APPENDIX C
Soil and Compaction Testing Reports

DAILY FIELD REPORT

☐ Monitoring Fill or Backfill
☐ Monitoring Footing Excavations

Job No.	12100
Page	1 of 1
Report Sequence No.	
Job Location	SAN BERNARDINO, CA
Client or Owner	EPA/SBMWD/CH2MHILL/URS CORP.
General Location of Fill	PVC+ DIP TRENCH BACKFILL
Purpose of Fill or Nature of Structure to be Supported	MUSCOY PIPELINE
Date	8-21-02
Day of Week	WEDS
General Contractor	URS CORP.
Grading or Earthwork Contractor	EL-CO CONTRACTORS, INC
D & M Engineer	W. KIRK
HRS Charged (SITE)	
Contractor's Shift	
Contractor's Superintendent or Foreman	TROY KIRTLEY
HRS Charged (TRAVEL)	
Source and Description of Fill Material	NATIVE SOILS
Superintendents Acknowledgment of Site Visit and Hours	
Assistants	
HRS Charged	
Weather	CLEAR + WARM.

APPROXIMATE YARDAGE		
Total Required	Placed this Shift	Total To - Date

Test Number	Test Location	Elevation	Required % of Maximum Dry Density	Maximum Dry Density lbs/cu. ft.	Fill Moisture %	Test Dry Density lbs/cu. ft.	% of Maximum Dry Density	Remarks

SUPPLEMENTARY REPORT (Describe equipment used for hauling, spreading, watering, conditioning and compacting, also report thickness of lifts, and number of roller trips.)

COMPACTION TEST NOS. 1 THROUGH 4 WERE PERFORMED ON THE PVC+ DIP TRENCH BACKFILL MATERIAL LOCATED ON W. HOME STREET FROM STATION NO. 13+21 APPROX. TO STATION NO. 10+00 APPROX. THE TEST DATA WAS NOT REPORTED.

OBSERVATIONS AND INSPECTIONS WERE MADE ON THE PERFORMANCE OF BOTH THE FIELD COMPACTION TESTING AND THE CONTRACTORS METHOD OF TRENCH BACKFILL BY MOISTURE CONDITIONING FILL SOILS, THEN PLACING TRENCH BACKFILL IN EVEN LIFTS AND COMPACTING EACH LIFT OF BACKFILL SOILS IN PLACE USING A TRACK EXCAVATOR WITH SHEEPSFOOT WHEEL AND CONTINUED SAME OPERATION UNTIL DESIRE GRADES WERE OBTAINED.

– RESIDENT ISPECTOR –

COPY SENT TO CLIENT ☐ CONTINUED ON NEXT PAGE ☐ NICK REYLEK

134.10 1/89

DAILY FIELD REPORT

☐ Monitoring Fill or Backfill

☐ Monitoring Footing Excavations

Job No.	12600
Page	1 of 1
Report Sequence No.	

Job Location: SAN BERNARDINO, CA.	Client or Owner: EPA / SBMWD / CH2MHILL / URS CORP.		
General Location of Fill: PVC + DIP TRENCH BACKFILL	Purpose of Fill or Nature of Structure to be Supported: MUSCOY PIPELINE	Date: 8-27-02	Day of Week: TUE
General Contractor: URS CORP.	Grading or Earthwork Contractor: EL-CO CONTRACTORS, INC.	D & M Engineer: W. KIRK	HRS Charged (SITE):
Contractor's Shift:	Contractor's Superintendent or Foreman: TROY KIRTLEY		HRS Charged (TRAVEL):

Source and Description of Fill Material: NATIVE MATERIALS	Superintendent's Acknowledgment of Site Visit and Hours	Assistants	HRS Charged
Weather: CLEAR WARM			

APPROXIMATE YARDAGE		
Total Required	Placed this Shift	Total To - Date

Test Number	Test Location	Elevation	Required % of Maximum Dry Density	Maximum Dry Density lbs/cu. ft.	Fill Moisture %	Test Dry Density lbs/cu. ft.	% of Maximum Dry Density	Remarks

SUPPLEMENTARY REPORT (Describe equipment used for hauling, spreading, watering, conditioning and compacting, also report thickness of lifts, and number of roller trips.)

COMPACTION TEST NOS. 5 THROUGH 10 WERE PERFORMED ON THE DIP AND PVC PIPELINE TRENCH BACKFILL MATERIAL LOCATED ON N. PERRIS STREET FROM STATION NO. 108+50 APPROX. TO STATION NO. 112+60 APPROX. THE TEST DATA WAS NOT REPORTED.

OBSERVATIONS AND INSPECTIONS WERE MADE ON THE PERFORMANCE OF BOTH THE FIELD COMPACTION TESTING AND THE CONTRACTORS METHOD OF TRENCH BACKFILL BY MOISTURE CONDITIONING FILL SOILS, THEN PLACING TRENCH BACKFILL IN EVEN LIFTS AND COMPACTING EACH LIFT OF BACKFILL SOILS IN PLACE USING A TRACK EXCAVATOR WITH SHEEPSFOOT WHEEL AND CONTINUED UNTIL DESIRE GRADES WERE OBTAINED.

- RESIDENT INSPECTOR -

NICK REYLEK

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114.10 1/89

DAILY FIELD REPORT

Job No. 12600

Page 1 of 1

Job Location: SAN BERNARDINO CA.	Client or Owner: URS - SACRAMENTO		Report Sequence No.
General Location of Fill: SEE BELOW	Purpose of Fill or Nature of Structure to be Supported: WATER LINE BACKFILL	Date: 9.6.02	Day of Week: FRIDAY
General Contractor: ELCO CONTRACTORS	Grading or Earthwork Contractor: ELCO CONTRACTORS	Job Engineer: N. REYLEK	HRS Charged
Contractor's Shift	Contractor's Superintendent or Foreman: TROY KIRTLEY	Assistants: BRYAN	HRS Charged: 4

Source and Description of Fill Material: NATIVE SOIL

Weather: SUNNY / WARM

APPROXIMATE YARDAGE		
Total Req'd.	Placed this Shift	Total To-Date

Test Number	Test Location	Elevation	Reference Compaction Curve	Maximum Dry Density lbs./cu.ft.	Fill Moisture %	Test Dry Density lbs./cu.ft.	% of Maximum Dry Density	Daily Report Describing Compaction
11	96+40	1148	90%	118.0	13.5	115.9	98	P
12	98+90	1145	90%	118.0	11.5	116.7	98	P
13	99+30	1145	90%	118.0	13.1	107.1	91	P
14	100+00	1144	90%	118.0	12.2	111.1	94	P

SUPPLEMENTARY REPORT (Describe equipment used for hauling, spreading, watering, conditioning and compacting; also report thickness of lifts, and number of roller trips.)

ON SITE FOR COMPACTION TESTING & OBSERVATION.

EQUIPMENT ON JOBSITE WAS 1 WATER TRUCK, 1 LOADER 544H

1 EXCAVATOR 690 D, 1 BACKHOE 410E + 1 EXCAVATOR 230LC

USED FOR COMPACTION WITH A SHEEPS FOOT WHEEL. MONITORED

WATER PLACED TO BACKFILL FOR OPTIMUM MOISTURE CONTENT.

ALL COMPACTION TESTS TAKEN WERE PASSING THE

REQUIRED 90%. TEST WERE TAKEN BETWEEN MASSACHUSETTS

& GARNER ON 14th St.

DAILY FIELD REPORT

Job No. 12600

Page 1 of 1

Job Location: SAN BERNARDINO CA	Client or Owner: URS - SACRAMENTO	Report Sequence No.	
General Location of Fill: SEE BELOW	Purpose of Fill or Nature of Structure to be Supported: WATER LINE BACKFILL	Date: 9.9.02	Day of Week: MONDAY
General Contractor: ELCO CONTRACTORS	Grading or Earthwork Contractor: ELCO CONTRACTORS	Job Engineer: N. REYLEK	HRS Charged
Contractor's Shift	Contractor's Superintendent or Foreman: TROY KIRTLEY	Assistants: BRYAN	HRS Charged: 4

Source and Description of Fill Material: NATIVE SOIL

Weather: SUNNY / WARM

APPROXIMATE YARDAGE		
Total Req'd.	Placed this Shift	Total To-Date

Test Number	Test Location	Elevation	Reference Compaction Curve	Maximum Dry Density lbs./cu.ft.	Fill Moisture %	Test Dry Density lbs./cu.ft.	% of Maximum Dry Density	Daily Report Describing Compaction
15	103+80	1144	90	118.0	10.2	106.9	91	P
16	105+90	1140	90	118.0	12.8	108.5	92	P
17	106+60	1138	90	118.0	12.7	115.6	98	P

SUPPLEMENTARY REPORT (Describe equipment used for hauling, spreading, watering, conditioning and compacting; also report thickness of lifts, and number of roller trips.)

ON SITE TODAY FOR COMPACTION TESTING & OBSERVATION. EQUIPMENT ON JOBSITE USED FOR BACKFILL 1 WATER TRUCK 1 LOADER 544H 1 EXCAVATOR 690D 1 BACKHOE 410E & 1 EXCAVATOR 230LC USED FOR COMPACTION WITH A SHEEPSFOOT WHEEL. TODAYS TESTING WAS DONE ON AN AREA BACKFILLED A FEW DAYS PRIOR, ON A DAY WHEN A TECH WAS UNAVAILABLE. ALL TEST WERE PASSING THE REQUIRED 90%. TESTS TAKEN WERE BETWEEN K ST. & MASSACHUSETTS ON 14th ST.

DAILY FIELD REPORT

Job No. 12600

Page 1 of 1

Job Location: SAN BERNARDINO CA	Client or Owner: URS. SACRAMENTO	Report Sequence No.
General Location of Fill: SEE BELOW	Purpose of Fill or Nature of Structure to be Supported: WATER LINE BACKFILL	Date: 9/10/02 — Day of Week: TUESDAY
General Contractor: ELCO CONTRACTORS	Grading or Earthwork Contractor: ELCO CONTRACTORS	Job Engineer: N. REYLEK — HRS Charged:
Contractor's Shift:	Contractor's Superintendent or Foreman: TROY KIRTLEY	Assistants: BRYAN — HRS Charged: 8

Source and Description of Fill Material: NATIVE SOIL

Weather: SUNNY/WARM

APPROXIMATE YARDAGE

Total Req'd.	Placed this Shift	Total To-Date

Test Number	Test Location	Elevation	Reference Compaction Curve	Maximum Dry Density lbs./cu.ft.	Fill Moisture %	Test Dry Density lbs./cu.ft.	% of Maximum Dry Density	Daily Report Describing Compaction
18	108+20	1136	90	123.0	11.1	112.5	92	P
19	111+00	1133	90	123.0	9.2	111.9	91	P
20	94+75	1147	90	128.0	11.5	120.1	93	P
21	93+50	1151	90	128.0	11.1	122.1	95	P

SUPPLEMENTARY REPORT (Describe equipment used for hauling, spreading, watering, conditioning and compacting; also report thickness of lifts, and number of roller trips.)

ON SITE TODAY FOR COMPACTION TESTING & OBSERVATION EQUIPMENT ON JOBSITE WAS 1 WATER TRUCK 1 LOADER 544H 1 EXCAVATOR 690D, 1 BACKHOE 410E 1 EXCAVATOR USED FOR COMPACTION WITH A SHEEPS FOOT WHEEL. TEST #18 & #19 ARE TEST TAKEN BACK ~~FROM~~ A COUPLE OF DAYS AGO WHEN A SOILS TECH WAS UNAVAILABLE. TEST WERE PASSING. TESTS #20 & #21 ARE CURRENT TESTS FROM TODAYS COMPACTION, PASSING 90% AS REQUIRED. 18/19 TEST LOCATIONS WEST PERRIS & 14th ST. 20/21 TEST LOCATIONS 14th & GARNER

DAILY FIELD REPORT

Job No. 12600

Page 1 of 1

Job Location: SAN BERNARDINO CA	Client or Owner: URS – SACRAMENTO	Report Sequence No.
General Location of Fill: SEE BELOW	Purpose of Fill or Nature of Structure to be Supported: WATER LINE BACKFILL	Date: 9.11.02 / Day of Week: WEDNESDAY
General Contractor: ELCO CONTRACTORS	Grading or Earthwork Contractor: EL·CO CONTRACTORS	Job Engineer: N. REYLEK / HRS Charge
Contractor's Shift	Contractor's Superintendent or Foreman: TROY KIRTLEY	Assistant's: BRYAN / HRS Charge: 8

Source and Description of Fill Material: NATIVE SOIL

Weather: SUNNY / WARM

APPROXIMATE YARDAGE		
Total Req'd.	Placed this Shift	Total To-Date

Test Number	Test Location	Elevation	Reference Compaction Curve	Maximum Dry Density lbs./cu.ft.	Fill Moisture %	Test Dry Density lbs./cu.ft.	% of Maximum Dry Density	Daily Report Describing Compaction
22	91+00	1150	90	128.0	12.4	117.5	92	P
23	90+00	1154	90	128.0	10.9	121.3	95	P
24	89+50	1154	90	128.0	8.3	115.5	90	P

SUPPLEMENTARY REPORT (Describe equipment used for hauling, spreading, watering, conditioning and compacting; also report thickness of lifts, and number of roller trips.)

ON SITE FOR COMPACTION TESTING & OBSERVATION. EQUIPMENT USED FOR BACKFILL & COMPACTION 1 WATER TRUCK 1 LOADER 544H 1 EXCAVATOR 690D 1 BACKHOE 410E 1 EXCAVATOR USED FOR COMPACTION WITH A SHEEPS FOOT WHEEL. MONITORED WATER FOR OPTIMUM MOISTURE. ALL TESTS TAKEN WERE PASSING THE REQUIRED 90%. TODAYS TESTS WERE TAKEN BETWEEN TURRIL ST. & MT VERNON.

DAILY FIELD REPORT

Job No. 12600

Page 1 of 1

Job Location: SAN BERNARDINO CA.	Client or Owner: URS SACRAMENTO	Report Sequence No.	
General Location of Fill: SEE BELOW	Purpose of Fill or Nature of Structure to be Supported: WATER LINE BACKFILL	Date: 9.12.02	Day of Week: THURSDAY
General Contractor: EL-CO CONTRACTORS	Grading or Earthwork Contractor: EL-CO CONTRACTORS	Job Engineer: N. REYLEK	HRS Charged
Contractor's Shift	Contractor's Superintendent or Foreman: TORY KIRTLEY	Assistants: BRYAN	HRS Charged: 4

Source and Description of Fill Material: NATIVE SOIL

Weather: SUNNY / WARM

APPROXIMATE YARDAGE

Total Req'd.	Placed this Shift	Total To-Date

Test Number	Test Location	Elevation	Reference Compaction Curve	Maximum Dry Density lbs./cu.ft.	Fill Moisture %	Test Dry Density lbs./cu.ft.	% of Maximum Dry Density	Daily Report Describing Compaction
25	88+50	1157	90	128.0	9.8	119.5	93	P
26	87+80	1155	90	128.0	10.1	121.5	94	P

SUPPLEMENTARY REPORT (Describe equipment used for hauling, spreading, watering, conditioning and compacting; also report thickness of lifts, and number of roller trips.)

ON SITE FOR COMPACTION TESTING & OBSERVATION. TESTS TAKEN TODAY WERE PASSING THE REQUIRED 90% COMPACTION. ONLY 2 TEST WERE TAKEN TODAY, CONTRACTOR HAD A PROBLEM WHEN ENTERING THE STREET AT MT. VERNON. EQUIPMENT ON THE JOBSITE USED TODAY 1 WATER TRUCK 1 LOADER 544H 1 EXCAVATOR 690D 1 BACKHOE 410E 1 EXCAVATOR 330 LC WITH SHEEPS FOOT WHEEL WAS USED FOR COMPACTION. AREA TESTED TODAY WAS ON 14TH ST. E/O MT VERNON.

DAILY FIELD REPORT

Job No. 12600

Page of

Job Location: SAN BERNARDINO CA.	Client or Owner: URS. SACRAMENTO	Report Sequence No.	
General Location of Fill: SEE BELOW	Purpose of Fill or Nature of Structure to be Supported: WATERLINE BACKFILL	Date: 9.13.02	Day of Week: FRIDAY
General Contractor: EL-CO CONTRACTORS	Grading or Earthwork Contractor: EL-CO CONTRACTORS	Job Engineer: R. REYLEX	HRS Charged
Contractor's Shift	Contractor's Superintendent or Foreman: TROY KIRTLEY	Assistants: BRYAN	HRS Charged: 8

Source and Description of Fill Material: NATIVE SOIL

Weather: SUNNY / WARM

APPROXIMATE YARDAGE		
Total Req'd.	Placed this Shift	Total To-Date

Test Number	Test Location	Elevation	Reference Compaction Curve	Maximum Dry Density lbs./cu.ft.	Fill Moisture %	Test Dry Density lbs./cu.ft.	% of Maximum Dry Density	Daily Report Describing Compaction
27	87+10	1155	90	128.0	12.3	115.4	90	P
28	86+90	1159	90	128.0	9.9	121.3	95	P
29	86+50	1156	90	128.0	12.1	119.7	93	P

SUPPLEMENTARY REPORT (Describe equipment used for hauling, spreading, watering, conditioning and compacting; also report thickness of lifts, and number of roller trips.)

ON SITE FOR COMPACTION TESTING & OBSERVATION.

EQUIPMENT USED TODAY 1 WATER 1 EXCAVATOR 690D 1 BACKHOE 410E 1 LOADER 544H 1 EXCAVATOR 270LC USED FOR COMPATION WITH A SHEEPS FOOT WHEEL. ALL TEST WERE TAKEN ON MT VERNON STREET. ALL TEST WERE PASSING THE REQUIRED 90%.

DAILY FIELD REPORT

Job No. 126000
Page of

Job Location: IN BERNARDINO CA	Client or Owner: URS - SACRAMENTO	Report Sequence No.	
General Location of Fill: SEE BELOW	Purpose of Fill or Nature of Structure to be Supported: WATERLINE BACKFILL	Date: 9-16-02	Day of Week: MONDAY
General Contractor: EL-CO CONTRACTORS	Grading or Earthwork Contractor: EL-CO CONTRACTORS	Job Engineer: N. REYLEK	HRS Charged
Contractor's Shift	Contractor's Superintendent or Foreman: TROY KIRTLEY	Assistants: BRYAN	HRS Charged: 4

Source and Description of Fill Material: NATIVE SOIL

Weather: SUNNY/WARM

APPROXIMATE YARDAGE		
Total Req'd.	Placed this Shift	Total To-Date

Test Number	Test Location	Elevation	Reference Compaction Curve	Maximum Dry Density lbs./cu.ft.	Fill Moisture %	Test Dry Density lbs./cu.ft.	% of Maximum Dry Density	Daily Report Describing Compaction
30	85+20	1159	90	128.0	12.3	115.5	90	P
31	84+00	1158	90	128.0	10.1	119.1	93	P.
32	83+10	1159	90	128.0	9.1	117.3	92	P

SUPPLEMENTARY REPORT (Describe equipment used for hauling, spreading, watering, conditioning and compacting; also report thickness of lifts, and number of roller trips.)

ON SITE TODAY FOR COMPACTION TESTING & OBSERVATION. ARRIVED IN THE AFTERNOON - EQUIPMENT USED - 1 WATER TRUCK 1 EXCAVATOR 690D 1 LOADER 544H 1 BACKHOE 416E 1 EXCAVATOR WITH A SHEEPSFOOT WHEEL WAS USED FOR COMPACTION. MONITORED WATER FOR OPTIMUM MOISTURE. ALL TESTS PASSING TODAY. AREA TESTED TODAY WAS BETWEEN MT VERNON & HERRINGTON ON 14th ST.

DAILY FIELD REPORT

Job No. 12600
Page of

Job Location: SAN BERNARDINO CA	Client or Owner: URS- SACRAMENTO	Report Sequence No.	
General Location of Fill: SEE BELOW	Purpose of Fill or Nature of Structure to be Supported: WATERLINE BACKFILL	Date: 9.17.02	Day of Week: TUESDAY
General Contractor: EL-CO CONTRACTORS	Grading or Earthwork Contractor: EL-CO CONSTRUCTION	Job Engineer: N.REYLEK	HRS Charge:
Contractor's Shift	Contractor's Superintendent or Foreman: TROY KIRTLEY	Assistants: BRYAN	HRS Charge: 4

Source and Description of Fill Material: NATIVE SOIL

Weather: SUNNY | WARM

APPROXIMATE YARDAGE		
Total Req'd.	Placed this Shift	Total To-Date

Test Number	Test Location	Elevation	Reference Compaction Curve	Maximum Dry Density lbs./cu.ft.	Fill Moisture %	Test Dry Density lbs./cu.ft.	% of Maximum Dry Density	Daily Report Describing Compaction
33	82+50	1160	90	128.0	8.9	117.4	92	P
34	81+80	1160	90	128.0	8.5	119.1	93	P
35	81+20	1163	90	128.0	9.2	115.2	90	P

SUPPLEMENTARY REPORT (Describe equipment used for hauling, spreading, watering, conditioning and compacting; also report thickness of lifts, and number of roller trips.)

ARRIVED AT NOON FOR COMPACTION TESTING. AREA TESTED WAS 14th St. @ Herrington. ALL TESTS WERE PASSING THE 90% COMPACTION REQUIRED. EQUIPMENT USED TODAY 1 WATER TRUCK 1 LOADER 544H 1 BACKHOE 410E 1 EXCAVATOR 690D & 1 EXCAVATOR 230LC WITH A SHEEPS FOOT WHEEL WAS USED FOR COMPACTION EFFORT.

DAILY FIELD REPORT

Job No. 12600

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MUSCOY PIPELINE

Job Location: SAN BERNARDINO CA.	Client or Owner: URS · SACRAMENTO	Report Sequence No.	
General Location of Fill: SEE BELOW	Purpose of Fill or Nature of Structure to be Supported: WATER LINE BACKFILL	Date: 9.18.02	Day of Week: WEDNESDAY
General Contractor: EL·CO CONTRACTORS	Grading or Earthwork Contractor: EL·CO CONTRACTORS	Job Engineer: N REYLEK	HRS Charged
Contractor's Shift	Contractor's Superintendent or Foreman: TROY KIRTLEY	Assistant: BRYAN	HRS Charged: 4

Source and Description of Fill Material: NATIVE SOIL

Weather: SUNNY / WARM

APPROXIMATE YARDAGE		
Total Req'd.	Placed this Shift	Total To-Date

Test Number	Test Location	Elevation	Reference Compaction Curve	Maximum Dry Density lbs./cu.ft.	Fill Moisture %	Test Dry Density lbs./cu.ft.	% of Maximum Dry Density	Daily Report Describing Compaction
36	80+00	1164	90	128.0	10.8	116.2	91	P
37	78+10	1162	90	128.0	8.2	116.8	91	P
38	77+50	1164	90	128.0	9.7	119.4	93	P

SUPPLEMENTARY REPORT (Describe equipment used for hauling, spreading, watering, conditioning and compacting; also report thickness of lifts, and number of roller trips.)

ON SITE FOR COMPACTION TESTING & OBSERVATION.
EQUIPMENT USED TODAY 1 WATER TRUCK 1 BACKHOE 410E
1 LOADER 544H 1 EXCAVATOR 690D & 1 EXCAVATOR 220LC
WAS USED FOR COMPACTION EFFORT. ALL COMPACTION TEST
PASSED THE 90% REQUIRED FOR COMPACTION. MONITORED
WATER ADDED TO BACKFILL MATERIAL FOR OPTIMUM
WATER CONTENT. AREAS TESTED WERE AT N. PICO
& 14th ST.

DAILY FIELD REPORT

Job No. 12600

Page of

Job Location: SAN BERNARDINO CA	Client or Owner: URS - SACRAMENTO	Report Sequence No.	
General Location of Fill: SEE BELOW	Purpose of Fill or Nature of Structure to be Supported: WATERLINE BACKFILL	Date: 9.19.02	Day of Week: THURSDAY
General Contractor: EL-CO. CONTRACTORS	Grading or Earthwork Contractor: EL CO CONTRACTORS	Job Engineer: N. REYLEK	HRS Charged
Contractor's Shift	Contractor's Superintendent or Foreman: TROY KIRTLEY	Assistants: BRYAN	HRS Charged: 4

Source and Description of Fill Material: NATIVE SOIL

Weather: SUNNY/WARM

APPROXIMATE YARDAGE

Total Req'd.	Placed this Shift	Total To-Date

Test Number	Test Location	Elevation	Reference Compaction Curve	Maximum Dry Density lbs./cu.ft.	Fill Moisture %	Test Dry Density lbs./cu.ft.	% of Maximum Dry Density	Daily Report Describing Compaction
39	77+00	1166	90	123.0	10.0	110.4	90	P
40	76+60	1165	90	123.0	10.4	112.3	91	P

SUPPLEMENTARY REPORT (Describe equipment used for hauling, spreading, watering, conditioning and compacting; also report thickness of lifts, and number of roller trips.)

ON SITE FOR COMPACTION TESTING. AREA TESTED 14th st AT BLACKSTONE. TESTS TAKEN WERE PASSING AT REQUIRED 90% COMPACTION. MONITORED WATER FOR OPTIMUM MOISTURE CONTENT. MAXIMUM DENSITY CHANGED, MATERIAL IS LIGHTER. EQUIPMENT USED \WATER TRUCK \LOADER 544H \BACKHOE 410E \EXCAVATOR 690D & \EXCAVATOR USED FOR COMPACTION EFFORT.

DAILY FIELD REPORT

Job No. 12600
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Job Location: SN BERNARDINO CA	Client or Owner: URS- SACRAMENTO	Report Sequence No.	
General Location of Fill: SEE BELOW	Purpose of Fill or Nature of Structure to be Supported: WATERLINE BACKFILL	Date: 9.24.02	Day of Week: TUESDAY
General Contractor: EL-CO. CONSTRACTORS	Grading or Earthwork Contractor: EL-CO CONTRACTORS	Job Engineer: N. REYLEK	HRS Charged
Contractor's Shift	Contractor's Superintendent or Foreman: TROY KIRTLEY	Assistants: BRYAN	HRS Charged: 8

Source and Description of Fill Material: NATIVE SOIL

Weather: SUNNY WARM

APPROXIMATE YARDAGE		
Total Req'd.	Placed this Shift	Total To-Date

Test Number	Test Location	Elevation	Reference Compaction Curve	Maximum Dry Density lbs./cu.ft.	Fill Moisture %	Test Dry Density lbs./cu.ft.	% of Maximum Dry Density	Daily Report Describing Compaction
41	75+50	1165	90	123.0	10.4	113.1	92	P
42	74+70	1165	90	123.0	9.9	111.8	91	P
43	73+60	1165	90	123.0	9.6	110.8	90	P
44	72+50	1164	90	123.0	11.6	113.0	92	P
45	71+80	1166	90	123.0	12.0	114.2	93	P

SUPPLEMENTARY REPORT (Describe equipment used for hauling, spreading, watering, conditioning and compacting; also report thickness of lifts, and number of roller trips.)

ON SITE 8AM FOR COMPACTION TESTING & OBSERVATION. MONITORED WATER FOR OPTIMUM MOISTURE AS MATERIAL WAS BEING BACKFILLED. ALL TEST WERE PASSING THE 90% REQUIREMENT PER SPECS. EQUIPMENT USED 1 EXCAVATOR 6900 1 LOADER 544H 1 WATER TRUCK 1 BACKHOE 410E 1 EXCAVATOR 230LC WAS USED FOR COMPACTION. AREA TESTED BLACKSTON BETWEEN 14th & VIRGINIA ST. ALSO TESTS TAKEN ON VIRGINIA ST.

DAILY FIELD REPORT

Job No. 12600

Page 1 of 1

Job Location: SAN BERNARDINO CA.	Client or Owner: URS - SACRAMENTO	Report Sequence No.	
General Location of Fill: SEE BELOW	Purpose of Fill or Nature of Structure to be Supported: WATER LINE BACKFILL	Date: 9-25-02	Day of Week: WEDNESDAY
General Contractor: ELCO CONTRACTORS	Grading or Earthwork Contractor: ELCO CONTRACTORS	Job Engineer: N. REYLEX	HRS Charged
Contractor's Shift	Contractor's Superintendent or Foreman: TROY KIRTLEY	Assistants: BRYAN	HRS Charged: 8

Source and Description of Fill Material: NATIVE SOIL

Weather: SUNNY / WARM

APPROXIMATE YARDAGE		
Total Req'd.	Placed this Shift	Total To-Date

Test Number	Test Location	Elevation	Reference Compaction Curve	Maximum Dry Density lbs./cu.ft.	Fill Moisture %	Test Dry Density lbs./cu.ft.	% of Maximum Dry Density	Daily Report Describing Compaction
46	71+20	1166	90	123.0	9.5	116.1	94	P
47	71+00	1168	90	123.0	10.1	111.4	90	P
48	70+50	1166	90	123.0	10.3	114.9	94	P
49	69+90	1167	90	123.0	10.6	112.0	91	P
50	68+50	1170	90	123.0	9.2	115.3	94	P

SUPPLEMENTARY REPORT (Describe equipment used for hauling, spreading, watering, conditioning and compacting; also report thickness of lifts, and number of roller trips.)

ON SITE FOR COMPACTION TESTING. ARRIVED @ 8AM. EQUIPMENT ON SITE 1 WATER TRUCK 1 BACKHOE 410E 1 LOADER 544H 1 EXCAVATOR 6900 1 EXCAVATOR 230LC USED FOR COMPACTION WITH A SHEEPS FOOT WHEEL. ALL TESTS WERE PASSING MOISTURE CONTENT WAS AT OPTIMUM. ALL TESTS TAKEN ON VIRGINIA ST.

DAILY FIELD REPORT

Job No. 12600

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Job Location: SAN BERNARDINO CA.	Client or Owner: URS · SACRAMENTO	Report Sequence No.
General Location of Fill: SEE BELOW	Purpose of Fill or Nature of Structure to be Supported: WATER LINE BACKFILL	Date: 9.27.02 / Day of Week: FRIDAY
General Contractor: ELCO CONTRACTORS	Grading or Earthwork Contractor: ELCO CONTRACTORS	Job Engineer: N. REYLEK / H.P.S. Charged
Contractor's Shift	Contractor's Superintendent or Foreman: TROY KIRTLEY	Assistants: BRYAN / H.P.S. Charged: 4

Source and Description of Fill Material: NATIVE SOIL

Weather: SUNNY / WARM

APPROXIMATE YARDAGE

Total Req'd.	Placed this Shift	Total To-Date

Test Number	Test Location	Elevation	Reference Compaction Curve	Maximum Dry Density lbs./cu.ft.	Fill Moisture %	Test Dry Density lbs./cu.ft.	% of Maximum Dry Density	Daily Report Describing Compaction
51	67+60	1170	1[illegible]	123.0	11.8	117.3	95	P
52	67+00	1169	90	123.0	9.9	115.6	94	P
53	66+50	1169	90	123.0	9.2	111.9	91	P

SUPPLEMENTARY REPORT (Describe equipment used for hauling, spreading, watering, conditioning and compacting; also report thickness of lifts, and number of roller trips.)

ON SITE AM. HOURS FOR COMPACTION TESTING.
ALL TEST TAKEN ON VIRGINIA ST. ALL TEST PASSING
THE REQUIRED 90% PER SPECS. EQUIPMENT ON SITE
TODAY 1 WATER TRUCK 1 LOADER 544H 1 BACKHOE CHOE
1 EXCAVATOR 690D 1 EXCAVATOR 230LC WAS USED
FOR COMPACTION WITH A SHEEPS FOOT WHEEL.

DAILY FIELD REPORT

Job No. 12600

Page 1 of 1

Job Location: SAN BERNARDINO, CA	Client or Owner: EPA / SBMWD / CH2M HILL / URS CORP	Report Sequence No.	
General Location of Fill: DIP TRENCH BACKFILL	Purpose of Fill or Nature of Structure to be Supported: MUSCOY PIPELINE	Date: 11-13-02	Day of Week: WED
General Contractor: URS CORP.	Grading or Earthwork Contractor: EL-CO CONTRACTORS, INC	Job Engineer: N. REYLEK	HRS Charged
Contractor's Shift	Contractor's Superintendent or Foreman: TROY KIRTLEY	Assistants	HRS Charged

Source and Description of Fill Material

Weather: CLEAR

APPROXIMATE YARDAGE

Total Req'd.	Placed this Shift	Total To-Date

Test Number	Test Location STATION NO.	Elevation	Reference Compaction Curve	Maximum Dry Density lbs./cu.ft.	Fill Moisture %	Test Dry Density lbs./cu.ft.	% of Maximum Dry Density	Daily Report Describing Compaction
1	39+75	1192		131.0	9.9	116.8	86	RETEST NO. 2
2	39+75	1192		131.0	11.6	119.4	91	
3	39+80	1194		131.0	12.3	120.7	92	
4	39+20	1193		131.0	10.1	115.4	88	RETEST NO. 5
5	38+20	1193		131.0	12.2	122.2	93	
6	37+50	1193		131.0	9.7	120.3	92	

SUPPLEMENTARY REPORT (Describe equipment used for hauling, spreading, watering, conditioning and compacting; also report thickness of lifts, and number of roller trips.)

EQUIPMENT USED: 1-TRACK EXCAVATOR WITH SHEEPS FOOT WHEEL

1- 410 JOHN DEERE BACKHOE

1- WATERTRUCK.

CONTRACTOR PLACING TRENCH BACKFILL MATERIAL IN LIFTS WITH BACKHOE, OVER P.DE LINE.

CONTRACTOR USING WATER TRUCK WITH 1 1/2" HOSE TO MOISTEN BACKFILL DURING PLACEMENT OF LIFTS IN P.DE TRENCH AND DURING COMPACTION OPERATION WITH SHEEPSFOOT WHEEL.

CONTRACTOR USING EXCAVATOR WITH SHEEPSFOOT WHEEL TO COMPACT AND MIX SOILS IN

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927.3 (1-86)

DAILY FIELD REPORT

Job No. 12600

Page 1 of 1

Job Location: SAN BERNARDINO, CA	Client or Owner: EPA/SBMWD/CH2M HILL/URS CORP	Report Sequence No.	
General Location of Fill: DIP TRENCH BACKFILL	Purpose of Fill or Nature of Structure to be Supported: MUSCOY PIPELINE	Date: 11-14-02	Day of Week: THUR
General Contractor: URS CORP.	Grading or Earthwork Contractor: EL-CO CONTRACTORS, INC	Job Engineer: NEKREYLEK	HRS Charged
Contractor's Shift	Contractor's Superintendent or Foreman: TROY KIRTLEY	Assistants	HRS Charged

Source and Description of Fill Material

Weather: CLEAR

APPROXIMATE YARDAGE

Total Req'd.	Placed this Shift	Total To-Date

Test Number	Test Location STATION NO.	Elevation	Reference Compaction Curve	Maximum Dry Density lbs./cu.ft.	Fill Moisture %	Test Dry Density lbs./cu.ft.	% of Maximum Dry Density	Daily Report Describing Compaction
7	37+00	1194		125.0	12.2	117.2	94	
8	36+70	1196		125.0	10.7	113.7	91	
9	36+35	1195		125.0	11.0	114.8	92	

SUPPLEMENTARY REPORT (Describe equipment used for hauling, spreading, watering, conditioning and compacting; also report thickness of lifts, and number of roller trips.)

SAME EQUIPMENT USED.
CONTRACTOR CONTINUING TO PLACE TRENCH BACKFILL MATERIAL IN PIPE TRENCH IN EVEN LIFTS WITH BACKHOE
CONTRACTOR USING WATER TRUCK WITH WATER HOSE TO MOISTURE CONDITION BACKFILL MATERIAL DURING PLACEMENT AND COMPACTING OPERATION.
CONTRACTOR CONTINUED TO USE TRACK EXCAVATOR WITH SHEEPS FOOT WHEEL TO COMPACT EACH LIFT OF TRENCH BACKFILL MATERIAL PLACED OVER PIPELINE TO STREET GRADE.

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DAILY FIELD REPORT

Job No. 12600

Page 1 of 1

Job Location: SAN BERNARDINO, CA	Client or Owner: EPA/SBMWD/CH2MHILL/URS CORP
General Location of Fill: DIP TRENCH BACKFILL	Purpose of Fill or Nature of Structure to be Supported: MUSCOY PIPELINE
General Contractor: URS. CORP.	Grading or Earthwork Contractor: EL-CO CONTRACTORS, INC.
Contractor's Shift:	Contractor's Superintendent or Foreman: TROY KIRTLEY

Report Sequence No.:

Date: 11-15-02 Day of Week: FRI

Job Engineer: W.N. REYLEK HRS Charged:

Assistants: HRS Charged:

Source and Description of Fill Material:

Weather: CLEAR

APPROXIMATE YARDAGE

Total Req'd.	Placed this Shift	Total To-Date

Test Number	Test Location	Elevation	Reference Compaction Curve	Maximum Dry Density lbs./cu.ft.	Fill Moisture %	Test Dry Density lbs./cu.ft.	% of Maximum Dry Density	Daily Report Describing Compaction
10	STATION NO. 3+47.15	1194		125.0	9.0	109.0	87	
11	3+47.15	1194		125.0	10.3	114.1	91	RETEST NO. 11
12	3+00	1196		125.0	9.6	116.2	93	

SUPPLEMENTARY REPORT (Describe equipment used for hauling, spreading, watering, conditioning and compacting; also report thickness of lifts, and number of roller trips.)

SAME EQUIPMENT USED.
CONTRACTOR CONTINUING TO PLACE THE TRENCH BACKFILL MATERIAL IN THE PIPE TRENCH IN EVEN LIFTS WITH BACKHOE. EXCAVATOR SPREADING BACKFILL MATERIAL OUT IN THIN EVEN LIFTS BEFORE COMPACTING WITH SHEEPS FOOT WHEEL. CONTRACTOR USING WATERTRUCK WITH WATER HOSE 1½" TO MOISTEN FILL MATERIAL DURING PLACEMENT AND COMPACTION OPERATIONS.

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DAILY FIELD REPORT

Job No. 12600

Page 1 of 1

Job Location: SAN BERNARDINO, CA	Client or Owner: EPA/SBMWD/BRZMHL/UBCWP	Report Sequence No.	
General Location of Fill: DITCH BACKFILL	Purpose of Fill or Nature of Structure to be Supported: MUSCOY PIPELINE	Date: 11-18-02	Day of Week: MON
General Contractor: UKS CORP.	Grading or Earthwork Contractor: EL-CO CONTRACTORS, INC.	Job Engineer: NREYLEK	HRS Charged
Contractor's Shift	Contractor's Superintendent or Foreman: TROY KIRTLEY	Assistants	HRS Charged

Source and Description of Fill Material

Weather: CLEAR

APPROXIMATE YARDAGE

Total Req'd.	Placed this Shift	Total To-Date

Test Number	Test Location STATION NO.	Elevation	Reference Compaction Curve	Maximum Dry Density lbs./cu.ft.	Fill Moisture %	Test Dry Density lbs./cu.ft.	% of Maximum Dry Density	Daily Report Describing Compaction
13	35+50	1195		125.0	9.4	114.2	91	
14	35+25	1198		125.0	11.6	116.4	93	
15	34+65	1197		125.0	10.8	112.6	90	
16	34+24	1200		125.0	12.1	117.7	94	
17	33+40	1201		125.0	11.3	116.6	93	
18	33+15	1202		125.0	10.9	117.6	94	

SUPPLEMENTARY REPORT (Describe equipment used for hauling, spreading, watering, conditioning and compacting; also report thickness of lifts, and number of roller trips.)

SAME EQUIPMENT USED.
CONTRACTOR PLACING TRENCH BACKFILL MATERIAL IN LIFTS WITH BACKHOE. IN PIPE TRENCH.
CONTRACTOR USING WATER TRUCK TO MOISTEN TRENCH BACKFILL MATERIAL DURING PLACEMENT OF LIFTS IN THE PIPE TRENCH AND DURING THE COMPACTION OPERATION.
CONTRACTOR USING TRACK EXCAVATOR WITH SHEEP'S FOOT WHEEL TO COMPACT EACH LIFT PLACED.

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DAILY FIELD REPORT

Job No. 12600

Page 1 of 1

Job Location: SAN BERNARDINO, CA.	Client or Owner: EPA/SBMWD/CH2MHILL/URS CORP.	Report Sequence No.	
General Location of Fill: DIP TRENCH BACKFILL	Purpose of Fill or Nature of Structure to be Supported: MUSCOY PIPELINE	Date: 11-19-02	Day of Week: TUE
General Contractor: URS CORP.	Grading or Earthwork Contractor: EL-CO CONTRACTORS, INC.	Job Engineer: NICKPROSER	HRS Charged
Contractor's Shift	Contractor's Superintendent or Foreman: TROY KIRTLEY	Assistants	HRS Charged

Source and Description of Fill Material

Weather: CLEAR

APPROXIMATE YARDAGE

Total Req'd.	Placed this Shift	Total To-Date

Test Number	Test Location STATION NO.	Elevation	Reference Compaction Curve	Maximum Dry Density lbs./cu.ft.	Fill Moisture %	Test Dry Density lbs./cu.ft.	% of Maximum Dry Density	Daily Report Describing Compaction
19	32+75	1202		125.0	11.2	113.7	91	
20	32+30	1203		125.0	9.1	117.6	94	
21	31+65	1202		125.0	10.8	115.2	92	
22	31+25	1204		125.0	10.3	112.7	90	

SUPPLEMENTARY REPORT (Describe equipment used for hauling, spreading, watering, conditioning and compacting; also report thickness of lifts, and number of roller trips.)

SAME EQUIPMENT USED.

CONTRACTOR CONTINUING TO PLACE TRENCH BACKFILL MATERIALS IN PIPE TRENCH IN LIFTS WITH BACKHOE.

CONTRACTOR USING WATER TO MOISTURE CONDITION TRENCH BACKFILL MATERIALS DURING PLACEMENT AND COMPACTION OPERATIONS.

CONTRACTOR CONTINUED TO USE TRACK EXCAVATOR WITH SHEEPSFOOT WHEEL TO COMPACT EACH LIFT OF TRENCH BACKFILL MATERIALS IN PLACE.

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DAILY FIELD REPORT

Job No. 12600

Page 1 of 1

Job Location: SAN BERNARDINO, CA	Client or Owner: EPA/ SBMWD/CH2M HILL/URS CORP.	Report Sequence No.	
General Location of Fill: DIP TRENCH BACKFILL	Purpose of Fill or Nature of Structure to be Supported: MUGGOY PIPELINE	Date: 11-21-02	Day of Week: THUR
General Contractor: URS CORP.	Grading or Earthwork Contractor: EL-CO CONTRACTORS INC.	Job Engineer: NICK REYLEK	HRS Charged
Contractor's Shift	Contractor's Superintendent or Foreman: TROY KIRTLEY	Assistants	HRS Charged

Source and Description of Fill Material

Weather: CLEAR

APPROXIMATE YARDAGE

Total Req'd.	Placed this Shift	Total To-Date

Test Number	Test Location STATION NO.	Elevation	Reference Compaction Curve	Maximum Dry Density lbs./cu.ft.	Fill Moisture %	Test Dry Density lbs./cu.ft.	% of Maximum Dry Density	Daily Report Describing Compaction
23	30+50	1203		125.0	9.0	114.1	91	
24	30+00	1206		125.0	10.2	118.0	94	
25	29+75	1204		125.0	11.5	112.2	90	
26	29+20	1206		125.0	9.7	113.5	91	
27	29+00	1207		125.0	10.6	115.0	92	
28	27+25	1208		125.0	9.5	116.5	93	
29	26+50	1209		125.0	10.0	115.5	92	

SUPPLEMENTARY REPORT (Describe equipment used for hauling, spreading, watering, conditioning and compacting; also report thickness of lifts, and number of roller trips.)

SAME EQUIPMENT USED.
CONTRACTOR CONTINUING TO PLACE THE TRENCH BACKFILL MATERIAL IN THE PIPE TRENCH IN EVEN LIFTS WITH BACKHOE, EXCAVATOR SPREADING BACKFILL MATERIAL OUT IN THIN EVEN LIFTS BEFORE COMPACTING WITH SHEEPSFOOT WHEEL.
CONTRACTOR USING WATER TRUCK WITH HOSE TO MOISTEN FILL MATERIAL DURING PLACEMENT AND COMPACTION OPERATIONS.

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DAILY FIELD REPORT

Job No. 12600

Page 1 of 1

Job Location: SAN BERNARDINO, CA	Client or Owner: EPA/SBMWD/CH2MHILL/URS	Report Sequence No.	
General Location of Fill: DIP TRENCH BACKFILL	Purpose of Fill or Nature of Structure to be Supported: MUSCOY PIPELINE	Date: 11-25-02	Day of Week: MON
General Contractor: URS CORP.	Grading or Earthwork Contractor: EL-CO CONTRACTORS, INC.	Job Engineer: NEKRASOVA	HRS Charged
Contractor's Shift	Contractor's Superintendent or Foreman: JOHN WILES	Assistants	HRS Charged

Source and Description of Fill Material

Weather: CLEAR - WINDY

APPROXIMATE YARDAGE

Total Req'd.	Placed this Shift	Total To-Date

Test Number	Test Location STATION NO.	Elevation	Reference Compaction Curve	Maximum Dry Density lbs./cu.ft.	Fill Moisture %	Test Dry Density lbs./cu.ft.	% of Maximum Dry Density	Daily Report Describing Compaction
30	12+20	1208		25.0	10.9	112.5	90	
3	12+20	1205		25.0	11.0	116.7	93	
32	13+00	1206		22.2	9.3	113.8	91	
33	11+75	1206		25.2	11.2	112.3	90	
34	11+25	1207		25.0	9.6	113.6	91	

SUPPLEMENTARY REPORT (Describe equipment used for hauling, spreading, watering, conditioning and compacting; also report thickness of lifts, and number of roller trips.)

SAME EQUIPMENT USED.
CONTRACTOR PLACING TRENCH BACKFILL IN
EXCAVATED WITH BACKHOE IN PIPE TRENCH
CONTRACTOR USING WATER TRUCK TO MOISTEN
BACKFILL MATERIAL DURING BACKFILL
OPERATION
CONTRACTOR USING TRACK EXCAVATOR
WITH SHEEP'S FOOT WHEEL TO COMPACT
EACH LIFT FILL MATERIAL PLACED.

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DAMES & MOORE

DAILY FIELD REPORT

Job No. 12600

Page 1 of 1

Job Location: SAN BERNARDINO, CA	Client or Owner: EPA/SBMWD/CH2MHILL/URS	Report Sequence No.	
General Location of Fill: DIP TRENCH BACKFILL	Purpose of Fill or Nature of Structure to be Supported: MUSCOY PIPELINE	Date: 12-4-02	Day of Week: WED
General Contractor: [illegible] CORP.	Grading or Earthwork Contractor: EL-CO CONTRACTORS, INC.	Job Engineer: NICK REYLEK	HRS Charged
Contractor's Shift	Contractor's Superintendent or Foreman: TROY KIRTLEY	Assistants	HRS Charged

Source and Description of Fill Material

Weather: CLEAR

APPROXIMATE YARDAGE

Total Req'd.	Placed this Shift	Total To-Date

Test Number	Test Location STATION NO.	Elevation	Reference Compaction Curve	Maximum Dry Density lbs./cu.ft.	Fill Moisture %	Test Dry Density lbs./cu.ft.	% of Maximum Dry Density	Daily Report Describing Compaction
35	10+65	1226		125.0	11.3	113.8	91	
36	10+45	1228		125.0	9.1	116.3	93	
37	10+25	1226		125.0	9.9	115.4	92	
38	10+10	1229		125.0	10.7	112.2	90	
39	13+75	1224		125.0	11.6	113.7	91	
40	14+25	1226		125.0	12.2	115.2	92	
41	15+00	1223		125.0	10.4	113.0	90	
42	15+75	1220		125.0	9.9	114.1	91	

SUPPLEMENTARY REPORT (Describe equipment used for hauling, spreading, watering, conditioning and compacting; also report thickness of lifts, and number of roller trips.)

SAME EQUIPMENT [illegible].

CONTRACTOR HAD PLACED TRENCH BACKFILL IN EVEN LIFTS WITH BACKHOE IN PIPE TRENCH.

CONTRACTOR HAD MOISTURE CONDITIONED THE BACKFILL DURING PLACEMENT.

CONTRACTOR HAD USED TRACK EXCAVATOR WITH SHEEPSFOOT WHEEL TO COMPACT TRENCH FILL MATERIALS IN PLACE, COMPACTING EACH LIFT.

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927.3 (1-86)

DAMES & MOORE

DAILY FIELD REPORT

Job No. 12600

Page 1 of 1

Job Location: SAN BERNARDINO CA	Client or Owner: EPA/SBMWD/CH2MHILL/URS	Report Sequence No.	
General Location of Fill: DIP TRENCH BACKFILL	Purpose of Fill or Nature of Structure to be Supported: MUSCOY PIPELINE	Date: 12-5-02	Day of Week: THURS
General Contractor: URS CORP.	Grading or Earthwork Contractor: EL-CO CONTRACTORS, INC.	Job Engineer: NICK REYES	HRS Charged
Contractor's Shift	Contractor's Superintendent or Foreman: TROY KIRTLEY	Assistants	HRS Charged

Source and Description of Fill Material

Weather: CLEAR

APPROXIMATE YARDAGE

Total Req'd.	Placed this Shift	Total To-Date

Test Number	Test Location STATION NO.	Elevation	Reference Compaction Curve	Maximum Dry Density lbs./cu.ft.	Fill Moisture %	Test Dry Density lbs./cu.ft.	% of Maximum Dry Density	Daily Report Describing Compaction
43	16+50	12.8		125.0	9.4	116.6	93	
44	17+00	1220		125.0	0.6	115.3	92	
45	18+35	1217		125.0	11.3	114.3	92	
46	18+80	12.8		125.0	1.6	112.6	[illegible]	
47	19+25	12.5		125.0	10.4	116.4	93	
48	19+75	12.6		125.0	9.5	113.9	[illegible]	
49	20+50	12.4		125.0	0.7	115.5	92	
50	21+30	1212		125.0	11.1	112.5	90	
51	21+75	12.4		125.0	9.8	114.1	91	

SUPPLEMENTARY REPORT (Describe equipment used for hauling, spreading, watering, conditioning and compacting; also report thickness of lifts, and number of roller trips.)

SAME EQUIPMENT USED.

CONTRACTOR HAD PLACED TRENCH BACKFILL IN EVEN LIFTS WITH BACKHOE IN PIPE TRENCH.

CONTRACTOR HAD MOISTURE CONDITIONED THE BACKFILL DURING PLACEMENT.

CONTRACTOR HAD USED TRACK EXCAVATOR WITH SHEEPSFOOT WHEEL TO COMPACT TRENCH BACKFILL IN PLACE, COMPACTING EACH LIFT.

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DAMES & MOORE

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Page 1 of 1

Job Location	Client or Owner	Report Sequence No.	
SAN BERNARDINO, CA	EPA / SBMWD / CH2MHILL / URS CORP.		
General Location of Fill	**Purpose of Fill or Nature of Structure to be Supported**	**Date**	**Day of Week**
DIP TRENCH BACKFILL	MUSCOY PIPELINE	12-6-02	F5
General Contractor	**Grading or Earthwork Contractor**	**Job Engineer**	**HRS Charged**
URS CORP.	EL-CO CONTRACTORS INC.	N. KREMER	
Contractor's Shift	**Contractor's Superintendent or Foreman**	**Assistants**	**HRS Charged**
	TROY KIETLEY		

Source and Description of Fill Material

Weather: CLEAR

APPROXIMATE YARDAGE		
Total Req'd.	Placed this Shift	Total To-Date

Test Number	Test Location STATION NO.	Elevation	Reference Compaction Curve	Maximum Dry Density lbs./cu.ft.	Fill Moisture %	Test Dry Density lbs./cu.ft.	% of Maximum Dry Density	Daily Report Describing Compaction
52	22+00	12.0		125.0	10.9	112.4	90	
53	23+[illegible]	121.2		125.0	11.5	116.0	92	
54	23+25	120.9		125.0	10.2	114.1	91	
55	23+85	121.1		125.0	9.3	115.1	92	
56	24+50	120.7		125.0	11.0	113.8	91	
57	25+10	120.8		125.0	11.5	112.8	90	

SUPPLEMENTARY REPORT (Describe equipment used for hauling, spreading, watering, conditioning and compacting; also rep. thickness of lifts, and number of roller trips.)

SAME EQUIPMENT USED

CONTRACTOR CONTINUES TO USE THE

SAME METHOD OF BACKFILLING AND

THE SAME COMPACTION OBSERVATION ON

TRENCH BACKFILL MATERIAL.

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DAMES & MOORE

DAILY FIELD REPORT

Job No. 12600

Page 1 of 1

Job Location: SAN BERNARDINO, CA	Client or Owner: EPA / SBMWD / CH2MHILL / URS CORP.		Report Sequence No.
General Location of Fill: DIP TRENCH BACKFILL	Purpose of Fill or Nature of Structure to be Supported: MUSCOY PIPELINE	Date: 12-9-02	Day of Week: MON
General Contractor: URS, CORP.	Grading or Earthwork Contractor: EL-CO CONTRACTORS, INC.	Job Engineer: Nick REYES	HRS Charged
Contractor's Shift	Contractor's Superintendent or Foreman: TROY KITTLEY	Assistants	HRS Charged

Source and Description of Fill Material

Weather: CLEAR

APPROXIMATE YARDAGE

Total Req'd.	Placed this Shift	Total To-Date

Test Number	Test Location STATION NO.	Elevation	Reference Compaction Curve	Maximum Dry Density lbs./cu.ft.	Fill Moisture %	Test Dry Density lbs./cu.ft.	% of Maximum Dry Density	Daily Report Describing Compaction
58	25+20	120.0		25.0	9.9	109.0	87	RETEST [illegible]
59	25+30	120.8		[illegible]	10.3	115.4	92	
60	25+20	120.6		25.0	10.1	113.6	91	
61	25+30	120.7		25.0	[illegible]	112.5	90	

SUPPLEMENTARY REPORT (Describe equipment used for hauling, spreading, watering, conditioning and compacting; also report thickness of lifts, and number of roller trips.)

SAME EQUIPMENT USED.

CONTRACTOR PLACING TRENCH BACKFILL MATERIAL IN LIFTS WITH BACKHOE IN PIPE TRENCH.

CONTRACTOR USING WATER TRUCK TO MOISTEN TRENCH BACKFILL MATERIAL DURING PLACEMENT OF LIFTS IN THE PIPE TRENCH AND DURING THE COMPACTION OPERATION.

CONTRACTOR USING TRACK EXCAVATOR WITH SHEEPSFOOT WHEEL TO COMPACT EACH LIFT PLACED.

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DAILY FIELD REPORT

Job No. 12600

Page 1 of 1

Job Location: SAN BERNARDINO, CA	Client or Owner: EPA / SBMWD / CH2M HILL / URS CORP.	Report Sequence No.
General Location of Fill: DIP TRENCH BACKFILL	Purpose of Fill or Nature of Structure to be Supported: MUSCOY PIPELINE	Date: 12-10-92 / Day: WED
General Contractor: URS CORP.	Grading or Earthwork Contractor: EL-CO CONTRACTORS, INC	Job Engineer: NIKKSER / HRS Charge
Contractor's Shift	Contractor's Superintendent or Foreman: TRA / KIRTLEY	Assistants / HRS Charge

Source and Description of Fill Material

Weather: CLEAR

APPROXIMATE YARDAGE		
Total Req'd.	Placed this Shift	Total To-Date

Test Number	Test Location STATION NO.	Elevation	Reference Compaction Curve	Maximum Dry Density lbs./cu.ft.	Fill Moisture %	Test Dry Density lbs./cu.ft.	% of Maximum Dry Density	Daily Report Describing Compaction
62	23+75	1208		125.0	11.3	116.6	93	
63	23+80	1209		125.0	9.7	114.0	91	

SUPPLEMENTARY REPORT (Describe equipment used for hauling, spreading, watering, conditioning and compacting; also report thickness of lifts, and number of roller trips.)

SAME EQUIPMENT USED.
CONTRACTOR CONTINUED TO USE THE SAME METHOD OF BACKFILLING AND THE SAME COMPACTION OPERATION ON TRENCH BACKFILL MATERIAL.

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DAILY FIELD REPORT

Job No. 12600

Page 1 of 1

Job Location: SAN BERNARDINO, CA	Client or Owner: EPA/SSA NC [illegible]	Report Sequence No.
General Location of Fill: DIP TRENCH BACKFILL	Purpose of Fill or Nature of Structure to be Supported: MUSCO PIPELINE	Date: [illegible] Day of Week: [illegible]
General Contractor: HRS CORP.	Grading or Earthwork Contractor: EL-CO CONTRACTING INC.	Job Engineer: HRS Charge: [illegible]
Contractor's Shift	Contractor's Superintendent or Foreman: TROY [illegible]	Assistants: HRS Charge

Source and Description of Fill Material

Weather: [illegible]

APPROXIMATE YARDAGE

Total Reqd. | Placed This Shift | Total To Date

Test Number	Test Location STATION NO.	Elevation	Reference Compaction Curve	Maximum Dry Density lbs./cu.ft.	Fill Moisture %	Test Dry Density lbs./cu.ft.	% of Maximum Dry Density	Daily Report Describing Compaction
04	25+64	1208		[illegible]	[illegible]	[illegible]	[illegible]	
05	36+00	1176		[illegible]	[illegible]	[illegible]	[illegible]	

SUPPLEMENTARY REPORT (Describe equipment used for hauling, spreading, watering, conditioning and compacting; also report thickness of lifts, and number of roller trips.

SAME EQUIPMENT USED

CONTRACTOR CONTINUED TO USE THE

SAME METHOD OF BACKFILLING AND

THE SAME COMPACTION OPERATION ON

PIPE TRENCH BACKFILLING

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DAILY FIELD REPORT

Job No. 12600

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Job Location: SAN BERNARDINO, CA	Client or Owner: EPA / SBMWD / CH2MHILL / URS CORP.	Report Sequence No.	
General Location of Fill: DIP TRENCH BACKFILL	Purpose of Fill or Nature of Structure to be Supported: MUSSOY PIPELINE	Date: 12-12-02	Day: TH
General Contractor: URS CORP.	Grading or Earthwork Contractor: EL-CO CONTRACTORS, INC.	Job Engineer: NUKREK	HRS Charge
Contractor's Shift	Contractor's Superintendent or Foreman: TROY KIRTLEY	Assistants	HRS Charge

Source and Description of Fill Material

Weather: CLEAR

APPROXIMATE YARDAGE		
Total Req'd.	Placed this Shift	Total To-Date

Test Number	Test Location STATION NO.	Elevation	Reference Compaction Curve	Maximum Dry Density lbs./cu.ft.	Fill Moisture %	Test Dry Density lbs./cu.ft.	% of Maximum Dry Density	Daily Report Describing Compaction
66	26+27	1195		125.0	9.8	114.2	91	

SUPPLEMENTARY REPORT (Describe equipment used for hauling, spreading, watering, conditioning and compacting; also report thickness of lifts, and number of roller trips.)

SAME EQUIPMENT USED.
CONTRACTOR CONTINUING TO USE THE SAME
METHOD OF BACKFILL AND THE SAME
COMPACTION OPERATION ON PIPE TRENCH
BACKFILL MATERIAL.

COPY SENT TO CLIENT ☐ CONTINUED ON NEXT PAGE ☐

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