

# APPENDIX C

## FRESNO COUNTY, HIGHWAY 33 DATA

This appendix presents the following:

Pre-construction deflection data.....	C-1
Pre-construction distress summary .....	C-49
Photos – preconstruction and construction .....	C-50
Materials and test data .....	C-57

## Deflection Data Fresno Hwy 33 (06-343534)

M3 Date-Time 3-18-2003 8: 7:31													
Sensors: 092011F 092012F 092013F 092014F 092015F 092016B 092017H 092018H 092019H													
Weight/Sp: 3													
Location: Mendota													
Temp: 57.98													
Operator: Kian													
Comments 1N-1													
1	62.500	1	8.59	10.09	8.38	7.49	6.2	5.2	3.69	2.72	2.27	8.23	72.9
1	62.500	1	8.54	9.62	8.08	7.26	6.04	5.09	3.65	2.72	2.25	7.93	72.9
1	62.500	1	8.57	8.96	8	7.2	5.99	5.03	3.61	2.72	2.26	7.86	72.9
Center Deflection Normalized to 8 KIPS = 10.040													
GPS:	Quality	State	Plane	DGPS	Fix	Coordinates:	Latitude =	36°45.856'N	Longitude =	120°23.21'W	PDOP =	8.007	72.900
1	62.551	1	8.42	13.59	11.65	10.08	7.95	6.29	4.05	2.86	2.4	11.48	71
2	62.551	1	8.5	13.3	11.1	9.66	7.69	6.15	4.02	2.91	2.4	10.96	71
Center Deflection Normalized to 8 KIPS = 14.303													
GPS:	Quality	State	Plane	DGPS	Fix	Coordinates:	Latitude =	36°45.988'N	Longitude =	120°23.23'W	PDOP =	2.42	10.77
1	62.551	1	8.460	13.445	11.375	9.870	7.820	6.220	4.035	2.885	2.400	11.220	71.000
2	62.551	1	8.52	12.89	10.95	9.55	7.82	6.11	4.02	2.95	2.42	10.77	71
GPS:	Quality	State	Plane	DGPS	Fix	Coordinates:	Latitude =	36°45.988'N	Longitude =	120°23.23'W	PDOP =	2.4	10.77
1	62.500	1	8.58	14.48	11.87	10.39	8.26	6.59	3.23	2.32	1.82	11.4	69.2
3	62.600	1	8.580	14.480	11.870	10.390	8.260	6.590	3.230	2.320	1.820	11.400	69.200
Center Deflection Normalized to 8 KIPS = 15.189													
GPS:	Quality	State	Plane	DGPS	Fix	Coordinates:	Latitude =	36°45.937'N	Longitude =	120°23.25'W	PDOP =	1.88	10.79
1	62.600	1	8.64	14.34	11.41	10.04	8.04	6.47	3.28	2.29	1.95	10.93	69.2
3	62.600	1	8.63	13.72	11.25	9.92	7.97	6.42	3.24	2.16	1.88	10.79	69.2
GPS:	Quality	State	Plane	DGPS	Fix	Coordinates:	Latitude =	36°45.937'N	Longitude =	120°23.25'W	PDOP =	2.4	10.79
1	62.651	1	8.5	17.88	13.2	11.32	8.56	6.45	3.67	2.49	2.05	12.48	70.7
4	62.651	1	8.5	16.18	12.57	10.91	8.39	6.37	3.69	2.44	2.02	11.85	70.7
4	62.651	1	8.48	16.09	12.39	10.76	8.32	6.33	3.68	2.43	2.01	11.68	70.7
GPS:	Quality	State	Plane	DGPS	Fix	Coordinates:	Latitude =	36°45.973'N	Longitude =	120°23.28'W	PDOP =	2.4	11.68
1	62.700	1	8.480	16.090	12.390	10.760	8.320	6.330	3.680	2.430	2.010	11.680	70.700
Center Deflection Normalized to 8 KIPS = 17.077													
GPS:	Quality	State	Plane	DGPS	Fix	Coordinates:	Latitude =	36°46.006'N	Longitude =	120°23.32'W	PDOP =	2.4	11.48
1	62.700	1	8.33	17.41	13.29	11.48	8.83	7.18	4.65	3.24	2.52	11.83	69.2
5	62.700	1	8.36	16.13	12.68	11.01	8.55	7.01	4.64	3.29	2.71	11.45	69.2
5	62.700	1	8.47	16.73	12.71	11.04	8.6	7.07	4.74	3.4	2.8	11.48	69.2
GPS:	Quality	State	Plane	DGPS	Fix	Coordinates:	Latitude =	36°46.006'N	Longitude =	120°23.32'W	PDOP =	2.4	11.48
1	62.700	1	8.415	16.430	12.695	11.025	8.575	7.040	4.690	3.345	2.765	11.465	69.200
Center Deflection Normalized to 8 KIPS = 17.872													
GPS:	Quality	State	Plane	DGPS	Fix	Coordinates:	Latitude =	36°46.006'N	Longitude =	120°23.32'W	PDOP =	2.4	11.48
1	62.749	1	8.52	18.91	14.59	12.96	10.46	8.67	5.75	4.07	3.14	13.24	68.8
6	62.749	1	8.52	18.91	14.59	12.96	10.46	8.67	5.75	4.07	3.14	13.24	68.8

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6	1	62.749	1	8.4	17.83	13.92	12.4	10.09	8.42	5.65	4.05	3.11	12.66	68.8
6	1	62.749	1	8.42	17.8	13.74	12.26	10.02	8.36	5.64	4.02	3.1	12.48	68.8
Center Deflection Normalized to 9 KIPS = 18.371														
GPS: Quality : DGPS : Fix														
State : Plane : Coordinates:														
Note: 1N-5														
7	1	62.801	1	8.42	17.18	14.18	12.57	10.28	8.4	5.46	3.85	3.14	12.93	68.5
7	1	62.801	1	8.46	15.99	13.54	12.06	9.9	8.19	5.41	3.83	3.09	12.33	68.5
Center Deflection Normalized to 9 KIPS = 17.685														
GPS: Quality : DGPS : Fix														
State : Plane : Coordinates:														
Note: 1N-7														
8	1	62.851	1	8.34	14.41	11.71	10.46	8.65	7.25	4.41	3.35	2.82	11.14	69.2
Center Deflection Normalized to 9 KIPS = 16.550														
GPS: Quality : DGPS : Fix														
State : Plane : Coordinates:														
Note: 1N-8														
9	1	62.900	1	8.45	9.76	7.86	7.11	6.12	5.46	4.32	3.29	2.65	7.49	71
9	1	62.900	1	8.54	9.73	7.79	7.08	6.12	5.46	4.33	3.26	2.73	7.4	71
9	1	62.900	1	8.46	9.51	7.7	7.01	6.06	5.42	4.29	3.28	2.72	7.31	71
Center Deflection Normalized to 9 KIPS = 10.117														
GPS: Quality : DGPS : Fix														
State : Plane : Coordinates:														
Note: 1N-9														
10	1	62.951	1	8.58	8.39	7.63	6.69	5.43	4.57	3.35	2.61	2.35	7.12	68.8
10	1	62.951	1	8.56	7.84	7.5	6.58	5.36	4.52	3.37	2.59	2.36	6.95	68.8
10	1	62.951	1	8.53	6.89	7.46	6.54	5.34	4.5	3.36	2.55	2.12	6.89	68.8
Center Deflection Normalized to 9 KIPS = 7.767														
GPS: Quality : DGPS : Fix														
State : Plane : Coordinates:														
Note: 1N-10														
11	1	63.007	1	8.37	14.46	11.78	10.56	8.81	7.56	5.45	3.99	3.19	11.2	66.1
11	1	63.007	1	8.29	15.54	11.6	10.43	8.74	7.47	5.45	4.01	3.26	11.06	66.1
11	1	63.007	1	8.34	15.24	11.54	10.39	8.72	7.48	5.44	3.94	3.29	11.03	66.1
Center Deflection Normalized to 9 KIPS = 16.286														
GPS: Quality : DGPS : Fix														
State : Plane : Coordinates:														
Note: 1N-11														
12	1	63.050	1	8.53	9.48	7.42	6.5	5.27	4.53	3.48	2.78	2.29	6.66	69.2
12	1	63.050	1	8.57	9.09	7.3	6.4	5.22	4.5	3.48	2.77	2.3	6.56	69.2
Center Deflection Normalized to 9 KIPS = 8.774														

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GPS:	State	Plane	Coordinates:	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Note:	1N-18																	
Center Deflection Normalized to 9 IPRs =																		
19	1	63.401	1	8.63	8.67	7.99	6.99	6.04	5.38	4.23	3.26	2.82	2.09	71.8				
19	1	63.401	1	8.67	8.43	7.43	6.86	5.93	5.28	4.13	3.1	2.69	7	71.8				
19	1	63.401	1	8.54	7.9	7.31	6.73	5.83	5.19	4.05	3.07	2.63	6.85	71.8				
GPS:	Quality		Fix	Latitude = 36°46'48.7"N Longitude = 120°23'78"W PDOP =														
GPS:	State	Plane	Coordinates:															
Center Deflection Normalized to 9 IPRs =																		
20	1	63.451	1	8.540	7.900	7.310	6.730	5.830	5.190	4.050	3.070	2.630	6.850	71.800				
Note:	1N-19																	
20	1	63.451	1	8.39	13.81	11.98	11.1	9.66	8.64	6.02	4.56	3.74	11.18	71.8				
20	1	63.451	1	8.39	13.98	11.82	10.96	9.57	8.58	6.06	4.57	3.73	11.04	71.8				
20	1	63.451	1	8.44	13.84	11.8	10.96	9.57	8.61	6.05	4.61	3.75	11.04	71.8				
GPS:	Quality		Fix	Latitude = 36°46'52.2"N Longitude = 120°23'38.1"W PDOP =														
GPS:	State	Plane	Coordinates:															
Center Deflection Normalized to 9 IPRs =																		
21	1	63.500	1	8.415	13.910	11.810	10.960	9.570	8.595	6.055	4.590	3.740	11.040	71.800				
Note:	1N-20																	
21	1	63.500	1	8.45	14.61	11.03	10.18	8.94	8.02	6.24	4.73	3.89	10.7	71.8				
21	1	63.500	1	8.42	13.85	10.93	10.12	8.9	7.97	6.26	4.74	3.9	10.57	71.8				
21	1	63.500	1	8.4	14.18	10.88	10.05	8.85	7.93	6.25	4.77	3.9	10.51	71.8				
GPS:	Quality		Fix	Latitude = 36°46'52.2"N Longitude = 120°23'38.1"W PDOP =														
GPS:	State	Plane	Coordinates:															
Center Deflection Normalized to 9 IPRs =																		
22	1	63.507	1	8.423	14.213	10.947	10.117	8.897	7.973	6.250	4.747	3.897	10.593	71.800				
Note:	1N-21																	
22	1	63.507	1	8.54	12.13	9.99	9.26	8.17	7.4	5.86	4.41	3.57	9.45	71.4				
22	1	63.507	1	8.54	12.04	9.9	9.21	8.14	7.39	5.87	4.44	3.62	9.38	71.4				
GPS:	Quality		Fix	Latitude = 36°46'55.8"N Longitude = 120°23'84"W PDOP =														
GPS:	State	Plane	Coordinates:															
Center Deflection Normalized to 9 IPRs =																		
23	1	63.507	1	8.44	11.77	9.76	9.08	8.03	7.3	5.78	4.38	3.64	9.22	71.4				
Note:	2N-1																	
23	1	63.550	1	8.48	12.14	9.28	8.52	7.4	6.55	5.02	3.84	3.09	9.11	71.4				
23	1	63.550	1	8.480	12.140	9.280	8.520	7.400	6.550	5.020	3.840	3.090	9.110	71.400				
GPS:	Quality		Fix	Latitude = 36°46'59.4"N Longitude = 120°23'87"W PDOP =														
GPS:	State	Plane	Coordinates:															
Center Deflection Normalized to 9 IPRs =																		
24	1	63.602	1	8.48	11.92	9.59	8.31	7.29	6.56	5.32	4.1	3.42	9.54	71.8				
24	1	63.602	1	8.51	11.33	9.49	8.29	7.27	6.59	5.31	4.16	3.28	9.45	71.8				
24	1	63.602	1	8.52	11.84	9.48	8.27	7.27	6.58	5.34	4.19	3.32	9.44	71.8				
GPS:	Quality		Fix	Latitude = 36°46'63.1"N Longitude = 120°23'91"W PDOP =														
GPS:	State	Plane	Coordinates:															
Center Deflection Normalized to 9 IPRs =																		
25	1	63.602	1	8.520	11.840	9.480	8.270	7.270	6.580	5.340	4.190	3.320	9.440	71.800				



31	1	63.952	1	8.51	13.26	12.26	11.29	9.78	8.64	6.57	4.77	3.89	11.69	72.9		
31	1	63.952	1	8.53	12.85	12.26	11.28	9.79	8.66	6.63	4.81	3.5	11.66	72.9		
Center Deflection Normalized to 9 KIPS = 14.152																
GPS:		Quality	Plane	Fix	Latitude = 36°46.683'N										Longitude = 120°24.12'W	PDOP =
GPS:		State	Coordinates:													
Note:		2N-10														
32	1	64.000	1	8.36	15.08	13.51	12.51	11.02	9.9	7.43	5.56	4.46	13.11	71.4		
32	1	64.000	1	8.36	14.64	13.28	12.34	10.92	9.82	7.37	5.57	4.43	12.88	71.4		
Center Deflection Normalized to 9 KIPS = 15.998																
GPS:		Quality	Plane	Fix	Latitude = 36°46.917'N										Longitude = 120°24.15'W	PDOP =
GPS:		State	Coordinates:													
Note:		2N-11														
33	1	64.052	1	8.35	15.96	14.68	13.42	11.49	10	7.24	5.17	3.92	13.97	72.1		
Center Deflection Normalized to 9 KIPS = 17.202																
33	1	64.052	1	8.46	15.63	14.51	13.3	11.44	9.95	7.27	5.24	3.93	13.8	72.1		
33	1	64.052	1	8.44	15.65	14.47	13.24	11.42	9.93	7.27	5.21	3.9	13.74	72.1		
Center Deflection Normalized to 9 KIPS = 16.998																
GPS:		Quality	Plane	Fix	Latitude = 36°46.955'N										Longitude = 120°24.18'W	PDOP =
GPS:		State	Coordinates:													
Note:		2N-12														
Center Deflection Normalized to 9 KIPS = 17.151																
34	1	64.102	1	8.39	16.85	14.73	13.59	11.78	10.48	7.94	5.29	3.93	14.09	72.1		
34	1	64.102	1	8.48	16.36	14.61	13.49	11.77	10.46	8.02	5.37	3.94	14	72.1		
34	1	64.102	1	8.37	15.95	14.46	13.36	11.67	10.39	7.97	5.32	3.9	13.79	72.1		
Center Deflection Normalized to 9 KIPS = 17.151																
GPS:		Quality	Plane	Fix	Latitude = 36°46.990'N										Longitude = 120°24.21'W	PDOP =
GPS:		State	Coordinates:													
Note:		2N-13														
35	1	64.151	1	8.2	23.18	18.18	16.33	13.71	11.73	8.24	5.73	4.1	17.29	72.1		
35	1	64.151	1	8.23	25.32	18.1	16.29	13.73	11.77	8.32	5.76	4.38	17.31	72.1		
35	1	64.151	1	8.2	24.44	18.01	16.22	13.68	11.74	8.25	5.78	4.42	17.23	72.1		
Center Deflection Normalized to 9 KIPS = 27.297																
GPS:		Quality	Plane	Fix	Latitude = 36°47.025'N										Longitude = 120°24.24'W	PDOP =
GPS:		State	Coordinates:													
Note:		2N-14														
36	1	64.200	1	7.78	31.05	16.86	15.71	13.1	10.69	7.82	5.64	4.39	18.46	72.5		
36	1	64.200	1	8.19	24.54	18.06	16.51	13.77	11.15	8.17	5.8	4.5	18.03	72.5		
36	1	64.200	1	8.13	24.3	17.87	16.34	13.67	11.06	8.12	5.77	4.51	17.93	72.5		
Center Deflection Normalized to 9 KIPS = 28.834																
GPS:		Quality	Plane	Fix	Latitude = 36°47.060'N										Longitude = 120°24.27'W	PDOP =
GPS:		State	Coordinates:													
Note:		2N-15														
37	1	64.250	1	8.81	19.35	15.38	14.24	12.34	10.63	8.06	5.82	4.56	14.88	70.3		
37	1	64.250	1	8.86	18.05	15.18	14.09	12.21	10.56	7.89	5.77	4.77	14.67	70.3		
Center Deflection Normalized to 9 KIPS = 19.049																
GPS:		Quality	Plane	Fix	Latitude = 36°47.060'N										Longitude = 120°24.27'W	PDOP =
GPS:		State	Coordinates:													

37	1	64.250	1	8.84	17.52	15.1	14.01	12.18	10.52	7.86	5.78	4.65	14.55	70.3
GPS:	Quality	DGPS	Fix	Longitude =										
GPS:	State	Plane	Coordinates:	36°47.096'N 120°24.30'W										
Note:	2N-16													
38	1	64.301	1	9.02	17.26	16.3	15.06	13.15	11.64	8.83	6.45	4.97	15.38	70.7
Center Deflection Normalized to 3 IOPS =														
38	1	64.301	1	9.02	17.26	16.300	15.060	13.150	11.640	8.830	6.450	4.970	15.380	70.700
38	1	64.301	1	9.12	17.18	16.13	14.89	13.09	11.55	8.83	6.49	4.98	15.24	70.7
GPS:	Quality	DGPS	Fix	Longitude =										
GPS:	State	Plane	Coordinates:	36°47.132'N 120°24.34'W										
Note:	2N-17													
39	1	64.352	1	8.44	23.22	18.98	17.13	14.33	12.35	9.02	6.25	4.92	17.84	71.4
39	1	64.352	1	8.57	22.97	18.92	17.13	14.39	12.36	9.01	6.35	5.1	17.94	71.4
39	1	64.352	1	8.53	22.65	18.85	17.08	14.35	12.33	8.96	6.35	5.05	17.9	71.4
GPS:	Quality	DGPS	Fix	Longitude =										
GPS:	State	Plane	Coordinates:	36°47.168'N 120°24.37'W										
Note:	2N-18													
40	1	64.401	1	8.47	23.19	18.14	16.19	13.55	11.75	8.97	6.61	5.47	18.1	71.8
40	1	64.401	1	8.42	22.7	17.92	15.99	13.4	11.64	8.86	6.55	5.38	17.81	71.8
40	1	64.401	1	8.51	22.74	18.05	16.12	13.52	11.72	8.94	6.62	5.46	17.94	71.8
GPS:	Quality	DGPS	Fix	Longitude =										
GPS:	State	Plane	Coordinates:	36°47.204'N 120°24.40'W										
Note:	2N-19													
41	1	64.451	1	9.06	17.47	16.99	15.61	13.59	11.99	9.16	6.7	4.95	16.31	72.9
41	1	64.451	1	9.08	17.05	16.82	15.46	13.49	11.92	9.13	6.66	4.9	16.16	72.9
41	1	64.451	1	8.94	16.94	16.62	15.27	13.35	11.79	9.06	6.6	4.89	15.89	72.9
GPS:	Quality	DGPS	Fix	Longitude =										
GPS:	State	Plane	Coordinates:	36°47.241'N 120°24.43'W										
Note:	2N-20													
42	1	64.500	1	8.8	26.79	20.53	18.35	15.08	12.87	9.36	6.74	5.2	18.74	72.1
42	1	64.500	1	8.67	24.58	20.33	18.23	15.02	12.83	9.25	6.74	5.16	18.74	72.1
42	1	64.500	1	8.95	24.4	20.42	18.35	15.11	12.94	9.36	6.8	5.16	18.84	72.1
GPS:	Quality	DGPS	Fix	Longitude =										
GPS:	State	Plane	Coordinates:	36°47.276'N 120°24.46'W										
Note:	2N-21													
43	1	64.500	1	8.69	20.54	16.7	15	12.51	10.92	8.16	6.14	4.98	15.03	72.5
43	1	64.500	1	8.90	20.54	16.700	15.000	12.510	10.920	8.160	6.140	4.980	15.030	72.500
43	1	64.500	1	8.92	21.69	16.68	15	12.57	10.97	8.22	6.2	5.04	14.99	72.5
43	1	64.500	1	8.94	21.21	16.76	15.07	12.6	10.99	8.25	6.21	5.02	14.98	72.5
GPS:	Quality	DGPS	Fix	Longitude =										
GPS:	State	Plane	Coordinates:	36°47.278'N 120°24.46'W										
Note:	2N-22													

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56	1	63.849	1	9.07	13.81	12.36	11.19	9.35	8.03	5.84	4.31	3.36	11.43	79.1
56	1	63.849	1	9.01	13.49	12.26	11.13	9.29	7.98	5.81	4.25	3.35	11.31	79.1
Center Deflection Normalized to 9 KIPS = 13.656														
GPS: Quality		Plane		Latitude		Longitude		PDOP						1.7
: State		: DGPS		: Fix		: Coordinates:								
57	1	63.801	1	8.95	15.88	12.4	11.39	9.88	8.62	6.61	4.95	3.98	11.34	78.7
57	1	63.801	1	8.97	16.15	12.25	11.27	9.84	8.57	6.62	4.98	4.06	11.38	78.7
Center Deflection Normalized to 9 KIPS = 16.086														
GPS: Quality		Plane		Latitude		Longitude		PDOP						1.7
: State		: DGPS		: Fix		: Coordinates:								
57	1	63.801	1	8.89	16.11	12.11	11.15	9.73	8.49	6.56	4.9	4.03	11.31	78.7
Center Deflection Normalized to 9 KIPS = 16.086														
GPS: Quality		Plane		Latitude		Longitude		PDOP						1.7
: State		: DGPS		: Fix		: Coordinates:								
58	1	63.746	1	8.92	17.04	15.11	12.83	10.95	9.55	7.25	5.35	4.03	13.67	78
Center Deflection Normalized to 9 KIPS = 17.193														
GPS: Quality		Plane		Latitude		Longitude		PDOP						1.7
: State		: DGPS		: Fix		: Coordinates:								
58	1	63.746	1	8.95	16.05	14.89	12.69	10.66	9.47	7.25	5.34	3.97	13.44	78
Center Deflection Normalized to 9 KIPS = 16.086														
GPS: Quality		Plane		Latitude		Longitude		PDOP						1.7
: State		: DGPS		: Fix		: Coordinates:								
59	1	63.700	1	8.84	18.49	16.17	14.85	12.81	11.31	8.64	6.08	4.72	15.68	79.1
59	1	63.700	1	8.86	18.74	16.2	14.89	12.93	11.34	8.69	6.07	4.75	15.7	79.1
Center Deflection Normalized to 9 KIPS = 19.036														
GPS: Quality		Plane		Latitude		Longitude		PDOP						1.7
: State		: DGPS		: Fix		: Coordinates:								
60	1	63.648	1	9.05	11.24	11.24	10.37	7.97	6.92	5.08	3.72	2.96	10.57	78.7
60	1	63.648	1	9.13	10.93	11.09	10.26	7.97	6.94	5.1	3.7	2.94	10.43	78.7
Center Deflection Normalized to 9 KIPS = 14.184														
GPS: Quality		Plane		Latitude		Longitude		PDOP						1.7
: State		: DGPS		: Fix		: Coordinates:								
61	1	63.600	1	8.94	14.04	13.97	12.88	11.19	9.82	7.54	5.48	3.99	13.2	78.7
61	1	63.600	1	9.01	14.37	13.97	12.91	11.26	9.88	7.66	5.55	4.08	13.2	78.7
Center Deflection Normalized to 9 KIPS = 14.184														
GPS: Quality		Plane		Latitude		Longitude		PDOP						1.7
: State		: DGPS		: Fix		: Coordinates:								
62	1	63.548	1	9.13	11.17	10.82	10.05	8.85	7.88	6.09	4.09	3.26	10.13	79.5
62	1	63.548	1	9.07	10.72	10.62	9.87	8.72	7.76	6.02	4.1	3.25	9.92	79.5
Center Deflection Normalized to 9 KIPS = 10.825														
GPS: Quality		Plane		Latitude		Longitude		PDOP						1.7
: State		: DGPS		: Fix		: Coordinates:								



GPS:	State	Plane	Coordinates:	#DIV/0!														
GPS: 2S-5																		
Note: Center Deflection Normalized to 9 KIPS =																		
68	1	63.260	1	8.69	21.12	13.47	11.43	9.29	7.94	5.92	4.54	3.93	11.89	80.2				
69	1	63.250	1	8.79	16.73	13.32	11.36	9.3	7.96	5.91	4.65	3.86	11.85	80.2				
69	1	63.250	1	8.73	16.63	13.18	11.26	9.24	7.89	5.9	4.62	3.79	11.77	80.2				
GPS: Quality : DGPS Fix Latitude = 36°46.360' N Longitude = 120°23.701' W PDOP =																		
GPS: State : Plane Coordinates: 17.144																		
Note: Center Deflection Normalized to 9 KIPS =																		
70	1	63.201	1	9.02	13.46	10.26	9.27	7.78	6.66	4.7	3.48	3.07	9.76	79.8				
70	1	63.201	1	9.03	13.03	10.04	9.1	7.66	6.58	4.65	3.42	3.07	9.54	79.8				
70	1	63.201	1	8.98	13.08	9.99	9.04	7.61	6.56	4.62	3.41	3.06	9.46	79.8				
GPS: Quality : DGPS Fix Latitude = 36°46.345' N Longitude = 120°23.661' W PDOP =																		
GPS: State : Plane Coordinates: 13.048																		
Note: Center Deflection Normalized to 9 KIPS =																		
71	1	63.149	1	9.03	13.77	12.42	11.14	9.26	7.91	5.87	4.35	3.33	10.38	78				
71	1	63.149	1	9.12	12.96	12.23	10.98	9.19	7.86	5.83	4.34	3.29	10.26	78				
71	1	63.149	1	9.08	12.93	12.18	10.95	9.17	7.82	5.84	4.32	3.35	10.36	78				
GPS: Quality : DGPS Fix Latitude = 36°46.307' N Longitude = 120°23.631' W PDOP =																		
GPS: State : Plane Coordinates: 13.008																		
Note: Center Deflection Normalized to 9 KIPS =																		
72	1	63.098	1	8.79	10.01	8.85	7.82	6.43	5.51	4.17	3.23	2.78	8.3	82				
72	1	63.098	1	8.9	10.25	8.73	7.72	6.4	5.48	4.15	3.21	2.78	8.16	82				
72	1	63.098	1	8.85	10.12	8.79	7.8	6.48	5.58	4.25	3.3	2.87	8.28	82				
GPS: Quality : DGPS Fix Latitude = 36°46.271' N Longitude = 120°23.601' W PDOP =																		
GPS: State : Plane Coordinates: 10.308																		
Note: Center Deflection Normalized to 9 KIPS =																		
73	1	63.049	1	8.97	10.77	9.19	8.15	6.77	5.71	4.07	3.16	2.77	8.08	81.7				
73	1	63.049	1	8.970	10.770	9.190	8.150	6.770	5.710	4.070	3.160	2.770	8.080	81.700				
73	1	63.049	1	9	10.08	8.91	7.95	6.66	5.61	4.01	3.16	2.73	7.9	81.7				
GPS: Quality : DGPS Fix Latitude = 36°46.236' N Longitude = 120°23.571' W PDOP =																		
GPS: State : Plane Coordinates: 10.806																		
Note: Center Deflection Normalized to 9 KIPS =																		
74	1	63.005	1	8.96	10.35	9.73	8.83	7.61	6.75	5.27	4.07	3.3	9.23	82				
74	1	63.005	1	8.9	9.82	9.54	8.67	7.48	6.65	5.22	4.1	3.29	9.02	82				
74	1	63.005	1	8.9	10.16	9.54	8.68	7.49	6.66	5.25	4.21	3.31	8.95	82				
GPS: Quality : DGPS Fix Latitude = 36°46.205' N Longitude = 120°23.541' W PDOP =																		
GPS: State : Plane Coordinates: 10.274																		
Note: Center Deflection Normalized to 9 KIPS =																		
74	1	63.005	1	8.900	10.160	9.540	8.680	7.490	6.660	5.250	4.210	3.310	8.950	82.000				



81	1	62.680	1	8.8	17.94	13.64	11.97	9.6	7.73	5.23	3.97	3.49	13.55	82.8
81	1	62.680	1	8.83	17.87	13.46	11.85	9.54	7.7	5.22	3.93	3.54	13.39	82.8
Center Deflection Normalized to 3 KIPS = 19.084														
GPS: Quality : DGPS Fix														
State : Plane Coordinates: Longitude = 120°23.31'W PDOP =														
Note: 2S-18														
82	1	62.649	1	8.7	16.5	14.62	12.84	10.23	8.14	5.13	3.57	2.86	13.54	83.1
82	1	62.649	1	8.8	15.48	13.93	12.31	9.93	7.99	5.11	3.59	2.86	12.93	83.1
Center Deflection Normalized to 3 KIPS = 16.447														
GPS: Quality : DGPS Fix														
State : Plane Coordinates: Longitude = 120°23.29'W PDOP =														
Note: 2S-19														
83	1	62.625	1	8.76	16.15	13.57	12.05	9.54	7.32	5.02	3.43	2.71	13.06	83.9
83	1	62.625	1	8.76	16.150	13.570	12.050	9.540	7.320	5.020	3.430	2.710	13.060	83.900
Center Deflection Normalized to 3 KIPS = 16.892														
GPS: Quality : DGPS Fix														
State : Plane Coordinates: Longitude = 120°23.27'W PDOP =														
Note: 2S-20														
Center Deflection Normalized to 3 KIPS = 17.384														
84	1	64.736	1	8.73	19.42	13.77	11.76	9.26	7.06	4.58	3.26	2.69	13.16	83.1
84	1	64.736	1	8.73	19.42	13.77	11.76	9.26	7.06	4.58	3.26	2.69	13.16	83.1
Center Deflection Normalized to 3 KIPS = 17.384														
GPS: Quality : DGPS Fix														
State : Plane Coordinates: Longitude = 120°23.26'W PDOP =														
Note: 2S-21														
84	1	64.736	1	8.96	13.26	13	11.99	10.39	9.23	7.1	4.94	3.66	12.08	79.1
84	1	64.736	1	9.01	12.68	12.75	11.76	10.26	9.11	7.06	4.91	3.62	11.95	79.1
Center Deflection Normalized to 3 KIPS = 12.723														
GPS: Quality : DGPS Fix														
State : Plane Coordinates: Longitude = 120°24.62'W PDOP =														
Note: 3N-1														
85	1	64.757	1	8.97	18.3	13.44	12.15	10.42	9.17	7.05	5.15	4	12.59	82.8
85	1	64.757	1	9.14	17.15	13.41	12.13	10.45	9.19	7.06	5.18	4.05	12.56	82.8
85	1	64.757	1	8.96	17.37	13.21	11.97	10.31	9.07	6.97	5.1	4.02	12.38	82.8
Center Deflection Normalized to 3 KIPS = 17.861														
GPS: Quality : DGPS Fix														
State : Plane Coordinates: Longitude = 120°24.63'W PDOP =														
Note: 3N-2														
86	1	64.800	1	8.94	16.61	11.96	10.86	9.09	7.84	6.05	4.56	3.85	10.62	84.2
86	1	64.800	1	8.85	14.02	11.68	10.62	8.91	7.71	5.96	4.5	3.83	10.45	84.2
Center Deflection Normalized to 3 KIPS = 15.686														
GPS: Quality : DGPS Fix														
State : Plane Coordinates: Longitude = 120°24.63'W PDOP =														
Note: 3N-2														

86	1	64.800	1	DGPS	Fix	8.98	13.48	11.83	10.74	8.99	7.79	6.02	4.54	3.9	10.65	84.2
GPS:		Quality	State	Plane	Coordinates:											
GPS:		3N-3	Longitude = 120°24'66"W													
Note:		PDOP =														
87	1	64.851	1	DGPS	Fix	9.11	14.83	12.64	11.55	9.92	8.49	6.52	4.88	3.95	11.34	83.5
Center Deflection Normalized to 3 KPS =		14.651														
GPS:		64.851	1	9.11	13.14	12.59	11.53	9.97	8.61	6.71	5.14	4.26	11.37	83.5		
GPS:		64.851	1	9.06	13.29	12.41	11.37	9.79	8.47	6.53	4.93	4.01	11.3	83.5		
Note:		Longitude = 120°24'69"W														
Note:		PDOP =														
Center Deflection Normalized to 3 KPS =																
88	1	64.915	1	DGPS	Fix	9.18	11.76	12.08	11.23	9.86	8.78	6.92	5.24	4.13	11.33	84.2
GPS:		64.915	1	9.24	11.47	11.85	11	9.87	8.62	6.79	5.17	4.05	11.07	84.2		
GPS:		64.915	1	9.22	11.35	11.76	10.94	9.82	8.54	6.76	5.15	4.03	11.09	84.2		
Note:		Longitude = 120°24'73"W														
Note:		PDOP =														
Center Deflection Normalized to 3 KPS =																
89	1	64.950	1	DGPS	Fix	9.220	11.350	11.760	10.940	9.620	8.540	6.760	5.150	4.030	11.090	84.200
Note:		3N-5														
GPS:		64.950	1	9.05	10.86	10.92	10.17	9.05	8.15	6.54	5.05	4.04	9.62	83.1		
GPS:		64.950	1	9.09	10.65	10.72	9.99	8.93	8.06	6.49	4.98	4.04	9.59	83.1		
GPS:		64.950	1	9.07	10.57	10.68	9.96	8.91	8.05	6.49	4.99	4.03	9.57	83.1		
Note:		Longitude = 120°24'75"W														
Note:		PDOP =														
Center Deflection Normalized to 3 KPS =																
90	1	64.999	1	DGPS	Fix	9.080	10.610	10.700	9.975	8.920	8.055	6.490	4.985	4.035	9.580	83.100
Note:		3N-6														
GPS:		64.999	1	8.94	11.33	10.8	9.4	8.19	7.38	6	4.68	3.67	10.28	82.8		
GPS:		64.999	1	9.08	9.78	10.73	9.4	8.24	7.41	6.04	4.75	3.7	10.19	82.8		
GPS:		64.999	1	8.98	8.52	10.57	9.28	8.12	7.32	5.96	4.69	3.68	10.04	82.8		
Note:		Longitude = 120°24'78"W														
Note:		PDOP =														
Center Deflection Normalized to 3 KPS =																
91	1	65.050	1	DGPS	Fix	9.000	9.877	10.700	9.360	8.183	7.370	6.000	4.707	3.683	10.170	82.800
Note:		3N-7														
GPS:		65.050	1	8.94	13.04	12.33	11.33	9.88	8.78	6.86	5.2	4.04	11.46	84.6		
GPS:		65.050	1	8.94	12.46	12.2	11.24	9.83	8.74	6.86	5.21	4.04	11.4	84.6		
Note:		Longitude = 120°24'81"W														
Note:		PDOP =														
Center Deflection Normalized to 3 KPS =																
92	1	65.099	1	DGPS	Fix	9.06	9.74	9.88	9.13	8.02	7.17	5.71	4.41	3.66	9.26	84.6
Note:		3N-8														
GPS:		65.099	1	9.05	9.99	9.73	9.01	7.94	7.11	5.68	4.44	3.69	9.25	84.6		
GPS:		65.099	1	9.08	9.56	9.67	8.94	7.92	7.09	5.67	4.42	3.67	9.2	84.6		
Note:		Longitude = 120°24'84"W														
Note:		PDOP =														

GPS:	State	Plane	Coordinates:	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01
Note:	3N-9																
Center Deflection Normalized to 9 NPS =																	
93	1	65.150	1	9.03	11.32	11.26	10.34	9.05	6.08	6.01	4.32	3.46	10.94	83.5			
93	1	65.150	1	8.94	11.32	10.98	10.11	8.88	7.94	5.91	4.3	3.4	10.67	83.5			
93	Quality		Fix	9	10.89	10.96	10.09	8.89	7.95	5.97	4.31	3.45	10.5	83.5			
GPS:	State	Plane	Coordinates:	Longitude = 120°24.88'W PDOP =													
Center Deflection Normalized to 9 NPS =																	
94	1	65.201	1	8.98	10.39	10.63	9.41	7.58	6.64	5.12	3.94	3.17	9.78	83.1			
94	1	65.201	1	8.95	10.03	10.4	9.2	7.52	6.61	5.1	3.94	3.19	9.49	83.1			
94	Quality		Fix	9	10.44	10.36	9.17	7.54	6.61	5.11	3.98	3.21	9.5	83.1			
GPS:	State	Plane	Coordinates:	Longitude = 120°24.91'W PDOP =													
Center Deflection Normalized to 9 NPS =																	
95	1	65.252	1	8.85	16.06	11.15	10.16	8.6	7.55	5.76	4.36	3.59	9.76	84.6			
95	1	65.252	1	8.83	15.01	10.94	9.99	8.5	7.49	5.76	4.37	3.63	9.62	84.6			
95	Quality		Fix	8.860	15.393	11.017	10.050	8.543	7.517	5.763	4.373	3.627	9.683	84.600			
GPS:	State	Plane	Coordinates:	Longitude = 120°24.94'W PDOP =													
Center Deflection Normalized to 9 NPS =																	
96	1	65.301	1	8.89	12.02	11.33	10.42	9.12	8.04	5.94	4.44	3.46	11	84.2			
96	1	65.301	1	8.87	11.75	11.2	10.3	9.07	8.01	5.94	4.43	3.43	10.87	84.2			
96	Quality		Fix	8.880	11.885	11.265	10.360	9.095	8.025	5.940	4.435	3.445	10.935	84.200			
GPS:	State	Plane	Coordinates:	Longitude = 120°24.97'W PDOP =													
Center Deflection Normalized to 9 NPS =																	
97	1	65.350	1	8.94	10.89	11.04	10.15	8.72	7.67	5.91	4.45	3.51	10.27	85.7			
97	1	65.350	1	8.97	10.63	10.86	10.02	8.63	7.6	5.89	4.42	3.5	10.09	85.7			
97	Quality		Fix	8.89	10.57	10.69	9.88	8.52	7.51	5.8	4.37	3.5	9.87	85.7			
GPS:	State	Plane	Coordinates:	Longitude = 120°25.00'W PDOP =													
Center Deflection Normalized to 9 NPS =																	
98	1	65.398	1	8.7	18.4	12.58	11.5	9.66	8.72	6.63	4.78	4.06	12.38	84.6			
98	1	65.398	1	8.53	16.77	12.3	11.25	9.8	8.56	6.94	4.81	3.99	12.06	84.6			
98	Quality		Fix	8.58	16.46	12.25	11.2	9.75	8.55	6.51	4.8	4.1	11.96	84.6			
GPS:	State	Plane	Coordinates:	Longitude = 120°25.03'W PDOP =													
Center Deflection Normalized to 9 NPS =																	
99	1	65.400	1	8.580	16.460	12.250	11.200	9.750	8.550	6.510	4.800	4.100	11.960	84.600			

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Note: 3N-15													
99	1	65.454	1	8.8	10.36	8.7	7.6	6.49	5.72	4.41	3.48	2.96	85.1
99	1	65.454	1	8.79	9.96	8.67	7.58	6.49	5.75	4.41	3.62	2.98	85.1
99	1	65.454	1	8.8	9.93	8.71	7.62	6.52	5.78	4.24	3.63	3	85.1
GPS: Quality : : DGPS Fix Latitude = 36°41.978'N Longitude = 120°25.06'W PDOP = 1.8													
Center Deflection Normalized to 9 GPS = 10.177													
GPS: State : Plane : Coordinates:													
Note: 3N-16													
100	1	65.498	1	8.75	9.45	10.21	9.38	8.14	7.18	5.53	4.11	3.41	84.6
100	1	65.498	1	8.84	9.27	10.03	9.25	8.05	7.11	5.53	4	3.33	84.6
100	1	65.498	1	8.85	9.27	10	9.2	8.03	7.09	5.53	4.05	3.31	84.6
GPS: Quality : : DGPS Fix Latitude = 36°48.011'N Longitude = 120°25.09'W PDOP = 2.5													
Center Deflection Normalized to 9 GPS = 9.528													
GPS: State : Plane : Coordinates:													
Note: 3N-17													
101	1	65.548	1	8.76	10.94	10.6	9.75	8.49	7.6	5.99	4.42	3.36	85
101	1	65.548	1	8.83	10.65	10.46	9.64	8.45	7.58	5.98	4.44	3.38	85
GPS: Quality : : DGPS Fix Latitude = 36°48.048'N Longitude = 120°25.12'W PDOP = 2.5													
Center Deflection Normalized to 9 GPS = 11.047													
GPS: State : Plane : Coordinates:													
Note: 3N-18													
102	1	65.599	1	8.72	10.52	11.17	9.34	7.66	6.49	4.94	3.7	2.95	84.6
102	1	65.599	1	8.720	10.520	11.170	9.340	7.660	6.490	4.940	3.700	2.950	84.600
102	1	65.599	1	8.69	10.48	10.85	9.15	7.57	6.46	4.91	3.64	2.86	84.6
102	1	65.599	1	8.76	10.48	10.87	9.22	7.84	6.54	5.02	3.73	2.99	84.6
GPS: Quality : : DGPS Fix Latitude = 36°48.084'N Longitude = 120°25.15'W PDOP = 2.5													
Center Deflection Normalized to 9 GPS = 10.858													
GPS: State : Plane : Coordinates:													
Note: 3N-19													
103	1	65.650	1	8.96	10.2	9.84	8.46	6.74	6.02	4.77	3.72	3.1	84.6
103	1	65.650	1	8.92	9.51	9.64	8.3	6.67	5.96	4.75	3.7	3.06	84.6
103	1	65.650	1	8.84	9.66	9.58	8.27	6.85	5.94	4.72	3.69	3.05	84.6
GPS: Quality : : DGPS Fix Latitude = 36°48.120'N Longitude = 120°25.18'W PDOP = 2.5													
Center Deflection Normalized to 9 GPS = 9.835													
GPS: State : Plane : Coordinates:													
Note: 3N-20													
104	1	65.700	1	8.8	10.39	10.64	9.73	8.36	7.29	5.59	4.21	3.33	83.9
104	1	65.700	1	8.76	10.02	10.41	9.51	8.21	7.18	5.52	4.17	3.31	83.9
104	1	65.700	1	8.74	9.88	10.35	9.45	8.17	7.15	5.51	4.17	3.28	83.9
GPS: Quality : : DGPS Fix Latitude = 36°48.157'N Longitude = 120°25.22'W PDOP = 2.5													
Center Deflection Normalized to 9 GPS = 10.234													
GPS: State : Plane : Coordinates:													
Note: 3N-21													
105	1	65.707	1	8.92	14.09	11.02	10.17	8.7	7.11	5.67	4.29	3.47	83.9

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105	1	65.707	1	8.78	13.2	10.6	9.81	8.4	6.88	5.42	4.11	3.32	9	83.9
105	1	65.707	1	8.76	11.61	10.96	10.18	8.74	7.3	5.83	4.5	3.78	9.41	83.9
Center Deflection Normalized to 3 KIPS = 13.231														
GPS:		Quality	Fix	Longitude = 120°25.22'W										
GPS:		State	Coordinates:											
Note:		4N-1												
106	1	65.747	1	8.79	11.33	10.74	9.75	8.41	7.38	5.74	4.18	3.33	10.34	83.9
106	1	65.747	1	8.94	11.53	10.57	9.62	8.33	7.3	5.72	4.11	3.27	10.09	83.9
Center Deflection Normalized to 3 KIPS = 11.604														
GPS:		Quality	Fix	Longitude = 120°25.24'W										
GPS:		State	Coordinates:											
Note:		4N-2												
107	1	65.797	1	8.81	10.45	10.31	9.31	7.96	6.95	5.25	3.92	3.2	9.93	84.6
107	1	65.797	1	8.8	10.31	10.07	9.15	7.83	6.84	5.19	3.89	3.18	9.67	84.6
Center Deflection Normalized to 3 KIPS = 10.875														
GPS:		Quality	Fix	Longitude = 120°25.27'W										
GPS:		State	Coordinates:											
Note:		4N-3												
108	1	65.851	1	8.98	11.13	10.87	9.36	7.85	6.9	5.38	3.92	3.18	9.61	85.3
108	1	65.851	1	8.89	10.74	10.6	9.15	7.71	6.79	5.32	3.86	3.12	9.35	85.3
Center Deflection Normalized to 3 KIPS = 10.54														
GPS:		Quality	Fix	Longitude = 120°25.31'W										
GPS:		State	Coordinates:											
Note:		4N-4												
109	1	65.899	1	8.83	12.15	10.19	9.35	8.13	7.19	5.54	3.8	3.27	9.81	86.1
109	1	65.899	1	8.8	11.41	9.98	9.17	8.03	7.1	5.46	3.85	3.39	9.63	86.1
Center Deflection Normalized to 3 KIPS = 11.221														
GPS:		Quality	Fix	Longitude = 120°25.34'W										
GPS:		State	Coordinates:											
Note:		4N-5												
110	1	65.952	1	8.76	11.44	11.18	10.32	8.87	7.85	6.17	4.68	3.45	10.89	85.7
110	1	65.952	1	8.72	10.69	10.78	9.98	8.62	7.59	5.88	4.38	2.84	10.49	85.7
Center Deflection Normalized to 3 KIPS = 11.221														
GPS:		Quality	Fix	Longitude = 120°25.37'W										
GPS:		State	Coordinates:											
Note:		4N-5												
111	1	66.006	1	8.8	14.84	14.18	13.06	11.82	10.99	8.77	6.56	5.02	13.72	84.6
111	1	66.006	1	8.84	15.31	13.73	12.66	11.46	10.64	8.49	6.37	4.92	13.24	84.6
Center Deflection Normalized to 3 KIPS = 15.383														

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111	1	66.006	1	DGPS	Fix	8.76	13.92	13.46	12.43	11.25	10.47	8.35	6.26	4.81	12.98	84.6
GPS:		Quality	Plane	Coordinates:		Longitude = 120°25.40'W										PDOP =
GPS:		State	4N-7													
Note:		Center Deflection Normalized to 9 KPS =														
112	1	66.051	1	DGPS	Fix	8.87	10.34	8.81	7.46	6.69	6.14	4.93	3.82	3.35	9.26	86.8
GPS:		Quality	Plane	Coordinates:		Longitude = 120°25.43'W										PDOP =
GPS:		State	4N-8													
Note:		Center Deflection Normalized to 9 KPS =														
113	1	66.102	1	DGPS	Fix	8.96	7.29	7.21	6.87	6.37	5.98	5.01	3.94	3.18	7.12	82.4
GPS:		Quality	Plane	Coordinates:		Longitude = 120°25.46'W										PDOP =
GPS:		State	4N-9													
Note:		Center Deflection Normalized to 9 KPS =														
114	1	66.151	1	DGPS	Fix	8.8	13.76	13.18	11.93	9.74	8.06	5.79	4.18	3.48	12.15	84.2
GPS:		Quality	Plane	Coordinates:		Longitude = 120°25.49'W										PDOP =
GPS:		State	4N-10													
Note:		Center Deflection Normalized to 9 KPS =														
115	1	66.198	1	DGPS	Fix	8.75	12.59	12.41	11.32	9.42	7.84	5.7	4.17	3.51	11.55	84.2
GPS:		Quality	Plane	Coordinates:		Longitude = 120°25.52'W										PDOP =
GPS:		State	4N-11													
Note:		Center Deflection Normalized to 9 KPS =														
116	1	66.247	1	DGPS	Fix	8.81	8.69	8.55	8.03	7.19	6.54	5.26	4.11	3.36	8.49	86.1
GPS:		Quality	Plane	Coordinates:		Longitude = 120°25.55'W										PDOP =
GPS:		State	4N-12													
Note:		Center Deflection Normalized to 9 KPS =														
117	1	66.297	1	DGPS	Fix	8.51	9.87	8.46	7.84	6.89	6.2	5.04	3.88	3.37	9.16	85.3
GPS:		Quality	Plane	Coordinates:		Longitude = 120°25.58'W										PDOP =
GPS:		State	4N-13													
Note:		Center Deflection Normalized to 9 KPS =														
118	1	66.344	1	DGPS	Fix	8.81	8.59	8.68	8.14	7.25	6.59	5.28	4.09	3.35	8.62	86.1
GPS:		Quality	Plane	Coordinates:		Longitude = 120°25.61'W										PDOP =
GPS:		State	4N-14													
Note:		Center Deflection Normalized to 9 KPS =														
119	1	66.391	1	DGPS	Fix	8.8	8.17	8.6	8.06	7.2	6.54	5.28	4.09	3.36	8.53	86.1
GPS:		Quality	Plane	Coordinates:		Longitude = 120°25.64'W										PDOP =
GPS:		State	4N-15													
Note:		Center Deflection Normalized to 9 KPS =														
120	1	66.438	1	DGPS	Fix	8.807	8.483	8.610	8.077	7.213	6.557	5.273	4.097	3.357	8.547	86.100
GPS:		Quality	Plane	Coordinates:		Longitude = 120°25.67'W										PDOP =
GPS:		State	4N-16													
Note:		Center Deflection Normalized to 9 KPS =														
121	1	66.485	1	DGPS	Fix	8.51	10.97	8.58	7.95	6.95	6.28	5.04	3.9	3.33	9.47	85.3
GPS:		Quality	Plane	Coordinates:		Longitude = 120°25.70'W										PDOP =
GPS:		State	4N-17													
Note:		Center Deflection Normalized to 9 KPS =														
122	1	66.532	1	DGPS	Fix	8.505	10.690	8.530	7.910	6.920	6.245	5.030	3.905	3.325	9.360	85.300
GPS:		Quality	Plane	Coordinates:		Longitude = 120°25.73'W										PDOP =
GPS:		State	4N-18													
Note:		Center Deflection Normalized to 9 KPS =														
123	1	66.579	1	DGPS	Fix	8.61	9.15	9.24	8.49	7.38	6.59	4.84	3.69	3.15	8.85	84.6
GPS:		Quality	Plane	Coordinates:		Longitude = 120°25.76'W										PDOP =
GPS:		State	4N-19													
Note:		Center Deflection Normalized to 9 KPS =														
124	1	66.626	1	DGPS	Fix	8.610	9.150	9.240	8.490	7.380	6.590	4.840	3.690	3.150	8.850	84.600
GPS:		Quality	Plane	Coordinates:		Longitude = 120°25.79'W										PDOP =
GPS:		State	4N-20													
Note:		Center Deflection Normalized to 9 KPS =														
125	1	66.673	1	DGPS	Fix	8.68	8.67	9.12	8.37	7.33	6.54	4.78	3.65	3.17	8.7	84.8
GPS:		Quality	Plane	Coordinates:		Longitude = 120°25.82'W										PDOP =
GPS:		State	4N-21													
Note:		Center Deflection Normalized to 9 KPS =														
126	1	66.720	1	DGPS	Fix	8.79	8.69	9.19	8.47	7.43	6.67	4.94	3.69	3.26	8.76	84.6
GPS:		Quality	Plane	Coordinates:		Longitude = 120°25.85'W										PDOP =
GPS:		State	4N-22													

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GPS:	State	Plane	Coordinates:	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01
Note:	4N-13																
Center Deflection Normalized to 9 KPS =																	
118	1	66.352	1	8.94	10.36	8.56	7.79	6.7	5.9	4.59	3.53	3.2	6.63	86.1			
118	1	66.352	1	8.86	10.22	8.35	7.62	6.59	5.8	4.45	3.48	2.91	8.4	86.1			
118	1	66.352	1	8.84	9.54	8.32	7.6	6.6	5.8	4.54	3.46	3.05	8.35	86.1			
GPS:	Quality	:	DGPS	Fix	Latitude =	Longitude =	36°48.624'N	120°25.62'W									
GPS:	State	Plane	Coordinates:	9.713	8.840	9.540	8.320	7.600	6.600	5.800	4.540	3.460	3.050	8.350	86.100		
Center Deflection Normalized to 9 KPS =																	
Note:	4N-14																
119	1	66.400	1	8.78	20.78	14.32	12.92	10.82	9.19	6.86	5	4.04	14.62	83.5			
119	1	66.400	1	8.69	19.28	13.94	12.6	10.58	8.98	6.72	4.92	4.02	14.17	83.5			
119	1	66.400	1	8.72	19.2	13.98	12.62	10.64	9.05	6.81	5.04	4.16	14.19	83.5			
GPS:	Quality	:	DGPS	Fix	Latitude =	Longitude =	36°48.658'N	120°25.65'W									
GPS:	State	Plane	Coordinates:	9.713	8.840	9.540	8.320	7.600	6.600	5.800	4.540	3.460	3.050	8.350	86.100		
Center Deflection Normalized to 9 KPS =																	
Note:	4N-15																
120	1	66.449	1	8.85	9.95	8.78	8.11	7.06	6.29	4.92	3.73	3.18	8.57	86.1			
120	1	66.449	1	8.97	9.42	8.69	8.06	7.06	6.31	4.96	3.79	3.26	8.49	86.1			
120	1	66.449	1	8.87	9.07	8.58	7.95	6.98	6.22	4.9	3.76	3.23	8.36	86.1			
GPS:	Quality	:	DGPS	Fix	Latitude =	Longitude =	36°48.694'N	120°25.68'W									
GPS:	State	Plane	Coordinates:	9.890	8.897	9.480	8.683	8.040	7.033	6.273	4.927	3.760	3.223	8.473	86.100		
Center Deflection Normalized to 9 KPS =																	
Note:	4N-16																
121	1	66.494	1	8.83	10.28	9.9	8.57	6.85	5.99	4.74	3.73	3.14	8.8	86.8			
121	1	66.494	1	8.98	10.29	9.76	8.51	6.89	6.02	4.8	3.76	3.19	8.73	86.8			
121	1	66.494	1	8.905	10.285	9.830	8.540	6.870	6.005	4.770	3.745	3.165	8.765	86.800			
GPS:	Quality	:	DGPS	Fix	Latitude =	Longitude =	36°48.726'N	120°25.70'W									
GPS:	State	Plane	Coordinates:	9.890	8.897	9.480	8.683	8.040	7.033	6.273	4.927	3.760	3.223	8.473	86.100		
Center Deflection Normalized to 9 KPS =																	
Note:	4N-17																
122	1	66.550	1	8.91	9.14	8.98	8.26	7.18	6.37	4.96	3.69	2.93	8.64	84.2			
122	1	66.550	1	8.910	9.140	8.980	8.260	7.180	6.370	4.960	3.690	2.930	8.640	84.200			
122	1	66.550	1	9	9.13	8.92	8.21	7.16	6.37	4.99	3.71	2.93	8.55	84.2			
GPS:	Quality	:	DGPS	Fix	Latitude =	Longitude =	36°48.766'N	120°25.74'W									
GPS:	State	Plane	Coordinates:	9.890	8.897	9.480	8.683	8.040	7.033	6.273	4.927	3.760	3.223	8.473	86.100		
Center Deflection Normalized to 9 KPS =																	
Note:	4N-18																
123	1	66.561	1	8.87	13.76	10.55	9.23	7.45	6.65	5.23	4.02	3.44	10.84	85.3			
123	1	66.561	1	8.9	12.64	10.47	9.21	7.46	6.66	5.25	4.05	3.46	10.64	85.3			
123	1	66.561	1	8.74	12.33	10.29	9.03	7.33	6.54	5.16	3.98	3.4	10.41	85.3			
GPS:	Quality	:	DGPS	Fix	Latitude =	Longitude =	36°48.774'N	120°25.74'W									
GPS:	State	Plane	Coordinates:	12.687	8.740	12.330	10.290	9.030	7.330	6.540	5.160	3.980	3.400	10.410	85.300		





136	1	66.101	1	DGPS	Fix	8.73	9.25	8.64	8.07	7.22	6.64	5.48	4.34	3.57	8.44	91.9	
GPS:		Quality	:	Plane		Longitude =										120°25'47"W	PDOP =
State		Coordinates:															
Note:		3S-11															
137	1	66.048	1	DGPS	Fix	8.92	8.46	8.86	8.23	7.23	6.52	5.18	3.95	3.25	8.25	91.2	
GPS:		Quality	:	Plane		Longitude =										120°25'43"W	PDOP =
State		Coordinates:															
Note:		3S-12															
Center Deflection Normalized to 3 KIPS =																	
137	1	66.048	1	DGPS	Fix	8.97	8.09	8.7	8.09	7.14	6.43	5.13	3.97	3.31	8.03	91.2	
GPS:		Quality	:	Plane		Longitude =										120°25'43"W	PDOP =
State		Coordinates:															
Note:		3S-12															
Center Deflection Normalized to 3 KIPS =																	
138	1	66.004	1	DGPS	Fix	8.78	11.01	9.23	8.61	7.61	6.85	5.38	4.1	3.38	9.11	92.7	
GPS:		Quality	:	Plane		Longitude =										120°25'41"W	PDOP =
State		Coordinates:															
Note:		3S-13															
Center Deflection Normalized to 3 KIPS =																	
139	1	65.952	1	DGPS	Fix	8.8	11.33	10.29	9.48	8.3	7.38	5.75	4.28	3.58	10.18	92.3	
GPS:		Quality	:	Plane		Longitude =										120°25'36"W	PDOP =
State		Coordinates:															
Note:		3S-13															
Center Deflection Normalized to 3 KIPS =																	
140	1	65.902	1	DGPS	Fix	8.73	12.6	11.92	11.09	9.67	8.42	5.87	4.44	3.58	11.49	90.1	
GPS:		Quality	:	Plane		Longitude =										120°25'36"W	PDOP =
State		Coordinates:															
Note:		3S-14															
Center Deflection Normalized to 3 KIPS =																	
141	1	65.902	1	DGPS	Fix	8.68	12.52	11.87	11.04	9.63	8.4	5.88	4.39	3.52	11.46	90.1	
GPS:		Quality	:	Plane		Longitude =										120°25'34"W	PDOP =
State		Coordinates:															
Note:		3S-15															
Center Deflection Normalized to 3 KIPS =																	
141	1	65.848	1	DGPS	Fix	8.703	12.660	12.000	11.157	9.710	8.457	5.893	4.437	3.570	11.580	90.100	
GPS:		Quality	:	Plane		Longitude =										120°25'31"W	PDOP =
State		Coordinates:															
Note:		3S-16															
Center Deflection Normalized to 3 KIPS =																	
142	1	65.800	1	DGPS	Fix	8.2	17.92	15.15	13.76	11.55	9.94	7.47	5.39	4.17	14.33	90.1	
GPS:		Quality	:	Plane		Longitude =										120°25'28"W	PDOP =
State		Coordinates:															
Note:		3S-16															
Center Deflection Normalized to 3 KIPS =																	
142	1	65.800	1	DGPS	Fix	8.14	15.42	11.59	10.73	9.15	8.02	5.99	4.43	3.57	10.41	91.9	
GPS:		Quality	:	Plane		Longitude =										120°25'28"W	PDOP =
State		Coordinates:															
Note:		3S-16															
Center Deflection Normalized to 3 KIPS =																	
142	1	65.800	1	DGPS	Fix	8.140	15.420	11.590	10.730	9.150	8.020	5.990	4.430	3.570	10.410	91.900	
GPS:		Quality	:	Plane		Longitude =										120°25'28"W	PDOP =
State		Coordinates:															
Note:		3S-16															





155	1	65.193	1	8.58	19.39	12.55	11.62	10.13	8.99	6.86	5.1	4.14	12.08	97
155	1	65.193	1	8.53	19.03	12.5	11.57	10.08	8.97	6.85	5.04	4.21	12.02	97
Center Deflection Normalized to 8 KPS = 20.478														
GPS: Quality : DGPS Fix														
GPS: State : Plane Coordinates: Latitude = 36°47'79.5"N Longitude = 120°24'91"W PDOP =														
Note: 4S-9														
156	1	65.149	1	8.67	15.15	12.89	11.85	10.01	8.75	6.54	4.74	3.73	12.01	95.6
156	1	65.149	1	8.64	14.47	12.63	11.54	9.83	8.58	6.44	4.7	3.73	11.68	95.6
Center Deflection Normalized to 8 KPS = 15.400														
GPS: Quality : DGPS Fix														
GPS: State : Plane Coordinates: Latitude = 36°47'76.4"N Longitude = 120°24'88"W PDOP =														
Note: 4S-10														
157	1	65.100	1	8.09	26.23	12.63	11.28	9.39	8.12	6.15	4.72	4.16	13.41	90.5
Center Deflection Normalized to 8 KPS = 29.180														
157	1	65.100	1	8.06	25.48	12.4	11.05	9.23	7.99	6.03	4.7	4.16	13.06	90.5
157	1	65.100	1	8.03	23.82	12.38	11.06	9.24	8	6.05	4.67	4.14	13.06	90.5
Center Deflection Normalized to 8 KPS = 21.823														
GPS: Quality : DGPS Fix														
GPS: State : Plane Coordinates: Latitude = 36°47'72.8"N Longitude = 120°24'85"W PDOP =														
Note: 4S-11														
158	1	65.052	1	8.59	22.85	16.6	14.8	12.34	10.83	8.1	6.05	5.02	15.05	91.2
158	1	65.052	1	8.62	21.33	16.24	14.55	12.19	10.7	8.09	6.06	4.98	14.7	91.2
158	1	65.052	1	8.64	20.95	16.29	14.57	12.23	10.73	8.12	6.08	5.04	14.69	91.2
Center Deflection Normalized to 8 KPS = 21.823														
GPS: Quality : DGPS Fix														
GPS: State : Plane Coordinates: Latitude = 36°47'69.3"N Longitude = 120°24'82"W PDOP =														
Note: 4S-12														
159	1	65.003	1	8.63	15.19	13.52	12.08	10.33	9.03	6.86	5.14	4.08	12.63	91.9
159	1	65.003	1	8.82	14.87	13.29	11.89	10.24	8.92	6.84	5.19	4.08	12.45	91.9
159	1	65.003	1	8.56	14.65	13.13	11.76	10.13	8.84	6.75	5.16	4.03	12.29	91.9
Center Deflection Normalized to 8 KPS = 15.482														
GPS: Quality : DGPS Fix														
GPS: State : Plane Coordinates: Latitude = 36°47'65.8"N Longitude = 120°24'78"W PDOP =														
Note: 4S-13														
160	1	64.950	1	8.68	15.48	14.33	13.13	10.96	9.63	7.3	5.46	3.96	12.92	92.3
160	1	64.950	1	8.7	14.61	14.13	12.98	10.86	9.55	7.28	5.41	3.94	12.79	92.3
160	1	64.950	1	8.64	14.67	14.07	12.91	10.8	9.5	7.24	5.4	3.93	12.74	92.3
Center Deflection Normalized to 8 KPS = 15.482														
GPS: Quality : DGPS Fix														
GPS: State : Plane Coordinates: Latitude = 36°47'62.1"N Longitude = 120°24'76"W PDOP =														
Note: 4S-14														
161	1	64.884	1	8.31	25.24	23.78	21.31	17.92	14.51	10.3	7.11	5.38	18.49	89.4
161	1	64.884	1	8.31	25.63	23.2	20.81	17.58	14.29	10.16	7.05	5.32	18.34	89.4
Center Deflection Normalized to 8 KPS = 27.547														
GPS: Quality : DGPS Fix														
GPS: State : Plane Coordinates: Latitude = 36°47'62.1"N Longitude = 120°24'76"W PDOP =														

161	Quality	1	64.884	1	DGPS	Fix	8.2	25.09	22.92	20.57	17.39	14.11	10.05	6.91	5.35	18.12	89.4
GPS:		State	Plane				Latitude			Longitude							
Note:		4S-15															
162	Quality	1	64.850	1	DGPS	Fix	8.81	8.67	8.85	8.28	7.37	6.22	4.87	3.76	3.09	8.21	91.9
GPS:		State	Plane				Latitude			Longitude							
Note:		4S-15															
Center Deflection Normalized to 9 GPS =																	
162	Quality	1	64.850	1	DGPS	Fix	8.86	8.85	8.75	8.19	7.35	6.22	4.89	3.81	3.13	8.11	91.9
GPS:		State	Plane				Latitude			Longitude							
Note:		4S-16															
Center Deflection Normalized to 9 GPS =																	
163	Quality	1	64.802	1	DGPS	Fix	8.59	12.41	10.58	9.49	8.1	6.8	5.38	4.12	3.48	9.73	90.5
GPS:		State	Plane				Latitude			Longitude							
Note:		4S-16															
Center Deflection Normalized to 9 GPS =																	
163	Quality	1	64.802	1	DGPS	Fix	8.65	11.16	10.45	9.37	8.02	6.74	5.31	4.05	3.46	9.58	90.5
GPS:		State	Plane				Latitude			Longitude							
Note:		4S-16															
Center Deflection Normalized to 9 GPS =																	
164	Quality	1	64.750	1	DGPS	Fix	8.73	11.07	10.54	9.47	8.09	6.8	5.38	4.1	3.52	9.64	90.5
GPS:		State	Plane				Latitude			Longitude							
Note:		4S-17															
Center Deflection Normalized to 9 GPS =																	
164	Quality	1	64.750	1	DGPS	Fix	8.610	11.070	10.540	9.470	8.090	6.800	5.380	4.100	3.520	9.640	90.500
GPS:		State	Plane				Latitude			Longitude							
Note:		4S-17															
Center Deflection Normalized to 9 GPS =																	
164	Quality	1	64.750	1	DGPS	Fix	8.56	14.12	13.2	12.08	10.4	9.09	6.78	4.84	3.71	12.34	89.7
GPS:		State	Plane				Latitude			Longitude							
Note:		4S-18															
Center Deflection Normalized to 9 GPS =																	
164	Quality	1	64.750	1	DGPS	Fix	8.61	13.58	13.03	11.94	10.32	9.01	6.77	4.81	3.68	12.22	89.7
GPS:		State	Plane				Latitude			Longitude							
Note:		4S-18															
Center Deflection Normalized to 9 GPS =																	
165	Quality	1	64.729	1	DGPS	Fix	8.57	10.94	9.69	8.96	7.78	6.68	5.1	3.84	3.25	9.52	89.7
GPS:		State	Plane				Latitude			Longitude							
Note:		4S-19															
Center Deflection Normalized to 9 GPS =																	
165	Quality	1	64.729	1	DGPS	Fix	8.58	10.89	9.71	8.98	7.77	6.68	5.11	3.85	3.25	9.47	89.7
GPS:		State	Plane				Latitude			Longitude							
Note:		4S-19															
Center Deflection Normalized to 9 GPS =																	
165	Quality	1	64.729	1	DGPS	Fix	8.563	10.900	9.730	8.993	7.790	6.690	5.100	3.843	3.240	9.647	89.700
GPS:		State	Plane				Latitude			Longitude							
Note:		4S-19															
Center Deflection Normalized to 9 GPS =																	
166	Quality	1	64.711	1	DGPS	Fix	8.44	15.67	12.81	11.66	9.94	8.77	6.69	5.02	4.12	12.39	88.4
GPS:		State	Plane				Latitude			Longitude							
Note:		4S-19															
Center Deflection Normalized to 9 GPS =																	
166	Quality	1	64.711	1	DGPS	Fix	8.29	14.91	12.35	11.26	9.62	8.5	6.52	4.91	4.04	11.94	89.4
GPS:		State	Plane				Latitude			Longitude							
Note:		4S-20															
Center Deflection Normalized to 9 GPS =																	
166	Quality	1	64.711	1	DGPS	Fix	8.4	14.63	12.49	11.4	9.76	8.64	6.57	4.95	4.1	12.09	89.4
GPS:		State	Plane				Latitude			Longitude							
Note:		4S-20															
Center Deflection Normalized to 9 GPS =																	
167	Quality	1	64.695	1	DGPS	Fix	8.3	19.65	14.68	13.37	11.48	10.09	7.39	5.32	4.28	12.95	95.2
GPS:		State	Plane				Latitude			Longitude							
Note:		4S-20															
Center Deflection Normalized to 9 GPS =																	
167	Quality	1	64.695	1	DGPS	Fix	8.300	19.650	14.680	13.370	11.480	10.090	7.390	5.320	4.280	12.950	95.200
GPS:		State	Plane				Latitude			Longitude							
Note:		4S-20															
Center Deflection Normalized to 9 GPS =																	
167	Quality	1	64.695	1	DGPS	Fix	8.52	23.69	14.73	13.48	11.69	10.34	7.72	5.63	4.64	13.13	95.2
GPS:		State	Plane				Latitude			Longitude							
Note:		4S-20															
Center Deflection Normalized to 9 GPS =																	

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GPS:	State	Plane	Coordinates:	#DIV/0!															
Note:	4S-21																		
Center Deflection Normalized to 9 KPS =																			
167	1	66.870	DGPS	1	8.54	10.55	8.46	7.69	6.59	5.85	4.47	3.33	2.72	2.72	8.16	49.4			
167	1	66.870	DGPS	1	8.58	10.11	8.39	7.66	6.6	5.87	4.58	3.41	2.81	2.81	8.15	-49.4			
167	1	66.870	DGPS	1	8.51	10.3	8.27	7.55	6.52	5.76	4.46	3.35	2.74	2.74	8.09	-49.4			
GPS:	Quality		Fix																
GPS:	State	Plane	Coordinates:																
				10.893	8.510	10.300	8.270	7.550	6.520	5.760	4.460	3.350	2.740	2.740	8.090	-49.400			
Note:	4S-21																		
168	1	66.699	DGPS	1	8.34	11.02	10.15	8.84	6.64	5.38	4.28	3.24	2.56	2.56	8.93	-49.4			
168	1	66.699	DGPS	1	8.41	10.56	10	8.75	6.63	5.36	4.27	3.24	2.61	2.61	8.87	-49.4			
168	1	66.699	DGPS	1	8.25	10.25	9.82	8.6	6.54	5.26	4.2	3.21	2.63	2.63	8.6	-49.4			
GPS:	Quality		Fix																
GPS:	State	Plane	Coordinates:																
				10.893	8.510	10.300	8.270	7.550	6.520	5.760	4.460	3.350	2.740	2.740	8.090	-49.400			
Note:	4S-21																		
169	1	66.752	DGPS	1	8.33	13.92	13.03	11.64	9.67	8.08	5.74	4.1	3.16	3.16	12.03	-49.1			
169	1	66.752	DGPS	1	8.36	14	12.8	11.44	9.56	8.01	5.71	4.06	3.12	3.12	11.8	-49.1			
169	1	66.752	DGPS	1	8.3	13.95	12.72	11.39	9.52	7.97	5.69	4.07	3.11	3.11	11.68	-49.1			
GPS:	Quality		Fix																
GPS:	State	Plane	Coordinates:																
				14.079	8.330	13.957	12.850	11.490	9.583	8.020	5.713	4.077	3.130	3.130	11.837	-49.100			
Note:	5N-2																		
170	1	66.799	DGPS	1	8.19	10.5	7.47	6.28	5.17	4.48	3.6	2.87	2.37	2.37	8.04	-49.4			
170	1	66.799	DGPS	1	8.26	10.2	7.48	6.32	5.2	4.52	3.64	2.9	2.36	2.36	7.93	-49.4			
170	1	66.799	DGPS	1	11.325	8.225	10.350	7.475	6.300	5.185	4.500	3.620	2.885	2.375	7.985	-49.400			
GPS:	Quality		Fix																
GPS:	State	Plane	Coordinates:																
				11.325	8.225	10.350	7.475	6.300	5.185	4.500	3.620	2.885	2.375	2.375	7.985	-49.400			
Note:	5N-4																		
171	1	66.850	DGPS	1	8.25	11.9	10.39	9.55	8.39	7.57	5.5	3.62	2.87	2.87	9.55	-49.4			
171	1	66.850	DGPS	1	8.29	11.64	10.23	9.41	8.31	7.49	5.47	3.64	2.86	2.86	9.47	-49.4			
171	1	66.850	DGPS	1	8.35	11.53	10.25	9.44	8.34	7.49	5.5	3.61	2.88	2.88	9.45	-49.4			
GPS:	Quality		Fix																
GPS:	State	Plane	Coordinates:																
				12.882	8.250	11.900	10.390	9.550	8.390	7.570	5.500	3.620	2.870	2.870	9.550	-49.400			
Note:	5N-5																		
172	1	66.900	DGPS	1	8.3	10.39	9.08	8.35	7.24	5.79	4.26	3.12	2.61	2.61	8.75	-49.1			
172	1	66.900	DGPS	1	8.28	10.02	8.94	8.22	7.17	5.75	4.24	3.13	2.67	2.67	8.66	-49.1			
172	1	66.900	DGPS	1	8.2	9.93	8.85	8.16	7.16	5.72	4.23	3.09	2.66	2.66	8.55	-49.1			
GPS:	Quality		Fix																
GPS:	State	Plane	Coordinates:																
				10.889	8.200	9.930	8.850	8.160	7.160	5.720	4.230	3.090	2.660	2.660	8.550	-49.100			



179	1	67.253	1	8.28	19.86	16.46	14.6	11.88	9.84	6.19	4.32	3.25	14.85	-49.4	
179	1	67.253	1	8.26	19.24	16.26	14.44	11.76	9.78	6.19	4.29	3.26	14.68	-49.4	
Center Deflection Normalized to 8 IPS =															
GPS: Quality				21.871	Fix				Latitude =				120°26.16'W	PDOP =	
GPS: State				Plane	Coordinates:										
Note: 5N-13															
180	1	67.300	1	8.51	14.73	13.49	12.12	10.26	8.79	6.16	4.04	3.06	12.68	-49.1	
180	1	67.300	1	8.59	14.24	12.94	11.67	9.99	8.61	6.09	4.07	3.04	12.25	-49.1	
Center Deflection Normalized to 8 IPS =															
GPS: Quality				15.247	Fix				Latitude =				120°26.18'W	PDOP =	
GPS: State				Plane	Coordinates:										
Note: 5N-14															
180	1	67.300	1	8.53	13.83	12.68	11.48	9.87	8.51	6.06	4.05	3.06	11.99	-49.1	
Center Deflection Normalized to 8 IPS =															
GPS: Quality				13.295	Fix				Latitude =				120°26.19'W	PDOP =	
GPS: State				Plane	Coordinates:										
Note: 5N-15															
181	1	67.350	1	8.26	19.92	18.75	16.24	12.13	9.26	5.96	3.98	2.86	16.67	-49.1	
Center Deflection Normalized to 8 IPS =															
GPS: Quality				21.706	Fix				Latitude =				120°26.22'W	PDOP =	
GPS: State				Plane	Coordinates:										
Note: 5N-16															
182	1	67.400	1	8.53	13.14	9.75	8.87	7.6	6.63	4.98	3.64	3.02	9.44	-49.1	
182	1	67.400	1	8.19	12.86	9.21	8.4	7.21	6.32	4.75	3.52	2.92	8.9	-49.1	
182	1	67.400	1	8.34	12.32	9.35	8.54	7.36	6.44	4.84	3.57	2.98	9.02	-49.1	
Center Deflection Normalized to 8 IPS =															
GPS: Quality				13.295	Fix				Latitude =				120°26.25'W	PDOP =	
GPS: State				Plane	Coordinates:										
Note: 5N-17															
183	1	67.450	1	8.54	11.5	9.5	8.7	7.56	6.7	5.09	3.73	3.07	8.82	-49.1	
183	1	67.450	1	8.35	10.98	9.17	8.42	7.34	6.52	5.01	3.7	3.04	8.49	-49.1	
183	1	67.450	1	8.33	10.92	9.09	8.35	7.31	6.49	4.97	3.73	3.04	8.43	-49.1	
Center Deflection Normalized to 8 IPS =															
GPS: Quality				11.817	Fix				Latitude =				120°26.28'W	PDOP =	
GPS: State				Plane	Coordinates:										
Note: 5N-18															
184	1	67.500	1	8.51	12.09	10.55	9.6	8.17	7.09	5.3	3.9	3.27	9.96	-49.4	
184	1	67.500	1	8.42	12.36	10.28	9.36	8.01	6.96	5.25	3.88	3.2	9.84	-49.4	
184	1	67.500	1	8.4	9.31	10.19	9.3	7.96	6.92	5.24	3.85	3.16	9.74	-49.4	
Center Deflection Normalized to 8 IPS =															
GPS: Quality				11.985	Fix				Latitude =				120°26.32'W	PDOP =	
GPS: State				Plane	Coordinates:										
Note: 5N-18															
185	1	67.550	1	8.48	13.29	10.3	9.34	8.01	6.99	5.33	3.97	3.35	9.95	-49.1	
185	1	67.550	1	8.46	12.88	10.15	9.22	7.94	6.93	5.34	4	3.31	9.73	-49.1	
Center Deflection Normalized to 8 IPS =															
GPS: Quality				13.904	Fix				Latitude =				120°26.33'W	PDOP =	
GPS: State				Plane	Coordinates:										

185	1	67.550	1	8.31	12.61	9.99	9.07	7.82	6.82	5.24	3.95	3.28	9.68	-49.1	2.5	
GPS:	Quality	:	DGPS	Fix	Latitude =									Longitude =	PDOP =	
GPS:	State	:	Plane	Coordinates:												
Note:	5N-19															
186	1	67.602	1	8.63	10.3	10.29	9.43	8.22	7.26	5.57	3.85	3.14	9.81	-49.1	2.5	
Center Deflection Normalized to 9 KIPS =																
186	1	67.602	1	8.53	9.99	10.07	9.24	8.07	7.15	5.51	3.83	3.12	9.56	-49.1	2.5	
GPS:	Quality	:	DGPS	Fix	Latitude =									Longitude =	PDOP =	
GPS:	State	:	Plane	Coordinates:												
Note:	5N-20															
187	1	67.652	1	8.23	15.12	10.32	9.35	8.11	7.16	5.51	4.11	3.39	10.28	-49.1	2.5	
Center Deflection Normalized to 9 KIPS =																
187	1	67.652	1	8.22	13.74	10.11	9.18	7.97	7.06	5.46	4.18	3.39	10.07	-49.1	2.5	
GPS:	Quality	:	DGPS	Fix	Latitude =									Longitude =	PDOP =	
GPS:	State	:	Plane	Coordinates:												
Note:	5N-21															
188	1	67.661	1	8.48	15.78	12.5	11.28	9.61	8.33	6.11	4.43	3.4	11.64	-49.1	2.5	
Center Deflection Normalized to 9 KIPS =																
188	1	67.661	1	8.45	15.5	12.27	11.09	9.49	8.23	6.07	4.35	3.35	11.39	-49.1	2.5	
GPS:	Quality	:	DGPS	Fix	Latitude =									Longitude =	PDOP =	
GPS:	State	:	Plane	Coordinates:												
Note:	5N-21															
189	1	67.700	1	8.45	15.28	12.26	11.09	9.49	8.24	6.11	4.41	3.34	11.41	-49.1	2.5	
Center Deflection Normalized to 9 KIPS =																
189	1	67.700	1	8.41	14.45	10.17	9.36	8.16	7.24	5.44	4.08	3.43	9.81	-49.1	2.5	
GPS:	Quality	:	DGPS	Fix	Latitude =									Longitude =	PDOP =	
GPS:	State	:	Plane	Coordinates:												
Note:	5N-21															
190	1	67.751	1	8.455	15.390	12.265	11.090	9.490	8.235	6.090	4.380	3.345	11.400	-49.100	2.5	
Center Deflection Normalized to 9 KIPS =																
190	1	67.751	1	8.42	12.18	11.03	10	8.55	7.2	5.36	3.89	3.05	10.26	-48.7	2.5	
GPS:	Quality	:	DGPS	Fix	Latitude =									Longitude =	PDOP =	
GPS:	State	:	Plane	Coordinates:												
Note:	5N-21															
191	1	67.762	1	8.45	13	11.51	10.33	8.77	7.6	5.79	4.15	3.24	11.04	-48.3	2.5	
Center Deflection Normalized to 9 KIPS =																
191	1	67.762	1	8.41	12.57	11.24	10.13	8.64	7.49	5.69	4.1	3.17	10.78	-48.3	2.5	
GPS:	Quality	:	DGPS	Fix	Latitude =									Longitude =	PDOP =	
GPS:	State	:	Plane	Coordinates:												
Note:	5N-21															

GPS:	State	Plane	Coordinates:	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01
Note:	6N-4															
Center Deflection Normalized to 9 KPS =																
192	1	67.771	1	8.26	13.32	12.08	10.92	9.26	8.15	6.17	4.47	3.4	11.2	48.3		
192	1	67.771	1	8.41	13.36	12.17	11	9.39	8.23	6.27	4.57	3.41	11.25	48.3		
192	1	67.771	1	8.42	13.42	12.23	11.08	9.45	8.28	6.32	4.59	3.46	11.25	48.3		
GPS:	Quality	Plane	Fix	Latitude = 36°49.634'N Longitude = 120°26.48'W PDOP =												
GPS:	State	Plane	Coordinates:													
Center Deflection Normalized to 9 KPS =																
193	1	67.783	1	8.420	13.420	12.230	11.080	9.450	8.280	6.320	4.590	3.460	11.250	48.300		
Note:	6N-5															
193	1	67.783	1	8.45	12.09	11.65	10.59	9.08	7.93	5.98	4.38	3.43	10.87	48.3		
193	1	67.783	1	8.52	11.81	11.51	10.5	9.04	7.91	6	4.35	3.36	10.77	48.3		
193	1	67.783	1	8.35	11.5	11.28	10.3	8.86	7.76	5.87	4.26	3.31	10.53	48.3		
GPS:	Quality	Plane	Fix	Latitude = 36°49.642'N Longitude = 120°26.49'W PDOP =												
GPS:	State	Plane	Coordinates:													
Center Deflection Normalized to 9 KPS =																
194	1	67.797	1	8.435	11.855	11.395	10.400	8.950	7.835	5.935	4.305	3.355	10.650	48.300		
Note:	6N-6															
194	1	67.797	1	8.48	10.85	10.09	9.2	7.84	6.99	5.39	3.92	3.08	9.3	48.7		
194	1	67.797	1	8.34	10.94	9.84	8.98	7.77	6.86	5.29	3.89	3.08	9.01	48.7		
194	1	67.797	1	8.37	10.73	9.85	9.01	7.81	6.9	5.32	3.88	3.08	9.04	48.7		
GPS:	Quality	Plane	Fix	Latitude = 36°49.652'N Longitude = 120°26.50'W PDOP =												
GPS:	State	Plane	Coordinates:													
Center Deflection Normalized to 9 KPS =																
195	1	67.810	1	8.397	10.840	9.927	9.063	7.840	6.917	5.333	3.897	3.080	9.117	48.700		
Note:	6N-7															
195	1	67.810	1	8.29	12.75	11.07	10.03	8.66	7.49	5.66	4.05	3.19	10.06	48.7		
195	1	67.810	1	8.35	12.07	10.91	9.93	8.52	7.43	5.65	4.08	3.18	9.92	48.7		
GPS:	Quality	Plane	Fix	Latitude = 36°49.662'N Longitude = 120°26.51'W PDOP =												
GPS:	State	Plane	Coordinates:													
Center Deflection Normalized to 9 KPS =																
196	1	67.824	1	8.320	12.410	10.990	9.880	8.550	7.460	5.655	4.065	3.185	9.990	48.700		
Note:	6N-8															
196	1	67.810	1	8.3	11.51	10.87	9.89	8.52	7.42	5.65	4.04	3.15	9.9	48.7		
GPS:	Quality	Plane	Fix	Latitude = 36°49.662'N Longitude = 120°26.51'W PDOP =												
GPS:	State	Plane	Coordinates:													
Center Deflection Normalized to 9 KPS =																
196	1	67.824	1	8.28	12.03	10.29	9.37	8.03	7.02	5.34	3.97	3.23	9.84	48.3		
Note:	6N-9															
196	1	67.824	1	8.280	12.030	10.290	9.370	8.030	7.020	5.340	3.970	3.230	9.840	48.300		
196	1	67.824	1	8.26	11.75	10.09	9.21	7.93	6.93	5.33	3.92	3.23	9.62	48.3		
196	1	67.824	1	8.28	11.77	10.12	9.23	7.94	6.96	5.3	3.95	3.23	9.6	48.3		
GPS:	Quality	Plane	Fix	Latitude = 36°49.671'N Longitude = 120°26.51'W PDOP =												
GPS:	State	Plane	Coordinates:													
Center Deflection Normalized to 9 KPS =																
197	1	67.834	1	8.46	12.52	10.83	9.87	8.53	7.49	5.66	4.09	3.35	10.46	48.3		
197	1	67.834	1	8.45	12.24	10.84	9.74	8.44	7.42	5.64	4.08	3.31	10.27	48.3		
197	1	67.834	1	8.33	11.73	10.45	9.57	8.3	7.3	5.55	4.02	3.27	10.04	48.3		
GPS:	Quality	Plane	Fix	Latitude = 36°49.679'N Longitude = 120°26.52'W PDOP =												
GPS:	State	Plane	Coordinates:													
Center Deflection Normalized to 9 KPS =																
197	1	67.834	1	8.330	11.730	10.450	9.570	8.300	7.300	5.550	4.020	3.270	10.040	48.300		
Note:	6N-9															



204	1	67.915	1	8.25	13.07	11.23	10.24	8.83	7.77	5.95	4.31	3.34	10.43	-48.7
204	1	67.915	1	8.36	13.13	11.4	10.4	8.99	7.92	6.07	4.38	3.39	10.63	-48.7
Center Deflection Normalized to 3 KPS = 14.557														
GPS: Quality : DGPS Fix														
GPS: State : Plane Coordinates:														
Latitude = 36°48'758"N Longitude = 120°26'57"W PDOP = 2.4														
Note: 6N-17														
205	1	67.924	1	8.13	14.08	11.63	10.57	9.1	7.98	6.09	4.42	3.46	11.22	-48.7
205	1	67.924	1	8.26	14.31	11.6	10.57	9.13	8.01	6.16	4.47	3.43	11.2	-48.7
Center Deflection Normalized to 3 KPS = 15.589														
GPS: Quality : DGPS Fix														
GPS: State : Plane Coordinates:														
Latitude = 36°48'744"N Longitude = 120°26'58"W PDOP = 2.4														
Note: 6N-18														
206	1	67.931	1	8.26	13.88	12.17	11.13	9.59	8.48	6.53	4.66	3.66	11.27	-48.7
Center Deflection Normalized to 3 KPS = 15.123														
GPS: Quality : DGPS Fix														
GPS: State : Plane Coordinates:														
Latitude = 36°48'754"N Longitude = 120°26'58"W PDOP = 2.4														
Note: 6N-19														
207	1	67.937	1	8.06	14.65	10.89	9.9	8.55	7.5	5.64	4.05	3.31	10.59	-48.3
207	1	67.937	1	8.12	13.97	10.67	9.73	8.43	7.4	5.62	4.07	3.32	10.4	-48.3
Center Deflection Normalized to 3 KPS = 15.385														
GPS: Quality : DGPS Fix														
GPS: State : Plane Coordinates:														
Latitude = 36°48'754"N Longitude = 120°26'58"W PDOP = 2.4														
Note: 6N-20														
208	1	67.943	1	8.09	15.19	11.72	10.55	8.93	7.73	5.71	4.14	3.29	11.3	-48.7
208	1	67.943	1	8	14.82	11.32	10.22	8.67	7.52	5.58	4.07	3.24	10.86	-48.7
208	1	67.943	1	7.89	16.39	10.69	9.71	8.26	7.2	5.35	3.89	3.26	10.98	-48.7
Center Deflection Normalized to 3 KPS = 17.617														
GPS: Quality : DGPS Fix														
GPS: State : Plane Coordinates:														
Latitude = 36°48'758"N Longitude = 120°26'59"W PDOP = 2.4														
Note: 6N-21														
209	1	67.940	1	8.7	9.7	9.25	8.45	7.34	6.5	5.02	3.8	3.07	8.61	-48.3
209	1	67.940	1	8.7	9.27	9.1	8.33	7.29	6.45	5	3.81	3.07	8.52	-48.3
209	1	67.940	1	8.73	9.45	9.06	8.31	7.28	6.45	5.01	3.81	3.07	8.49	-48.3
Center Deflection Normalized to 3 KPS = 9.769														
GPS: Quality : DGPS Fix														
GPS: State : Plane Coordinates:														
Latitude = 36°48'758"N Longitude = 120°26'59"W PDOP = 2.3														
Note: 5S-1														
210	1	67.930	1	8.62	8.26	8.48	7.8	6.84	6.09	4.73	3.68	3.17	8.41	-48.7
210	1	67.930	1	8.67	8.4	8.43	7.75	6.84	6.08	4.76	3.67	3.18	8.31	-48.7
Center Deflection Normalized to 3 KPS = 8.645														
GPS: Quality : DGPS Fix														
GPS: State : Plane Coordinates:														
Latitude = 36°48'758"N Longitude = 120°26'59"W PDOP = 2.3														
Note: 5S-1														
210	1	67.930	1	8.645	8.330	8.455	7.775	6.840	6.085	4.745	3.675	3.175	8.360	-48.700

210	Quality	1	67.930	1	8.57	8.14	8.29	7.63	6.74	6.01	4.71	3.65	3.15	8.17	-48.7
GPS:		State	Plane	Fix											
GPS:		Coordinates:	36°49'751"N 120°26'58"W												
Note:		SS-2													
211	Quality	1	67.918	1	8.63	10.33	9.88	9.06	7.88	6.98	5.37	4	3.21	9.56	-48.3
GPS:		State	Plane	Fix											
GPS:		Coordinates:	36°49'742"N 120°26'58"W												
Note:		SS-3													
Center Deflection Normalized to # KIPS =															
211	Quality	1	67.918	1	8.7	10.89	9.85	9.05	7.91	7	5.45	4.03	3.2	9.53	-48.3
GPS:		State	Plane	Fix											
GPS:		Coordinates:	36°49'742"N 120°26'58"W												
Note:		SS-3													
Center Deflection Normalized to # KIPS =															
212	Quality	1	67.900	1	8.46	12.39	11.8	10.87	9.42	8.31	6.3	4.54	3.66	11.52	-48.7
GPS:		State	Plane	Fix											
GPS:		Coordinates:	36°49'730"N 120°26'57"W												
Note:		SS-4													
Center Deflection Normalized to # KIPS =															
213	Quality	1	67.885	1	8.54	14.14	12.92	11.61	9.94	8.75	6.62	4.6	3.64	12.53	-48.3
GPS:		State	Plane	Fix											
GPS:		Coordinates:	36°49'718"N 120°26'56"W												
Note:		SS-4													
Center Deflection Normalized to # KIPS =															
213	Quality	1	67.885	1	8.45	14.08	12.6	11.36	9.75	8.6	6.52	4.53	3.52	12.12	-48.3
GPS:		State	Plane	Fix											
GPS:		Coordinates:	36°49'718"N 120°26'56"W												
Note:		SS-4													
Center Deflection Normalized to # KIPS =															
214	Quality	1	67.871	1	8.57	12.01	12.07	11.05	9.62	8.47	6.43	4.72	3.86	11.27	-48.3
GPS:		State	Plane	Fix											
GPS:		Coordinates:	36°49'708"N 120°26'55"W												
Note:		SS-5													
Center Deflection Normalized to # KIPS =															
215	Quality	1	67.855	1	8.61	14.39	12.09	10.94	9.3	8.11	5.68	4.19	3.45	11.76	-48.7
GPS:		State	Plane	Fix											
GPS:		Coordinates:	36°49'697"N 120°26'54"W												
Note:		SS-6													
Center Deflection Normalized to # KIPS =															
215	Quality	1	67.855	1	8.53	13.64	11.74	10.66	9.12	7.99	5.65	4.2	3.41	11.4	-48.7
GPS:		State	Plane	Fix											
GPS:		Coordinates:	36°49'697"N 120°26'54"W												
Note:		SS-7													
Center Deflection Normalized to # KIPS =															
216	Quality	1	67.841	1	8.78	15.56	12.04	11.05	9.56	8.38	6.38	4.64	3.76	11.79	-48.7
GPS:		State	Plane	Fix											
GPS:		Coordinates:	36°49'686"N 120°26'53"W												
Note:		SS-7													
Center Deflection Normalized to # KIPS =															
216	Quality	1	67.841	1	8.52	14.17	11.57	10.65	9.25	8.12	6.17	4.59	3.7	11.29	-48.7
GPS:		State	Plane	Fix											
GPS:		Coordinates:	36°49'686"N 120°26'53"W												
Note:		SS-7													

GPS:	State	Plane	Coordinates:	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Note:	5S-8														
Center Deflection Normalized to 9 KPS =															
217	1	67.825	1	8.65	13.53	12.2	11.03	9.1	7.79	5.65	4.14	3.23	11.1	48.3	3.2
217	1	67.825	1	8.44	12.46	11.7	10.61	8.83	7.57	5.54	4.07	3.22	10.65	48.3	
217	1	67.825	1	8.61	12.5	11.8	10.71	8.94	7.67	5.65	4.1	3.27	10.78	48.3	
GPS:	Quality	:	Fix	Longitude = 120°26.52'W PDOP =											
GPS:	State	:	Plane	Latitude = 36°49.675'N											
Center Deflection Normalized to 9 KPS = 13.086															
Note:	5S-9														
218	1	67.810	1	8.62	14.51	12.46	11.27	9.59	8.32	6.18	4.57	3.57	12.1	48.3	
218	1	67.810	1	8.54	13.7	12.06	10.99	9.4	8.2	6.11	4.42	3.56	11.73	48.3	
218	1	67.810	1	8.48	13.54	11.94	10.87	9.33	8.13	6.06	4.4	3.57	11.6	48.3	
GPS:	Quality	:	Fix	Longitude = 120°26.51'W PDOP =											
GPS:	State	:	Plane	Latitude = 36°49.664'N											
Center Deflection Normalized to 9 KPS = 14.464															
Note:	5S-10														
219	1	67.795	1	8.5	14.39	12.22	11.1	9.45	8.18	5.99	4.45	3.45	11.5	48.3	
219	1	67.795	1	8.5	13.79	11.89	10.82	9.27	8.07	5.98	4.42	3.45	11.12	48.3	
219	1	67.795	1	8.46	13.47	11.79	10.74	9.22	8.04	5.98	4.42	3.44	11.01	48.3	
GPS:	Quality	:	Fix	Longitude = 120°26.50'W PDOP =											
GPS:	State	:	Plane	Latitude = 36°49.653'N											
Center Deflection Normalized to 9 KPS = 14.723															
Note:	5S-11														
220	1	67.780	1	8.37	18.16	15.16	13.78	11.81	9.86	7.14	5.03	3.85	14.32	48.7	
220	1	67.780	1	8.4	17.43	14.94	13.63	11.73	9.83	7.14	4.97	3.92	14.1	48.7	
220	1	67.780	1	8.385	17.795	15.050	13.705	11.770	9.845	7.140	5.000	3.885	14.210	48.700	
GPS:	Quality	:	Fix	Longitude = 120°26.48'W PDOP =											
GPS:	State	:	Plane	Latitude = 36°49.643'N											
Center Deflection Normalized to 9 KPS = 19.100															
Note:	5S-12														
221	1	67.765	1	8.57	17.78	14.54	13.31	11.42	10.01	7.42	5.32	4.26	13.93	48.7	
221	1	67.765	1	8.570	17.780	14.540	13.310	11.420	10.010	7.420	5.320	4.260	13.930	48.700	
221	1	67.765	1	8.37	17.41	14.07	12.87	11.09	9.72	7.25	5.19	4.16	13.44	48.7	
GPS:	Quality	:	Fix	Longitude = 120°26.48'W PDOP =											
GPS:	State	:	Plane	Latitude = 36°49.632'N											
Center Deflection Normalized to 9 KPS = 18.872															
Note:	5S-13														
222	1	67.750	1	8.62	15.43	13.59	12.39	10.61	9.3	6.99	5.04	4.01	12.95	48.7	
222	1	67.750	1	8.52	14.89	13.14	12.02	10.33	9.1	6.84	4.97	3.91	12.51	48.7	
222	1	67.750	1	8.44	14.66	13.03	11.9	10.27	9.02	6.81	4.91	3.92	12.4	48.7	
GPS:	Quality	:	Fix	Longitude = 120°26.48'W PDOP =											
GPS:	State	:	Plane	Latitude = 36°49.621'N											
Center Deflection Normalized to 9 KPS = 15.633															

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229	1	67,645	1	8.35	12.02	11.43	10.38	8.85	7.73	5.77	4.34	3.41	10.88	-48.7
229	1	67,645	1	8.47	11.96	11.6	10.52	9.01	7.86	5.86	4.44	3.44	11	-48.7
Center Deflection Normalized to 9 kPSF = 13.060														
GPS: Quality : DGPS Fix Longitude = 120°26:41:W PDOP = 3.430														
GPS: State : Plane Coordinates:														
Note: 6S-21														
230	1	67,639	1	8.51	16.13	13.31	12.04	8.96	6.79	5.02	3.93	12.45	-48	
230	1	67,639	1	8.63	15.75	12.88	11.66	10.03	8.77	6.64	4.87	3.87	12.12	-48
Center Deflection Normalized to 9 kPSF = 16.740														
GPS: Quality : DGPS Fix Longitude = 120°26:41:W PDOP = 3.88														
GPS: State : Plane Coordinates:														
Note: 6S-1														
231	1	67,600	1	8.28	14.62	12.44	11.33	9.68	8.52	6.37	4.77	3.66	11.7	-48.7
Center Deflection Normalized to 9 kPSF = 15.891														
231	1	67,600	1	8.44	14.18	12.34	11.26	9.69	8.94	6.44	4.74	3.71	11.52	-48.7
231	1	67,600	1	8.4	14.57	12.28	11.22	9.67	8.52	6.45	4.77	3.74	11.43	-48.7
Center Deflection Normalized to 9 kPSF = 12.308														
GPS: Quality : DGPS Fix Longitude = 120°26:35:W PDOP = 3.29														
GPS: State : Plane Coordinates:														
Note: 6S-2														
232	1	67,550	1	8.62	11.89	10.38	9.47	8.19	7.22	5.51	3.99	3.24	9.97	-48
232	1	67,550	1	8.7	12.33	10.3	9.42	8.2	7.19	5.53	4.01	3.3	9.89	-48
232	1	67,550	1	8.65	11.83	10.2	9.34	8.12	7.15	5.5	4.03	3.29	9.81	-48
Center Deflection Normalized to 9 kPSF = 12.308														
GPS: Quality : DGPS Fix Longitude = 120°26:32:W PDOP = 3.02														
GPS: State : Plane Coordinates:														
Note: 6S-3														
233	1	67,500	1	8.56	14.28	10.12	9.04	7.67	6.6	4.86	3.8	3.05	10.17	-48.3
233	1	67,500	1	8.36	14	9.76	8.79	6.46	4.81	3.79	3.01	3.75	9.75	-48.3
233	1	67,500	1	8.41	13.78	9.74	8.76	7.49	6.47	4.83	3.78	3.02	9.69	-48.3
Center Deflection Normalized to 9 kPSF = 14.808														
GPS: Quality : DGPS Fix Longitude = 120°26:32:W PDOP = 3.015														
GPS: State : Plane Coordinates:														
Note: 6S-4														
234	1	67,449	1	8.4	10.71	10.94	10.03	8.6	7.51	5.76	4.36	3.69	10.38	-48
234	1	67,449	1	8.39	10.37	10.73	9.86	8.49	7.42	5.74	4.36	3.69	10.14	-48
234	1	67,449	1	8.46	10.28	10.74	9.86	8.51	7.45	5.75	4.36	3.67	10.17	-48
Center Deflection Normalized to 9 kPSF = 11.178														
GPS: Quality : DGPS Fix Longitude = 120°26:23:W PDOP = 3.52														
GPS: State : Plane Coordinates:														
Note: 6S-5														
235	1	67,400	1	8.44	15.79	13.63	12.31	10.43	9.01	6.51	4.52	3.49	12.55	-48.3
235	1	67,400	1	8.47	15.14	13.33	12.1	10.28	8.91	6.49	4.53	3.52	12.37	-48.3
Center Deflection Normalized to 9 kPSF = 16.462														
GPS: Quality : DGPS Fix Longitude = 120°26:23:W PDOP = 3.505														
GPS: State : Plane Coordinates:														
Note: 6S-5														
235	1	67,400	1	8.455	15.465	13.460	12.205	10.355	8.960	6.500	4.525	3.505	12.460	-48.300

235	1	67.400	1	8.42	15.02	13.21	12	10.21	8.65	6.47	4.53	3.49	12.27	-48.3
GPS:	Quality		DGPS	Fix	Latitude =			Longitude =					PDOP =	
GPS:	State		Coordinates:											
GPS:	6S-6													
Note:	236	1	67.352	1	8.22	26.36	19.26	16.63	13.22	11.3	7.88	5.47	4.37	18.5
Center Deflection Normalized to 9 GPS =	28.861		8.220	26.360	19.260	16.630	13.220	11.300	7.880	5.470	4.370	4.370	4.370	18.500
GPS:	Quality		8.09	26.45	18.71	16.22	12.92	11.1	7.73	5.38	4.22	4.22	4.22	17.91
GPS:	State		8.31	27.05	19.1	16.56	13.18	11.32	7.89	5.49	4.26	4.26	4.26	18.26
GPS:	6S-6													
Note:	237	1	67.299	1	8.53	12.16	11.05	9.91	8.37	7.23	5.27	2.88	10.37	-47.6
Center Deflection Normalized to 9 GPS =			8.5	11.62	10.6	9.53	8.07	6.98	5.14	3.68	2.86	2.86	2.86	9.89
GPS:	Quality		8.5	11.43	10.51	9.46	8.03	6.94	5.12	3.69	2.87	2.87	2.87	9.81
GPS:	State													
GPS:	6S-7													
Note:	237	1	67.299	1	8.53	12.16	11.05	9.91	8.37	7.23	5.27	2.88	10.37	-47.6
Center Deflection Normalized to 9 GPS =			8.5	11.62	10.6	9.53	8.07	6.98	5.14	3.68	2.86	2.86	2.86	9.89
GPS:	Quality		8.5	11.43	10.51	9.46	8.03	6.94	5.12	3.69	2.87	2.87	2.87	9.81
GPS:	State													
GPS:	6S-7													
Note:	238	1	67.249	1	8.500	11.430	10.510	9.460	8.030	6.940	5.120	3.690	2.870	9.810
Center Deflection Normalized to 9 GPS =	12.102		8.500	11.430	10.510	9.460	8.030	6.940	5.120	3.690	2.870	2.870	2.870	9.810
GPS:	Quality		8.46	16.51	14.07	12.62	10.51	8.97	6.34	4.52	3.49	3.49	3.49	12.95
GPS:	State		8.4	15.69	13.55	12.18	10.22	8.77	6.27	4.46	3.44	3.44	3.44	12.48
GPS:	6S-8		8.41	15.45	13.44	12.09	10.14	8.7	6.24	4.45	3.47	3.47	3.47	12.36
Note:	238	1	67.249	1	8.41	15.45	13.44	12.09	10.14	8.7	6.24	4.45	3.47	12.36
Center Deflection Normalized to 9 GPS =			8.41	15.45	13.44	12.09	10.14	8.7	6.24	4.45	3.47	3.47	3.47	12.36
GPS:	Quality		8.41	15.45	13.44	12.09	10.14	8.7	6.24	4.45	3.47	3.47	3.47	12.36
GPS:	State													
GPS:	6S-8													
Note:	239	1	67.201	1	8.405	15.570	13.495	12.135	10.180	8.735	6.255	4.455	3.455	12.420
Center Deflection Normalized to 9 GPS =	16.872		8.405	15.570	13.495	12.135	10.180	8.735	6.255	4.455	3.455	3.455	3.455	12.420
GPS:	Quality		8.48	18.15	15.56	13.94	11.54	9.79	6.84	4.79	3.74	3.74	3.74	14.5
GPS:	State		8.47	17.29	14.83	13.46	11.21	9.55	6.72	4.7	3.72	3.72	3.72	14.01
GPS:	6S-9		8.3	16.74	14.64	13.18	11	9.35	6.58	4.7	3.66	3.66	3.66	13.77
Note:	239	1	67.201	1	8.3	16.74	14.64	13.18	11	9.35	6.58	4.7	3.66	13.77
Center Deflection Normalized to 9 GPS =	18.689		8.417	17.393	15.043	13.627	11.250	9.563	6.713	4.730	3.707	3.707	3.707	14.093
GPS:	Quality		8.417	17.393	15.043	13.627	11.250	9.563	6.713	4.730	3.707	3.707	3.707	14.093
GPS:	State													
GPS:	6S-9													
Note:	240	1	67.150	1	8.29	20.4	12.62	11.38	9.59	8.28	5.92	4.23	3.36	12.67
Center Deflection Normalized to 9 GPS =	22.418		8.23	20.75	12.38	11.2	9.47	8.19	5.87	4.18	3.36	3.36	3.36	12.42
GPS:	Quality		8.23	20.75	12.38	11.2	9.47	8.19	5.87	4.18	3.36	3.36	3.36	12.42
GPS:	State													
GPS:	6S-10													
Note:	240	1	67.150	1	8.24	21.14	12.5	11.3	9.56	8.25	5.94	4.22	3.53	12.52
Center Deflection Normalized to 9 GPS =			8.24	21.14	12.5	11.3	9.56	8.25	5.94	4.22	3.53	3.53	3.53	12.52
GPS:	Quality		8.24	21.14	12.5	11.3	9.56	8.25	5.94	4.22	3.53	3.53	3.53	12.52
GPS:	State													
GPS:	6S-10													
Note:	241	1	67.101	1	8.36	14.51	11.95	10.91	8.83	7.65	5.41	3.87	3.11	11.75
Center Deflection Normalized to 9 GPS =	15.621		8.360	14.510	11.950	10.910	8.830	7.650	5.410	3.870	3.110	3.110	3.110	11.750
GPS:	Quality		8.35	14.22	11.71	10.7	8.7	7.54	5.33	3.85	3.13	3.13	3.13	11.45
GPS:	State		8.24	14.12	11.68	10.58	8.6	7.46	5.28	3.83	3.1	3.1	3.1	11.32
GPS:	6S-11													
Note:	241	1	67.101	1	8.24	14.12	11.68	10.58	8.6	7.46	5.28	3.83	3.1	11.32
Center Deflection Normalized to 9 GPS =			8.24	14.12	11.68	10.58	8.6	7.46	5.28	3.83	3.1	3.1	3.1	11.32
GPS:	Quality		8.24	14.12	11.68	10.58	8.6	7.46	5.28	3.83	3.1	3.1	3.1	11.32
GPS:	State													
GPS:	6S-11													

GPS:	State	Plane	Coordinates:	#DIV/0!														
Note: Center Deflection Normalized to 9 MPRS =																		
242	6S-12	67.047	1	8.17	18.7	15.01	13.18	10.51	8.54	5.86	4	3.11	14.28	-48.3				
242	6S-12	67.047	1	8.14	17.89	14.48	12.78	10.25	8.34	5.78	3.93	3.15	13.8	-48.3				
242	6S-12	67.047	1	8.15	17.27	14.41	12.69	10.19	8.33	5.73	3.91	3.14	13.69	-48.3				
GPS: Quality : DGPS Fix Latitude = 36°49.1161'N Longitude = 120°26.04'W PDOP =																		
GPS: State : Plane : Coordinates: 19.071																		
Note: Center Deflection Normalized to 9 MPRS =																		
243	6S-13	67.000	1	8.58	15.69	14.58	12.94	10.53	8.87	6.23	4.2	3.19	12.49	-48				
243	6S-13	67.000	1	8.56	15.2	14.09	12.56	10.29	8.67	6.12	4.16	3.09	12.17	-48				
243	6S-13	67.000	1	8.56	15.08	14.04	12.52	10.26	8.65	6.11	4.18	3.1	12.09	-48				
GPS: Quality : DGPS Fix Latitude = 36°49.083'N Longitude = 120°26.01'W PDOP =																		
GPS: State : Plane : Coordinates: 15.918																		
Note: Center Deflection Normalized to 9 MPRS =																		
244	6S-14	66.951	1	8.24	21.11	14.64	13.17	10.6	9.08	6.54	4.86	3.93	15.27	-48				
244	6S-14	66.951	1	8.06	18.99	14.05	12.67	10.25	8.78	6.37	4.75	3.72	14.66	-48				
244	6S-14	66.951	1	8.25	23.9	14.32	12.9	10.43	8.94	6.5	4.83	3.96	14.88	-48				
GPS: Quality : DGPS Fix Latitude = 36°49.047'N Longitude = 120°25.98'W PDOP =																		
GPS: State : Plane : Coordinates: 21.202																		
Note: Center Deflection Normalized to 9 MPRS =																		
245	6S-15	66.900	1	8.4	20.24	16.82	14.72	11.77	9.65	6.52	4.49	3.47	15.52	-48				
245	6S-15	66.900	1	8.41	19.36	16.31	14.32	11.53	9.44	6.42	4.47	3.47	15.09	-48				
GPS: Quality : DGPS Fix Latitude = 36°49.011'N Longitude = 120°25.95'W PDOP =																		
GPS: State : Plane : Coordinates: 17.356																		
Note: Center Deflection Normalized to 9 MPRS =																		
246	6S-16	66.849	1	8.53	16.45	14.34	12.79	10.61	8.99	6.46	4.68	3.7	13.37	-48.3				
246	6S-16	66.849	1	8.53	16.45	14.34	12.79	10.61	8.99	6.46	4.68	3.7	13.37	-48.3				
246	6S-16	66.849	1	8.54	16.12	14.05	12.58	10.49	8.89	6.42	4.68	3.69	13.13	-48.3				
246	6S-16	66.849	1	8.31	15.5	13.74	12.29	10.23	8.67	6.24	4.56	3.6	12.77	-48.3				
GPS: Quality : DGPS Fix Latitude = 36°48.974'N Longitude = 120°25.92'W PDOP =																		
GPS: State : Plane : Coordinates: 17.183																		
Note: Center Deflection Normalized to 9 MPRS =																		
247	6S-17	66.801	1	8.5	16.91	14.44	12.77	10.55	8.84	6.15	4.28	3.82	13.2	-48.3				
247	6S-17	66.801	1	8.47	16.19	14.25	12.66	10.51	8.79	6.16	4.31	3.07	13.09	-48.3				
247	6S-17	66.801	1	8.37	15.98	14.06	12.49	10.39	8.69	6.09	4.27	3.14	12.9	-48.3				
GPS: Quality : DGPS Fix Latitude = 36°48.940'N Longitude = 120°25.89'W PDOP =																		
GPS: State : Plane : Coordinates: 17.183																		

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254	1	68.099	1	8.48	15.27	14.19	12.83	10.86	9.31	6.63	4.39	3.34	12.9	-47.6
254	1	68.099	1	8.61	15.16	14.19	12.82	10.91	9.35	6.7	4.42	3.37	12.88	-47.6
Center Deflection Normalized to 3 KIPS = 18.264														
GPS:		Quality	Fix	Latitude = 36°43.678'N Longitude = 120°26.671'W PDOP = 1.7										
GPS:		State	Plane	Coordinates:										
Note:		7N-4												
255	1	68.150	1	8.53	14.69	13.74	12.5	9.95	8.29	5.98	4.2	3.22	12.55	-48
255	1	68.150	1	8.51	14.25	13.29	12.13	9.79	8.18	5.94	4.25	3.18	12.12	-48
Center Deflection Normalized to 3 KIPS = 15.285														
GPS:		Quality	Fix	Latitude = 36°43.917'N Longitude = 120°26.70'W PDOP = 1.7										
GPS:		State	Plane	Coordinates:										
Note:		7N-5												
256	1	68.200	1	8.56	15.95	12.52	10.87	8.55	7.19	5	3.55	2.8	12.09	-48
Center Deflection Normalized to 3 KIPS = 16.770														
256	1	68.200	1	8.39	14.92	11.85	10.36	8.16	6.9	4.89	3.49	2.72	11.39	-48
256	1	68.200	1	8.29	14.69	11.63	10.18	8.03	6.79	4.82	3.45	2.75	11.12	-48
Center Deflection Normalized to 3 KIPS = 15.285														
GPS:		Quality	Fix	Latitude = 36°49.956'N Longitude = 120°26.72'W PDOP = 1.7										
GPS:		State	Plane	Coordinates:										
Note:		7N-6												
257	1	68.250	1	8.35	15.55	12.96	11.56	9.59	8.07	5.5	3.72	2.89	12.45	-48.3
257	1	68.250	1	8.36	14.9	12.47	11.19	8.35	7.89	5.49	3.71	2.79	11.9	-48.3
257	1	68.250	1	8.35	14.35	12.31	11.05	9.27	7.85	5.39	3.65	2.77	11.74	-48.3
Center Deflection Normalized to 3 KIPS = 15.487														
GPS:		Quality	Fix	Latitude = 36°49.999'N Longitude = 120°26.74'W PDOP = 1.7										
GPS:		State	Plane	Coordinates:										
Note:		7N-7												
258	1	68.301	1	8.58	14.28	13.12	11.71	9.71	8.18	5.49	3.56	2.67	11.68	-48.3
258	1	68.301	1	8.64	13.44	12.62	11.29	9.46	7.99	5.44	3.58	2.64	11.23	-48.3
258	1	68.301	1	8.48	13.02	12.27	11	9.22	7.81	5.34	3.52	2.64	10.92	-48.3
Center Deflection Normalized to 3 KIPS = 13.910														
GPS:		Quality	Fix	Latitude = 36°50.037'N Longitude = 120°26.76'W PDOP = 1.7										
GPS:		State	Plane	Coordinates:										
Note:		7N-8												
259	1	68.350	1	8.47	13.3	11.55	10.36	8.67	7.32	5.17	3.63	2.79	10.68	-48
259	1	68.350	1	8.52	12.49	11.02	9.92	8.37	7.12	5.1	3.63	2.8	10.2	-48
259	1	68.350	1	8.52	12.5	10.89	9.83	8.32	7.08	5.1	3.63	2.69	10.07	-48
Center Deflection Normalized to 3 KIPS = 13.699														
GPS:		Quality	Fix	Latitude = 36°50.076'N Longitude = 120°26.78'W PDOP = 1.7										
GPS:		State	Plane	Coordinates:										
Note:		7N-9												
260	1	68.398	1	8.52	12.63	12.08	11.03	9.36	8.08	5.76	4.06	2.91	11.73	-48
260	1	68.398	1	8.4	10.93	11.37	10.39	8.89	7.67	5.56	3.89	2.9	11.05	-48
Center Deflection Normalized to 3 KIPS = 12.479														
GPS:		Quality	Fix	Latitude = 36°50.076'N Longitude = 120°26.78'W PDOP = 1.7										
GPS:		State	Plane	Coordinates:										
Note:		7N-9												

260	Quality	1	68.398	1	DGPS	Fix	8.34	9.93	11.18	10.25	8.77	7.61	5.5	3.87	2.95	10.86	=	-48	
GPS:		State																	
GPS:		Coordinates:																	
Note:		7N-10																	
261	Quality	1	68.451	1	DGPS	Fix	8.41	12.2	10.45	9.32	7.74	6.59	4.65	3.06	2.37	9.86	=	-47.6	
GPS:		State																	
GPS:		Coordinates:																	
Note:		7N-11																	
Center Deflection Normalized to 3 GPS =		13.055	8.410	12.200	10.450	9.320	7.740	6.590	4.650	3.060	2.370	9.860	2.370	3.060	2.370	9.860	-47.600		
261	Quality	1	68.451	1	DGPS	Fix	8.48	11.28	10.06	9.02	7.55	6.46	4.58	3.07	2.38	9.53	=	-47.6	
GPS:		State																	
GPS:		Coordinates:																	
Note:		7N-11																	
Center Deflection Normalized to 3 GPS =		14.157	8.47	11.41	9.91	8.89	7.47	6.39	4.56	3.05	2.33	9.37	2.33	3.05	2.33	9.37	-47.6		
262	Quality	1	68.502	1	DGPS	Fix	8.45	13.23	11.38	9.9	7.9	6.4	4.15	2.73	2.27	10.42	=	-47.6	
GPS:		State																	
GPS:		Coordinates:																	
Note:		7N-11																	
Center Deflection Normalized to 3 GPS =		14.157	8.45	13.23	11.38	9.9	7.9	6.4	4.15	2.73	2.27	10.42	2.73	2.27	10.42	2.27	10.42	-47.6	
262	Quality	1	68.502	1	DGPS	Fix	8.36	13.15	11.15	9.72	7.78	6.32	4.07	2.74	2.14	10.16	=	-47.6	
GPS:		State																	
GPS:		Coordinates:																	
Note:		7N-11																	
Center Deflection Normalized to 3 GPS =		14.157	8.36	13.15	11.15	9.72	7.78	6.32	4.07	2.74	2.14	10.16	2.74	2.14	10.16	2.14	10.16	-47.6	
263	Quality	1	68.600	1	DGPS	Fix	8.35	18.39	10.46	9.15	6.98	5.49	3.45	2.3	1.96	10.85	=	-48	
GPS:		State																	
GPS:		Coordinates:																	
Note:		7N-12																	
Center Deflection Normalized to 3 GPS =		14.157	8.35	18.39	10.46	9.15	6.98	5.49	3.45	2.3	1.96	10.85	2.3	1.96	10.85	1.96	10.85	-48	
263	Quality	1	68.600	1	DGPS	Fix	8.35	15.16	9.95	8.78	6.74	5.36	3.4	2.29	1.97	10.3	=	-48	
GPS:		State																	
GPS:		Coordinates:																	
Note:		7N-13																	
Center Deflection Normalized to 3 GPS =		14.157	8.35	15.16	9.95	8.78	6.74	5.36	3.4	2.29	1.97	10.3	2.29	1.97	10.3	1.97	10.3	-48	
264	Quality	1	68.650	1	DGPS	Fix	8.45	14.7	9.91	8.78	6.76	5.4	3.44	2.39	1.99	10.25	=	-48	
GPS:		State																	
GPS:		Coordinates:																	
Note:		7N-13																	
Center Deflection Normalized to 3 GPS =		14.157	8.45	14.7	9.91	8.78	6.76	5.4	3.44	2.39	1.99	10.25	2.39	1.99	10.25	1.99	10.25	-48	
264	Quality	1	68.650	1	DGPS	Fix	8.400	14.930	9.930	8.780	6.750	5.380	3.420	2.340	1.980	10.275	=	-48.000	
GPS:		State																	
GPS:		Coordinates:																	
Note:		7N-13																	
Center Deflection Normalized to 3 GPS =		14.157	8.400	14.930	9.930	8.780	6.750	5.380	3.420	2.340	1.980	10.275	2.340	1.980	10.275	1.980	10.275	-48.000	
264	Quality	1	68.650	1	DGPS	Fix	8.51	10.88	9.11	8.25	6.94	5.64	3.92	2.63	2.08	8.97	=	-48	
GPS:		State																	
GPS:		Coordinates:																	
Note:		7N-13																	
Center Deflection Normalized to 3 GPS =		14.157	8.51	10.88	9.11	8.25	6.94	5.64	3.92	2.63	2.08	8.97	2.63	2.08	8.97	2.08	8.97	-48	
264	Quality	1	68.650	1	DGPS	Fix	8.47	10.17	8.61	7.84	6.62	5.42	3.78	2.59	2.02	8.41	=	-48	
GPS:		State																	
GPS:		Coordinates:																	
Note:		7N-14																	
Center Deflection Normalized to 3 GPS =		14.157	8.47	10.17	8.61	7.84	6.62	5.42	3.78	2.59	2.02	8.41	2.59	2.02	8.41	2.02	8.41	-48	
264	Quality	1	68.650	1	DGPS	Fix	8.58	9.61	8.57	7.8	6.61	5.44	3.82	2.58	2.09	8.35	=	-48	
GPS:		State																	
GPS:		Coordinates:																	
Note:		7N-14																	
Center Deflection Normalized to 3 GPS =		14.157	8.58	9.61	8.57	7.8	6.61	5.44	3.82	2.58	2.09	8.35	2.58	2.09	8.35	2.09	8.35	-48	
265	Quality	1	68.701	1	DGPS	Fix	8.520	10.220	8.763	7.953	6.723	5.500	3.840	2.600	2.063	8.577	=	-48.000	
GPS:		State																	
GPS:		Coordinates:																	
Note:		7N-14																	
Center Deflection Normalized to 3 GPS =		14.157	8.520	10.220	8.763	7.953	6.723	5.500	3.840	2.600	2.063	8.577	2.600	2.063	8.577	2.063	8.577	-48.000	
265	Quality	1	68.701	1	DGPS	Fix	8.42	9.72	7.69	6.77	5.48	4.46	2.74	1.94	1.68	6.8	=	-47.6	
GPS:		State																	
GPS:		Coordinates:																	
Note:		7N-14																	
Center Deflection Normalized to 3 GPS =		14.157	8.42	9.72	7.69	6.77	5.48	4.46	2.74	1.94	1.68	6.8	2.74	1.94	1.68	6.8	1.68	6.8	-47.6
265	Quality	1	68.701	1	DGPS	Fix	8.44	9.26	7.44	6.58	5.36	4.38	2.74	1.97	1.7	6.59	=	-47.6	
GPS:		State																	
GPS:		Coordinates:																	
Note:		7N-15																	
Center Deflection Normalized to 3 GPS =		14.157	8.44	9.26	7.44	6.58	5.36	4.38	2.74	1.97	1.7	6.59	2.74	1.97	1.7	6.59	1.7	6.59	-47.6
265	Quality	1	68.701	1	DGPS	Fix	8.48	9.14	7.33	6.55	5.36	4.4	2.76	1.95	1.71	6.59	=	-47.6	
GPS:		State																	
GPS:		Coordinates:																	
Note:		7N-15																	
Center Deflection Normalized to 3 GPS =		14.157	8.48	9.14	7.33	6.55	5.36	4.4	2.76	1.95	1.71	6.59	2.76	1.95	1.71	6.59	1.71	6.59	-47.6
266	Quality	1	68.750	1	DGPS	Fix	8.45	11.96	9.77	8.72	7.12	5.74	3.79	2.64	2.14	9.04	=	-48	
GPS:		State																	
GPS:		Coordinates:																	
Note:		7N-15																	
Center Deflection Normalized to 3 GPS =		14.157	8.45	11.96	9.77	8.72	7.12	5.74	3.79	2.64	2.14	9.04	3.79	2.64	2.14	9.04	2.14	9.04	-48
266	Quality	1	68.750	1	DGPS	Fix	8.400	11.960	9.770	8.720	7.120	5.740	3.790	2.640	2.140	9.040	=	-48.000	
GPS:		State																	
GPS:		Coordinates:																	
Note:		7N-15																	
Center Deflection Normalized to 3 GPS =		14.157	8.400	11.960	9.770	8.720	7.120	5.740	3.790	2.640	2.140	9.040	3.790	2.640	2.140	9.040	2.140	9.040	-48.000
266	Quality	1	68.750	1	DGPS	Fix	8.4	11.21	9.23	8.28	6.81	5.52	3.68	2.61	2.17	8.6	=	-48	
GPS:		State																	
GPS:		Coordinates:																	
Note:		7N-15																	
Center Deflection Normalized to 3 GPS =		14.157	8.4	11.21	9.23	8.28	6.81	5.52	3.68	2.61	2.17	8.6	2.61	2.17	8.6	2.17	8.6	-48	
266	Quality	1	68.750	1	DGPS	Fix	8.33	10.84	9.06	8.15	6.72	5.45	3.66	2.58	2.15	8.44	=	-48	
GPS:		State																	
GPS:		Coordinates:																	
Note:		7N-15																	
Center Deflection Normalized to 3 GPS =		14.157	8.33	10.84	9.06	8.15	6.72	5.45	3.66	2.58	2.15	8.44	3.66	2.58	2.15	8.44	2.15	8.44	-48

GPS:	State	Plane	Coordinates:	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Note:	7N-16																		
Center Deflection Normalized to 9 KIPS =																			
267	1	68.800	1	8.44	11.77	9.91	8.89	7.32	5.96	3.66	2.39	1.9	9.48	1.9	9.48	1.9	9.48	1.9	9.48
267	1	68.800	1	8.4	11.05	9.52	8.55	7.1	5.8	3.62	2.4	1.87	9.04	2.4	1.87	2.4	1.87	2.4	1.87
267	1	68.800	1	8.5	11.1	9.51	8.56	7.14	5.86	3.85	2.45	1.95	9.03	2.45	1.95	2.45	1.95	2.45	1.95
GPS:	Quality	:	Fix	Latitude = 36°50.437' N Longitude = 120°26.917' W PDOP =															
GPS:	State	Plane	Coordinates:																
Center Deflection Normalized to 9 KIPS =																			
Note:	7N-17			8.500	11.100	9.510	8.560	7.140	5.860	3.650	2.450	1.950	9.030	2.450	1.950	2.450	1.950	2.450	1.950
268	1	68.851	1	8.14	15.51	11.25	9.79	7.66	6.11	4.07	3.01	2.49	9.91	3.01	2.49	3.01	2.49	3.01	2.49
268	1	68.851	1	8.25	20.15	10.86	9.48	7.55	6.06	4.1	3.1	2.18	9.67	3.1	2.18	3.1	2.18	3.1	2.18
268	1	68.851	1	8.15	15.98	10.59	9.28	7.4	5.94	4.04	3.09	2.25	9.45	3.09	2.25	3.09	2.25	3.09	2.25
GPS:	Quality	:	Fix	Latitude = 36°50.480' N Longitude = 120°26.921' W PDOP =															
GPS:	State	Plane	Coordinates:																
Center Deflection Normalized to 9 KIPS =																			
Note:	7N-18			8.200	18.065	10.725	9.380	7.475	6.000	4.070	3.095	2.215	9.560	3.095	2.215	3.095	2.215	3.095	2.215
269	1	68.902	1	8.35	16.39	12.53	10.83	8.4	6.64	4.03	2.88	2.38	10.08	2.88	2.38	2.88	2.38	2.88	2.38
269	1	68.902	1	8.45	16.19	12.01	10.42	8.18	6.52	4.03	2.92	2.37	9.77	2.92	2.37	2.92	2.37	2.92	2.37
269	1	68.902	1	8.39	15.87	11.83	10.28	8.09	6.46	4.01	2.9	2.39	9.65	2.9	2.39	2.9	2.39	2.9	2.39
GPS:	Quality	:	Fix	Latitude = 36°50.480' N Longitude = 120°26.921' W PDOP =															
GPS:	State	Plane	Coordinates:																
Center Deflection Normalized to 9 KIPS =																			
Note:	7N-19			8.397	16.150	12.123	10.510	8.223	6.540	4.023	2.900	2.380	9.833	2.900	2.380	2.900	2.380	2.900	2.380
270	1	68.950	1	8.51	10.24	8.22	7.44	6.25	5.31	3.73	2.63	2.17	8.4	2.63	2.17	2.63	2.17	2.63	2.17
270	1	68.950	1	8.52	10.56	7.94	7.2	6.07	5.18	3.68	2.62	2.19	8.17	2.62	2.19	2.62	2.19	2.62	2.19
270	1	68.950	1	8.47	9.7	7.76	7.05	5.95	5.09	3.63	2.6	2.2	8.01	2.6	2.2	2.6	2.2	2.6	2.2
GPS:	Quality	:	Fix	Latitude = 36°50.524' N Longitude = 120°26.941' W PDOP =															
GPS:	State	Plane	Coordinates:																
Center Deflection Normalized to 9 KIPS =																			
Note:	7N-20			8.35	9.68	9.41	8.48	7.09	5.99	4.13	2.8	2.34	9.07	4.13	2.8	2.34	4.13	2.8	2.34
271	1	69.000	1	8.350	9.680	9.410	8.480	7.090	5.990	4.130	2.800	2.340	9.070	4.130	2.800	2.340	4.130	2.800	2.340
271	1	69.000	1	8.53	9.4	9.23	8.35	7.02	5.93	4.16	2.85	2.39	8.88	2.85	2.39	2.85	2.39	2.85	2.39
271	1	69.000	1	8.44	9.2	9.05	8.2	6.9	5.83	4.09	2.83	2.37	8.71	2.83	2.37	2.83	2.37	2.83	2.37
GPS:	Quality	:	Fix	Latitude = 36°50.607' N Longitude = 120°26.961' W PDOP =															
GPS:	State	Plane	Coordinates:																
Center Deflection Normalized to 9 KIPS =																			
Note:	7N-21			8.61	10.25	8.67	7.86	6.69	5.79	4.22	2.92	2.43	8.33	2.92	2.43	2.92	2.43	2.92	2.43
272	1	69.000	1	8.54	9.82	8.22	7.47	6.39	5.56	4.06	2.87	2.37	7.93	2.87	2.37	2.87	2.37	2.87	2.37
272	1	69.000	1	8.5	9.74	8.11	7.41	6.34	5.53	4.06	2.85	2.33	7.85	2.85	2.33	2.85	2.33	2.85	2.33
GPS:	Quality	:	Fix	Latitude = 36°50.606' N Longitude = 120°26.961' W PDOP =															
GPS:	State	Plane	Coordinates:																
Center Deflection Normalized to 9 KIPS =																			
Note:	7N-21			8.500	9.740	8.110	7.410	6.340	5.530	4.060	2.850	2.330	7.850	4.060	2.850	2.330	4.060	2.850	2.330



279	1	68.652	1	8.44	9.87	8.41	7.41	6.07	4.96	3.29	2.29	1.83	8.06	-47.6
279	1	68.652	1	8.4	9.55	8.3	7.32	6	4.92	3.27	2.22	1.8	7.93	-47.6
Center Deflection Normalized to 9 KPS = 10.690														
GPS: State DGPS Fix Latitude = 36°50.3104'N Longitude = 120°26.88'W PDOP = 1.9														
Coordinates:														
Note: 7S-8														
280	1	68.600	1	8.39	11.27	10.33	9.11	7.39	6.07	4.02	2.57	2.1	9.61	-49.8
280	1	68.600	1	8.47	10.52	9.74	8.63	7.05	5.85	3.95	2.57	2.07	9.12	-49.8
Center Deflection Normalized to 9 KPS = 11.632														
GPS: State DGPS Fix Latitude = 36°50.267'N Longitude = 120°26.861'W PDOP = 1.9														
Coordinates:														
Note: 7S-9														
281	1	68.551	1	8.53	10.48	9.38	8.38	6.86	5.61	3.68	2.43	1.95	8.52	-49.8
Center Deflection Normalized to 9 KPS = 11.067														
281	1	68.551	1	8.65	9.67	9.01	8.09	6.67	5.49	3.64	2.43	1.98	8.2	-49.8
281	1	68.551	1	8.72	9.57	8.95	8.03	6.64	5.49	3.65	2.44	1.96	8.13	-49.8
Center Deflection Normalized to 9 KPS = 11.155														
GPS: State DGPS Fix Latitude = 36°50.226'N Longitude = 120°26.861'W PDOP = 1.9														
Coordinates:														
Note: 7S-10														
282	1	68.501	1	8.48	11.31	9.72	8.45	6.42	5.25	3.53	2.4	2.03	8.81	-49.8
282	1	68.501	1	8.67	10.93	9.41	8.21	6.34	5.2	3.55	2.46	2.05	8.5	-49.8
282	1	68.501	1	8.56	10.61	9.15	7.99	6.17	5.08	3.49	2.43	2.02	8.26	-49.8
Center Deflection Normalized to 9 KPS = 11.155														
GPS: State DGPS Fix Latitude = 36°50.184'N Longitude = 120°26.831'W PDOP = 1.9														
Coordinates:														
Note: 7S-11														
283	1	68.451	1	8.56	7.5	6.61	5.96	5.03	4.3	3.13	2.29	2.04	6.17	-49.8
283	1	68.451	1	8.68	7.02	6.52	5.88	4.99	4.3	3.15	2.36	2.07	6.11	-49.8
283	1	68.451	1	8.68	6.72	6.47	5.87	4.97	4.29	3.14	2.35	2.1	6.07	-49.8
Center Deflection Normalized to 9 KPS = 11.155														
GPS: State DGPS Fix Latitude = 36°50.142'N Longitude = 120°26.821'W PDOP = 1.9														
Coordinates:														
Note: 7S-12														
284	1	68.399	1	8.81	8.89	8.45	7.56	6.1	5.11	3.79	2.81	2.34	7.69	-49.4
284	1	68.399	1	8.72	8.69	8.2	7.37	6	5.03	3.77	2.83	2.33	7.48	-49.4
284	1	68.399	1	8.63	8.48	8.07	7.29	5.92	4.97	3.72	2.82	2.31	7.33	-49.4
Center Deflection Normalized to 9 KPS = 8.866														
GPS: State DGPS Fix Latitude = 36°50.098'N Longitude = 120°26.801'W PDOP = 1.9														
Coordinates:														
Note: 7S-13														
285	1	68.350	1	8.46	9.25	8.03	7.29	6.29	5.52	4.13	3.21	2.52	7.67	-49.8
285	1	68.350	1	8.42	8.25	7.83	7.14	6.16	5.43	4.13	3.17	2.6	7.48	-49.8
Center Deflection Normalized to 9 KPS = 9.331														
GPS: State DGPS Fix Latitude = 36°50.098'N Longitude = 120°26.801'W PDOP = 1.9														
Coordinates:														

285	1	68.350	1	8.35	7.94	7.73	7.04	6.12	5.4	4.09	3.11	2.73	7.31	-49.8
GPS:	Quality	DGPS	Fix	Longitude =										
GPS:	State	Coordinates:												
Note:	7S-14	Latitude = 120°26'76"W												
286	1	68.301	1	8.59	8.83	8.41	7.65	6.58	5.74	4.34	3.18	2.77	7.94	-50.2
Center Deflection Normalized to 3 KIPS =	8.590	8.830	8.410	7.650	6.580	5.740	4.340	3.180	2.770	7.940	-50.200			
286	1	68.301	1	8.61	8.47	8.3	7.54	6.53	5.7	4.36	3.17	2.76	7.8	-50.2
GPS:	Quality	DGPS	Fix	Longitude =										
GPS:	State	Coordinates:												
Note:	7S-15	Latitude = 120°26'76"W												
287	1	68.251	1	8.5	7.4	7.52	6.87	5.95	5.21	3.99	3.05	2.54	7.37	-46.5
Center Deflection Normalized to 3 KIPS =	8.5	7.4	7.52	6.87	5.95	5.21	3.99	3.05	2.54	7.37	-46.5			
287	1	68.251	1	8.47	6.9	7.4	6.76	5.88	5.17	3.97	3.06	2.53	7.24	-46.5
GPS:	Quality	DGPS	Fix	Longitude =										
GPS:	State	Coordinates:												
Note:	7S-16	Latitude = 120°26'74"W												
287	1	68.251	1	8.44	7.01	7.35	6.75	5.88	5.17	3.95	3.09	2.48	7.17	-46.5
Center Deflection Normalized to 3 KIPS =	8.440	7.010	7.350	6.750	5.880	5.170	3.950	3.090	2.480	7.170	-46.500			
288	1	68.201	1	8.5	7.94	8.04	7.42	6.49	5.76	4.42	3.21	2.61	7.75	-49.4
Center Deflection Normalized to 3 KIPS =	8.5	7.94	8.04	7.42	6.49	5.76	4.42	3.21	2.61	7.75	-49.4			
288	1	68.201	1	8.54	8.31	8.12	7.51	6.6	5.84	4.49	3.32	2.69	7.81	-49.4
GPS:	Quality	DGPS	Fix	Longitude =										
GPS:	State	Coordinates:												
Note:	7S-17	Latitude = 120°26'71"W												
288	1	68.201	1	8.53	8.06	7.98	7.38	6.5	5.76	4.42	3.28	2.68	7.66	-49.4
Center Deflection Normalized to 3 KIPS =	8.530	8.060	7.980	7.380	6.500	5.760	4.420	3.280	2.680	7.660	-49.400			
289	1	68.152	1	8.47	8.73	8.13	7.43	6.52	5.79	4.5	3.33	2.73	7.69	-49.8
Center Deflection Normalized to 3 KIPS =	8.443	8.787	8.173	7.460	6.520	5.800	4.500	3.323	2.727	7.750	-49.800			
289	1	68.152	1	8.42	8.92	8.24	7.49	6.53	5.82	4.51	3.33	2.71	7.83	-49.8
GPS:	Quality	DGPS	Fix	Longitude =										
GPS:	State	Coordinates:												
Note:	7S-18	Latitude = 120°26'69"W												
289	1	68.152	1	8.44	8.71	8.15	7.43	6.51	5.79	4.49	3.31	2.74	7.73	-49.8
Center Deflection Normalized to 3 KIPS =	8.443	8.787	8.173	7.460	6.520	5.800	4.500	3.323	2.727	7.750	-49.800			
290	1	68.100	1	8.52	8.41	7.86	7.05	6.29	5.69	4.5	3.42	2.87	7.37	-49.8
Center Deflection Normalized to 3 KIPS =	8.595	8.495	7.665	7.160	6.375	5.755	4.535	3.440	2.875	7.495	-49.800			
290	1	68.100	1	8.59	8.53	7.57	7.07	6.32	5.72	4.51	3.42	2.91	7.38	-49.8
Center Deflection Normalized to 3 KIPS =	8.595	8.495	7.665	7.160	6.375	5.755	4.535	3.440	2.875	7.495	-49.800			
291	1	68.049	1	8.42	9.34	9.02	8.23	7.12	6.23	4.72	3.41	2.77	8.45	-49.4
Center Deflection Normalized to 3 KIPS =	8.420	9.340	9.020	8.230	7.120	6.230	4.720	3.410	2.770	8.450	-49.400			
291	1	68.049	1	8.51	9.19	9.05	8.27	7.18	6.3	4.78	3.44	2.79	8.46	-49.4
Center Deflection Normalized to 3 KIPS =	8.510	9.190	9.050	8.270	7.180	6.300	4.780	3.440	2.790	8.460	-49.400			
291	1	68.049	1	8.58	9.23	9.03	8.27	7.18	6.3	4.8	3.45	2.79	8.42	-49.4
Center Deflection Normalized to 3 KIPS =	8.580	9.230	9.030	8.270	7.180	6.300	4.800	3.450	2.790	8.420	-49.400			
291	1	68.049	1	8.42	9.34	9.02	8.23	7.12	6.23	4.72	3.41	2.77	8.45	-49.4
Center Deflection Normalized to 3 KIPS =	8.420	9.340	9.020	8.230	7.120	6.230	4.720	3.410	2.770	8.450	-49.400			
291	1	68.049	1	8.58	9.23	9.03	8.27	7.18	6.3	4.8	3.45	2.79	8.42	-49.4
Center Deflection Normalized to 3 KIPS =	8.580	9.230	9.030	8.270	7.180	6.300	4.800	3.450	2.790	8.420	-49.400			
GPS:	Quality	DGPS	Fix	Longitude =										
GPS:	State	Coordinates:												
Note:	7S-19	Latitude = 120°26'64"W												

1.6

GPS: State Plane Coordinates:  
 Note: 7S-20

Center Deflection Normalized to 9 NPS =	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
292	1	68.000	8.41	8.65	7.77	7.03	6.02	5.29	4.04	3.09	2.65	7.04	-49.8		
292	1	68.000	8.56	8.38	7.73	7	6.05	5.31	4.04	3.11	2.64	7.05	-49.8		
292	1	68.000	8.57	8.35	7.69	6.98	6.02	5.29	4.06	3.08	2.64	7	-48.8		
GPS: Quality			DGPS	Fix	Latitude =		Longitude =		120°26.61'W PDOP =						
GPS: State Plane Coordinates:			8.570	8.350	7.690	6.980	6.020	5.290	4.060	3.080	2.640	7.000	-48.800		
Note:			7S-21												

Center Deflection Normalized to 9 NPS =	#DIV/0!														
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Center Deflection Normalized to 9 NPS =	#DIV/0!														
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Center Deflection Normalized to 9 NPS =	#DIV/0!														
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Center Deflection Normalized to 9 NPS =	#DIV/0!														
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Center Deflection Normalized to 9 NPS =	#DIV/0!														
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Center Deflection Normalized to 9 NPS =	#DIV/0!														
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 06-343533 FWD DATA\_03-18-03.xls

### Fresno Pre-Construction Manual Distress Identification Summary Data

Post Maintenance Data Collected July 01, 2003

<Additional overview see Appendix C pre-construction pavement condition photographs>

PES Section ID	Cracking – Longitudinal Wheel path (m)			Cracking – Longitudinal Non-Wheel path (m)			Cracking – Fatigue (m <sup>2</sup> )			Cracking – Transverse # of Occurrences, Total Length( m)			Cracking – Block Area (m <sup>2</sup> )			Patching # of Occurrences, Area (m <sup>2</sup> )	Edge Cracking (m)	
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H			
Severity Level																		H
NB 1	1.8	0	0	0	0	0	0	0	0	2.3	0	1.5	0	0	0	185.5	0	
	<b>70.2</b>																	
NB 2	6.5	2.7	0	4.5	0	0	0	1.5	5.5	0	0	2.0	0	0	0	14.8	0	
	<b>202.1</b>																	
NB 3	0	0	0	0	0	0	48.7	23.4		41.7	2.0	7.7	0	0	0	0	0	
	<b>15.1</b>																	
SB 1	0	0	0	0	0	0	0	0	0	79.7	0	0	0	0	0	0	0	
	<b>20.2</b>																	
SB 2	0	0	0	134.0	0	0	2.5	128.5	1.3	140.8	1.2	2.5	0	0	0	14.7	0	
	<b>48.2</b>									<b>122.9</b>								
SB 3	3.1	0	0	57.8	0	9.8	0	0	61.3	127.9	2.4	0.5	0	0	0	91.6	0	
	<b>18.9</b>									<b>115.1</b>							3.0	

\* **Bold items sealed cracks – no severity rated**

## Fresno Hwy 33 06-343534 Pre-Construction Pavement & Coring Photographs



NB1 HIGH SEVERITY ALLIGATOR CRACKING-  
PUMPING



NB1 - WATER BLEEDING AND PUMPING



NB2 - MEDIUM TO HIGH SEVERITY TRANSVERSE  
CRACKING



NB2 LOW SEVERITY ALLIGATOR CRACKING



NB3 - LOW SEVERITY TRANSVERSE CRACKING



NB3 - LOW SEVERITY ALLIGATOR CRACKING

## Fresno Hwy 33 06-343534 Pre-Construction Pavement & Coring Photographs



SB1 – LOW DISTRESS SECTION



SB1 – LOW TO MEDIUM SEVERITY TRANSVERSE  
CRACKS



SB2 – LONGITUDINAL CRACKING IN MIDLANE



SB2 – FLUSHING IN WHEELPATH



SB3 – HIGH DISTRESS SECTION



SB3 – PUMPING, TRANSVERSE AND ALLIGATOR  
CRACKING

## Fresno Hwy 33 06-343534 Pre-Overlay Pavement Maintenance Construction Photographs



NB1 – LARGE PATCH RIGHT OF MIDLANE



NB1 – LARGE PATCH MOST OF SECTION



NB2 – TRANSVERSE CRACKING (SEALED)



NB2 – TRANSVERSE CRACKING (SEALED)



NB3 – LONGITUDINAL CRACKING (SEALED)



NB3 – LONGITUDINAL AND TRANSVERSE  
CRACKS (SEALED)

## Fresno Hwy 33 06-343534 Pre-Overlay Pavement Maintenance Construction Photographs



SB1 – NO VISIBLE DISTRESS



SB1 – LOW SEVERITY TRANSVERSE CRACKS  
(SEALED)



SB2 – RT WP FLUSHING  
LT WP PATCHING



SB2 – WATER PUMPING AND FLUSHING



SB3 – FLUSHING, WATER PUMPING AND PATCHING



SB3 – BLOCK CRACKING (SEALED)

## Fresno Hwy 33 06-343534 Asphalt Plant Overview Photographs



AR BINDER BLENDING



VULCAN PLANT



VULCAN PLANT

## Fresno Hwy 33 06-343534 PES Construction Photographs



PAVING OVERVIEW



ROLLER COMPACTION OVERVIEW



NORTH BOUND LANE



SOUTH BOUND LANE



## Fresno Hwy 33 06-343534 PES Construction Photographs



SOUTH BOUND LANES PAVING OVERVIEW



HYSTER STATIC ROLLER



TACK COAT DISTRIBUTER

## Post-Construction FWD Testing and Coring Overview Photographs



PES FWD TESTING



PES CORING

### Materials & Testing Data Fresno Hwy 33 (06-343534)

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION ASPHALT CONCRETE - DRIER DRUM WORKSHEET (REV 10/02)		TEST NO.		DATE		08/11/03	
TYPE OF MIX GRADE ASPHALT PLANT		19mm Type G Rubberized AR 4000 Volcan - Front		% ASPHALT USED H.Sholaji		7.5 TONNES SAMPLED 700	
JOB STAMP Hwy 33 06-343534		OVEN DRY MOISTURE MIXTURE		CONT.		OPER. RANGE	
SIEVE SIZE		TOTAL WEIGHT WT. RET. PASS USED		TOTAL WEIGHT WT. RET. PASS USED		COMB GRADING	
+ 4.75 mm MATERIAL		8767 Grams		501 Grams		100	
31.5 mm	0	0	100	100	100	100	100
25 mm	19	0	100	100	100	95-100	95-100
19 mm	1022	12	88	88	88	79-89	79-89
12.5 mm	2564	29	71	71	71	61-71	61-71
9.5 mm	5506	63	37	37	37	29-39	29-39
4.75 mm						18-26	18-26
2.36 mm						17	17
1.18 mm						11	11
600 mm						7	7
300 mm						5	5
150 mm						4	4
75 mm						3	3
SAND EQUIVALENT		OPER. RANGE		MIN		MAX	
SAND	3.7	50		ASPHALT		CAL ID #	
CLAY	5.2	CONTR. COMP.		MIX		SOURCE	
S.E.	72	47		FEEDER SETTINGS		GRADATION "X"	
AVERAGE SAND EQUIVALENT		72		DESIGN		SIEVE	
SOL'N TEMP (°C)		CORR FACTOR		TIME		"X" VALUE	
22		0		1		2	
COMMENTS:		3		4		5	
GRADATION BY:		DATE:		6		7	
B. Ash / M. Islam		08/12/03		8		9	
SE TESTED BY:		DATE:		10		11	
B. Ash / M. Islam		08/12/03		12		13	
CHECKED BY:		DATE:		14		15	
[Signature]		08/12/03		16		17	
TEMPERATURE LOG		TEMPERATURE LOG		TEMPERATURE LOG		TEMPERATURE LOG	
TIME		TIME		TIME		TIME	
ASPHALT		ASPHALT		ASPHALT		ASPHALT	
MIX		MIX		MIX		MIX	
AGGREGATE INFORMATION		AGGREGATE INFORMATION		AGGREGATE INFORMATION		AGGREGATE INFORMATION	
SIZE		SIZE		SIZE		SIZE	
SOURCE		SOURCE		SOURCE		SOURCE	
CAL ID #		CAL ID #		CAL ID #		CAL ID #	





117 "V" Street  
 Bakersfield, CA 93304  
 (661) 327-0671 FAX (661) 324-4218

**Paving Summary Sheet - Rubberized Asphalt**

SR33 Rubberized  
 Contract 06-343534  
 BSK Job C03 540 61B

9/22/2003  
 Page 1 of 1

Project No.:  
 Material: Vulcan, Fresno, CA Mix Design #: 30424-1 (8-13-02)  
 Oil:

**Stability Caltrans Test (CT) #304,306**

Date:	08/11/03	08/12/03	8/13/03	8/14/03	8/15/03	8/16/03	8/18/03	Min. Spec
Sample ID:	3	2	1	1	1	1	1	27
Avg. Stability	25	27	31	40	45	28	40	

**Theoretical Maximum Specific Gravity ASTM 2041**

Sample ID:	1	2
Sp. Gravity	2.402	2.418

**Air Voids ASTM D2041**

Core ID	%Air Voids
1A	7.0%
1B	6.1%
2A	6.5%
2B	7.1%
3A	6.4%
3B	6.9%
4A	10.3%
4B	11.8%
5A	11.5%
5B	11.4%
6A	9.2%
6B	9.8%

**Asphalt Content CT#382**

Date:	8/11/03	8/11/03	8/11/03	8/12/03	8/12/03	8/13/03	8/13/03	8/14/03	8/15/03	8/15/03
Test ID	1	2	3	1	2	1	2	1	1	2
AC %	7.50%	7.40%	6.57%	6.74%	6.96%	6.76%	5.90%	7.14%	7.24%	6.97%

Date:	8/16/03	8/18/03	8/18/03	8/19/03	8/19/03	8/20/03	8/20/03	Target
Test ID	1	1	2	1	2	1	2	Value
AC%	7.31%	6.00%	6.78%	6.66%	6.05%	7.53%	6.31%	7.50%

**Laboratory Maximum Test Density CT 304, 308**

Test ID	A	B	C	AVG	CF	TMD
Sp. Gr. Briquette #2	2.32	2.23	2.33	2.33	1.031	2.33

**AIR VOIDS RELATIVE TO RICE METHOD**  
**RICE METHOD (ASTM D2041)**

**Project Name:** SR33 Rubberized                      **Sample #:** 1  
**BSK Job Number:** C03 540 61B                      **LOT#**  
**Contract Number:** 06-343534                      **Location:**  
**Date/Time:** 8/11/2003                      **Tested By:** C Mackey  
**Mix Type:** Rubberized  
**Oil Content:**                      **Actual Oil Content:**

**Where:** In place Asphalt Core density relative to RICE theoretical maximum density

$$\text{Air Voids} = \frac{\text{Core density (g/cc)}}{\text{AVG RICE (g/cc)}}$$

Core ID	Core Density g/cc	AVG RICE g/cc	% AIR VOIDS
1A	2.242	2.410	7.0
1B	2.264	2.410	6.1
2A	2.253	2.410	6.5
2B	2.240	2.410	7.1
3A	2.255	2.410	6.4
3B	2.244	2.410	6.9
4A	2.161	2.410	10.3
4B	2.125	2.410	11.8
5A	2.132	2.410	11.5
5B	2.136	2.410	11.4
6A	2.189	2.410	9.2
6B	2.174	2.410	9.8

**BSK**

PROJECT: **SR 33 Rubberized**

GAUGE: n/a

PROJECT NO.:

Sample Date: 8-11 to 14-03

CONTRACT NO.: **06-343534**

Substrate: RAC over AC

BSK JOB NO.: **C03 540 61B**

Thickness: VAR Diam.: \_\_\_\_\_

Client Job:

Design Oil%: \_\_\_\_\_

RE:

Comp. Temp n/a

Test Date/ By: 8-13 to20-03/ M Shiyhat

Sample	Height, mm	Weight of Briquette (Dry, Uncoated), gms	Weight of Briquette (Wax Coated), gms	Weight of Briquette (Coated, Immersed), gms.	Specific Gravity of Paraffin	Bulk Specific Gravity, gm/cc	Density (lbs./cu.ft.)
1A	56.4	824.6	837.4	455.4	0.90	2.242	139.91
1B	54.7	852.4	867.8	474.2	0.90	2.264	141.28
2A	80.8	1258.5	1269.5	698.6	0.90	2.253	140.56
2B	69.4	1035.0	1051.9	571.1	0.90	2.240	139.79
3A	59.9	934.5	943.0	519.1	0.90	2.255	140.70
3B	57.4	891.9	901.5	493.4	0.90	2.244	140.03
4A	81.3	1223.5	1241.0	655.4	0.90	2.161	134.85
4B	80.1	1240.4	1252.9	655.4	0.90	2.125	132.62
5A	61.7	917.5	929.7	485.8	0.90	2.132	133.04
5B	61.7	924.0	940.5	489.5	0.90	2.136	133.26
6A	63.8	947.8	971.0	512.3	0.90	2.189	136.61
6B	64.8	990.4	1003.8	533.4	0.90	2.174	135.67

See page 2 for Core Identification

See page 3 for Map

**Bulk Specific Gravity and Density of Compacted  
 Bituminous Mixtures Using Paraffin-Coated Specimens (Cores)  
 Cal 308 (Method A), D1188**

PROJECT: **SR 33 Rubberized**

GAUGE: n/a

TEST NO.:

Sample Date: 8-11 to 14-03

CONTRACT NO.: **06-343534**

Substrate: RAC over AC

BSK JOB NO.: **C03 540 61B**

Thickness: VAR Diam.: \_\_\_\_\_

Client Job:

Design Oil%: \_\_\_\_\_

RE:

Comp. Temp n/a

Test Date/ By: 8-13 to20-03/ M.Shiwyhat

SAMPLE	CORE IDENTIFICATION SUMMARY
1A	SR/33 South bound, 100' North of new pavement, 4' from West edge of pavement.
1B	SR/33 South bound, 100' North of new pavement, 4' from West edge of pavement.
2A	SR/33 South bound, 1100' North of new pavement, 4' from West edge of pavement.
2B	SR/33 South bound, 1100' North of new pavement, 4' from West edge of pavement.
3A	SR/33 South bound, 2100' North of new pavement, 4' from West edge of pavement.
3B	SR/33 South bound, 2100' North of new pavement, 4' from West edge of pavement.
4A	SR/33 North bound, 600' North of new pavement, 4' from East edge of pavement.
4B	SR/33 North bound, 600' North of new pavement, 4' from East edge of pavement.
5A	SR/33 North bound, 1575' North of new pavement, 4' from East edge of pavement.
5B	SR/33 North bound, 1575' North of new pavement, 4' from East edge of pavement.
6A	SR/33 North bound, 2560' North of new pavement, 4' from East edge of pavement.
6B	SR/33 North bound, 2560' North of new pavement, 4' from East edge of pavement.

### Hveem Stability Test

ASTM D1560, D1561, AASHTO T246, T247, CAL 304, 366

Date:	8/11/03	RE:	
BSK Job:	C03 540 61B	Tested By/ Date:	K.H & C.M./8-18-03
Project:	SR33 Rubberized	Design Oil %:	Actual:
Contract No.:	06-343534	Comp. Temp.:	230°F
Type:	Rubberized Asphalt	Sample ID:	3
		Location:	
		Sampled By/ Date:	JBM 8-11-03

Sample #				D	E	F
# 3	8/11/03					
A. Sample Weight				1203.6	1205.7	1202.8
B. Sample Height				2.49	2.48	2.50
C. Curing Time Before Leveling Load				Start		
				Finish		
				Time (Hrs)		
	AASHTO	ASTM	CAL 366			
D. Horizontal Pressure at Vertical Load				500 lbs.	n/a	n/a
E. Horizontal Pressure at Vertical Load				1000 lbs.	n/a	n/a
F. Horizontal Pressure at Vertical Load				2000 lbs.	n/a	2000 lbs.
G. Horizontal Pressure at Vertical Load				3000 lbs.	3000 lbs.	3000 lbs.
H. Horizontal Pressure at Vertical Load				4000 lbs.	n/a	4000 lbs.
I. Horizontal Pressure at Vertical Load				5000 lbs.	5000 lbs.	5000 lbs.
J. Horizontal Pressure at Vertical Load				6000 lbs.	6000 lbs.	6000 lbs.
K. Turns Displacement				3.84	3.75	3.97
L. Stability Value				31	21	23
M. Stability Value Corrected for Height				31	21	23
Average Stability Value					25	
Minimum Stability Value					37	

**BSK**  
 ASSOCIATES

### Hveem Stability Test

ASTM D1560, D1561, AASHTO T246, T247, CAL 304, 366

Date	8/12/03	RE:	
BSK Job	C03 540 61B	Tested By/ Date:	K.H & C.M./8-18-03
Project:	SR33 Rubberized	Design Oil %:	Actual:
Contract No.:	06-343534	Comp. Temp.:	230°F
Type:	Rubberized Asphalt	Sample ID:	2
		Location:	STA. 134+60
		Sampled By/ Date:	JBM 8-12-03

Sample #	Date			A	B	C
# 2	8/12/03					
A. Sample Weight				1205.6	1203.1	1205.7
B. Sample Height				2.56	2.55	2.52
C. Curing Time Before Leveling Load				Start		
				Finish		
				Time (Hrs)		
	AASHTO	ASTM	CAL 366			
U. Horizontal Pressure at Vertical Load	500 lbs.	n/a	n/a	5	5	5
E. Horizontal Pressure at Vertical Load	1000 lbs.	n/a	n/a	6	6	6
F. Horizontal Pressure at Vertical Load	2000 lbs.	n/a	2000 lbs.	12	18	15
G. Horizontal Pressure at Vertical Load	3000 lbs.	3000 lbs.	3000 lbs.	21	31	26
H. Horizontal Pressure at Vertical Load	4000 lbs.	n/a	4000 lbs.	31	46	39
I. Horizontal Pressure at Vertical Load	5000 lbs.	5000 lbs.	5000 lbs.	42	63	54
J. Horizontal Pressure at Vertical Load	6000 lbs.	6000 lbs.	6000 lbs.	57	82	71
K. Turns Displacement				4.33	4.15	3.81
L. Stability Value				30	22	27
M. Stability Value Corrected for Height				30	22	27
				Average Stability Value	27	
				Minimum Stability Value	37	

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### Hveem Stability Test

ASTM D1560, D1561, AASHTO T246, T247, CAL 304, 366

<b>Date</b>	8/13/03	<b>RE:</b>	
<b>BSK Job C03 540 61B</b>		<b>Tested By/ Date:</b>	<u>K.H &amp; C.M./8-20-03</u>
<b>Project:</b>	SR33 Rubberized	<b>Design Oil %:</b>	<u>Actual:</u>
<b>Contract No.:</b>	06-343534	<b>Comp. Temp.:</b>	<u>230°F</u>
<b>Type:</b>	Rubberized Asphalt	<b>Sample ID:</b>	<u>1</u>
		<b>Location:</b>	<u>STA. 145+00</u>
		<b>Sampled By/ Date:</b>	<u>JBM 8-13-03</u>

Sample # 1	8/13/03			4	5	6
A. Sample Weight				1202.7	1206.2	1204.3
B. Sample Height				2.54	2.56	2.61
C. Curing Time Before Leveling Load				Start		
				Finish		
				Time (Hrs)		
	AASHTO	ASTM	CAL 366			
D. Horizontal Pressure at Vertical Load	500 lbs.	n/a	n/a	5	5	5
E. Horizontal Pressure at Vertical Load	1000 lbs.	n/a	n/a	7	7	6
F. Horizontal Pressure at Vertical Load	2000 lbs.	n/a	2000 lbs.	15	15	13
G. Horizontal Pressure at Vertical Load	3000 lbs.	3000 lbs.	3000 lbs.	25	24	21
H. Horizontal Pressure at Vertical Load	4000 lbs.	n/a	4000 lbs.	35	35	31
I. Horizontal Pressure at Vertical Load	5000 lbs.	5000 lbs.	5000 lbs.	49	47	43
J. Horizontal Pressure at Vertical Load	6000 lbs.	6000 lbs.	6000 lbs.	64	63	58
K. Turns Displacement				3.54	3.96	4.43
L. Stability Value				31	30	32
M. Stability Value Corrected for Height				31	31	32
				Average Stability Value		31
				Minimum Stability Value		37

**BSK**  
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## Hveem Stability Test

ASTM D1560, D1561, AASHTO T246, T247, CAL 304, 366

<b>Date</b> 8/15/03	<b>RE:</b>
<b>BSK Job C03 540 61B</b>	<b>Tested By/ Date:</b> <u>K.H &amp; C.M./8-22-03</u>
<b>Project:</b> SR33 Rubberized	<b>Design Oil %:</b> <u>Actual:</u>
<b>Contract No.:</b> 06-343534	<b>Comp. Temp.:</b> <u>230°F</u>
<b>Type:</b> Rubberized Asphalt	<b>Sample ID:</b> <u>1</u>
	<b>Location:</b> <u>286 TONNES</u>
	<b>Sampled By/ Date:</b> <u>JBM 8-15-03</u>

Sample # 1	8/15/03			1	2	3
A. Sample Weight				1206.2	12038	1206.9
B. Sample Height				2.57	2.59	2.63
C. Curing Time Before Leveling Load	Start					
	Finish					
	Time (Hrs)					
	AASHTO	ASTM	CAL 366			
D. Horizontal Pressure at Vertical Load	500 lbs.	n/a	n/a	6	5	5
E. Horizontal Pressure at Vertical Load	1000 lbs.	n/a	n/a	7	5	5
F. Horizontal Pressure at Vertical Load	2000 lbs.	n/a	2000 lbs.	9	6	8
G. Horizontal Pressure at Vertical Load	3000 lbs.	3000 lbs.	3000 lbs.	14	9	12
H. Horizontal Pressure at Vertical Load	4000 lbs.	n/a	4000 lbs.	21	14	17
I. Horizontal Pressure at Vertical Load	5000 lbs.	5000 lbs.	5000 lbs.	31	22	25
J. Horizontal Pressure at Vertical Load	6000 lbs.	6000 lbs.	6000 lbs.	45	33	37
K. Turns Displacement				3.99	4.36	4.21
L. Stability Value				40	47	47
M. Stability Value Corrected for Height				40	47	47
				Average Stability Value		45
				Minimum Stability Value		37

**BSK**  
ASSOCIATES

### Hveem Stability Test

ASTM D1560, D1561, AASHTO T246, T247, CAL 304, 366

<b>Date</b> 8/16/03	<b>RE:</b>
<b>BSK Job C03 540 61B</b>	<b>Tested By/ Date:</b> <u>K.H &amp; C.M./8-22-03</u>
<b>Project:</b> SR33 Rubberized	<b>Design Oil %:</b> <u>Actual:</u>
<b>Contract No.:</b> 06-343534	<b>Comp. Temp.:</b> <u>230°F</u>
<b>Type:</b> Rubberized Asphalt	<b>Sample ID:</b> <u>1</u>
	<b>Location:</b> <u>STA. 159+60</u>
	<b>Sampled By/ Date:</b> <u>JBM 8-16-03</u>

Sample # 1				4	5	6
A. Sample Weight				1207.8	1205.8	1202.3
B. Sample Height				2.59	2.54	2.53
C. Curing Time Before Leveling Load	Start					
	Finish					
	Time (Hrs)					
	AASHTO	ASTM	CAL 366			
D. Horizontal Pressure at Vertical Load	500 lbs.	n/a	n/a	6	6	6
E. Horizontal Pressure at Vertical Load	1000 lbs.	n/a	n/a	8	7	7
F. Horizontal Pressure at Vertical Load	2000 lbs.	n/a	2000 lbs.	16	16	16
G. Horizontal Pressure at Vertical Load	3000 lbs.	3000 lbs.	3000 lbs.	26	28	28
H. Horizontal Pressure at Vertical Load	4000 lbs.	n/a	4000 lbs.	37	42	39
I. Horizontal Pressure at Vertical Load	5000 lbs.	5000 lbs.	5000 lbs.	50	60	54
J. Horizontal Pressure at Vertical Load	6000 lbs.	6000 lbs.	6000 lbs.	64	80	71
K. Turns Displacement				3.62	3.50	4.01
L. Stability Value				30	26	26
M. Stability Value Corrected for Height				30	26	26
				<b>Average Stability Value</b>		<b>28</b>
				<b>Minimum Stability Value</b>		<b>37</b>

**BSK**  
ASSOCIATES

### Hveem Stability Test

ASTM D1560, D1561, AASHTO T246, T247, CAL 304, 366

<b>Date:</b> 8/18/03	<b>RE:</b>	
<b>BSK Job:</b> C03 540 61B	<b>Tested By/ Date:</b>	<u>K.H &amp; C.M./8-20-03</u>
<b>Project:</b> SR33 Rubberized	<b>Design Oil %:</b>	<u>Actual:</u>
<b>Contract No.:</b> 06-343534	<b>Comp. Temp.:</b>	<u>230°F</u>
<b>Type:</b> Rubberized	<b>Sample ID:</b>	<u>1</u>
	<b>Location:</b>	<u>STA. 184+00</u>
	<b>Sampled By/ Date:</b>	<u>JBM 8-18-03</u>

Sample # 1	8/18/03			1	2	3
A. Sample Weight				1208.1	1206.7	1205.4
B. Sample Height				2.65	2.64	2.60
C. Curing Time Before Leveling Load				Start		
				Finish		
				Time (Hrs)		
	AASHTO	ASTM	CAL 366			
D. Horizontal Pressure at Vertical Load	500 lbs.	n/a	n/a	5	5	5
E. Horizontal Pressure at Vertical Load	1000 lbs.	n/a	n/a	5	5	6
F. Horizontal Pressure at Vertical Load	2000 lbs.	n/a	2000 lbs.	8	10	12
G. Horizontal Pressure at Vertical Load	3000 lbs.	3000 lbs.	3000 lbs.	13	15	18
H. Horizontal Pressure at Vertical Load	4000 lbs.	n/a	4000 lbs.	21	22	25
I. Horizontal Pressure at Vertical Load	5000 lbs.	5000 lbs.	5000 lbs.	31	30	33
J. Horizontal Pressure at Vertical Load	6000 lbs.	6000 lbs.	6000 lbs.	45	40	43
K. Turns Displacement				4.67	4.59	4.29
L. Stability Value				39	40	40
M. Stability Value Corrected for Height				39	40	40
Average Stability Value					40	
Minimum Stability Value					37	

**BSK**  
 ASSOCIATES

**California Test 308**  
**Method A**  
**Bulk Specific Gravity of Bituminous Mixtures**  
 (Laboratory Test Maximum Density)

**Project Name:** SR33 Rubberized **Sample #:** 2  
**BSK Job Number:** C03 540 61B **LOT#** \_\_\_\_\_  
**Project Number:** 06-343534 **Location:** \_\_\_\_\_  
**Date/Time:** 8/11/2003 **Tested By:** C Mackey  
**Mix Type:** Rubberized  
**Oil Content:** \_\_\_\_\_ **Actual Oil Content:** \_\_\_\_\_

**Where:** A = Weight in Air      PCF = Specific Gravity x 62.4  
 D = Waxed Weight in Air  
 E = Waxed Weight in Water  
 F = 0.90

**LABORATORY (LTMD)**

Sample	Height	A	B	E	Sp. Gravity	PCF
A	2.66	1202.5	1218.2	683.5	2.32	
B	2.64	1201.0	1215.6	685.0	2.33	
C	2.62	1198.7	1210.3	682.5	2.33	
D						
E						
Average Specific Gravity					LTMD	2.33

**BSK**

**ASTM 2041  
 RICE METHOD  
 THEORETICAL MAXIMUM SPECIFIC GRAVITY OF ASPHALT**

Project Name: SR33 Rubberized Sample #: 1  
 BSK Job Number: C03 540 61B LOT# \_\_\_\_\_  
 Contact Number: 06-343534 Location: \_\_\_\_\_  
 Date/Time: 8/11/2003 Tested By: C Mackey  
 Mix Type: Rubberized  
 Oil Content: \_\_\_\_\_ Actual Oil Content: \_\_\_\_\_

Where: A= Weight of dry sample in air  
 D = Weight of container filled with water @ 77°F  
 E = Weight of container filled with water & sample

$$\frac{A}{(A+D)-E}$$

Sample	A	D	E	Sp. Gravity
1	2148.3	7545.4	8799.5	2.402
Theoretical Maximum Specific Gravity, gm/cc				RICE 2.402

**BSK**

**ASTM 2041  
 RICE METHOD  
 THEORETICAL MAXIMUM SPECIFIC GRAVITY OF ASPHALT**

Project Name: SR33 Rubberized Sample #: 2  
 BSK Job Number: C03 540 61B LOT# \_\_\_\_\_  
 Contact Number: 06-343534 Location: North Travel  
 Date/Time: 8/12/2003 11:00AM Tested By: C Mackey  
 Mix Type: Rubberized  
 Oil Content: \_\_\_\_\_ Actual Oil Content: \_\_\_\_\_

Where: A= Weight of dry sample in air  
 D = Weight of container filled with water @ 77°F  
 E = Weight of container filled with water & sample

$$\frac{A}{(A+D)-E}$$

Sample	A	D	E	Sp. Gravity
1	2045.5	7542.6	8742.1	2.418
Theoretical Maximum Specific Gravity, gm/cc				RICE 2.418

**BSK**

**DETERMINATION OF ASPHALT CONTENT OF  
 BITUMINOUS MIXTURES BY IGNITION**

Project Name: SR33 Rubberized Test #: 1  
 BSK Job Number: C03 540 61B Lee's No.: \_\_\_\_\_  
 Project Number: 06-343534 Location: STA.  
 Sample Date/Time: 8/11/2003 Tested By: L. Goddard  
 Mix Type: Rubberized Ignition Time: 31 Min  
 Oven Type: 1 2 NTO Model: Troxler NTO RE: \_\_\_\_\_

**CAL TEST 382**

**Asphalt Content**

M1:	Sample weight before ignition	<u>2227.4</u> g	Tare	<u>2476.8</u>
M2:	Weight w/ Moist. Corr.	<u>2227.4</u> g		
M3:	Sample weight after ignition	<u>2070.8</u> g		
A.C. % :	$[(M2-M3)/M3] \times 100$	<u>7.56</u> %	Uncorrected	

**Ignition Oven Correction Factors**

Temperature Correction (per ticket): 0.00%  
 CF Correction Factor: 0.06  
 Date of OCF: 9/19/2003

**CAL TEST 370**

**Moisture Content**

A. Mass of Vessel	<u>17.0</u>
B. Mass of AC & Sample	<u>497.4</u>
C. Mass of Sample	<u>480.4</u>
D. 5 Minutes	<u>497.4</u>
E. 10 Minutes	_____
F. 12 Minutes	_____
G. 14 Minutes	_____
H. Final AC Weight	<u>480.4</u>
I. %Moisture	<u>0.00</u>
Average %Moisture	<u>0.00</u>

**Moisture Content**

A. Mass of Vessel	<u>16.6</u>
B. Mass of AC & Sample	<u>491.1</u>
C. Mass of Sample	<u>474.5</u>
D. 5 Minutes	<u>491.1</u>
E. 10 Minutes	_____
F. 12 Minutes	_____
G. 14 Minutes	_____
H. Final AC Weight	<u>474.5</u>
H. %Moisture	<u>0.00</u>

**Asphalt Content by Total Weight**

A.C. Content (adjusted using oven and moist. correction factors): 7.50

TARGET RANGE
CONFORMS
DOES NOT CONFORM

**BSK**

**DETERMINATION OF ASPHALT CONTENT OF  
 BITUMINOUS MIXTURES BY IGNITION**

Project Name: SR33 Rubberized Test #: 2  
 BSK Job Number: C03 540 61B Lee's No.: \_\_\_\_\_  
 Project Number: 06-343534 Location: STA.  
 Sample Date/Time: 8/11/2003 Tested By: L. Goddard  
 Mix Type: Rubberized Ignition Time: 33 Min  
 Oven Type: 1 2 NTO Model: Troxler NTO RE: \_\_\_\_\_

**CAL TEST 382**

**Asphalt Content**

M1:	Sample weight before ignition	<u>2301.6 g</u>	Tare	<u>2477.7</u>
M2:	Weight w/ Moist. Corr.	<u>2301.6 g</u>		
M3:	Sample weight after ignition	<u>2141.8 g</u>		
A.C. % :	$[(M2-M3)/M3] \times 100$	<u>7.46</u>	% Uncorrected	

**Ignition Oven Correction Factors**

Temperature Correction (per ticket): 0.00%  
 CF Correction Factor: 0.06  
 Date of OCF: 9/19/2003

**CAL TEST 370**

**Moisture Content**

A. Mass of Vessel	<u>17.3</u>
B. Mass of AC & Sample	<u>519.3</u>
C. Mass of Sample	<u>502.0</u>
D. 5 Minutes	<u>519.3</u>
E. 10 Minutes	_____
F. 12 Minutes	_____
G. 14 Minutes	_____
H. Final AC Weight	<u>502.0</u>
I. %Moisture	<u>0.00</u>
Average %Moisture	<u>0.00</u>

**Moisture Content**

A. Mass of Vessel	<u>16.8</u>
B. Mass of AC & Sample	<u>514.1</u>
C. Mass of Sample	<u>497.3</u>
D. 5 Minutes	<u>514.1</u>
E. 10 Minutes	_____
F. 12 Minutes	_____
G. 14 Minutes	_____
H. Final AC Weight	<u>497.3</u>
H. %Moisture	<u>0.00</u>

**Asphalt Content by Total Weight**

A.C. Content (adjusted using oven and moist. correction factors): 7.40

TARGET RANGE
CONFORMS
DOES NOT CONFORM

**BSK**

**DETERMINATION OF ASPHALT CONTENT OF  
 BITUMINOUS MIXTURES BY IGNITION**

Project Name: SR33 Rubberized Test #: 3  
 BSK Job Number: C03 540 61B Lee's No.: \_\_\_\_\_  
 Project Number: 06-343534 Location: STA.  
 Sample Date/Time: 8/11/2003 Tested By: L. Goddard  
 Mix Type: Rubberized Ignition Time: 29 Min  
 Oven Type: 1 2 NTO Model: Troxler NTO RE: \_\_\_\_\_

**CAL TEST 382**

**Asphalt Content**

M1: Sample weight before ignition 2264.6 g Tare 2456.2  
 M2: Weight w/ Moist. Corr. 2264.6 g  
 M3: Sample weight after ignition 2123.5 g  
 A.C. % :  $[(M2-M3)/M3] \times 100$  6.63 % Uncorrected

**Ignition Oven Correction Factors**

Temperature Correction (per ticket): 0.00%  
 CF Correction Factor: 0.06  
 Date of OCF: 9/19/2003

**CAL TEST 370**

**Moisture Content**

A. Mass of Vessel 17.2  
 B. Mass of AC & Sample 491.7  
 C. Mass of Sample 474.5  
 D. 5 Minutes 491.7  
 E. 10 Minutes \_\_\_\_\_  
 F. 12 Minutes \_\_\_\_\_  
 G. 14 Minutes \_\_\_\_\_  
 H. Final AC Weight 474.5  
 I. %Moisture 0.00  
 Average %Moisture 0.00

**Moisture Content**

A. Mass of Vessel 16.3  
 B. Mass of AC & Sample 499.6  
 C. Mass of Sample 483.3  
 D. 5 Minutes 499.6  
 E. 10 Minutes \_\_\_\_\_  
 F. 12 Minutes \_\_\_\_\_  
 G. 14 Minutes \_\_\_\_\_  
 H. Final AC Weight 483.3  
 H. %Moisture 0.00

**Asphalt Content by Total Weight**

A.C. Content (adjusted using oven and moist. correction factors): 6.57

TARGET RANGE	
CONFORMS	
DOES NOT CONFORM	

**BSK**

**DETERMINATION OF ASPHALT CONTENT OF  
 BITUMINOUS MIXTURES BY IGNITION**

Project Name: SR33 Rubberized Test #: 1  
 BSK Job Number: C03 540 61B Lee's No.: \_\_\_\_\_  
 Project Number: 06-343534 Location: STA.  
 Sample Date/Time: 8/12/2003 11:00A.M. Tested By: L. Goddard  
 Mix Type: Rubberized Ignition Time: 29 Min  
 Oven Type: 1 2 NTO Model: Troxler NTO RE: \_\_\_\_\_

**CAL TEST 382**

**Asphalt Content**

M1:	Sample weight before ignition	<u>2250.7</u> g	Tare	<u>2457.3</u>
M2:	Weight w/ Moist. Corr.	<u>2250.7</u> g		
M3:	Sample weight after ignition	<u>2107.3</u> g		
A.C. % :	$[(M2-M3)/M3] \times 100$	<u>6.80</u> %	Uncorrected	

**Ignition Oven Correction Factors**

Temperature Correction (per ticket): 0.00%  
 CF Correction Factor: 0.06  
 Date of OCF: 9/19/2003

**CAL TEST 370**

**Moisture Content**

A. Mass of Vessel	<u>17.0</u>
B. Mass of AC & Sample	<u>481.0</u>
C. Mass of Sample	<u>464.0</u>
D. 5 Minutes	<u>481.0</u>
E. 10 Minutes	_____
F. 12 Minutes	_____
G. 14 Minutes	_____
H. Final AC Weight	<u>464.0</u>
I. %Moisture	<u>0.00</u>
Average %Moisture	<u>0.00</u>

**Moisture Content**

A. Mass of Vessel	<u>16.8</u>
B. Mass of AC & Sample	<u>503.7</u>
C. Mass of Sample	<u>486.9</u>
D. 5 Minutes	<u>503.7</u>
E. 10 Minutes	_____
F. 12 Minutes	_____
G. 14 Minutes	_____
G. Final AC Weight	<u>486.9</u>
H. %Moisture	<u>0.00</u>

**Asphalt Content by Total Weight**

A.C. Content (adjusted using oven and moist. correction factors): 6.74

TARGET RANGE	
CONFORMS	
DOES NOT CONFORM	

**BSK**

**DETERMINATION OF ASPHALT CONTENT OF  
 BITUMINOUS MIXTURES BY IGNITION**

Project Name: SR33 Rubberized Test #: 2  
 BSK Job Number: C03 540 61B Lee's No.: \_\_\_\_\_  
 Project Number: 06-343534 Location: STA. 134+60  
 Sample Date/Time: 8/12/2003 2:30P.M. Tested By: L. Goddard  
 Mix Type: Rubberized Ignition Time: 32 Min  
 Oven Type: 1 2 NTO Model: Troxler NTO RE: \_\_\_\_\_

**CAL TEST 382**

**Asphalt Content**

M1: Sample weight before ignition 2252.2 g Tare 2479.4  
 M2: Weight w/ Moist. Corr. 2252.2 g  
 M3: Sample weight after ignition 2104.5 g  
 A.C. % :  $[(M2-M3)/M3] \times 100$  7.02 % Uncorrected

**Ignition Oven Correction Factors**

Temperature Correction (per ticket): 0.00%  
 CF Correction Factor: 0.06  
 Date of OCF: 9/19/2003

**CAL TEST 370**

**Moisture Content**

A. Mass of Vessel 16.9  
 B. Mass of AC & Sample 493.5  
 C. Mass of Sample 476.6  
 D. 5 Minutes 493.3  
 E. 10 Minutes \_\_\_\_\_  
 F. 12 Minutes \_\_\_\_\_  
 G. 14 Minutes \_\_\_\_\_  
 H. Final AC Weight 476.6  
 I. %Moisture 0.00  
 Average %Moisture 0.00

**Moisture Content**

A. Mass of Vessel 16.7  
 B. Mass of AC & Sample 504.1  
 C. Mass of Sample 487.4  
 D. 5 Minutes 504.1  
 E. 10 Minutes \_\_\_\_\_  
 F. 12 Minutes \_\_\_\_\_  
 G. 14 Minutes \_\_\_\_\_  
 H. Final AC Weight 487.4  
 H. %Moisture 0.00

**Asphalt Content by Total Weight**

A.C. Content (adjusted using oven and moist. correction factors): 6.96

TARGET RANGE	
CONFORMS	
DOES NOT CONFORM	

**BSK**

**DETERMINATION OF ASPHALT CONTENT OF  
 BITUMINOUS MIXTURES BY IGNITION**

Project Name: SR33 Rubberized Test #: 1  
 BSK Job Number: C03 540 61B Lee's No.: \_\_\_\_\_  
 Project Number: 06-343534 Location: STA. 140+80 N/B travel  
 Sample Date/Time: 8/13/2003 10:30A.M. Tested By: L. Goddard  
 Mix Type: Rubberized Ignition Time: \_\_\_\_\_ Min  
 Oven Type: 1 2 NTO Model: Troxler NTO RE: \_\_\_\_\_

**CAL TEST 382**

**Asphalt Content**

M1: Sample weight before ignition 2250.2 g Tare 2480.2  
 M2: Weight w/ Moist. Corr. 2249.8 g  
 M3: Sample weight after ignition 2106.1 g  
 A.C. % : [(M2-M3)/M3]x100 6.82 % Uncorrected

**Ignition Oven Correction Factors**

Temperature Correction (per ticket): 0.00%  
 CF Correction Factor: 0.06  
 Date of OCF: 9/19/2003

**CAL TEST 370**

**Moisture Content**

A. Mass of Vessel 17.4  
 B. Mass of AC & Sample 497.0  
 C. Mass of Sample 479.6  
 D. 5 Minutes 497.0  
 E. 10 Minutes \_\_\_\_\_  
 F. 12 Minutes \_\_\_\_\_  
 G. 14 Minutes \_\_\_\_\_  
 H. Final AC Weight 479.6  
 I. %Moisture 0.00  
 Average %Moisture 0.01

**Moisture Content**

A. Mass of Vessel 17.1  
 B. Mass of AC & Sample 508.7  
 C. Mass of Sample 491.6  
 D. 5 Minutes 508.6  
 E. 10 Minutes \_\_\_\_\_  
 F. 12 Minutes \_\_\_\_\_  
 G. 14 Minutes \_\_\_\_\_  
 G. Final AC Weight 491.5  
 H. %Moisture 0.02

**Asphalt Content by Total Weight**

A.C. Content (adjusted using oven and moist. correction factors): 6.76

TARGET RANGE	
CONFORMS	
DOES NOT CONFORM	

**BSK**

**DETERMINATION OF ASPHALT CONTENT OF  
 BITUMINOUS MIXTURES BY IGNITION**

Project Name: SR33 Rubberized Test #: 2  
 BSK Job Number: C03 540 61B Lee's No.: \_\_\_\_\_  
 Project Number: 06-343534 Location: STA. 145+100  
 Sample Date/Time: 8/13/2003 11:30A.M. Tested By: L. Goddard  
 Mix Type: Rubberized (N/B Travel) Ignition Time: 27 Min  
 Oven Type: 1 2 NTO Model: Troxler NTO RE: \_\_\_\_\_

**CAL TEST 382**

**Asphalt Content**

M1:	Sample weight before ignition	<u>2250.1</u> g	Tare	<u>2459.7</u>
M2:	Weight w/ Moist. Corr.	<u>2250.1</u> g		
M3:	Sample weight after ignition	<u>2123.6</u> g		
A.C. % :	$[(M2-M3)/M3] \times 100$	<u>5.96</u> %	Uncorrected	

**Ignition Oven Correction Factors**

Temperature Correction (per ticket):	<u>0.00</u> %
CF Correction Factor:	<u>0.06</u>
Date of OCF:	<u>9/19/2003</u>

**CAL TEST 370**

**Moisture Content**

A. Mass of Vessel	<u>17.2</u>
B. Mass of AC & Sample	<u>473.7</u>
C. Mass of Sample	<u>456.5</u>
D. 5 Minutes	<u>473.7</u>
E. 10 Minutes	_____
F. 12 Minutes	_____
G. 14 Minutes	_____
H. Final AC Weight	<u>456.5</u>
I. %Moisture	<u>0.00</u>
Average %Moisture	<u>0.00</u>

**Moisture Content**

A. Mass of Vessel	<u>16.7</u>
B. Mass of AC & Sample	<u>502.5</u>
C. Mass of Sample	<u>485.8</u>
D. 5 Minutes	<u>502.5</u>
E. 10 Minutes	_____
F. 12 Minutes	_____
G. 14 Minutes	_____
H. Final AC Weight	<u>485.8</u>
I. %Moisture	<u>0.00</u>

**Asphalt Content by Total Weight**

A.C. Content (adjusted using oven and moist. correction factors): 5.90

TARGET RANGE	_____
CONFORMS	_____
DOES NOT CONFORM	_____

**BSK**

**DETERMINATION OF ASPHALT CONTENT OF  
 BITUMINOUS MIXTURES BY IGNITION**

Project Name: SR33-Rubberized Test #: 1  
 BSK Job Number: C03 540 61B Lee's No.: \_\_\_\_\_  
 Project Number: 06-343534 Location: STA. 159+60  
 Sample Date/Time: 8/14/2003 3:00PM Tested By: L. Goddard  
 Mix Type: Rubberized Ignition Time: 34 Min  
 Oven Type: 1 2 NTO Model: Thermolyne 4962

**CAL TEST 382**

**Asphalt Content**

M1: Sample weight before ignition 2261.4 g Tare 2479.5  
 M2: Weight w/ Moist. Corr. 2261.4 g  
 M3: Sample weight after ignition 2109.6 g  
 A.C. % :  $[(M2-M3)/M3] \times 100$  7.20 % Uncorrected

**Ignition Oven Correction Factors**

Temperature Correction (per ticket): 0.00%  
 CF Correction Factor: 0.06  
 Date of OCF: 9/19/2003

**CAL TEST 370**

**Moisture Content**

A. Mass of Vessel 17.2  
 B. Mass of AC & Sample 489.0  
 C. Mass of Sample 471.8  
 D. 5 Minutes 489.0  
 E. 10 Minutes \_\_\_\_\_  
 F. 12 Minutes \_\_\_\_\_  
 G. 14 Minutes \_\_\_\_\_  
 H. Final AC Weight 471.8  
 I. %Moisture 0.00  
 Average %Moisture 0.00

**Moisture Content**

A. Mass of Vessel 16.4  
 B. Mass of AC & Sample 503.0  
 C. Mass of Sample 486.6  
 D. 5 Minutes 503.0  
 E. 10 Minutes 486.6  
 F. 12 Minutes \_\_\_\_\_  
 G. 14 Minutes \_\_\_\_\_  
 H. Final AC Weight 486.6  
 H. %Moisture 0.00

**Asphalt Content by Total Weight**

A.C. Content (adjusted using oven and moist. correction factors): 7.14

TARGET RANGE	
CONFORMS	
DOES NOT CONFORM	

**BSK**

**DETERMINATION OF ASPHALT CONTENT OF  
 BITUMINOUS MIXTURES BY IGNITION**

**Project Name:** SR33 Rubberized **Test #:** 1  
**BSK Job Number:** C03 540 61B **Lee's No.:** \_\_\_\_\_  
**Project Number:** 06-343534 **Location:** Load 33  
**Sample Date/Time:** 8/15/2003 11:00A.M. **Tested By:** L. Goddard  
**Mix Type:** Rubberized **Ignition Time:** 32 Min  
**Oven Type:** 1 2 NTO **Model:** Troxler NTO **RE:** \_\_\_\_\_

**CAL TEST 382**

**Asphalt Content**

**M1:** Sample weight before ignition 2255.2 g Tare 2480.2  
**M2:** Weight w/ Moist. Corr. 2255.2 g  
**M3:** Sample weight after ignition 2101.7 g  
**A.C. % :** [(M2-M3)/M3]x100 7.30 % Uncorrected

**Ignition Oven Correction Factors**

**Temperature Correction (per ticket):** 0.00%  
**CF** Correction Factor: 0.06  
 Date of OCF: 9/19/2003

**CAL TEST 370**

**Moisture Content**

A. Mass of Vessel 17.2  
 B. Mass of AC & Sample 508.4  
 C. Mass of Sample 491.2  
 D. 5 Minutes 508.4  
 E. 10 Minutes \_\_\_\_\_  
 F. 12 Minutes \_\_\_\_\_  
 G. 14 Minutes \_\_\_\_\_  
 H. Final AC Weight 491.2  
 I. %Moisture 0.00  
**Average %Moisture** 0.00

**Moisture Content**

A. Mass of Vessel 16.7  
 B. Mass of AC & Sample 492.6  
 C. Mass of Sample 475.9  
 D. 5 Minutes 492.6  
 E. 10 Minutes \_\_\_\_\_  
 F. 12 Minutes \_\_\_\_\_  
 G. 14 Minutes \_\_\_\_\_  
 H. Final AC Weight 475.9  
 I. %Moisture 0.00

**Asphalt Content by Total Weight**

A.C. Content (adjusted using oven and moist. correction factors): 7.24

TARGET RANGE	
CONFORMS	
DOES NOT CONFORM	

**BSK**

**DETERMINATION OF ASPHALT CONTENT OF  
 BITUMINOUS MIXTURES BY IGNITION**

Project Name: SR33 Rubberized Test #: 2 TONNES  
 BSK Job Number: C03 540 61B Lee's No.: \_\_\_\_\_  
 Project Number: 06-343534 Location: STA. 175+30  
 Sample Date/Time: 8/15/2003 4:15P.M. Tested By: L. Goddard  
 Mix Type: Rubberized Ignition Time: 36 Min  
 Oven Type: 1 2 NTO Model: Troxler NTO RE: \_\_\_\_\_

**CAL TEST 382**

**Asphalt Content**

M1: Sample weight before ignition 2238.0 g Tare 2459.0  
 M2: Weight w/ Moist. Corr. 2238.0 g  
 M3: Sample weight after ignition 2091.1 g  
 A.C. % :  $[(M2-M3)/M3] \times 100$  7.03 % Uncorrected

**Ignition Oven Correction Factors**

Temperature Correction (per ticket): 0.00%  
 CF Correction Factor: 0.06  
 Date of OCF: 9/19/2003

**CAL TEST 370**

**Moisture Content**

A. Mass of Vessel 17.0  
 B. Mass of AC & Sample 510.7  
 C. Mass of Sample 493.7  
 D. 5 Minutes 510.7  
 E. 10 Minutes \_\_\_\_\_  
 F. 12 Minutes \_\_\_\_\_  
 G. 14 Minutes \_\_\_\_\_  
 H. Final AC Weight 493.7  
 I. %Moisture 0.00  
**Average %Moisture** 0.00

**Moisture Content**

A. Mass of Vessel 16.5  
 B. Mass of AC & Sample 503.4  
 C. Mass of Sample 486.9  
 D. 5 Minutes 503.4  
 E. 10 Minutes \_\_\_\_\_  
 F. 12 Minutes \_\_\_\_\_  
 G. 14 Minutes \_\_\_\_\_  
 H. Final AC Weight 486.9  
 I. %Moisture 0.00

**Asphalt Content by Total Weight**

A.C. Content (adjusted using oven and moist. correction factors): 6.97

<b>TARGET RANGE</b>	<b>7.0-8.0%</b>
<b>CONFORMS</b>	
<b>DOES NOT CONFORM</b>	

**BSK**

**DETERMINATION OF ASPHALT CONTENT OF  
 BITUMINOUS MIXTURES BY IGNITION**

Project Name: SR33-Rubberized Test #: 1  
 BSK Job Number: C03 540 61B Lee's No.: \_\_\_\_\_  
 Project Number: 06-343534 Location: STA. 159+60  
 Sample Date/Time: 8/16/2003 11:40AM Tested By: L.Goddard  
 Mix Type: Rubberized Ignition Time: 35 Min  
 Oven Type: 1 2 NTO Model: Thermolyne 4962  
 \_\_\_\_\_  
 align="center">**CAL TEST 382**

**Asphalt Content**

M1: Sample weight before ignition 2258.4 g Tare 2459.6  
 M2: Weight w/ Moist. Corr. 2258.2 g  
 M3: Sample weight after ignition 2103.1 g  
 A.C. % :  $[(M2-M3)/M3] \times 100$  7.37 % Uncorrected

**Ignition Oven Correction Factors**

Temperature Correction (per ticket): 0.00%  
 CF Correction Factor: 0.06  
 Date of OCF: 9/19/2003

**CAL TEST 370**

**Moisture Content**

A. Mass of Vessel 17.4  
 B. Mass of AC & Sample 486.7  
 C. Mass of Sample 469.3  
 D. 5 Minutes 486.7  
 E. 10 Minutes \_\_\_\_\_  
 F. 12 Minutes \_\_\_\_\_  
 G. 14 Minutes \_\_\_\_\_  
 H. Final AC Weight 469.3  
 I. %Moisture 0.00  
 Average %Moisture 0.01

**Moisture Content**

A. Mass of Vessel 16.9  
 B. Mass of AC & Sample 486.2  
 C. Mass of Sample 469.3  
 D. 5 Minutes 486.1  
 E. 10 Minutes \_\_\_\_\_  
 F. 12 Minutes \_\_\_\_\_  
 G. 14 Minutes \_\_\_\_\_  
 H. Final AC Weight 469.2  
 H. %Moisture 0.02

**Asphalt Content by Total Weight**

A.C. Content (adjusted using oven and moist. correction factors): 7.31

TARGET RANGE	
CONFORMS	
DOES NOT CONFORM	

**BSK**

**DETERMINATION OF ASPHALT CONTENT OF  
 BITUMINOUS MIXTURES BY IGNITION**

Project Name: SR33-Rubberized Test #: 1  
 BSK Job Number: C03 540 61B Lee's No.: \_\_\_\_\_  
 Project Number: 06-343534 Location: STA.185+00  
 Sample Date/Time: 8/18/2003 11:00AM Tested By: L.Goddard  
 Mix Type: Rubberized Ignition Time: 31 Min  
 Oven Type: 1 2 NTO Model: Thermolyne 4962

**CAL TEST 382**

**Asphalt Content**

M1:	Sample weight before ignition	<u>2264.0</u> g	Tare	<u>2480.2</u>
M2:	Weight w/ Moist. Corr.	<u>2264.0</u> g		
M3:	Sample weight after ignition	<u>2134.6</u> g		
A.C. % :	$[(M2-M3)/M3] \times 100$	<u>6.06</u> %	Uncorrected	

**Ignition Oven Correction Factors**

Temperature Correction (per ticket): 0.00%  
 CF Correction Factor: 0.06  
 Date of OCF: 9/19/2003

**CAL TEST 370**

**Moisture Content**

A. Mass of Vessel	<u>17.0</u>
B. Mass of AC & Sample	<u>499.0</u>
C. Mass of Sample	<u>482.0</u>
D. 5 Minutes	<u>499.0</u>
E. 10 Minutes	_____
F. 12 Minutes	_____
G. 14 Minutes	_____
H. Final AC Weight	<u>482.0</u>
I. %Moisture	<u>0.00</u>
Average %Moisture	<u>0.00</u>

**Moisture Content**

A. Mass of Vessel	<u>16.8</u>
B. Mass of AC & Sample	<u>503.8</u>
C. Mass of Sample	<u>487.0</u>
D. 5 Minutes	<u>503.8</u>
E. 10 Minutes	_____
F. 12 Minutes	_____
G. 14 Minutes	_____
G. Final AC Weight	<u>487.0</u>
H. %Moisture	<u>0.00</u>

**Asphalt Content by Total Weight**

A.C. Content (adjusted using oven and moist. correction factors): 6.00

TARGET RANGE
CONFORMS
DOES NOT CONFORM

**BSK**

**DETERMINATION OF ASPHALT CONTENT OF  
 BITUMINOUS MIXTURES BY IGNITION**

Project Name: SR33-Rubberized Test #: 2  
 BSK Job Number: C03 540 61B Lee's No.: \_\_\_\_\_  
 Project Number: 06-343534 Location: STA.185+40  
 Sample Date/Time: 8/18/2003 3:00PM Tested By: L.Goddard  
 Mix Type: Rubberized Ignition Time: 31 Min  
 Oven Type: 1 2 NTO Model: Thermolyne 4962  
 \_\_\_\_\_  
 align="center">**CAL TEST 382**

**Asphalt Content**

M1: Sample weight before ignition 2254.1 g Tare 2480.2  
 M2: Weight w/ Moist. Corr. 2254.1 g  
 M3: Sample weight after ignition 2109.7 g  
 A.C. % :  $[(M2-M3)/M3] \times 100$  6.84 % Uncorrected

**Ignition Oven Correction Factors**

Temperature Correction (per ticket): 0.00%  
 CF Correction Factor: 0.06  
 Date of OCF: 9/19/2003

**CAL TEST 370**

**Moisture Content**

A. Mass of Vessel 17.0  
 B. Mass of AC & Sample 499.0  
 C. Mass of Sample 482.0  
 D. 5 Minutes 499.0  
 E. 10 Minutes \_\_\_\_\_  
 F. 12 Minutes \_\_\_\_\_  
 G. 14 Minutes \_\_\_\_\_  
 H. Final AC Weight 482.0  
 I. %Moisture 0.00  
 Average %Moisture 0.00

**Moisture Content**

A. Mass of Vessel 16.8  
 B. Mass of AC & Sample 503.8  
 C. Mass of Sample 487.0  
 D. 5 Minutes 503.8  
 E. 10 Minutes \_\_\_\_\_  
 F. 12 Minutes \_\_\_\_\_  
 G. 14 Minutes \_\_\_\_\_  
 H. Final AC Weight 487.0  
 H. %Moisture 0.00

**Asphalt Content by Total Weight**

A.C. Content (adjusted using oven and moist. correction factors): 6.78

<b>TARGET RANGE</b>	
<b>CONFORMS</b>	
<b>DOES NOT CONFORM</b>	

**BSK**

**DETERMINATION OF ASPHALT CONTENT OF  
 BITUMINOUS MIXTURES BY IGNITION**

Project Name: SR33-Rubberized Test #: 1  
 BSK Job Number: C03 540 61B Lee's No.: \_\_\_\_\_  
 Project Number: 06-343534 Location: STA. 196+40  
 Sample Date/Time: 8/19/2003 10:45AM Tested By: L.Goddard  
 Mix Type: Rubberized Ignition Time: 31 Min  
 Oven Type: 1 2 NTO Model: Thermolyne 4962 RE: Bob James  
**CAL TEST 382**

**Asphalt Content**

M1: Sample weight before ignition 2238.9 g Tare 2480.9  
 M2: Weight w/ Moist. Corr. 2238.9 g  
 M3: Sample weight after ignition 2098.0 g  
 A.C. % :  $[(M2-M3)/M3] \times 100$  6.72 % Uncorrected

**Ignition Oven Correction Factors**

Temperature Correction (per ticket): 0.00%  
 CF Correction Factor: 0.06  
 Date of OCF: 9/19/2003

**CAL TEST 370**

**Moisture Content**

A. Mass of Vessel 17.0  
 B. Mass of AC & Sample 490.4  
 C. Mass of Sample 473.4  
 D. 5 Minutes 490.4  
 E. 10 Minutes \_\_\_\_\_  
 F. 12 Minutes \_\_\_\_\_  
 G. 14 Minutes \_\_\_\_\_  
 H. Final AC Weight 473.4  
 I. %Moisture 0.00  
**Average %Moisture** 0.00

**Moisture Content**

A. Mass of Vessel 16.7  
 B. Mass of AC & Sample 506.6  
 C. Mass of Sample 489.9  
 D. 5 Minutes 506.6  
 E. 10 Minutes \_\_\_\_\_  
 F. 12 Minutes \_\_\_\_\_  
 G. 14 Minutes \_\_\_\_\_  
 H. Final AC Weight 489.9  
 H. %Moisture 0.00  
 56% fines

**Asphalt Content by Total Weight**

A.C. Content (adjusted using oven and moist. correction factors): 6.66

TARGET RANGE	
CONFORMS	
DOES NOT CONFORM	

**BSK**

**DETERMINATION OF ASPHALT CONTENT OF  
 BITUMINOUS MIXTURES BY IGNITION**

Project Name: SR33-Rubberized Test #: 2  
 BSK Job Number: C03 540 61B Lee's No.: \_\_\_\_\_  
 Project Number: 06-343534 Location: STA. 191+90  
 Sample Date/Time: 8/19/2003 3:10 PM Tested By: L.Goddard  
 Mix Type: Rubberized Ignition Time: 30 Min  
 Oven Type: 1 2 NTO Model: Thermolyne 4962 RE: Bob James

**CAL TEST 382**

**Asphalt Content**

M1: Sample weight before ignition 2247.6 g Tare 2462.6  
 M2: Weight w/ Moist. Corr. 2247.6 g  
 M3: Sample weight after ignition 2118.1 g  
 A.C. % :  $[(M2-M3)/M3] \times 100$  6.11 % Uncorrected

**Ignition Oven Correction Factors**

Temperature Correction (per ticket): 0.00%  
 CF Correction Factor: 0.06  
 Date of OCF: 9/19/2003

**CAL TEST 370**

**Moisture Content**

A. Mass of Vessel 16.8  
 B. Mass of AC & Sample 502.2  
 C. Mass of Sample 485.4  
 D. 5 Minutes 502.2  
 E. 10 Minutes \_\_\_\_\_  
 F. 12 Minutes \_\_\_\_\_  
 G. 14 Minutes \_\_\_\_\_  
 H. Final AC Weight 485.4  
 I. %Moisture 0.00  
 Average %Moisture 0.00

**Moisture Content**

A. Mass of Vessel 16.5  
 B. Mass of AC & Sample 510.6  
 C. Mass of Sample 494.1  
 D. 5 Minutes 510.6  
 E. 10 Minutes \_\_\_\_\_  
 F. 12 Minutes \_\_\_\_\_  
 G. 14 Minutes \_\_\_\_\_  
 H. Final AC Weight 494.1  
 H. %Moisture 0.00

**Asphalt Content by Total Weight**

A.C. Content (adjusted using oven and moist. correction factors): 6.05

TARGET RANGE	
CONFORMS	
DOES NOT CONFORM	

**BSK**

**DETERMINATION OF ASPHALT CONTENT OF  
 BITUMINOUS MIXTURES BY IGNITION**

Project Name: SR33-Rubberized Test #: 1  
 BSK Job Number: C03 540 61B Lee's No.: \_\_\_\_\_  
 Project Number: 06-343534 Location: STA. 215+20  
 Sample Date/Time: 8/20/2003 11:15AM Tested By: L.Goddard  
 Mix Type: Rubberized Ignition Time: 39 Min  
 Oven Type: 1 2 NTO Model: Thermolyne 4962

**CAL TEST 382**

**Asphalt Content**

M1: Sample weight before ignition 2257.5 g Tare 2482.7  
 M2: Weight w/ Moist. Corr. 2257.5 g  
 M3: Sample weight after ignition 2098.2 g  
 A.C. % :  $[(M2-M3)/M3] \times 100$  7.59 % Uncorrected

**Ignition Oven Correction Factors**

Temperature Correction (per ticket): 0.00%  
 CF Correction Factor: 0.06  
 Date of OCF: 9/19/2003

**CAL TEST 370**

**Moisture Content**

A. Mass of Vessel 16.7  
 B. Mass of AC & Sample 506.2  
 C. Mass of Sample 489.5  
 D. 5 Minutes 506.2  
 E. 10 Minutes \_\_\_\_\_  
 F. 12 Minutes \_\_\_\_\_  
 G. 14 Minutes \_\_\_\_\_  
 H. Final AC Weight 489.5  
 I. %Moisture 0.00  
 Average %Moisture 0.00

**Moisture Content**

A. Mass of Vessel 16.4  
 B. Mass of AC & Sample 494.5  
 C. Mass of Sample 478.1  
 D. 5 Minutes 494.5  
 E. 10 Minutes \_\_\_\_\_  
 F. 12 Minutes \_\_\_\_\_  
 G. 14 Minutes \_\_\_\_\_  
 H. Final AC Weight 478.1  
 H. %Moisture 0.00

**Asphalt Content by Total Weight**

A.C. Content (adjusted using oven and moist. correction factors): **7.53**

TARGET RANGE	
CONFORMS	
DOES NOT CONFORM	

**BSK**

**DETERMINATION OF ASPHALT CONTENT OF  
 BITUMINOUS MIXTURES BY IGNITION**

Project Name: SR33-Rubberized Test #: 2  
 BSK Job Number: C03 540 61B Lee's No.: \_\_\_\_\_  
 Project Number: \_\_\_\_\_ Location: STA. 215+60  
 Sample Date/Time: 8/20/2003 4:00PM Tested By: L.Goddard  
 Mix Type: Rubberized Ignition Time: 49 Min  
 Oven Type: 1 2 NTO Model: Thermolyne 4962  
 \_\_\_\_\_  
 align="center">**CAL TEST 382**

**Asphalt Content**

M1:	Sample weight before ignition	<u>2238.4</u> g	Tare	<u>2484.9</u>
M2:	Weight w/ Moist. Corr.	<u>2238.4</u> g		
M3:	Sample weight after ignition	<u>2104.3</u> g		
A.C. % :	$[(M2-M3)/M3] \times 100$	<u>6.37</u> %	Uncorrected	

**Ignition Oven Correction Factors**

Temperature Correction (per ticket):	<u>0.00</u> %
CF Correction Factor:	<u>0.06</u>
Date of OCF:	<u>9/19/2003</u>

**CAL TEST 370**

**Moisture Content**

A. Mass of Vessel	<u>17.2</u>
B. Mass of AC & Sample	<u>490.5</u>
C. Mass of Sample	<u>473.3</u>
D. 5 Minutes	<u>490.5</u>
E. 10 Minutes	_____
F. 12 Minutes	_____
G. 14 Minutes	_____
H. Final AC Weight	<u>473.3</u>
I. %Moisture	<u>0.00</u>
Average %Moisture	<u>0.00</u>

**Moisture Content**

A. Mass of Vessel	<u>16.8</u>
B. Mass of AC & Sample	<u>497.9</u>
C. Mass of Sample	<u>481.1</u>
D. 5 Minutes	<u>497.9</u>
E. 10 Minutes	_____
F. 12 Minutes	_____
G. 14 Minutes	_____
G. Final AC Weight	<u>481.1</u>
H. %Moisture	<u>0.00</u>

**Asphalt Content by Total Weight**

A.C. Content (adjusted using oven and moist. correction factors): **6.31**

<b>TARGET RANGE</b>
<b>CONFORMS</b>
<b>DOES NOT CONFORM</b>

**BSK**

**CONSTRUCTION, INC.**

115 S. 48th St. • Tempe, AZ 85281

DATE: 8-20-03 AGENCY: CALTRANS AGENCY #: \_\_\_\_\_ FNF JOB #: 747

RUBBER SUPPLIER: CPM TYPE: Scrap tire %RUBBER: \_\_\_\_\_  
 ASPHALT SUPPLIER: \_\_\_\_\_ TYPE: A1-6000 %OIL: \_\_\_\_\_  
 NATURAL RUBBER SUPPLIER: CPM TYPE: Nat. Natural %RUBBER: \_\_\_\_\_  
 MODIFIER SUPPLIER: Syn Technol TYPE: Reflex 120ACB %OIL: \_\_\_\_\_

TYPE II BINDER ASPHALT RUBBER PRODUCTION DATA											
BLEND #	START TIME	END TIME	OIL TEMP	TONS ASPHALT	TONS MODIFIER	TONS TIRE RUBBER	TONS NATL. RUBBER	TONS BLENDED	% TOTAL RUBBER	TEMP	VISCOSITY
39	7:45	8:45	400°	31.58	.82	5.544	1.656	40	18%	355°	3700
39	9:45	10:45	400°	31.95	.82	5.544	1.656	40	18%	355°	3600
40	11:45	12:15	400°	27.983	.717	4.851	1.449	35	17%	355°	3500

ASPHALT			
DATE:	ENTRY	DELIVERIES	
TONS DEL PREVIOUSLY:		BL #	NET TONS
TONS DEL TODAY:			
TOND DEL TO DATE:			
TONS USED PREVIOUSLY:	<u>1017.576</u>		
TONS USED TODAY:	<u>91.943</u>		
TONS USED TO DATE:	<u>1111.519</u>		
TONS ON HAND:			
COMMENTS:			
		TOTAL TONS:	

MODIFIER			
DATE:	ENTRY	DELIVERIES	
TONS DEL PREVIOUSLY:		BL #	NET TONS
TONS DEL TODAY:			
TOND DEL TO DATE:			
TONS USED PREVIOUSLY:	<u>26.134</u>		
TONS USED TODAY:	<u>2.357</u>		
TONS USED TO DATE:	<u>28.491</u>		
TONS ON HAND:			
COMMENTS:			
		TOTAL TONS:	

TIRE RUBBER			
DATE:	ENTRY	DELIVERIES	
TONS DEL PREVIOUSLY:		BL #	NET TONS
TONS DEL TODAY:			
TOND DEL TO DATE:			
TONS USED PREVIOUSLY:	<u>177.085</u>		
TONS USED TODAY:	<u>15.759</u>		
TONS USED TO DATE:	<u>193.024</u>		
TONS ON HAND:			
COMMENTS:			
		TOTAL TONS:	

NATURAL RUBBER			
DATE:	ENTRY	DELIVERIES	
TONS DEL PREVIOUSLY:		BL #	NET TONS
TONS DEL TODAY:			
TOND DEL TO DATE:			
TONS USED PREVIOUSLY:	<u>52.895</u>		
TONS USED TODAY:	<u>4.761</u>		
TONS USED TO DATE:	<u>57.656</u>		
TONS ON HAND:			
COMMENTS:			
		TOTAL TONS:	

A/R BLEND			
DATE:	ENTRY	DELIVERIES	
TONS DEL PREVIOUSLY:	<u>1255.69</u>	BL #	NET TONS
TONS DEL TODAY:	<u>115.</u>	<u>39</u>	<u>40</u>
TOND DEL TO DATE:	<u>1390.69</u>	<u>39</u>	<u>40</u>
TONS USED PREVIOUSLY:	<u>1200.62</u>	<u>40</u>	<u>35</u>
TONS USED TODAY:	<u>192.31</u>		
TONS USED TO DATE:	<u>1372.93</u>		
TONS ON HAND:	<u>17.76</u>		
COMMENTS:			
		TOTAL TONS:	

TOTAL BLEND:	
TOTAL BLEND USED BY METER:	<u>171.87</u>
TOTAL BLEND USED BY STRAP:	<u>172.31</u>
DAILY TONS OF MIX PRODUCED:	<u>2541.83</u>
DAILY AC PERCENTAGE:	<u>7.2%</u>

ADDITIONAL NOTES: 25 TONS WASTE

**FNF CONSTRUCTION, INC.**  
 115 S. 48th St. • Tempe, AZ 85281

DATE: 8-19-03 AGENCY: CAITRANS AGENCY #: \_\_\_\_\_ FNF JOB #: 842

TYPE RUBBER SUPPLIER: CRM TYPE: Scripture %RUBBER: \_\_\_\_\_  
 ASPHALT SUPPLIER: \_\_\_\_\_ TYPE: AR-400 % OIL: \_\_\_\_\_  
 NATURAL RUBBER SUPPLIER: CRM TYPE: High Natural %RUBBER: \_\_\_\_\_  
 MODIFIER SUPPLIER: 550 Joerglin TYPE: Raffex 120 ACB % OIL: \_\_\_\_\_

TYPE II BINDER ASPHALT RUBBER PRODUCTION DATA											
BLEND #	START TIME	END TIME	OIL TEMP	TONS ASPHALT	TONS MODIFIER	TONS TIRE RUBBER	TONS NATL. RUBBER	TONS BLENDED	% TOTAL RUBBER	TEMP	VISCOSITY
33	8:15	9:00	400°	31.181	.799	5.405	1.615	39	18%	375°	2800
34	10:00	10:45	400°	27.983	.717	4.851	1.449	35	18%	375°	3100
35	12:00	12:45	400°	27.983	.717	4.851	1.449	35	18%	375°	3500
36	1:45	2:45	400°	31.98	.82	5.544	1.656	40	18%	375°	2800
37	3:45	4:45	400°	27.983	.717	4.851	1.449	35	18%	375°	3500

ASPHALT			
DATE:	ENTRY	DELIVERIES	
TONS DEL PREVIOUSLY:		B L #	NET TONS
TONS DEL TODAY:			
TONS DEL TO DATE:			
TONS USED PREVIOUSLY:	840.486		
TONS USED TODAY:	147.11		
TONS USED TO DATE:	987.596		
TONS ON HAND:			
COMMENTS:			
TOTAL TONS:			

MODIFIER			
DATE:	ENTRY	DELIVERIES	
TONS DEL PREVIOUSLY:		B L #	NET TONS
TONS DEL TODAY:			
TONS DEL TO DATE:			
TONS USED PREVIOUSLY:	22.364		
TONS USED TODAY:	3.77		
TONS USED TO DATE:	26.134		
TONS ON HAND:			
COMMENTS:			
TOTAL TONS:			

TIRE RUBBER			
DATE:	ENTRY	DELIVERIES	
TONS DEL PREVIOUSLY:		B L #	NET TONS
TONS DEL TODAY:			
TONS DEL TO DATE:			
TONS USED PREVIOUSLY:	151.583		
TONS USED TODAY:	25.502		
TONS USED TO DATE:	177.085		
TONS ON HAND:			
COMMENTS:			
TOTAL TONS:			

NATURAL RUBBER			
DATE:	ENTRY	DELIVERIES	
TONS DEL PREVIOUSLY:		B L #	NET TONS
TONS DEL TODAY:			
TONS DEL TO DATE:			
TONS USED PREVIOUSLY:	45.277		
TONS USED TODAY:	7.118		
TONS USED TO DATE:	52.395		
TONS ON HAND:			
COMMENTS:			
TOTAL TONS:			

A/R BLEND			
DATE:	ENTRY	DELIVERIES	
TONS DEL PREVIOUSLY:	1091.69	B L #	NET TONS
TONS DEL TODAY:	184	33	39
TONS DEL TO DATE:	1275.69	34	35
TONS USED PREVIOUSLY:	1002.91	35	35
TONS USED TODAY:	197.71	36	40
TONS USED TO DATE:	1200.62	37	35
TONS ON HAND:	75.07		
COMMENTS:			
TOTAL TONS:			

TOTAL BLEND:	
TOTAL BLEND USED BY METER:	197.83
TOTAL BLEND USED BY STRAP:	197.71
DAILY TONS OF MIX PRODUCED:	2988.08
DAILY AC PERCENTAGE:	9.0%

ADDITIONAL NOTES: 40 TONS WASTE

**CONSTRUCTION, INC.**  
 115 S. 48th St. • Tempe, AZ 85281

DATE: 8-15-03 AGENCY: CALTRANS AGENCY #: \_\_\_\_\_ FNF JOB #: 842

T. RUBBER SUPPLIER: CRM TYPE: Scrap Tire %RUBBER: \_\_\_\_\_  
 ASPHALT SUPPLIER: \_\_\_\_\_ TYPE: AP-1000 % OIL: \_\_\_\_\_

NATURAL RUBBER SUPPLIER: CRM TYPE: High Natural %RUBBER: \_\_\_\_\_  
 MODIFIER SUPPLIER: SAN TONG TYPE: 194-60-120 HCB % OIL: \_\_\_\_\_

TYPE II BINDER ASPHALT RUBBER PRODUCTION DATA											
BLEND #	START TIME	END TIME	OIL TEMP	TONS ASPHALT	TONS MODIFIER	TONS TIRE RUBBER	TONS NATL. RUBBER	TONS BLENDED	% TOTAL RUBBER	TEMP	VISCOSITY
23	8:00	9:00	400	5.98	.82	5.534	1.656	40	18%	375	3900
24	10:00	10:45	400	27.83	.710	4.251	1.449	35	18%	375	2700
25	11:45	12:30	400	26.225	.675	4.62	1.38	33	18%	325	3500

ASPHALT			
DATE:	ENTRY	DELIVERIES	
TONS DEL PREVIOUSLY:		B L #	NET TONS
TONS DEL TODAY:			
TOND DEL TO DATE:			
TONS USED PREVIOUSLY:	583.103		
TONS USED TODAY:	54.308		
TONS USED TO DATE:	637.411		
TONS ON HAND:			
COMMENTS:			
		TOTAL TONS:	

MODIFIER			
DATE:	ENTRY	DELIVERIES	
TONS DEL PREVIOUSLY:		B L #	NET TONS
TONS DEL TODAY:			
TOND DEL TO DATE:			
TONS USED PREVIOUSLY:	14.947		
TONS USED TODAY:	2.212		
TONS USED TO DATE:	17.159		
TONS ON HAND:			
COMMENTS:			
		TOTAL TONS:	

TIRE RUBBER			
DATE:	ENTRY	DELIVERIES	
TONS DEL PREVIOUSLY:		B L #	NET TONS
TONS DEL TODAY:			
TOND DEL TO DATE:			
TONS USED PREVIOUSLY:	101.364		
TONS USED TODAY:	15.015		
TONS USED TO DATE:	116.379		
TONS ON HAND:			
COMMENTS:			
		TOTAL TONS:	

NATURAL RUBBER			
DATE:	ENTRY	DELIVERIES	
TONS DEL PREVIOUSLY:		B L #	NET TONS
TONS DEL TODAY:			
TOND DEL TO DATE:			
TONS USED PREVIOUSLY:	30.276		
TONS USED TODAY:	4.485		
TONS USED TO DATE:	34.761		
TONS ON HAND:			
COMMENTS:			
		TOTAL TONS:	

A / R BLEND			
DATE:	ENTRY	DELIVERIES	
TONS DEL PREVIOUSLY:	729.69	B L #	NET TONS
TONS DEL TODAY:	108	25	40
TOND DEL TO DATE:	837.69	24	35
TONS USED PREVIOUSLY:	646.21	25	33
TONS USED TODAY:	183.17		
TONS USED TO DATE:	829.38		
TONS ON HAND:	8.31		
COMMENTS:			
		TOTAL TONS:	

TOTAL BLEND:	
TOTAL BLEND USED BY METER:	183.5
TOTAL BLEND USED BY STRAP:	183.17
DAILY TONS OF MIX PRODUCED:	2724.46
DAILY AC PERCENTAGE:	7.0%

ADDITIONAL NOTES:  
60 TONS WASTE

115 S. 48th St. • Tempe, AZ 85281

DATE: 8-14-05 AGENCY: CALTRANS AGENCY #: FNF JOB #: 842

RUBBER SUPPLIER: CRM TYPE: Scriptac %RUBBER:  
 ASPHALT SUPPLIER: TYPE: AR-4000 % OIL:  
 NATURAL RUBBER SUPPLIER: CRM TYPE: High Natural %RUBBER:  
 MODIFIER SUPPLIER: San Joaquin Petro TYPE: Latex 100 ACB % OIL:

TYPE II BINDER ASPHALT RUBBER PRODUCTION DATA											
BLEND #	START TIME	END TIME	OIL TEMP	TONS ASPHALT	TONS MODIFIER	TONS TIRE RUBBER	TONS NATL. RUBBER	TONS BLENDED	% TOTAL RUBBER	TEMP	VISCOSITY
18	8:45	9:15	400	27.983	1.717	4.851	1.449	35	18%	375°	3800
19	10:15	10:45	400	27.983	1.717	4.851	1.449	35	18%	375°	2500
20	11:45	12:15	400	27.983	1.717	4.851	1.449	35	18%	375°	3100
21	1:15	1:45	400	27.983	1.717	4.851	1.449	35	18%	375°	3400
22	3:00		400	31.98	1.82	5.544	1.656	40	18%	375°	2700

ASPHALT			
DATE:	ENTRY	DELIVERIES	
TONS DEL PREVIOUSLY:		B L #	NET TONS
TONS DEL TODAY:			
TOND DEL TO DATE:			
TONS USED PREVIOUSLY:	439.191		
TONS USED TODAY:	143.912		
TONS USED TO DATE:	583.103		
TONS ON HAND:			
COMMENTS:			
TOTAL TONS:			

MODIFIER			
DATE:	ENTRY	DELIVERIES	
TONS DEL PREVIOUSLY:		B L #	NET TONS
TONS DEL TODAY:			
TOND DEL TO DATE:			
TONS USED PREVIOUSLY:	11.259		
TONS USED TODAY:	3.688		
TONS USED TO DATE:	14.947		
TONS ON HAND:			
COMMENTS:			
TOTAL TONS:			

TIRE RUBBER			
DATE:	ENTRY	DELIVERIES	
TONS DEL PREVIOUSLY:		B L #	NET TONS
TONS DEL TODAY:			
TOND DEL TO DATE:			
TONS USED PREVIOUSLY:	76.416		
TONS USED TODAY:	24.948		
TONS USED TO DATE:	101.364		
TONS ON HAND:			
COMMENTS:			
TOTAL TONS:			

NATURAL RUBBER			
DATE:	ENTRY	DELIVERIES	
TONS DEL PREVIOUSLY:		B L #	NET TONS
TONS DEL TODAY:			
TOND DEL TO DATE:			
TONS USED PREVIOUSLY:	22.824		
TONS USED TODAY:	7.452		
TONS USED TO DATE:	30.276		
TONS ON HAND:			
COMMENTS:			
TOTAL TONS:			

A/R BLEND			
DATE:	ENTRY	DELIVERIES	
TONS DEL PREVIOUSLY:		B L #	NET TONS
TONS DEL TODAY:	180	18	35
TOND DEL TO DATE:	329.69	19	35
TONS USED PREVIOUSLY:	438.38	20	35
TONS USED TODAY:	187.63	21	35
TONS USED TO DATE:	646.21	22	40
TONS ON HAND:	83.48		
COMMENTS:			
TOTAL TONS:			

TOTAL BLEND:	
TOTAL BLEND USED BY METER:	187.96
TOTAL BLEND USED BY STRAP:	187.63
DAILY TONS OF MIX PRODUCED:	2846.86
DAILY AC PERCENTAGE:	70%

ADDITIONAL NOTES: 25 TONS WASTE

115 S. 48th St. • Tempe, AZ 85281

DATE: 8-13-03 AGENCY: CALTRANS AGENCY #: FNF JOB #: 842

RUBBER SUPPLIER: CRILL TYPE: SigaFire %RUBBER:  
 ASPHALT SUPPLIER: TYPE: AR-4000 %OIL:  
 NATURAL RUBBER SUPPLIER: CPM TYPE: High Natural %RUBBER:  
 MODIFIER SUPPLIER: Tricor Polymers TYPE: Rattex 120 %OIL:

TYPE II BINDER ASPHALT RUBBER PRODUCTION DATA											
BLEND #	START TIME	END TIME	OIL TEMP	TONS ASPHALT	TONS MODIFIER	TONS TIRE RUBBER	TONS NATL. RUBBER	TONS BLENDED	% TOTAL RUBBER	TEMP	VISCOSITY
13	8:30	9:00	400°	27.983	.717	4.851	1.449	35	19%	375°	3200
14	10:30	11:00	400°	27.983	.717	4.851	1.449	35	18%	375°	2800
15	12:00	12:30	400°	27.983	.717	4.851	1.449	35	18%	375°	3300
16	1:30	2:00	400°	27.983	.717	4.851	1.449	35	18%	375°	2500
17	3:30	4:00	400°	19.987	.513	3.465	1.035	25	18%	375°	2800

ASPHALT			
DATE:	ENTRY	DELIVERIES	
TONS DEL PREVIOUSLY:		B L #	NET TONS
TONS DEL TODAY:			
TONS DEL TO DATE:			
TONS USED PREVIOUSLY:	307.572		
TONS USED TODAY:	131.919		
TONS USED TO DATE:	439.491		
TONS ON HAND:			
COMMENTS:			
TOTAL TONS:			

MODIFIER			
DATE:	ENTRY	DELIVERIES	
TONS DEL PREVIOUSLY:		B L #	NET TONS
TONS DEL TODAY:			
TONS DEL TO DATE:			
TONS USED PREVIOUSLY:	7.878		
TONS USED TODAY:	3.381		
TONS USED TO DATE:	11.259		
TONS ON HAND:			
COMMENTS:			
TOTAL TONS:			

TIRE RUBBER			
DATE:	ENTRY	DELIVERIES	
TONS DEL PREVIOUSLY:		B L #	NET TONS
TONS DEL TODAY:			
TONS DEL TO DATE:			
TONS USED PREVIOUSLY:	53.547		
TONS USED TODAY:	22.869		
TONS USED TO DATE:	76.416		
TONS ON HAND:			
COMMENTS:			
TOTAL TONS:			

NATURAL RUBBER			
DATE:	ENTRY	DELIVERIES	
TONS DEL PREVIOUSLY:		B L #	NET TONS
TONS DEL TODAY:			
TONS DEL TO DATE:			
TONS USED PREVIOUSLY:	15.993		
TONS USED TODAY:	6.831		
TONS USED TO DATE:	22.824		
TONS ON HAND:			
COMMENTS:			
TOTAL TONS:			

A/R BLEND			
DATE:	ENTRY	DELIVERIES	
TONS DEL PREVIOUSLY:		B L #	NET TONS
TONS DEL TODAY:	165		
TONS DEL TO DATE:	549.69		
TONS USED PREVIOUSLY:	277.4		
TONS USED TODAY:	161.18		
TONS USED TO DATE:	438.58		
TONS ON HAND:	91.11		
COMMENTS:			
TOTAL TONS:			

TOTAL BLEND:	
TOTAL BLEND USED BY METER:	163.40
TOTAL BLEND USED BY STRAP:	161.18
DAILY TONS OF MIX PRODUCED:	2350.65
DAILY AC PERCENTAGE:	7.1%

ADDITIONAL NOTES:  
 Down ran out of Diesel 20 min  
 Drain hose wire on cable to unloading pump.  
 70 TONS WASTE  
 Blend # 12 VISC - 2800

**CONSTRUCTION, INC.**  
 115 S. 48th St. • Tempe, AZ 85281

DATE: 8-12-03 AGENCY: CALTRANS AGENCY #: 06-343534 FNF JOB #: 842

RE RUBBER SUPPLIER: CRAI TYPE: Scrap tire %RUBBER:  
 ASPHALT SUPPLIER: TYPE: AM-4000 % OIL:  
 NATURAL RUBBER SUPPLIER: CRAI TYPE: High Natural %RUBBER:  
 MODIFIER SUPPLIER: Ticor Retinon TYPE: Meter 120 % OIL:

TYPE II BINDER ASPHALT RUBBER PRODUCTION DATA											
BLEND #	START TIME	END TIME	OIL TEMP	TONS ASPHALT	TONS MODIFIER	TONS TIRE RUBBER	TONS NATL. RUBBER	TONS BLENDED	% TOTAL RUBBER	TEMP	VISCOSITY
8	6:00	6:30	400°	15.99	.41	2.772	.828	20	17.2%	375°	2500
9	8:30	9:00	400°	25.925	.615	4.158	1.242	30	18%	375°	3200
10	10:00	10:30	400°	21.587	.553	3.742	1.118	27	17%	375°	2800
11	11:30	12:00	400°	23.985	.615	4.158	1.242	30	18%	375°	3200
12	1:00	1:30	400°	28.782	.738	4.99	1.49	36	18%	375°	2800

ASPHALT			
DATE:	ENTRY	DELIVERIES	
TONS DEL PREVIOUSLY:		B L #	NET TONS
TONS DEL TODAY:			
TONS DEL TO DATE:			
TONS USED PREVIOUSLY:	192.943		
TONS USED TODAY:	114.329		
TONS USED TO DATE:	307.272		
TONS ON HAND:			
COMMENTS:			
		TOTAL TONS:	

MODIFIER			
DATE:	ENTRY	DELIVERIES	
TONS DEL PREVIOUSLY:		B L #	NET TONS
TONS DEL TODAY:			
TONS DEL TO DATE:			
TONS USED PREVIOUSLY:	4.947		
TONS USED TODAY:	2.931		
TONS USED TO DATE:	7.878		
TONS ON HAND:			
COMMENTS:			
		TOTAL TONS:	

TIRE RUBBER			
DATE:	ENTRY	DELIVERIES	
TONS DEL PREVIOUSLY:		B L #	NET TONS
TONS DEL TODAY:			
TONS DEL TO DATE:			
TONS USED PREVIOUSLY:	73.727		
TONS USED TODAY:	17.82		
TONS USED TO DATE:	53.547		
TONS ON HAND:			
COMMENTS:			
		TOTAL TONS:	

NATURAL RUBBER			
DATE:	ENTRY	DELIVERIES	
TONS DEL PREVIOUSLY:		B L #	NET TONS
TONS DEL TODAY:			
TONS DEL TO DATE:			
TONS USED PREVIOUSLY:	10.073		
TONS USED TODAY:	5.72		
TONS USED TO DATE:	15.793		
TONS ON HAND:			
COMMENTS:			
		TOTAL TONS:	

A/R BLEND			
DATE:	ENTRY	DELIVERIES	
TONS DEL PREVIOUSLY:	241.69	B L #	NET TONS
TONS DEL TODAY:	143	8	20
TONS DEL TO DATE:	384.67	9	30
TONS USED PREVIOUSLY:	162.19	10	27
TONS USED TODAY:	135.21	11	30
TONS USED TO DATE:	297.4	12	36
TONS ON HAND:	87.29		
COMMENTS:			
		TOTAL TONS:	

TOTAL BLEND:	
TOTAL BLEND USED BY METER:	135.75
TOTAL BLEND USED BY STRAP:	135.21
DAILY TONS OF MIX PRODUCED:	1985.45
DAILY AC PERCENTAGE:	7.2%

ADDITIONAL NOTES:  
Ordered 2500 only ran 1985.  
25 TONS WASTE

**FNF CONSTRUCTION, INC.**  
 115 S. 48th St. • Tempe, AZ 85281

DATE: 8-11-03 AGENCY: CALTRANS AGENCY #: 06-743534 FNF JOB #: 842

TIRE RUBBER SUPPLIER: CRM TYPE: Scrap tire %RUBBER:  
 ASPHALT SUPPLIER: TYPE: AP-4000 % OIL:  
 NATURAL RUBBER SUPPLIER: CRM TYPE: High Natural %RUBBER:  
 MODIFIER SUPPLIER: Tricot Refining TYPE: Reflex 120 % OIL:

TYPE II BINDER ASPHALT RUBBER PRODUCTION DATA											
BLEND #	START TIME	END TIME	OIL TEMP	TONS ASPHALT	TONS MODIFIER	TONS TIRE RUBBER	TONS NATL. RUBBER	TONS BLENDED	% TOTAL RUBBER	TEMP	VISCOSITY
3	3:30	4:30	400°	39.975	1.025	6.93	2.07	50			
4	5:00	6:45	400°	28.782	.738	4.97	1.47	36			
5	9:00	10:00	400°	27.993	.717	4.851	1.449	35			
6	11:00	12:00	400°	31.98	.82	5.544	1.656	40			
7	1:00	2:00	400°	35.977	.923	6.237	1.863	45			

ASPHALT			
DATE:	ENTRY	DELIVERIES	
TONS DEL PREVIOUSLY:		B L #	NET TONS
TONS DEL TODAY:			
TOND DEL TO DATE:			
TONS USED PREVIOUSLY:	79.246		
TONS USED TODAY:	164.697		
TONS USED TO DATE:	182.943		
TONS ON HAND:			
COMMENTS:			
TOTAL TONS:			

MODIFIER			
DATE:	ENTRY	DELIVERIES	
TONS DEL PREVIOUSLY:		B L #	NET TONS
TONS DEL TODAY:			
TOND DEL TO DATE:			
TONS USED PREVIOUSLY:	7.24		
TONS USED TODAY:	4.223		
TONS USED TO DATE:	4.947		
TONS ON HAND:			
COMMENTS:			
TOTAL TONS:			

TIRE RUBBER			
DATE:	ENTRY	DELIVERIES	
TONS DEL PREVIOUSLY:		B L #	NET TONS
TONS DEL TODAY:			
TOND DEL TO DATE:			
TONS USED PREVIOUSLY:	5.175		
TONS USED TODAY:	28.552		
TONS USED TO DATE:	33.727		
TONS ON HAND:			
COMMENTS:			
TOTAL TONS:			

NATURAL RUBBER			
DATE:	ENTRY	DELIVERIES	
TONS DEL PREVIOUSLY:		B L #	NET TONS
TONS DEL TODAY:			
TOND DEL TO DATE:			
TONS USED PREVIOUSLY:	1.545		
TONS USED TODAY:	8.528		
TONS USED TO DATE:	10.073		
TONS ON HAND:			
COMMENTS:			
TOTAL TONS:			

A/R BLEND			
DATE:	ENTRY	DELIVERIES	
TONS DEL PREVIOUSLY:	35.69	B L #	NET TONS
TONS DEL TODAY:	206	3	50
TOND DEL TO DATE:	241.69	4	36
TONS USED PREVIOUSLY:	22.65	5	35
TONS USED TODAY:	139.54	6	40
TONS USED TO DATE:	162.19	7	45
TONS ON HAND:	79.5		
COMMENTS:	22.65 used for Acating		
TOTAL TONS:			

TOTAL BLEND:	
TOTAL BLEND USED BY METER:	
TOTAL BLEND USED BY STRAP:	139.54
DAILY TONS OF MIX PRODUCED:	1996.14
DAILY AC PERCENTAGE:	6.95% Wet / 7.24% Dry

ADDITIONAL NOTES: 70 TONS WASTE