaction requirements.

Person/persons notified of nonconformance to project requirements: N/A

Nonconformance corrected: N/A

Instructions or information received/from: Tony Schmitz

Tech./Eng'r time on project today: — No. of visits today:

Time and date for next visit:

Copies: Client (3)
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L. Wareshack
Reviewed By

WESTERN TECHNOLOGIES INC.

400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz Construction
Star Route
Lindrith, NM 87029

Job No. 31044
Lab/Invoice No. 31490261
Date 05/30/89
Reviewed By L. Wansbach

Project: Evaporation Pond - Lindrith
Location: Rio Arriba County, New Mexico
Type of Material: Clay
Authorized By: Client Date: 05/18/89
Source of Material: Native
Tested/Calc. By: H. Kuebler/WT
Moisture/Density Relationship: ASTM D698 Meth. A
Test Locations Designated By: Client

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	05/18/89	Center of S. berm	89'
2	05/18/89	Center of W. berm	89'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics		Relative Compaction %	Within Specs. ?	Comments *
				Moisture %	Dry Density pcf			
1		14.9	113.5	15.9	111.3	98	Yes	1-9-13-15
2		14.9	113.5	12.3	120.2	100+	Yes	1-9-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. Opt. Moist. ± 3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Berm

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

Copies to: Client (3)
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WESTERN TECHNOLOGIES INC.

400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

FIELD REPORT

REVIEW OF EARTHWORK CONSTRUCTION

Job No. _____

Client Tony Schmitz Construction — Invoice No. 31490261

Project Lindrith Evaporation Pond — Report No. _____ Date 05/30/89

Location Rio Arriba County, New Mexico — Report By H. Kuebler/WT Date 05/19/89

Prime Contractor Client — Superintendent Tony Schmitz

Earthwork Subcontractor Client — Superintendent Tony Schmitz

Earthwork in progress and/or completed since last report: Tony Schmitz Construction continued to build W. and S. berms.

Unexpected site conditions: None

Sampling and/or testing performed: Compaction tests and visual observation.

Conformance of earthwork materials, operations and/or test results to project requirements: Compaction tests indicated berm fill was being place according to compaction requirements.

Person/persons notified of nonconformance to project requirements: N/A

Nonconformance corrected: N/A

Instructions or information received/from: Tony Schmitz

Tech./Eng'r time on project today: _____ No. of visits today: _____

Time and date for next visit: _____

Copies: Client (3)
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L. Wansbach
Reviewed By

WESTERN TECHNOLOGIES INC.

400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz Construction
Star Route
Lindrith, NM 87029

Job No. 31044
Lab/Invoice No. 31490261
Date 05/30/89
Reviewed By L. Waresbach

Project: Evaporation Pond - Lindrith
Location: Rio Arriba County, New Mexico
Type of Material: Clay
Authorized By: Client Date: 05/19/89
Source of Material: Native
Tested/Calc. By: H. Kuebler/WT
Moisture/Density Relationship: ASTM D698 Meth. A
Test Locations Designated By: H. Kuebler/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	05/19/89	140' W. of S.E. corner of S. berm	91'
2	05/19/89	80' S. of N.W. corner of N. berm	94'
3	05/19/89	50' N. of S.W. corner of S. berm	91'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics		Relative Compaction %	Within Specs. ?	Comments *
				Moisture %	Dry Density pcf			
1		14.9	113.5	14.2	115.2	100	Yes	1-10-13-15
2		14.9	113.5	14.2	116.0	100	Yes	1-10-13-15
3		14.9	113.5	17.0	112.8	100	Yes	1-10-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. Opt. Moist. ± 3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density, AASHTO T-224
18. Other
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Berm

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

Copies to: Client (3)
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WESTERN TECHNOLOGIES INC.
400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz Construction
Star Route
Lindrith, NM 87029

Job No. 31044
Lab/Invoice No. 31490261
Date 05/30/89
Reviewed By L. Waresback

Project: Evaporation Pond - Lindrith
Location: Rio Arriba County, New Mexico
Type of Material: Clay
Authorized By: Client Date 05/22/89
Source of Material: Native
Tested/Calc. By: H. Kuebler/WT
Moisture/Density Relationship: ASTM D698 Meth. A
Test Locations Designated By: H. Kuebler/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	05/22/89	80' W. of S.E. corner of S. berm	91'
2	05/22/89	60' S. of N.W. corner of N. berm	95'
3	05/22/89	40' E. of S.W. corner of S. berm	91'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics		Relative Compaction %	Within Specs. ?	Comments *
				Moisture %	Dry Density pcf			
1		14.9	113.5	17.0	109.0	96	Yes	1-10-13-15
2		14.9	113.5	14.1	110.0	97	Yes	1-10-13-15
3		14.9	113.5	14.2	109.2	96	Yes	1-10-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. Opt. Moist ± 3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Berm

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

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(505) 327-4966

FIELD REPORT

REVIEW OF EARTHWORK CONSTRUCTION

Job No. _____

Client Tony Schmitz Construction — Invoice No. 31490261

Project Lindrith Evaporation Pond — Report No. _____ Date 05/30/89

Location Rio Arriba County, New Mexico — Report By H. Kuebler/WT Date 05/23/89

Prime Contractor Client — Superintendent Tony Schmitz

Earthwork Subcontractor Client — Superintendent Tony Schmitz

Earthwork in progress and/or completed since last report: Tony Schmitz Construction continued to build S. and W. berms.

Unexpected site conditions: None

Sampling and/or testing performed: Compaction tests and visual observation.

Conformance of earthwork materials, operations and/or test results to project requirements: Compaction tests indicated fill met compaction requirements.

Person/persons notified of nonconformance to project requirements: N/A

Nonconformance corrected: N/A

Instructions or information received/from: I informed Tony Schmitz of my conversation with Larry Cynova/WT on 05/19/89.

Tech./Eng'r time on project today: _____ No. of visits today: _____

Time and date for next visit: _____

Copies: Client (3)
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L. Wansbrough
Reviewed By

WESTERN TECHNOLOGIES INC.

400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz Construction
Star Route
Lindrith, NM 87029

Job No. 31044

Lab/Invoice No. 31490261

Date 05/30/89

Reviewed By L. Waresback

Project: Evaporation Pond - Lindrith

Location: Rio Arriba County, New Mexico

Type of Material: Clay

Authorized By: Client Date: 05/23/89

Source of Material: Native

Tested/Calc. By: H. Kuebler/WT

Moisture/Density Relationship: ASTM D698 Meth. A

Test Locations Designated By: H. Kuebler/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	05/23/89	70' W. of S.E. corner of S. berm	92'
2	05/23/89	20' E. of S.W. corner of S. berm	92'
3	05/23/89	50' S. of N.W. corner of N. berm	96'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics		Relative Compaction %	Within Specs. ?	Comments *
				Moisture %	Dry Density pcf			
1		14.9	113.5	17.7	110.5	97	Yes	1-10-13-15
2		14.9	113.5	13.8	108.5	96	Yes	1-10-13-15
3		14.9	113.5	14.4	109.3	96	Yes	1-10-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. Opt. Moist ± 3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other _____
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Berm

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

Copies to: Client (3)
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WESTERN TECHNOLOGIES INC.

400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

FIELD REPORT

REVIEW OF EARTHWORK CONSTRUCTION

Job No. _____

Client Tony Schmitz Construction — Invoice No. 31490261

Project Lindrith Evaporation Pond — Report No. _____ Date 05/30/89

Location Rio Arriba County, New Mexico — Report By H. Kuebler/WT Date 05/24/89

Prime Contractor Client — Superintendent Tony Schmitz

Earthwork Subcontractor Client — Superintendent Tony Schmitz

Earthwork in progress and/or completed since last report: Tony Schmitz Construction continued to build S. and W. berms.

Unexpected site conditions: None

Sampling and/or testing performed: Compaction tests and visual inspection

Conformance of earthwork materials, operations and/or test results to project requirements: Compaction tests indicated fill met compaction requirements.

Person/persons notified of nonconformance to project requirements: N/A

Nonconformance corrected: N/A

Instructions or information received/from: An average of 10 inches to one foot is being placed per day on W. and S. berms. Tony Schmitz

Tech./Eng'r time on project today: _____ No. of visits today: _____

Time and date for next visit: _____

Copies: Client (3)
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L. Wanesbach
Reviewed By

WESTERN TECHNOLOGIES INC.

400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz Construction
Star Route
Lindrith, NM 87029

Job No. 31044
Lab/Invoice No. 31490261
Date 05/30/89
Reviewed By L. Wansbrough

Project: Evaporation Pond - Lindrith
Location: Rio Arriba County, New Mexico
Type of Material: Clay
Authorized By: Client Date: 05/24/89
Source of Material: Native
Tested/Calc. By: H. Kuebler/WT
Moisture/Density Relationship: ASTM D698 Meth. A
Test Locations Designated By: H. Kuebler/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	05/24/89	90' W. of S.E. corner of S. berm	93'
2	05/24/89	40' E. of S.W. corner of S. berm	93'
3	05/24/89	50' S. of N.W. corner of W. berm	96'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics		Relative Compaction %	Within Specs. ?	Comments *
				Moisture %	Dry Density pcf			
1		14.9	113.5	13.7	109.7	97	Yes	1-10-13-15
2		14.9	113.5	12.4	112.5	99	Yes	1-10-13-15
3		14.9	113.5	18.0	111.4	98	Yes	1-10-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. Opt. Moist ± 3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Berm

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

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400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

FIELD REPORT

REVIEW OF EARTHWORK CONSTRUCTION

Job No. _____

Client Tony Schmitz Construction 31044 Invoice No. 31490370

Project Lindrith Evaporation Pond Report No. _____ Date 06/05/89

Location Rio Arriba County, New Mexico Report By H. Kuebler/WT Date 06/02/89

Prime Contractor Tony Schmitz Construction Superintendent Tony Schmitz

Earthwork Subcontractor Tony Schmitz Construction Superintendent Tony Schmitz

Earthwork in progress and/or completed since last report: Tony Schmitz Construction continued to build south and west berms.

Unexpected site conditions: None

Sampling and/or testing performed: Compaction tests and visual observation

Conformance of earthwork materials, operations and/or test results to project requirements: Compaction tests met compaction requirements.

Person/persons notified of nonconformance to project requirements: N/A

Nonconformance corrected: N/A

Instructions or information received/from: Tony Schmitz

Tech./Eng'r time on project today: _____ No. of visits today: 1

Time and date for next visit: _____

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L. Wanstock
Reviewed By

WESTERN TECHNOLOGIES INC.

400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz Construction
Star Route
Lindrith, NM 87029

31044

Job No. ____
Lab/Invoice No. 31490370
Date 06/13/89
Reviewed By L. Wareshook

Project: Lindrith Evaporation Pond
Location: Rio Arriba County, New Mexico
Type of Material: Clay — Authorized By: Clay — Date: 06/12/89
Source of Material: Native — Tested/Calc. By: H. Kuebler/WT
Moisture/Density Relationship: ASTM D698 Meth. A — Test Locations Designated By: H. Kubbler/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	06/12/89	S.E. corner of berm	99'
2	06/12/89	S.W. corner of S. Berm	99'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics		Relative Compaction %	Within Specs. ?	Comments *
				Moisture %	Dry Density pcf			
1		14.9	113.5	14.9	116.2	100	Yes	1-10-13-15
2		14.9	113.5	15.8	110.5	97	Yes	1-10-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. Opt. Moist. ± 3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other ____
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Berm

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

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WESTERN TECHNOLOGIES INC.
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Farmington, New Mexico 87401
(505) 327-4966

LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz Construction
Star Route
Lindrith, NM 87029

31044

Job No.
Lab/Invoice No. 31490370
Date 06/13/89
Reviewed By L Wiesbrock

Project: Lindrith Evaporation Pond
Location: Rio Arriba County, New Mexico
Type of Material: Clay — Authorized By: Client — Date: 06/09/89
Source of Material: Native — Tested/Calc. By: H. Kuebler/WT
Moisture/Density Relationship: ASTM D698 Meth. A — Test Locations Designated By: H. Kuebler/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	06/09/89	Center of E. berm	99'
2	06/09/89	S.E. corner of S. berm	98.5'
3	06/09/89	85' E. of S.W. corner of S. berm	98'
4	06/09/89	S.W. corner of S. berm	98'
5	06/09/89	90' S. of N.W. corner of N. berm	99'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics		Relative Compaction %	Within Specs. ?	Comments *
				Moisture %	Dry Density pcf			
1		14.9	113.5	17.6	107.5	95	Yes	1-10-13-15
2		14.9	113.5	17.1	111.4	98	Yes	1-10-13-15
3		14.9	113.5	16.4	112.4	99	Yes	1-10-13-15
4		14.9	113.5	13.2	108.5	96	Yes	1-10-13-15
5		14.9	113.5	14.7	117.0	100	Yes	1-10-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. Opt. Moist. ± 3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Berm

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

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Farmington, New Mexico 87401
(505) 327-4966

LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz Construction
Star Route
Lindrith, NM 87029

31044

Job No.
Lab/Invoice No. 31490370
Date 06/13/89
Reviewed By L. Wareback

Project: Lindrith Evaporation Pond
Location: Rio Arriba County, New Mexico
Type of Material: Clay — Authorized By: Clay — Date: 06/08/89
Source of Material: Native — Tested/Calc. By: H. Kuebler/WT
Moisture/Density Relationship: ASTM D698 — Meth.: A — Test Locations Designated By: H. Kuebler/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	06/08/89	S.E. corner of S. berm	97'
2	06/08/89	S.W. corner of S. berm	98'
3	06/08/89	N.E. corner of N. berm	99'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics: Moisture %	In-Place Characteristics: Dry Density pcf	Relative Compaction %	Within Specs. ?	Comments *
1		14.9	113.5	13.5	114.5	100	Yes	1-10-13-15
2		14.9	113.5	15.4	113.5	100	Yes	1-10-13-15
3		14.9	113.5	15.0	117.0	100	Yes	1-10-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. Opt. Moist. ± 3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Berm

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

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(505) 327-4966

LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz Construction
Star Route
Lindrith, NM 87029

31044

Job No.
Lab/Invoice No. 31490370
Date 06/13/89
Reviewed By L. Wareshack

Project: Lindrith Evaporation Pond
Location: Rio Arriba County, New Mexico
Type of Material: Clay — Authorized By: Clay — Date: 06/08/89
Source of Material: Native — Tested/Calc. By: H. Kuebler/WT
Moisture/Density Relationship: ASTM D698 — Meth.: A — Test Locations Designated By: H. Kuebler/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	06/08/89	S.E. corner of S. berm	97'
2	06/08/89	S.W. corner of S. berm	98'
3	06/08/89	N.E. corner of N. berm	99'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics: Moisture %	In-Place Characteristics: Dry Density pcf	Relative Compaction %	Within Specs. †	Comments *
1		14.9	113.5	13.5	114.5	100	Yes	1-10-13-15
2		14.9	113.5	15.4	113.5	100	Yes	1-10-13-15
3		14.9	113.5	15.0	117.0	100	Yes	1-10-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. Opt. Moist. ± 3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Berm

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

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302

REVIEW OF CONSTRUCTION

Project: Lindrith Evaporation Pond
Rio Arriba County, New Mexico

Job No. _____

Lab/Invoice No. 31490370

Report No. _____ Date 06/13/89

Report By H. Kuebler/WT Date 06/09/89 Reviewed By T. Wainwright Date 06/13/89

Prime Contractor Tony Schmitz Construction Superintendent Tony Schmitz

Subcontractor _____ Superintendent _____

Work in progress and/or completed since last report: Tony Schmitz Construction continued berm building.

Unexpected site conditions: None

Sampling and/or testing performed: Compaction tests and visual observation

Conformance of materials, operations and/or test results to project requirements: Compaction tests indicated adequate compaction.

Person/persons notified of nonconformance to project requirements: N/A

Nonconformance corrected: N/A

Instructions or information received/from: Tony Schmitz

Weather: _____

Technician/Engineer time on project today: _____

No. of visits today: 1 Time and date for next visit: 06/12/89

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WESTERN TECHNOLOGIES INC.
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Farmington, New Mexico 87401
(505) 327-4966

FIELD REPORT

REVIEW OF EARTHWORK CONSTRUCTION

Job No. _____

Client Tony Schmitz Construction 31044 Invoice No. 31490370

Project Lindrith Evaporation Pond Report No. _____ Date 06/13/89

Location Rio Arriba County, New Mexico Report By H. Kuebler/WT Date 06/08/89

Prime Contractor Tony Schmitz Construction Superintendent Tony Schmitz

Earthwork Subcontractor _____ Superintendent _____

Earthwork in progress and/or completed since last report: Tony Schmitz Construction continued berm building.

Unexpected site conditions: Afternoon rain stopped project.

Sampling and/or testing performed: Compaction tests and visual observation. A proctor sample from the borrow area was brought to the Farmington Lab.

Conformance of earthwork materials, operations and/or test results to project requirements: Compaction tests indicated adequate compaction

Person/persons notified of nonconformance to project requirements: N/A

Nonconformance corrected: N/A

Instructions or information received/from: Tony Schmitz, job will continue 06/09/89

Tech./Eng'r time on project today: _____ No. of visits today: 1

Time and date for next visit: 06/09/89

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L. Warnbrock
Reviewed By

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WESTERN TECHNOLOGIES INC.
400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz Construction
Star Route
Lindrith, NM 87029

Job No. 31044
Lab/Invoice No. 31490370
Date 06/01/89
Reviewed By L. Wareboard

Project: Lindrith Evaporation Pond
Location: Rio Arriba County, New Mexcio
Type of Material: Clay
Authorized By: Client Date: 05/30/89
Source of Material: Native
Tested/Calc. By: H. Kuebler/WT
Moisture/Density Relationship: ASTM D698 Meth. A
Test Locations Designated By: H. Kuebler/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	05/30/89	50' W. of S.E. corner of S. berm	94'
2	05/30/89	70' N. of S.W. corner of S. berm	94'
3	05/30/89	50' S. of N.W. corner of N. berm	97'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics		Relative Compaction %	Within Specs. †	Comments *
				Moisture %	Dry Density pcf			
1		14.9	113.5	15.9	113.0	100	Yes	1-10-13-15
2		14.9	113.5	13.7	111.7	98	Yes	1-10-13-15
3		14.9	113.5	18.0	110.5	97	Yes	1-10-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. Opt. Moist. ± 3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Berm

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

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WESTERN TECHNOLOGIES INC.

400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz Construction
Star Route
Lindrith, NM 87029

Job No. 31044
Lab/Invoice No. 31490370
Date 06/05/89
Reviewed By L. Wakefield

Project: Lindrith Evaporation Pond
Location: Rio Arriba County, New Mexico
Type of Material: Clay
Authorized By: Client Date: 06/02/89
Source of Material: Native
Tested/Calc. By: H. Kuebler/WT
Moisture/Density Relationship: ASTM D698 Meth. A
Test Locations Designated By: H. Kuebler/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	06/02/89	60' W. of S.E. corner of S. berm	95'
2	06/02/89	85' E. of S.W. corner of S. berm	95'
3	06/02/89	40' N. of S.W. corner of S. berm	95'
4	06/02/89	70' S. of N.W. corner of N. berm	97'
5	06/02/89	50' N. of S.W. corner of S. berm	95'
6	06/02/89	120' S. of N.W. corner of N. berm	95'
7	06/02/89	Center of S. berm	95'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics		Relative Compaction %	Within Specs. †	Comments *
				Moisture %	Dry Density pcf			
1		14.9	113.5	12.0	109.7	97	Yes	1-10-13-15
2		14.9	113.5	13.7	108.9	96	Yes	1-10-13-15
3		14.9	113.5	12.5	107.8	95	Yes	1-10-13-15
4		14.9	113.5	14.8	113.8	100	Yes	1-10-13-15
5		14.9	113.5	13.8	110.7	98	Yes	1-10-13-15
6		14.9	113.5	12.9	111.2	98	Yes	1-10-13-15
7		14.9	113.5	14.3	110.7	98	Yes	1-10-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. Opt. Moist. + 3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Berm

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

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WESTERN TECHNOLOGIES INC.
400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

LABORATORY REPORT

PHYSICAL PROPERTIES OF AGGREGATES

Client: Tony Schmitz Construction
Star Route
Lindrith, NM 87029

31044

Job No. ____
Lab/Invoice No. 31490370
Date of Report 06/14/89
Reviewed By L. Wansbrough

Project: Lindrith Evaporation Pond

Location: Rio Arriba County, NM — Sampled By: H. Kuebler/WT — Date: 06/08/89

Type of Aggregate: Clay — Submitted By: H. Kuebler/WT — Date: 06/08/89

Source of Aggregate: Borrow Area, E. of Site — Authorized By: Client — Date: 06/08/89

Sieve Analysis, ASTM C136-

Sieve Size	% Passing Accumulative	Specification
4"		
3"		
2"		
1½"		
1⅛"		
1"		
¾"		
½"		
⅜"		
¼"		
No. 4		
8		
10		
16		
30		
40		
50		
100		
Finer than 200 ASTM C117-		

Test Standards are ASTM unless otherwise noted.

Test		Result	Specification	Test STD
Fineness Modulus				C125-
Dry Rodded Unit Weight, pcf				C29-
Lightweight Pieces, %				C123-
Clay Lumps and Friable Particles				C142-
Organic Impurities				C40-
Sand Equivalent Value				C2419-
Resistance to Abrasion	% Wear, rev.			C131- Grading
	% Wear, 500 rev.			
	% Wear, rev.			C535- Grading
	% Wear, 1000 rev.			
Scratch Hardness, % by: Weight | Count		|	|	C235-
Fractured Faces, % by: Weight | Count		|	|	
Liquid Limit | Plasticity Index		|	|	D4318-
Cleanness Value				Calif. 227-
Moisture Density Relations	Max. Dry Density, pcf	115.3	☒ D698-A ☐ D1557- ☐ AASHTO T99- ☐ AASHTO T180-	
	Optimum Moisture, %	13.3		
	Method	A		
Specific Gravity	Absorption, %		☐ C127- ☐ C128-	
	Bulk (Dry)			
	Bulk (SSD)			
	Apparent			

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WESTERN TECHNOLOGIES INC.

400 South Lorena Avenue
Farmington, New Mexico 87401
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LABORATORY REPORT

PHYSICAL PROPERTIES OF AGGREGATES

Client: Tony Schmitz Construction
Star Route
Lindrith, NM 87029

31044

Job No. ____

Lab/Invoice No. 31490370

Date of Report 06/08/89

Reviewed By L. Waresback

Project: Lindrith Evaporation Pond

Location: Rio Arriba County, NM — Sampled By: H. Kuebler/WT — Date: 05/24/89

Type of Aggregate: CL-Clay — Submitted By: H. Kuebler/WT — Date: 06/07/89

Source of Aggregate: Right Permeameter — Authorized By: Client — Date: 05/24/89

Sieve Analysis, ASTM C136-

Sieve Size	% Passing Accumulative	Specification
4"		
3"		
2"		
1½"		
1⅛"		
1"		
¾"		
½"		
⅜"		
¼"		
No. 4		
8		
10		
16		
30		
40		
50		
100		
Finer than 200 ASTM C117-		

Test Standards are ASTM unless otherwise noted.

Test		Result	Specification	Test STD
Fineness Modulus				C125-
Dry Rodded Unit Weight, pcf				C29-
Lightweight Pieces, %				C123-
Clay Lumps and Friable Particles				C142-
Organic Impurities				C40-
Sand Equivalent Value				C2419-
Resistance to Abrasion	% Wear, rev.			C131-
	% Wear, 500 rev.			Grading
	% Wear, rev.			C535-
	% Wear, 1000 rev.			Grading
Scratch Hardness, % by: Weight | Count		|	|	C235-
Fractured Faces, % by: Weight | Count		|	|	
Liquid Limit | Plasticity Index		|	|	D4318-
Constant Head Permeability, cm/sec		7.3×10^{-8}		Calif. 227-
Moisture Density Relations	Max. Dry Density, pcf		☐ D698- ☐ D1557- ☐ AASHTO T99- ☐ AASHTO T180-	
	Optimum Moisture, %			
	Method			
Specific Gravity	Absorption, %		☐ C127- ☐ C128-	
	Bulk (Dry)			
	Bulk (SSD)			
	Apparent			

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95% compaction at optimum moisture content

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WESTERN TECHNOLOGIES INC.

400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

FIELD REPORT

REVIEW OF EARTHWORK CONSTRUCTION

Job No. _____

Client Tony Schmitz Construction 31044 Invoice No. 31490370

Project Lindrith Evaporation Pond Report No. _____ Date 06/05/89

Location Rio Arriba County, New Mexico Report By H. Kuebler/WT Date 05/30/89

Prime Contractor Tony Schmitz Construction Superintendent Tony Schmitz

Earthwork Subcontractor Tony Schmitz Construction Superintendent Tony Schmitz

Earthwork in progress and/or completed since last report: Tony Schmitz Construction continued berm building on south and west berms.

Unexpected site conditions: None

Sampling and/or testing performed: Compaction tests and visual observation.

Conformance of earthwork materials, operations and/or test results to project requirements: Compaction tests indicated adequate compaction.

Person/persons notified of nonconformance to project requirements: N/A

Nonconformance corrected: N/A

Instructions or information received/from: Scraper broke down. Work was halted until scraper can be repaired. Tony Schmitz will call WTI when work starts up.

Tech./Eng'r time on project today: _____ No. of visits today: 1

Time and date for next visit: _____

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L. Wansbrough
Reviewed By

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400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

FIELD REPORT

REVIEW OF EARTHWORK CONSTRUCTION

Job No. _____

Client Tony Schmitz Construction 31044 Invoice No. 31490370

Project Lindrith Evaporation Pond Report No. _____ Date 06/22/89

Location Rio Arriba County, New Mexico Report By H. Kuebler/WT Date 06/12/89

Prime Contractor Client Superintendent _____

Earthwork Subcontractor _____ Superintendent _____

Earthwork in progress and/or completed since last report: Tony Schmitz Construction continued berm building.

Unexpected site conditions: None

Sampling and/or testing performed: Compaction test and visual observation.

Conformance of earthwork materials, operations and/or test results to project requirements: Compaction tests met compaction requirements.

Person/persons notified of nonconformance to project requirements: N/A

Nonconformance corrected: N/A

Instructions or information received/from: Native soil in pond bottom shall be scarified and recompacted to 95% and have moisture content ± 3% optimum of standard proctor. Clay lining material (three feet in depth) shall be placed in lifts six inches or less and compacted to 95% and have moisture content ± 3% optimum of standard proctor. No clay lining material shall be placed along interior berm walls since berm was constructed of material which met permeability specifications.

Tech./Eng'r time on project today: _____ No. of visits today: 1

Time and date for next visit: 06/14/89

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L. Wareshack
Reviewed By

REVIEW OF CONSTRUCTION

Project: Lindrith Evaporation Pond, Rio Arriba County, New Mexico — 31044

Job No.

Lab/Invoice No. 31490370

Report No. ____ Date 06/22/89

Report By H. Kuebler/WT Date 06/14/89 Reviewed By L. Waresback Date 06/22/89

Prime Contractor Client Superintendent Tony Schmitz

Subcontractor ____ Superintendent ____

Work in progress and/or completed since last report: Tony Schmitz Construction completed berm building. Native soil in pond bottom was scarified and compacted to at least 95% of standard proctor. Clay liner in pond bottom started to be placed.

Unexpected site conditions: None

Sampling and/or testing performed: Compaction tests and visual observation.

Conformance of materials, operations and/or test results to project requirements: Compaction tests met compaction specifications.

Person/persons notified of nonconformance to project requirements: N/A

Nonconformance corrected: N/A

Instructions or information received/from: N/A

Weather:

Technician/Engineer time on project today:

No. of visits today: 1 Time and date for next visit: 06/15/89

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(505) 327-4966

LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz Construction
Star Route
Lindrith, NM 87029

Job No. 31044
Lab/Invoice No. 31490370
Date 06/22/89
Reviewed By L. Wareback

Project: Lindrith Evaporation Pond
Location: Rio Arriba County, New Mexico
Type of Material: Clay
Authorized By: Client Date: 06/14/89
Source of Material: Native
Tested/Calc. By: H. Kuebler/WT
Moisture/Density Relationship: ASTM D698 Meth. A
Test Locations Designated By: H. Kuebler/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
*1	06/14/89	50' E. of S.E. corner of S. berm	100'
*2	06/14/89	Center of S. berm	100'
*3	06/14/89	70' N. of S.W. corner of S. berm	100'
*4	06/14/89	20' S. of N.W. corner of N. berm	100'
*5	06/14/89	60' E. of N.W. corner of N. berm	100'
6	06/14/89	50' S. 60' E. of N.W. corner of pond bottom	97'
7	06/14/89	50' N. 60' E. of S.W. corner of pond bottom	97'
8	06/14/89	50' N. 60' W. of S.E. corner of pond bottom	97'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics: Moisture %	In-Place Characteristics: Dry Density pcf	Relative Compaction %	Within Specs. ?	Comments *
*1		14.9	113.5	17.9	109.0	96	Yes	1-10-13-15
*2		14.9	113.5	16.6	110.2	97	Yes	1-10-13-15
*3		14.9	113.5	15.7	107.2	95	Yes	1-10-13-15
*4		14.9	113.5	16.7	111.4	98	Yes	1-10-13-15
*5		14.9	113.5	17.1	107.2	95	Yes	1-10-13-15
6		14.9	113.5	12.8	109.0	96	Yes	1-10-13-15
7		14.9	113.5	13.3	112.5	99	Yes	1-10-13-15
8		14.9	113.5	16.5	112.0	99	Yes	1-10-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. ± 3% of Opt. Moisture
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Pond Bottom
*100'=Top of Berm

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

Copies to: Client (3)
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WESTERN TECHNOLOGIES INC.
400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz Construction
Star Route
Lindrith, NM 87029

31044

Job No.
Lab/Invoice No. 31490370
Date 06/22/89
Reviewed By L. Waresback

Project: Lindrith Evaporation Pond
Location: Rio Arriba County, New Mexico
Type of Material: Clay
Authorized By: Client Date: 06/14/89
Source of Material: Native
Tested/Calc. By: H. Kuebler/WT
Moisture/Density Relationship: ASTM D698 Meth. A
Test Locations Designated By: H. Kuebler/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
*9	06/14/89	90' N. 40' W. of S.E. corner of pond bottom	97'
*10	06/14/89	20' S. 25' W. of N.E. corner of pond bottom	97'
11	06/14/89	N.E. corner of N. berm	100'
12	06/14/89	Center of E. berm	100'
*13	06/14/89	Center of Pond	97'
*R14	06/14/89	Retest of Test #13, 06/14/89	97'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics: Moisture %	In-Place Characteristics: Dry Density pcf	Relative Compaction %	Within Specs. ?	Comments *
*9		14.9	113.5	14.2	109.0	96	Yes	1-10-13-15
*10		14.9	113.5	13.5	111.0	98	Yes	1-10-13-15
11		14.9	113.5	16.0	109.5	97	Yes	1-10-13-15
12		14.9	113.5	15.8	111.0	98	Yes	1-10-13-15
*13		14.9	113.5	14.6	105.0	92	No	1-10-13-15
*R14		14.9	113.5	16.6	110.2	97	Yes	1-10-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. ± 3% of Opt. Moisture
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Berm
*100'=Top of Pond Bottom

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

Copies to: Client (3)
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WESTERN TECHNOLOGIES INC.
400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz Construction
Star Route
Lindrith, NM 87029

31044

Job No.
Lab/Invoice No. 31490370
Date 06/22/89
Reviewed By L. Wareshack

Project: Lindrith Evaporation Pond
Location: Rio Arriba County, New Mexico
Type of Material: Clay
Authorized By: Client Date: 06/16/89
Source of Material: Borrow Site, 150' E. of Pond
Tested/Calc. By: H. Kuebler/WT
Moisture/Density Relationship: ASTM D698 Meth. A
Test Locations Designated By: Client

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	06/16/89	70' N. 40' W. of S.E. corner of pond bottom	98'
2	06/16/89	Center of pond bottom	98'
3	06/16/89	40' N. 30' E. of S.E. corner of pond bottom	98'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics		Relative Compaction %	Within Specs. ?	Comments *
				Moisture %	Dry Density pcf			
1		13.2	115.2	12.1	119.2	100	Yes	1-10-13-14
2		13.2	115.2	14.6	119.5	100	Yes	1-10-13-14
3		13.2	115.2	13.8	114.2	99	Yes	1-10-13-14

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. ± 3% of Opt. Moisture
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Pond Bottom

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

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FIELD REPORT

REVIEW OF EARTHWORK CONSTRUCTION

Job No. _____

Client Tony Schmitz Construction — Invoice No. 31490370

Project Lindrith Evaporation Pond — Report No. _____ Date 06/22/89

Location Rio Arriba County, New Mexico — Report By H. Kuebler/WT Date 06/19/89

Prime Contractor Client — Superintendent Tony Schmitz

Earthwork Subcontractor _____ — Superintendent _____

Earthwork in progress and/or completed since last report: Tony Schmitz Construction began to place final lift in pond bottom.

Unexpected site conditions: None

Sampling and/or testing performed: Compaction tests and visual observation.

Conformance of earthwork materials, operations and/or test results to project requirements: Compaction tests indicated adequate compaction.

Person/persons notified of nonconformance to project requirements: N/A

Nonconformance corrected: N/A

Instructions or information received/from: Job completion should be by 06/21/89

Tech./Eng'r time on project today: _____ No. of visits today: 1

Time and date for next visit: _____

Copies: Client (3)
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L. Wareshack
Reviewed By

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Farmington, New Mexico 87401
(505) 327-4966

LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz Construction
Star Route
Lindrith, NM 87029

Job No. 31044
Lab/Invoice No. 31490370
Date 06/22/89
Reviewed By L. Wareshack

Project: Lindrith Evaporation Pond
Location: Rio Arriba County, New Mexico
Type of Material: Clay
Authorized By: Client Date: 06/19/89
Source of Material: Borrow Area - E. of Pond
Tested/Calc. By: H. Kuebler/WT
Moisture/Density Relationship: ASTM D698 Meth. A
Test Locations Designated By: Client

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	06/19/89	18' W. 35' N. of S.E. corner of pond bottom	99'
2	06/19/89	Center of pond bottom	99'
3	06/19/89	60' S. 60' E. of N.W. corner of pond bottom	99'
4	06/19/89	20' N. 20' E. of S.W. corner of pond bottom	99'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics: Moisture %	In-Place Characteristics: Dry Density pcf	Relative Compaction %	Within Specs. ?	Comments *
1		13.2	115.2	11.2	110.7	96	Yes	1-10-13-15
2		13.2	115.2	10.4	111.3	97	Yes	1-10-13-15
3		13.2	115.2	11.4	116.4	100	Yes	1-10-13-15
4		13.2	115.2	11.4	108.9	95	Yes	1-10-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. ± 3% of Opt. Moisture
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other
19. Test Locations on Accompanying Site Plan
20. *Specifications Unknown*

† Datum 100'=Top of Pond Bottom

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

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LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz Construction
Star Route
Lindrith, NM 87029

Job No. 31044
Lab/Invoice No. 31490370
Date 06/22/89
Reviewed By L. Waresback

Project: Lindrith Evaporation Pond
Location: Rio Arriba County, New Mexico
Type of Material: Clay
Authorized By: Client Date: 06/20/89
Source of Material: Borrow Area-E. of Pond
Tested/Calc. By: H. Kuebler/WT
Moisture/Density Relationship ASTM D698 Meth. A
Test Locations Designated By: H. Kuebler/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	06/20/89	45' W. 75' S. of N.E. corner of pond bottom	100'
2	06/20/89	70' W. 60' N. of S.E. corner of pond bottom	100'
3	06/20/89	60' E. 70' S. of N.W. corner of pond bottom	100'
4	06/20/89	80' N' 20' E. of S.W. corner of pond bottom	100'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics		Relative Compaction %	Within Specs. †	Comments *
				Moisture %	Dry Density pcf			
1		13.2	115.2	11.6	117.6	100	Yes	1-10-13-14
2		13.2	115.2	13.3	109.4	95	Yes	1-10-13-14
3		13.2	115.2	13.3	109.7	95	Yes	1-10-13-14
4		13.2	115.2	14.3	111.2	97	Yes	1-10-13-14

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. _____
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other _____
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Pond Bottom

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

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LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz Construction
Star Route
Lindrith, NM 87029

31044

Job No.
Lab/Invoice No. 31490370
Date 06/05/89
Reviewed By L. Woodard

Project: Lindrith Evaporation Pond
Location: Rio Arriba County, New Mexico
Type of Material: Clay
Authorized By: Client Date: 06/02/89
Source of Material: Native
Tested/Calc. By: H. Kuebler/WT
Moisture/Density Relationship: ASTM D698 Meth. A
Test Locations Designated By: H. Kuebler/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	06/02/89	60' W. of S.E. corner of S. berm	95'
2	06/02/89	85' E. of S.W. corner of S. berm	95'
3	06/02/89	40' N. of S.W. corner of S. berm	95'
4	06/02/89	70' S. of N.W. corner of N. berm	97'
5	06/02/89	50' N. of S.W. corner of S. berm	95'
6	06/02/89	120' S. of N.W. corner of N. berm	95'
7	06/02/89	Center of S. berm	95'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics		Relative Compaction %	Within Specs. ?	Comments *
				Moisture %	Dry Density pcf			
1		14.9	113.5	12.0	109.7	97	Yes	1-10-13-15
2		14.9	113.5	13.7	108.9	96	Yes	1-10-13-15
3		14.9	113.5	12.5	107.8	95	Yes	1-10-13-15
4		14.9	113.5	14.8	113.8	100	Yes	1-10-13-15
5		14.9	113.5	13.8	110.7	98	Yes	1-10-13-15
6		14.9	113.5	12.9	111.2	98	Yes	1-10-13-15
7		14.9	113.5	14.3	110.7	98	Yes	1-10-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. Opt. Moist. ± 3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Berm

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

Copies to: Client (3)
Billing (1)
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WESTERN TECHNOLOGIES INC.

400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

FIELD REPORT

REVIEW OF EARTHWORK CONSTRUCTION

Job No. _____

Client Tony Schmitz Construction 31044 Invoice No. 31490370

Project Lindrith Evaporation Pond Report No. _____ Date 06/05/89

Location Rio Arriba County, New Mexico Report By H. Kuebler/WT Date 06/02/89

Prime Contractor Tony Schmitz Construction Superintendent Tony Schmitz

Earthwork Subcontractor Tony Schmitz Construction Superintendent Tony Schmitz

Earthwork in progress and/or completed since last report: Tony Schmitz Construction continued to build south and west berms.

Unexpected site conditions: None

Sampling and/or testing performed: Compaction tests and visual observation

Conformance of earthwork materials, operations and/or test results to project requirements: Compaction tests met compaction requirements.

Person/persons notified of nonconformance to project requirements: N/A

Nonconformance corrected: N/A

Instructions or information received/from: Tony Schmitz

Tech./Eng'r time on project today: _____ No. of visits today: 1

Time and date for next visit: _____

Copies: Client (3)
Billing (1) /tt

L. Wanstock
Reviewed By

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Farmington, New Mexico 87401
(505) 327-4966

FIELD REPORT

REVIEW OF EARTHWORK CONSTRUCTION

Job No. _____

Client Tony Schmitz Construction 31044 Invoice No. 31490370

Project Lindrith Evaporation Pond Report No. _____ Date 06/05/89

Location Rio Arriba County, New Mexico Report By H. Kuebler/WT Date 05/30/89

Prime Contractor Tony Schmitz Construction Superintendent Tony Schmitz

Earthwork Subcontractor Tony Schmitz Construction Superintendent Tony Schmitz

Earthwork in progress and/or completed since last report: Tony Schmitz Construction continued berm building on south and west berms.

Unexpected site conditions: None

Sampling and/or testing performed: Compaction tests and visual observation.

Conformance of earthwork materials, operations and/or test results to project requirements: Compaction tests indicated adequate compaction.

Person/persons notified of nonconformance to project requirements: N/A

Nonconformance corrected: N/A

Instructions or information received/from: Scraper broke down. Work was halted until scraper can be repaired. Tony Schmitz will call WTI when work starts up.

Tech./Eng'r time on project today: _____ No. of visits today: 1

Time and date for next visit: _____

Copies: Client (3)
Billing (1)
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L. Wareback
Reviewed By

WESTERN TECHNOLOGIES INC.
400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz Construction
Star Route
Lindrith, NM 87029

31044

Job No.
Lab/Invoice No. 31490370
Date 06/01/89
Reviewed By L. Wareback

Project: Lindrith Evaporation Pond
Location: Rio Arriba County, New Mexcio
Type of Material: Clay
Authorized By: Client
Date: 05/30/89
Source of Material: Native
Tested/Calc. By: H. Kuebler/WT
Moisture/Density Relationship: ASTM D698 Meth. A
Test Locations Designated By: H. Kuebler/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	05/30/89	50' W. of S.E. corner of S. berm	94'
2	05/30/89	70' N. of S.W. corner of S. berm	94'
3	05/30/89	50' S. of N.W. corner of N. berm	97'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics		Relative Compaction %	Within Specs. ?	Comments *
				Moisture %	Dry Density pcf			
1		14.9	113.5	15.9	113.0	100	Yes	1-10-13-15
2		14.9	113.5	13.7	111.7	98	Yes	1-10-13-15
3		14.9	113.5	18.0	110.5	97	Yes	1-10-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. Opt. Moist. ± 3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Berm

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

Copies to: Client (3)
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WESTERN TECHNOLOGIES INC.

400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

FIELD REPORT

REVIEW OF EARTHWORK CONSTRUCTION

Job No. _____

Client Tony Schmitz Construction 31044 Invoice No. 31490261

Project Lindrith Evaporation Pond Report No. _____ Date 06/01/89

Location Rio Arriba County, New Mexico Report By H. Kuebler/WT Date 05/24/89

Prime Contractor Tony Schmitz Construction Superintendent Tony Schmitz

Earthwork Subcontractor Tony Schmitz Construction Superintendent Tony Schmitz

Earthwork in progress and/or completed since last report: Tony Schmitz Construction continued south and east berm building.

Unexpected site conditions: Water wagon was broke down. Repairs will take several days. No work until 05/30/89.

Sampling and/or testing performed: Compaction tests and visual inspection

Conformance of earthwork materials, operations and/or test results to project requirements: Compaction tests met compaction requirements.

Person/persons notified of nonconformance to project requirements: N/A

Nonconformance corrected: N/A

Instructions or information received/from: Tony Schmitz. Pockets of different clay have been located 110' S. of N.E. berm. A permeability test will be performed on this material.

Tech./Eng'r time on project today: _____ No. of visits today: 1

Time and date for next visit: 05/30/89

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L. Warnstaff
Reviewed By

WESTERN TECHNOLOGIES INC.
400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz Construction
Star Route
Lindrith, NM 87029

Job No. 31044
Lab/Invoice No. 31490261
Date 05/30/89
Reviewed By L. Wanebaek

Project: Evaporation Pond - Lindrith
Location: Rio Arriba County, New Mexico
Type of Material: Clay
Authorized By: Client
Date: 05/24/89
Source of Material: Native
Tested/Calc. By: H. Kuebler/WT
Moisture/Density Relationship: ASTM D698 Meth. A
Test Locations Designated By: H. Kuebler/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	05/24/89	90' W. of S.E. corner of S. berm	93'
2	05/24/89	40' E. of S.W. corner of S. berm	93'
3	05/24/89	50' S. of N.W. corner of W. berm	96'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics		Relative Compaction %	Within Specs. ?	Comments *
				Moisture %	Dry Density pcf			
1		14.9	113.5	13.7	109.7	97	Yes	1-10-13-15
2		14.9	113.5	12.4	112.5	99	Yes	1-10-13-15
3		14.9	113.5	18.0	111.4	98	Yes	1-10-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. Opt. Moist ± 3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Berm

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

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(505) 327-4966

LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz Construction
Star Route
Lindrith, NM 87029

Job No. 31044
Lab/Invoice No. 31490261
Date 05/30/89
Reviewed By L. Waresback

Project: Evaporation Pond - Lindrith
Location: Rio Arriba County, New Mexico
Type of Material: Clay
Authorized By: Client Date: 05/23/89
Source of Material: Native
Tested/Calc. By: H. Kuebler/WT
Moisture/Density Relationship: ASTM D698 Meth. A
Test Locations Designated By: H. Kuebler/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	05/23/89	70' W. of S.E. corner of S. berm	92'
2	05/23/89	20' E. of S.W. corner of S. berm	92'
3	05/23/89	50' S. of N.W. corner of N. berm	96'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics		Relative Compaction %	Within Specs. ?	Comments *
				Moisture %	Dry Density pcf			
1		14.9	113.5	17.7	110.5	97	Yes	1-10-13-15
2		14.9	113.5	13.8	108.5	96	Yes	1-10-13-15
3		14.9	113.5	14.4	109.3	96	Yes	1-10-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. Opt. Moist ± 3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Berm

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

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WESTERN TECHNOLOGIES INC.

400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

FIELD REPORT

REVIEW OF EARTHWORK CONSTRUCTION

Job No. _____

Client Tony Schmitz Construction Invoice No. 31490261

Project Lindrith Evaporation Pond Report No. _____ Date 05/30/89

Location Rio Arriba County, New Mexico Report By H. Kuebler/WT Date 05/24/89

Prime Contractor Client Superintendent Tony Schmitz

Earthwork Subcontractor Client Superintendent Tony Schmitz

Earthwork in progress and/or completed since last report: Tony Schmitz Construction continued to build S. and W. berms.

Unexpected site conditions: None

Sampling and/or testing performed: Compaction tests and visual inspection

Conformance of earthwork materials, operations and/or test results to project requirements: Compaction tests indicated fill met compaction requirements.

Person/persons notified of nonconformance to project requirements: N/A

Nonconformance corrected: N/A

Instructions or information received/from: An average of 10 inches to one foot is being placed per day on W. and S. berms. Tony Schmitz

Tech./Eng'r time on project today: _____ No. of visits today: _____

Time and date for next visit: _____

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L. Wanzebach
Reviewed By

REVIEW OF CONSTRUCTION

Project: Lindrith Evaporation Pond
Rio Arriba County, New Mexico
31044

Job No. _____

Lab/Invoice No. 31490370

Report No. _____ Date 06/22/89

Report By H. Kuebler/WT Date 06/15/89 Reviewed By T. Wardecki Date 06/22/89

Prime Contractor Client Superintendent Tony Schmitz

Subcontractor _____ Superintendent _____

Work in progress and/or completed since last report: Tony Schmitz Construction began to place lst lift of clay liner in pond bottom.

Unexpected site conditions: None

Sampling and/or testing performed: Visual observation.

Conformance of materials, operations and/or test results to project requirements: Clay liner appears to be uniform throughout the lift.

Person/persons notified of nonconformance to project requirements: None

Nonconformance corrected: None

Instructions or information received/from: Weathered claystone lenses appeared under red clay liner material. I informed Tony Schmitz Construction not to place claystone in pond bottom.

Weather: _____

Technician/Engineer time on project today: _____

No. of visits today: 1 Time and date for next visit: 06/16/89

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REVIEW OF CONSTRUCTION

Project: Lindrith Evaporation Pond, Rio Arriba County, New Mexico — 31044

Job No. _____

Lab/Invoice No. 31490370

Report No. _____ Date 06/22/89

Report By H. Kuebler/WT Date 06/16/89 Reviewed By T. Wardack Date 06/22/89

Prime Contractor Client Superintendent Tony Schmitz

Subcontractor _____ Superintendent _____

Work in progress and/or completed since last report: Tony Schmitz Construction continued to place clay liner in pond bottom.

Unexpected site conditions: None

Sampling and/or testing performed: Compaction tests and visual observation

Conformance of materials, operations and/or test results to project requirements: Compaction tests indicated adequate compaction.

Person/persons notified of nonconformance to project requirements: N/A

Nonconformance corrected: N/A

Instructions or information received/from: Work shall resume on Monday, 06/19/89

Weather: _____

Technician/Engineer time on project today: _____

No. of visits today: 1 Time and date for next visit: 06/19/89

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WESTERN TECHNOLOGIES INC.
400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

FIELD REPORT

REVIEW OF EARTHWORK CONSTRUCTION

Job No. _____

Client Tony Schmitz Construction Invoice No. 31490261

Project Lindrith Evaporation Pond Report No. _____ Date 05/30/89

Location Rio Arriba County, New Mexico Report By H. Kuebler/WT Date 05/23/89

Prime Contractor Client Superintendent Tony Schmitz

Earthwork Subcontractor Client Superintendent Tony Schmitz

Earthwork in progress and/or completed since last report: Tony Schmitz Construction continued to build S. and W. berms.

Unexpected site conditions: None

Sampling and/or testing performed: Compaction tests and visual observation.

Conformance of earthwork materials, operations and/or test results to project requirements: Compaction tests indicated fill met compaction requirements.

Person/persons notified of nonconformance to project requirements: N/A

Nonconformance corrected: N/A

Instructions or information received/from: I informed Tony Schmitz of my conversation with Larry Cynova/WT on 05/19/89.

Tech./Eng'r time on project today: _____ No. of visits today: _____

Time and date for next visit: _____

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L. Wansbrough
Reviewed By

WESTERN TECHNOLOGIES INC.

400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

LABORATORY REPORT

PHYSICAL PROPERTIES OF AGGREGATES

Client: Tony Schmitz Construction
Star Route
Lindrith, NM 87029

31044

Job No. _____
Lab/Invoice No. 31490261
Date of Report 05/23/89
Reviewed By L. Waresback

Project: Lindrith Evaporation Pond

Location: Rio Aribba County, NM — Sampled By: H. Kuebler/WT — Date: 05/12/89

Type of Aggregate: Clay — Submitted By: H. Kuebler/WT — Date: 05/12/89

Source of Aggregate: Native — Authorized By: Client — Date: 05/12/89

Sieve Analysis, ASTM C136-

Sieve Size	% Passing Accumulative	Specification
4"		
3"		
2"		
1½"		
1⅛"		
1"		
¾"		
½"		
⅜"		
¼"		
No. 4		
8		
10		
16		
30		
40		
50		
100		
Finer than 200 ASTM C117-		

Test Standards are ASTM unless otherwise noted.

Test		Result	Specification	Test STD
Fineness Modulus				C125-
Dry Rodded Unit Weight, pcf				C29-
Lightweight Pieces, %				C123-
Clay Lumps and Friable Particles				C142-
Organic Impurities				C40-
Sand Equivalent Value				C2419-
Resistance to Abrasion	% Wear, rev.			C131-
	% Wear, 500 rev.			Grading
	% Wear, rev.			C535-
	% Wear, 1000 rev.			Grading
Scratch Hardness, % by: Weight | Count		|	|	C235-
Fractured Faces, % by: Weight | Count		|	|	
Liquid Limit | Plasticity Index		|	|	D4318-
Cleanness Value				Calif. 227-
Constant Head Permeability cm/sec		9.8×10^{-8}		
Moisture Density Relations	Max. Dry Density, pcf		☐ D698- ☐ D1557- ☐ AASHTO T99- ☐ AASHTO T180-	
	Optimum Moisture, %			
	Method			
Specific Gravity	Absorption, %		☐ C127- ☐ C128-	
	Bulk (Dry)			
	Bulk (SSD)			
	Apparent			

95% compaction at optimum moisture content

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WESTERN TECHNOLOGIES INC.
400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz Construction
Star Route
Lindrith, NM 87029

Job No. 31044
Lab/Invoice No. 31490261
Date 05/30/89
Reviewed By L. Waresback

Project: Evaporation Pond - Lindrith
Location: Rio Arriba County, New Mexico
Type of Material: Clay
Source of Material: Native
Moisture/Density Relationship: ASTM D698 Meth. A

Authorized By: Client Date: 05/22/89
Tested/Calc. By: H. Kuebler/WT
Test Locations Designated By: H. Kuebler/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	05/22/89	80' W. of S.E. corner of S. berm	91'
2	05/22/89	60' S. of N.W. corner of N. berm	95'
3	05/22/89	40' E. of S.W. corner of S. berm	91'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics		Relative Compaction %	Within Specs. †	Comments *
				Moisture %	Dry Density pcf			
1		14.9	113.5	17.0	109.0	96	Yes	1-10-13-15
2		14.9	113.5	14.1	110.0	97	Yes	1-10-13-15
3		14.9	113.5	14.2	109.2	96	Yes	1-10-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. Opt. Moist ± 3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Berm

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

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WESTERN TECHNOLOGIES INC.
400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz Construction
Star Route
Lindrith, NM 87029

Job No. 31044
Lab/Invoice No. 31490261
Date 05/30/89
Reviewed By L. Waresback

Project: Evaporation Pond - Lindrith
Location: Rio Arriba County, New Mexico
Type of Material: Clay
Source of Material: Native
Moisture/Density Relationship: ASTM D698 Meth. A

Authorized By: Client Date: 05/19/89
Tested/Calc. By: H. Kuebler/WT
Test Locations Designated By: H. Kuebler/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	05/19/89	140' W. of S.E. corner of S. berm	91'
2	05/19/89	80' S. of N.W. corner of N. berm	94'
3	05/19/89	50' N. of S.W. corner of S. berm	91'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics		Relative Compaction %	Within Specs. ?	Comments *
				Moisture %	Dry Density pcf			
1		14.9	113.5	14.2	115.2	100	Yes	1-10-13-15
2		14.9	113.5	14.2	116.0	100	Yes	1-10-13-15
3		14.9	113.5	17.0	112.8	100	Yes	1-10-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min req'd.
12. 85% min. req'd.
13. Opt. Moist. ± 3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Berm

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

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WESTERN TECHNOLOGIES INC.
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Farmington, New Mexico 87401
(505) 327-4966

LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz Construction
Star Route
Lindrith, New Mexico 87029

Job No. 31044
Lab/Invoice No. 31490261
Date 05/19/89
Reviewed By Sa madrid

Project: Lindrith Evaporation Ponds
Location: Rio Arriba County, New Mexico
Type of Material: Clay
Authorized By: Client Date: 05/15/89
Source of Material: Native
Tested/Calc. By: H. Kuebler/WT
Moisture/Density Relationship: ASTM D698 Meth. A
Test Locations Designated By: H. Kuebler/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	05/15/89	S.E. corner arroyo, 150' N. of S.E. corner of dike	84'
2R	05/15/89	Retest of Test #1, 05/15/89	84
3	05/15/89	Center of W. berm	87'
4	05/15/89	S.E. corner arroyo, 150' N. of S.E. corner of dike	84'
5R	05/15/89	Retest of Test #4, 05/15/89	84'
6	05/15/89	S.E. corner arroyo, 150' N. of S.E. corner of dike	85'
7R	05/15/89	Restes to Test #6, 05/15/89	84'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics		Relative Compaction %	Within Specs. †	Comments *
				Moisture %	Dry Density pcf			
1		14.9	113.5	17.6	105.0	93	No	1-9-13-15
2R		14.9	113.5	14.7	117.7	100+	Yes	1-9-13-15
3		14.9	113.5	17.3	112.5	99	Yes	1-9-13-15
4		14.9	113.5	14.7	107.7	95	No	1-9-13-15
5R		14.9	113.5	14.1	113.5	100	Yes	1-9-13-15
6		14.9	113.5	12.1	106.2	94	No	1-9-13-15
7R		14.9	113.5	13.9	113.7	100	Yes	1-9-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. Opt. Moist. +3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Berm

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

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WESTERN TECHNOLOGIES INC.
400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz Construction
Star Route
Lindrith, NM 87029

Job No. 31044
Lab/Invoice No. 31490261
Date 05/19/89
Reviewed By S a Mueller

Project: Lindrith Evaporation Ponds
Location: Rio Arriba County, New Mexico
Type of Material: Clay — Authorized By: Client — Date: 05/16/89
Source of Material: Native — Tested/Calc. By: H. Kuebler/WT
Moisture/Density Relationship: ASTM D698 Meth. A — Test Locations Designated By: H. Kuebler/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	05/16/89	S.E. arroyo, 150' N. of S.E. corner of dike	86'
2	05/16/89	S.E. arroyo, 150' N. of S.E. corner of dike	87'
3	05/16/89	S.E. arroyo, 150' N. of S.E. corner of dike	88'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics		Relative Compaction %	Within Specs. †	Comments *
				Moisture %	Dry Density pcf			
1		14.9	113.5	13.5	111.7	98	Yes	1-9-13-15
2		14.9	113.5	12.4	111.0	98	Yes	1-9-13-15
3		14.9	113.5	13.4	111.8	98	Yes	1-9-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. Opt. Moist. ± 3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other _____
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Berm

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

Copies to: Client (3)
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WESTERN TECHNOLOGIES INC.
400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz Construction
Star Route
Lindrith, NM 87029

Job No. 31044
Lab/Invoice No. 31490261
Date 05/19/89
Reviewed By A. a. Madrid

Project: Lindrith Evaporation Ponds
Location: Rio Arriba County, New Mexico
Type of Material: Clay — Authorized By: Client — Date: 05/17/89
Source of Material: Native — Tested/Calc. By: H. Kuebler/WT
Moisture/Density Relationship: ASTM D698 Meth. A — Test Locations Designated By: H. Kuebler/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	05/17/89	100' W. of S.E. corner of S. berm	88'
2	05/17/89	60' N. of S.E. corner of S. berm	88'
3R	05/17/89	Retest of Test #1, 05/17/89	88'
4	05/17/89	90' S. of N.W. corner of N. berm	93'
5R	05/17/89	Retest of Test #3, 05/17/89	88'
6	05/17/89	70' S. of N.W. corner of N. berm	93'
7	05/17/89	60' N. of S.W. corner of S. berm	88'
8	05/17/89	Center of S. berm	88'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics		Relative Compaction %	Within Specs. †	Comments *
				Moisture %	Dry Density pcf			
1		14.9	113.5	15.8	109.4	96	No	1-9-13-15
2		14.9	113.5	14.8	115.4	100+	Yes	1-9-13-15
3R		14.9	113.5	15.8	107.5	95	No	1-9-13-15
4		14.9	113.5	13.9	117.2	100+	Yes	1-9-13-15
5R		14.9	113.5	16.9	112.9	100	Yes	1-9-13-15
6		14.9	113.5	16.6	113.3	100	Yes	1-9-13-15
7		14.9	113.5	15.4	117.0	100+	Yes	1-9-13-15
8		14.9	113.5	13.2	114.8	100+	Yes	1-9-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. Opt. Moist. ± 3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Berm

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

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WESTERN TECHNOLOGIES INC.

400 South Lorena Avenue
Farmington, New Mexico 87401
(505) 327-4966

FIELD REPORT

REVIEW OF EARTHWORK CONSTRUCTION

Job No. _____

Client Tony Schmitz Construction Invoice No. 31490261

Project Lindrith Evaporation Pond Report No. _____ Date 05/30/89

Location Rio Arriba County, New Mexico Report By H. Kuebler/WT Date 05/19/89

Prime Contractor Client Superintendent Tony Schmitz

Earthwork Subcontractor Client Superintendent Tony Schmitz

Earthwork in progress and/or completed since last report: Tony Schmitz Construction continued to build W. and S. berms.

Unexpected site conditions: None

Sampling and/or testing performed: Compaction tests and visual observation.

Conformance of earthwork materials, operations and/or test results to project requirements: Compaction tests indicated berm fill was being place according to compaction requirements.

Person/persons notified of nonconformance to project requirements: N/A

Nonconformance corrected: N/A

Instructions or information received/from: Tony Schmitz

Tech./Eng'r time on project today: _____ No. of visits today: _____

Time and date for next visit: _____

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L. Wansbach
Reviewed By

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LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz Construction
Star Route
Lindrith, NM 87029

Job No. 31044
Lab/Invoice No. 31490261
Date 05/30/89
Reviewed By L. Wansbock

Project: Evaporation Pond - Lindrith
Location: Rio Arriba County, New Mexico
Type of Material: Clay
Source of Material: Native
Authorized By: Client
Tested/Calc. By: H. Kuebler/WT
Date: 05/18/89
Moisture/Density Relationship: ASTM D698 Meth. A
Test Locations Designated By: Client

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	05/18/89	Center of S. berm	89'
2	05/18/89	Center of W. berm	89'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics		Relative Compaction %	Within Specs. †	Comments *
				Moisture %	Dry Density pcf			
1		14.9	113.5	15.9	111.3	98	Yes	1-9-13-15
2		14.9	113.5	12.3	120.2	100+	Yes	1-9-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. Opt. Moist. ± 3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Berm

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

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Farmington, New Mexico 87401
(505) 327-4966

FIELD REPORT

REVIEW OF EARTHWORK CONSTRUCTION

Job No. _____

Client Tony Schmitz Construction Invoice No. 31490261

Project Lindrith Evaporation Pond Report No. _____ Date 05/30/89

Location Rio Arriba County, New Mexico Report By H. Kuebler/WT Date 05/18/89

Prime Contractor Client Superintendent Tony Schmitz

Earthwork Subcontractor Client Superintendent Tony Schmitz

Earthwork in progress and/or completed since last report: Tony Schmitz Construction continued W. and S. berm construction.

Unexpected site conditions: None

Sampling and/or testing performed: Compaction test and visual observation.

Conformance of earthwork materials, operations and/or test results to project requirements: Compaction tests indicated compacted fill met compaction requirements.

Person/persons notified of nonconformance to project requirements: N/A

Nonconformance corrected: N/A

Instructions or information received/from: Tony Schmitz

Tech./Eng'r time on project today: _____ No. of visits today: _____

Time and date for next visit: _____

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L. Wareshack
Reviewed By

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FIELD REPORT

REVIEW OF EARTHWORK CONSTRUCTION

Job No. _____

Client Tony Schmitz Construction 31044 Invoice No. 31490261

Project Lindrith Evaporation Ponds Report No. _____ Date 05/19/89

Location Rio Arriba County, New Mexico Report By H. Kuebler/WT Date 05/17/89

Prime Contractor Tony Schmitz Construction Superintendent Tony Schmitz

Earthwork Subcontractor Tony Schmitz Construction Superintendent Tony Schmitz

Earthwork in progress and/or completed since last report: Crew continued to build west and south berms.

Unexpected site conditions: None

Sampling and/or testing performed: Compaction Tests

Conformance of earthwork materials, operations and/or test results to project requirements: Compaction tests indicated adequate compaction.

Person/persons notified of nonconformance to project requirements: N/A

Nonconformance corrected: N/A

Instructions or information received/from: Work will begin at 8:30 a.m., 05/18/89

Tech./Eng'r time on project today: _____ No. of visits today: _____

Time and date for next visit: _____

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S.A. Madrid
Reviewed By

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Farmington, New Mexico 87401
(505) 327-4966

FIELD REPORT

REVIEW OF EARTHWORK CONSTRUCTION

Job No. _____

Client Tony Schmitz Construction 31044 Invoice No. 31490261

Project Lindrith Evaporation Ponds Report No. _____ Date 05/19/89

Location Rio Arriba County, New Mexico Report By H. Kuebler/WT Date 05/16/89

Prime Contractor Tony Schmitz Construction Superintendent Tony Schmitz

Earthwork Subcontractor Tony Schmitz Construction Superintendent Tony Schmitz

Earthwork in progress and/or completed since last report: Crew began to build west and south berms.

Unexpected site conditions: None

Sampling and/or testing performed: Compaction Tests

Conformance of earthwork materials, operations and/or test results to project requirements: Compaction tests indicated adequate compaction.

Person/persons notified of nonconformance to project requirements: N/A

Nonconformance corrected: N/A

Instructions or information received/from: Work will begin at 8:30 a.m., 05/17/89

Tech./Eng'r time on project today: _____ No. of visits today: _____

Time and date for next visit: _____

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S. A. Madrid
Reviewed By

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FIELD REPORT

REVIEW OF EARTHWORK CONSTRUCTION

Job No. _____

Client Tony Schmitz Construction 31044 Invoice No. 31490261

Project Lindrith Evaporation Ponds Report No. _____ Date 05/19/89

Location Rio Arriba County, New Mexico Report By H. Kuebler/WT Date 05/15/89

Prime Contractor Tony Schmitz Construction Superintendent Tony Schmitz

Earthwork Subcontractor Tony Schmitz Construction Superintendent Tony Schmitz

Earthwork in progress and/or completed since last report: Crew continued to fill N.W. and S.E. arroyos in pond site.

Unexpected site conditions: None

Sampling and/or testing performed: Compaction Tests and Visual Observation

Conformance of earthwork materials, operations and/or test results to project requirements: Compaction tests indicated adequate compaction.

Person/persons notified of nonconformance to project requirements: N/A

Nonconformance corrected: N/A

Instructions or information received/from: Tony Schmitz - Job will start at 8:30 a.m., 05/16/89

Tech./Eng'r time on project today: _____ No. of visits today: _____

Time and date for next visit: _____

Copies: Client (3)
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S. a madrid
Reviewed By

REVIEW OF CONSTRUCTION

Project: Lindrith Evaporation Pond
Rio Arriba County, New Mexico

31044 Job No. _____

Lab/Invoice No. 31490261

Report No. _____ Date 05/15/89

Report By H. Kuebler/WT Date 05/11/89 Reviewed By [signature] Date 05/15/89

Prime Contractor Tony Schmitz Superintendent Tony Schmitz

Subcontractor _____ Superintendent _____

Work in progress and/or completed since last report: Contractor began to fill depression areas along N.W. corner and S.E. corner of pond site.

Unexpected site conditions: None

Sampling and/or testing performed: One Permablity, Compaction Tests.

Conformance of materials, operations and/or test results to project requirements: Compactions tests indicated fill was compacted to compaction requirements.

Person/persons notified of nonconformance to project requirements: N/A

Nonconformance corrected: N/A

Instructions or information received/from: During phone conversation with Larry Cynova, WTI, the specification for fill below 10 feet was changed from 100% compaction to 98% compaction of ASTM D698.

Weather: Clear & Windy

Technician/Engineer time on project today: 5 hours

No. of visits today: 1 Time and date for next visit: _____

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LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz, Star Route, Lindrith, NM 87029

Job No. 31044

Lab/Invoice No. 31490261

Date 05/15/89

Reviewed By L. Wanebach

Project: Lindrith Evaporation Pond

Location: Rio Arriba County, New Mexico

Type of Material: Clay — Authorized By: Client — Date: 05/11/89

Source of Material: Native — Tested/Calc. By: H. Kuebler/WT

Moisture/Density Relationship: ASTM D698 Meth. A — Test Locations Designated By: H. Kuebler/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1R	05/11/89	Retest of Test #1, 05/08/89	87'
2	05/11/89	S.E. arroyo, 150' N. of S.E. corner of dike	80'
3	05/11/89	N.W. arroyo, 120' S. of N.W. corner of dike	87'
4R	05/11/89	Retest of Test #2, 05/11/89	80'
5	05/11/89	N.W. arroyo, 120' S. of N.W. corner of dike	88.5'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics: Moisture %	In-Place Characteristics: Dry Density pcf	Relative Compaction %	Within Specs. †	Comments *
1R		14.9	113.5	13.8	119.5	100	Yes	1-9-13-15
2		14.9	113.5	12.3	109.5	97	No	1-9-13-15
3		14.9	113.5	12.4	117.0	100	Yes	1-9-13-15
4		14.9	113.5	14.0	113.2	100	Yes	1-9-13-15
5R		14.9	113.5	17.9	111.7	98	Yes	1-9-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. Opt. Moist. ± 3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Berm

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

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LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz
Star Route
Lindrith, NM 87029

Job No. 31044
Lab/Invoice No. 31490261
Date 05/09/89
Reviewed By L. Wiesbach

Project: Lindrith Evaporation Pond
Location: Rio Arriba County, New Mexico
Type of Material: Clay
Source of Material: Native
Moisture/Density Relationship: ASTM D 698 Meth. A
Authorized By: Client
Date: 05/08/89
Tested/Calc. By: G. Anaya/WT
Test Locations Designated By: Client

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	05/08/89	N.W. Keyway (arroyo) 120' S. from N.W. corner of dike	91'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics		Relative Compaction %	Within Specs. †	Comments *
				Moisture %	Dry Density pcf			
1		14.9	113.5	8.5	100.0	89	No	1-4-8-13-14

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. Opt. Moist. ± 3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other _____
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Bottom of Pond

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

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LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz
Star Route
Lindrith, NM 87029

Job No. 31044
Lab/Invoice No. 31490261
Date 05/15/89
Reviewed By L. Wansbach

Project: Lindrith Evaporation Pond
Location: Rio Arriba County, New Mexico
Type of Material: Clay
Authorized By: Client Date: 05/12/89
Source of Material: Native
Tested/Calc. By: H. Kuebler/WT
Moisture/Density Relationship: ASTM D698 Meth. A
Test Locations Designated By: H. Kuebler/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
1	05/12/89	N.W. arroyo, 120' S. of N.E. corner of berm	90'
2	05/12/89	S.E. arroyo, 150' N. of S.E. corner of berm	82'
3	05/12/89	N.W. arroyo, 120' S. of N.W. corner of berm	90'
4	05/12/89	S.E. arroyo, 150' N. of S.E. corner of berm	83'
5R	05/12/89	Retest of Test #4, 05/12/89	83'
6	05/12/89	N.W. corner arroyo, 120' S. of N.W. corner berm	92'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics		Relative Compaction %	Within Specs. ?	Comments *
				Moisture %	Dry Density pcf			
1		14.9	113.5	16.0	114.7	100	Yes	1-9-13-15
2		14.9	113.5	17.5	112.8	100	Yes	1-9-13-15
3		14.9	113.5	13.4	110.7	98	Yes	1-9-13-15
4		14.9	113.5	12.7	110.5	97	No	1-9-13-15
5R		14.9	113.5	11.9	111.7	98	Yes	1-9-13-15
6		14.9	113.5	15.2	110.8	98	Yes	1-9-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. Opt. Moist. ± 3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Berm

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

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LABORATORY REPORT

SOIL/AGGREGATE FIELD DENSITY TESTS

Client: Tony Schmitz
Star Route
Lindrith, NM 87029

Job No. 31044
Lab/Invoice No. 31490261
Date 05/15/89
Reviewed By L. Wasserback

Project: Lindrith Evaporation Pond
Location: Rio Arriba County, New Mexico
Type of Material: Clay
Source of Material: Native
Moisture/Density Relationship: ASTM D698 Meth. A

Authorized By: Client Date: 05/11/89
Tested/Calc. By: H. Kuebler/WT
Test Locations Designated By: H. Kuebler/WT

Test No.	Date	Location of Test Hole	Elevation of Test Datum †
6	05/11/89	S.E. arroyo, 150' W. of S.E. corner of dike	81'
7	05/11/89	N.W. arroyo, 120' S. of N.W. corner of dike	89'
8	05/11/89	S.E. arroyo, 150' N. of S.E. corner of dike	82'
9R	05/11/89	Retest of Test #8, 05/11/89	82'

Test No.	Moisture Density Lab No.	Optimum Moisture %	Max. Dry Density pcf	In-Place Characteristics		Relative Compaction %	Within Specs. ?	Comments *
				Moisture %	Dry Density pcf			
6		14.9	113.5	17.0	110.7	98	Yes	1-9-13-15
7		14.9	113.5	15.2	112.9	100	Yes	1-9-13-15
8		14.9	113.5	15.1	103.4	91	No	1-9-13-15
9R		14.9	113.5	11.9	115.7	100	Yes	1-9-13-15

* Comments
1. Subgrade
2. Subbase Fill
3. Base Course
4. Backfill
5. Pavement Area
6. Below Footing Bottom
7. Above Footing Bottom
8. 100% min. req'd.
9. 98% min. req'd.
10. 95% min. req'd.
11. 90% min. req'd.
12. 85% min. req'd.
13. Opt. Moist. ± 3%
14. Tested D-1556/AASHTO T-217
15. Tested ASTM D-2922/D-3017
16. Tested ASTM D-2922/AASHTO T-217
17. Rock correction applied to maximum dry density. AASHTO T-224
18. Other
19. Test Locations on Accompanying Site Plan
20. Specifications Unknown

† Datum 100'=Top of Berm

Note: Tests reported herein are not part of a continuous monitoring program of compaction operations and accordingly apply only to the actual location tested.

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FIELD REPORT

REVIEW OF EARTHWORK CONSTRUCTION

Job No. _____

Client Tony Schmitz Construction 31044 Invoice No. 31490261

Project Evaporation Ponds - Lindrith Report No. _____ Date 05/19/89

Location Rio Arriba County, New Mexico Report By H. Kuebler/WT Date 05/12/89

Prime Contractor Client Superintendent Tony Schmitz

Earthwork Subcontractor Client Superintendent Tony Schmitz

Earthwork in progress and/or completed since last report: Crew continued to fill arroyos in N.W. and S.E. section of pond site.

Unexpected site conditions: None

Sampling and/or testing performed: Compaction Tests

Conformance of earthwork materials, operations and/or test results to project requirements: Compaction tests indicate fill was being placed to compaction requirements.

Person/persons notified of nonconformance to project requirements: N/A

Nonconformance corrected: N/A

Instructions or information received/from: Tony Schmitz - Work will begin 8:30 a.m. to 9:00 a.m. on Monday, 05/15/89

Tech./Eng'r time on project today: _____ No. of visits today: _____

Time and date for next visit: _____

Copies: Client (3)
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S. C. Mudrick
Reviewed By