Docket No. SA-534

Exhibit No. 2-AX

NATIONAL TRANSPORTATION SAFETY BOARD

Washington, D.C.

EXCERPTS OF PG&E
ECDA RECORDS

(34 Pages)

IMA_NAME	ROUTE	EGMENT N	GAGMAPID	MP1	MP2	W_THICK	OD	MOP	SMYS_MOP	OAT TYP	YR_INSTALL	FOOTAGE	ASSESE	FAC TYPE	TRANS DEI	HCA_ID	ASMT_PLAN	LST_ASMT	IMP ZON	2009HC	[illegible]	IC THR	SCC THRE	Manuf Th	CONST	TP THR	IO THR	[illegible]	_Thr
132 0.00	132	160.01	205113741	22.598	22.637	-0.281	24.000	375	-35.6	HAA	1/1/1947	256	3	LT	T	A5	E16	E09	322	19.8	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	160.05	205113743	22.637	22.760	-0.281	24.000	375	-35.6	HAA	1/1/1947	649	3	LT	T	A5	E16	E09	322	18.6	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	160.08	205113745	22.760	22.827	-0.281	24.000	375	-36.6	HAA	1/1/1947	354	3	LT	T	A5	E16	E09	322	18.8	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	160.07	205113746	22.827	22.910	-0.281	24.000	375	-35.6	HAA	1/1/1947	439	3	LT	T	I5	E16	E09	322	18.8	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	160.1	205103020	22.910	22.960	0.312	24.000	375	34.3	TAPE	1/1/1967	357	3	LT	T	I5	E16	E09	322	15.5	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	160.2	205103021	22.960	23.000	-0.281	24.000	375	-35.6	HAA	1/1/1947	106 .	3	LT	T	I5	E16	E09	322	19.0	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	160.7	205113736	23.000	23.425	-0.281	24.000	375	-35.6	HAA	1/1/1947	2284	3	LT	T	B5	E16	E09	322	24.7	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	161.6	205113734	23.841	24.109	-0.281	24.000	376	-35.6	HAA	1/1/1947	1717	3	LT	T	A5	E16	E09	322	19.9	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	161.7	205113732	24.189	24.235	-0.281	24.000	375	-35.6	HAA	1/1/1947	349	3	LT	T	A5	E16	E09	322	19.9	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	169.05	205163506	29.086	29.179	0.313	30.000	375	34.6	TAPE	1/1/1971	480	3	LT	T	I5	E14		402	31.2	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	169.1	205110368	29.170	29.226	0.313	30.000	375	34.0	TAPE	1/1/1971	240	3	LT	T	I5	E14	E07	402	22.6	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	169.3	205111520	29.226	29.370	0.313	30.000	375	34.0	TAPE	1/1/1971	746	3	LT	T	I5	E16	E09	402	15.0	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	170	205113729	29.370	30.344	0.375	30.000	375	28.6	HAA	1/1/1948	6069	3	LT	T	B5	E11	E04	402	18.6	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	171	205113728	30.566	30.960	0.375	30.000	375	28.6	HAA	1/1/1948	1544	3	LT	T	A5	E16	E03	402	26.6	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	171.01	205117941	30.960	31.005	0.375	30.000	375	28.6	HAA	1/1/1948	243	3	LT	T	A5	E11	E07	402	25.6	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	171.03	205117944	31.112	31.157	0.376	30.000	376	28.6	HAA	1/1/1948	237	3	LT	T	A5	E16	E09	402	26.6	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	171.04	205111507	31.157	31.662	0.375	30.000	376	28.8	HAA	1/1/1948	2029	3	LT	T	A5	E16	E09	402	26.6	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	171.05	205117945	31.652	31.731	0.375	30.000	376	28.6	HAA	1/1/1946	423	3	LT	T	A5	E11	E07	402	18.6	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	171.25	205145467	32.740	32.920	0.375	30.000	376	28.0	HAA	1/1/1946	900	3	LT	T	I9	E13		402	20.5	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	171.6	205102184	32.920	33.000	0.313	36.000	376	41.5	HAA	1/1/1967	419	3	LT	T	I9	E13		482	23.8	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	171.3	205102183	32.920	32.920	0.313	30.000	375	34.6	HAA	1/1/1967	3	3	LT	T	I9	E13		402	20.0	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	172	205145464	33.000	33.147	0.313	36.000	375	41.5	HAA	1/1/1967	776	3	LT	T	I9	E13		482	23.8	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	172.2	205113726	33.482	33.570	0.313	36.000	375	41.5	HAA	1/1/1967	407	3	LT	T	I5	E14	E07	482	14.7	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	172.3	205102179	33.570	33.571	0.313	30.000	376	34.6	HAA	1/1/1967	6	3	LT	T	I5	E14	E07	402	12.0	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	173	205113723	33.571	33.888	0.375	30.000	375	28.8	HAA	1/1/1948	1083	3	LT	T	I5	E14	E07	402	18.6	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	173.2	205128891	33.888	33.979	0.375	30.000	375	28.8	HAA	1/1/1948	479	3	LT	T	I8	E14	E07	402	23.5	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	176.06	205117948	34.556	34.636	0.376	30.000	375	28.8	HAA	1/1/1946	423	3	LT	T	A5	E16	E09	402	17.4	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	176.1	205113722	34.636	35.030	0.375	30.000	375	28.6	HAA	1/1/1946	2096	3	LT	T	A5	E16	E09	402	17.4	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	176.15	205117949	35.030	35.111	0.375	30.000	375	28.8	HAA	1/1/1946	430	3	LT	T	A5	E14	E07	402	10.6	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	178.02	205113791	37.416	37.672	0.313	36.000	376	41.5	HAA	1/1/1964	1507	3	LT	T	I5	E14	E07	402	14.7	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	178.04	205117952	37.708	37.700	0.313	36.000	375	41.5	HAA	1/1/1964	530	3	LT	T	A5	E14	E07	402	14.7	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	178.06	205111516	37.700	38.300	0.313	36.000	375	41.5	HAA	1/1/1964	3404	3	LT	T	B5	E16	E09	482	21.3	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	178.2	205102499	38.390	38.360	0.313	24.000	375	24.0	TAPE	1/1/1995	25	3	LT	T	I5	E16	E09	322	10.0	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	178.3	205102498	38.390	38.400	0.500	30.000	375	18.8	TAPE	1/1/1995	31	3	LT	T	I5	E16	E09	402	10.1	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	178.1	205102500	38.300	38.300	0.647	36.000	375	20.0	TAPE	1/1/1995	4	3	LT	T	I5	E10	E09	482	9.3	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	178.4	205102504	38.400	38.400	0.500	24.000	375	15.0	TAPE	1/1/1995	19	3	LT	T	I5	E10	E09	322	8.8	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	178.5	205151396	38.400	38.408	0.500	24.000	375	15.0	TAPE	1/1/1995	27	3	LT	T	I5	E10	E09	322	8.8	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	178.55	205151397	38.406	38.680	0.500	24.000	375	15.0	TAPE	1/1/1995	1252	3	LT	T	I5	E16	E09	322	8.8	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	178.6	205102501	38.680	38.930	0.313	24.000	375	24.0	TAPE	1/1/1995	1316	3	LT	T	I5	E16	E09	322	10.0	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	178.7	205101825	38.930	38.931	0.376	30.000	375	25.0	TAPE	1/1/1995	5	3	LT	T	I5	E10	E09	402	10.4	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	179.3	205101191	38.931	38.098	0.313	30.000	375	34.6	HAA	1/1/1981	354	3	LT	T	I5	E10	E09	402	18.8	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	179.6	205101823	38.098	39.038	0.313	30.000	375	34.6	HAA	1/1/1981	211	3	LT	T	I5	E16	E09	402	18.8	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	180	205101824	39.040	39.370	0.375	30.000	375	35.7	HAA	1/1/1956	1742	3	LT	T	B5	E10	E09	402	19.5	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	181	205101800	39.370	39.490	0.375	30.000	375	28.8	HAA	1/1/1946	610	3	LT	T	A5	E10	E09	402	17.4	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	181.2	205101818	39.490	39.490	0.375	30.000	375	25.0	TAPE	1/1/1995	6	3	LT	T	A5	E16	E09	402	10.4	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	181.3	205101815	39.490	39.500	0.500	24.000	375	15.0	TAPE	1/1/1995	28	3	LT	T	A5	E16	E09	322	8.8	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	181.4	205101820	39.500	39.530	0.500	24.000	375	15.0	TAPE	1/1/1995	517	3	LT	T	A5	E16	E09	322	8.8	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	181.5	205101821	39.530	39.540	0.500	24.000	375	15.0	TAPE	1/1/1995	33	3	LT	T	A5	C16	E09	322	8.8	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	181.8	205101816	39.540	39.580	0.375	30.000	375	28.8	HAA	1/1/1948	200	3	LT	T	A5	E16	E09	402	17.4	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	181.6	205101817	39.540	39.540	0.375	30.000	376	28.8	TAPE	1/1/1995	6	3	LT	T	A5	E16	E09	402	10.4	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	182.3	205101801	39.580	39.650	0.375	30.000	375	28.6	HAA	1/1/1964	360	3	LT	T	A5	E16	E09	402	17.7	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	182.6	205101802	39.650	39.720	0.375	30.000	375	28.8	HAA	1/1/1948	367	3	LT	T	A5	E16	E09	402	17.7	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	182.9	205101803	39.720	39.850	0.375	30.000	375	28.8	HAA	1/1/1948	681	3	LT	T	A5	E16	E09	402	17.7	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	183	205101804	39.850	40.000	0.375	30.000	375	28.8	HAA	1/1/1948	769	3	LT	T	B5	E16	E09	402	17.7	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	183.3	205153546	40.000	40.046	0.375	30.000	376	28.8	HAA	1/1/1948	236	3	LT	T	B5	E16	E09	402	17.7	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	183.4	205153547	40.045	40.080	0.375	30.000	376	28.6	HAA	1/1/1948	186	3	LT	T	B5	E16	E09	402	17.7	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	183.6	205101806	40.080	40.090	0.360	30.000	375	25.0	TAPE	1/1/1969	22	3	LT	T	B5	E16	E09	402	14.0	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	184	205101807	40.090	40.580	0.360	36.000	376	31.3	TAPE	1/1/1969	2014	3	LT	T	A5	E16	E09	482	10.7	Yes	No	No	No	No,	Yes	Yes	Yes	No
132 0.00	132	184.3	205101808	40.580	40.660	0.360	36.000	375	38.1	TAPE	1/1/1969	417	3	LT	T	A5	E16	E09	482	14.1	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	184.6	205101809	40.660	40.690	0.406	36.000	375	32.0	TAPE	1/1/1969	148	3	LT	T	A5	E16	E09	482	14.1	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	184.9	205101810	40.690	40.770	0.360	36.000	375	36.1	TAPE	1/1/1969	437	3	LT	T	A5	E16	E09	482	14.1	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	185	205101812	40.770	41.470	0.375	30.000	375	28.8	HAA	1/1/1948	4262	3	LT	T	B5	E16	E09	402	23.6	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	185.2	205101811	40.770	40.770	0.360	30.000	375	30.0	TAPE	1/1/1969	11	3	LT	T	A5	E16	E09	402	13.6	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	187	205101813	41.470	41.580	0.313	30.000	375	34.6	HAA	1/1/1961	681	3	LT	T	B5	E16	E09	402	23.7	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	188	205101814	41.580	41.590	0.375	30.000	375	28.8	HAA	1/1/1948	80	3	LT	T	B5	E16	E09	402	22.7	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	188.2	205101079	41.590	42.120	0.375	30.000	375	28.6	HAA	1/1/1948	2773	3	LT	T	B5	E10	E09	402	26.6	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	188.1	205101080	41.590	41.590	0.376	30.000	375	-28.8	HAA	7/11/1975	19	3	LT	T	B5	E16	E09	402	20.9	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	188.3	205101795	42.120	42.130	0.313	30.000	375	34.6	TAPE	1/1/1970	60	3	LT	T	I5	E16	E09	402	25.4	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	189	205101796	42.130	43.550	0.375	30.000	375	28.8	HAA	1/1/1948	7461	3	LT	T	B5	E10	E09	402	33.7	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	189.3	205101797	43.550	43.590	0.375	30.000	375	42.9	HAA	1/1/1953	212	3	LT	T	A5	E16	E09	402	26.5	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	189.6	205101798	43.590	43.607	0.375	30.000	375	42.9	HAA	1/1/1953	92	3	LT	T	A5	E16	E09	402	26.5	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	189.7	205151409	43.607	43.610	-0.375	30.000	375	-42.9		1/1/1989	12	3	LT	T	A5	E16	E09 .	402	25.8	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	189.75	205151410	43.610	43.613	-0.375	30.000	375	-42.9		1/1/1989	18	3	LT	T	A5	E10	E09	402	25.8	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	189.8	205101982	43.613	43.630	0.375	30.000	376	42.0	HAA	1/1/1953	89	3	LT	T	A5	E16	E09	402	28.5	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	189.9	205101799	43.630	43.640	0.313	30.000	375	34.8	HAA	1/1/1960	61	3	LT	T	A5	E16	E09	402	23.7	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	191	205113719	43.640	43.748	0.375	30.000	375	28.8	HAA	1/1/1948	570	3	LT	T	A5	E16	E09	402	22.4	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	193	205102081	45.080	45.230	0.375	30.000	375	28.8	HAA	1/1/1948	787	3	LT	T	I5	E16	E09	402	29.9	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	194	205120838	45.230	45.280	0.313	30.000	375	34.6	HAA	1/1/1968	261	3	LT	T	I5	E16	E09	402	30.0	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	194.1	205120839	45.280	45.430	0.313	30.000	375	34.6	HAA	1/1/1968	783	3	LT	T	I5	E16	E09	402	33.0	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	194.5	205113715	45.430	45.522	0.375	30.000	375	28.8	HAA	1/1/1948	482	3	LT	T	I6	E16	E09	402	37.4	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	195	205153993	45.522	45.899	0.375	30.000	375	28.8	HAA	1/1/1948	926	3	LT	T	A5	E14		402	43.5	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	195.2	205117854	45.790	45.810	0.375	30.000	375	28.8	HAA	1/1/1948	105	3	LT	T	A5	E16	E09	402	22.4	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	195.3	205113713	45.810	45.845	0.375	30.000	375	28.8	HAA	1/1/1967	185	3	LT	T	A5	E16	E09	402	16.8	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	195.6	205113714	45.845	45.880	0.375	30.000	375	28.8	HAA	1/1/1967	184	3	LT	T	A5	E16	E09	402	26.8	Yes	No	No	No	No	Yes	Yes	Yes	No
132 0.00	132	196	205102078	45.880	46.000	0.375	30.000	375	28.8	HAA	1/1/1948	537	3	LT	T	I5	E16	E09	402	32.4	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	197	205102079	46.000	46.590	0.375	30.000	375	28.8	HAA	1/1/1948	3104	3	LT	T	I5	E16	E09	402	29.1	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	197.5	205151419	46.590	46.606	0.313	24.000	145	21.1	HAA	1/1/1948	86	3	LT	T	I5	E16	E09	200	22.0	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	197.3	205102013	46.590	46.590	-0.281	24.000	375	-45.8	HAA	1/1/1948	21	3	LT	T	I5	E16	E09	322	25.6	Yes	No	No	Yes	No	Yes	Yes	Yes	No
132 0.00	132	197.7	205151420	46.606	46.770	0.313	24.000	145	21.1	HAA	1/1/1948	880	3	LT	T	I5	E16	E09	200	22.0	Yes	No	No	Yes	No	Yes	Yes	Yes	No

FORM A: DATA ELEMENT CHECK SHEET

DATE: 12/3/08
STARTING MILE POINT: VARIOUS, SEE ATTACHED MATRIX
ENDING MILE POINT: VARIOUS, SEE ATTACHED MATRIX

ROUTE NUMBER: VARIOUS ROUTES IN NSEG 132 (2008)
PM: MIKE WEST

		Requirements				Data Location						
ID #	Data Element Description	Need[1]	InspectionTool[2]	Region Selection[2]	Interpretation Analysis[2]	GIS	As-built Job file	Field	Districts or Division	Other	Sign Off	Comments
1.1	Material and Grade	R	C	C	R	X	X				ALG	ND – Not Determined

ROUTE	MP1	MP2	SMYS
8807-01	0.47	2.20	-33,000-42,000
8807-01	2.43	3.12	-33,000
X6430	0.00	0.01	42,000, -35,000
DFDS3628	0.01	0.01	35,000-42,000
132	49.92	51.53	33,000-60,000
X6437	51.50	51.50	-24,000
0805-01	1.17	2.26	-33,000-52,000
0805-01	0.00	0.82	35,000-65,000
0805-01	1.09	1.10	-33,000-52,000
132	4.35	7.45	33,000-42,000
132	7.72	13.95	-24,000-62,000
132A	0	1.45	35,000-52,000
8805-03	0.00	0.54	35,000-42,000
8807-01	0.08	0.23	-33,000- 60,000
DCUST1423	0.21	0.34	-25,000
DF3373	0.00	0.00	-24,000
DF3374	8.54	8.54	35,000
DF8209	0.00	0.00	35,000
DFDS3626	0.00	0.00	-35,000
DREG4731	0.00	0.00	24,000
DREG4733	0.00	0.00	24,000
DREG4734	0.00	0.00	24,000
DREG4735	8.23	8.23	-24,000
DREG4736	0.00	0.00	-25,000
DREG4737	0.00	0.03	35,000
GCUST5813	0.00	1.41	42,000
GCUST5814	0.00	0.06	-35,000
STUB6142	0.00	0.00	-33,000
X6431	10.39	10.39	-24,000
132	13.95	15.82	42,000-45,000
132	16.49	16.77	45,000
132	17.12	17.28	45,000
132	17.32	17.89	45,000
132	18.07	20.00	42,000-45,000
132	22.59	24.25	45,000-65,000
132	29.23	29.37	52,000
132	30.50	31.01	52,000
132	31.11	31.65	52,000
132	34.30	35.03	52,000
132	37.80	43.75	35,000-60,000
132	45.08	45.52	52,000
132	45.79	46.77	33,000-52,000
147	0.55	3.57	-33,000-60,000
DCUST1426	0.00	0.07	-24,000
DF3375	0.00	0.00	-24,000
DF3376	0.00	0.00	42,000
DFDS3628	0.01	0.01	

Form D: Indirect Inspection Tool Selection

DATE: 10/16/2008
STARTING MILE POINT: VARIOUS, SEE ATTACHED MATRIX
ENDING MILE POINT: VARIOUS, SEE ATTACHED MATRIX

N-SEGMENT" L132
ROUTE NUMBER: VARIOUS ROUTES IN NSEG L132
PM: BOB FASSETT

Nseg	Route	Pipe Segment Number	ECDA MP Start**	ECDA MP Stop**	Boundary Marking Type	Footage	1st IIT	2nd IIT	3rd IIT	ECDA Region Number (Form E)	Coating Type (* = assumed coating)	Comments
L-132	132	178.05	37.799	38.390	Soil	3464	CIS	DCVG	PCM	1	HAA	
L-132	132	178.1	38.39	38.39	Soil	4	CIS	DCVG	PCM	2	TAPE	
L-132	132	178.2	38.39	38.39	Soil	25	CIS	DCVG	PCM	2	TAPE	
L-132	132	178.3	38.39	38.40	Soil	31	CIS	DCVG	PCM	2	TAPE	
L-132	132	178.4	38.40	38.40	Soil	19	CIS	DCVG	PCM	2	TAPE	
L-132	132	178.5	38.40	38.68	Soil+AC	1279	CIS	PCM		2	TAPE	
L-132	132	178.5C	38.4289	38.4469	Casing	72	CET	A-FRAME		3	TAPE	HWY 35 Xing
L-132	132	178.6	38.68	38.93	AC	1316	CIS	PCM		2	TAPE	
L-132	132	178.7	38.74	38.93	AC	5	CIS	PCM		2	TAPE	
L-132	132	179.3	38.93	39	AC	354	CIS	PCM		1	HAA	
L-132	132	179.6	39	39.04	AC	211	CIS	PCM		1	HAA	
L-132	132	180	39.04	39.37	Concrete	1742	CIS	PCM		1	HAA	
L-132	132	181	39.37	3949	AC	610	CIS	PCM		1	HAA	
L-132	132	181.2	39.49	39.49	AC	6	CIS	PCM		2	TAPE	
L-132	132	181.3	39.49	39.5	AC	28	CIS	PCM		2	TAPE	
L-132	132	181.4	39.5	39.53	AC	517	CIS	PCM		2	TAPE	
L-132	132	181.5	39.53	39.54	AC	33	CIS	PCM		2	TAPE	
L-132	132	181.6	39.54	39.54	AC	6	CIS	PCM		2	TAPE	
L-132	132	181.8	39.54	39.58	Soil	200	CIS	DCVG	PCM	1	HAA	
L-132	132	182.3	39.58	39.65	Soil+AC	360	CIS	PCM		1	HAA	
L-132	132	182.6	39.65	39.72	Soil	367	CIS	DCVG	PCM	1	HAA	
L-132	132	182.9	39.72	39.85	Soil	681	CIS	DCVG	PCM	1	HAA	
L-132	132	183	39.85	40	Soil	769	CIS	DCVG	PCM	1	HAA	
L-132	132	183.3	40	40.08	Soil	422	CIS	DCVG	PCM	1	HAA	
L-132	132	183.6	40.08	40.09	Soil	22	CIS	DCVG	PCM	2	TAPE	
L-132	132	184	40.09	40.58	AC	2614	CIS	PCM		2	TAPE	
L-132	132	184.3	40.58	40.66	AC	417	CIS	PCM		2	TAPE	
L-132	132	184.6	40.66	40.69	AC	148	CIS	PCM		2	TAPE	
L-132	132	184.9	40.69	40.77	AC	437	CIS	PCM		2	TAPE	
L-132	DF3375	101	0	0	Soil	10					NA	
L-132	DF3376	103	0	0	Soil	12	CIS	DCVG	PCM	1	HAA	
L-132	DREG4749	101	0	0	Soil	20	CIS	DCVG	PCM	1	HAA	
L-132	DREG4749	102	0	0	Soil	41	CIS	DCVG	PCM	1	HAA	
L-132	X6435	100	0	0	Soil	31					NA	
L-132	132	186	40.77	41.47	Soil+AC	4262	CIS	PCM		1	HAA	
L-132	132	186C	40.84	40.86	Casing	93	CET	A-FRAME		3	HAA	Road Xing
L-132	132	187	41.47	41.58	AC	581	CIS	DCVG	PCM	1	HAA	
L-132	132	188	41.58	41.59	AC	80	CIS	DCVG	PCM	1	HAA	
L-132	132	188.1	41.59	41.59	AC	19	CIS	DCVG	PCM	1	HAA	
L-132	132	188.2	41.59	42.12	Soil+AC	2773	CIS	DCVG	PCM	1	HAA	
L-132	132	188.2C	42.76	41.78	Casing	96	CET	A-FRAME		3	HAA	HWY 82 Xing
L-132	132	188.3	42.12	42.13	Soil	60	CIS	DCVG	PCM	2	TAPE	
L-132	132	188.3C	42.09	42.10	Casing	40	CET	A-FRAME		3	TAPE	Abandoned RR Xing

Form D: Indirect Inspection Tool Selection

DATE: 10/16/2008
STARTING MILE POINT: VARIOUS, SEE ATTACHED MATRIX
ENDING MILE POINT: VARIOUS, SEE ATTACHED MATRIX

N-SEGMENT" L132
ROUTE NUMBER: VARIOUS ROUTES IN NSEG L132
PM: BOB FASSETT

Nseg	Route	Pipe Segment Number	ECDA MP Start**	ECDA MP Stop**	Boundary Marking Type	Footage	1st IIT	2nd IIT	3rd IIT	ECDA Region Number (Form E)	Coating Type (* = assumed coating)	Comments
L-132	132	178.05	37.799	38.390	Soil	3464	CIS	DCVG	PCM	1	HAA	
L-132	132	178.1	38.39	38.39	Soil	4	CIS	DCVG	PCM	2	TAPE	
L-132	132	178.2	38.39	38.39	Soil	25	CIS	DCVG	PCM	2	TAPE	
L-132	132	178.3	38.39	38.40	Soil	31	CIS	DCVG	PCM	2	TAPE	
L-132	132	178.4	38.40	38.40	Soil	19	CIS	DCVG	PCM	2	TAPE	
L-132	132	178.5	38.40	38.68	Soil+AC	1279	CIS	PCM		2	TAPE	
L-132	132	178.5C	38.4289	38.4469	Casing	72	CET	A-FRAME		3	TAPE	HWY 35 Xing
L-132	132	178.6	38.68	38.93	AC	1316	CIS	PCM		2	TAPE	
L-132	132	178.7	38.74	38.93	AC	5	CIS	PCM		2	TAPE	
L-132	132	179.3	38.93	39	AC	354	CIS	PCM		1	HAA	
L-132	132	179.6	39	39.04	AC	211	CIS	PCM		1	HAA	
L-132	132	180	39.04	39.37	Concrete	1742	CIS	PCM		1	HAA	
L-132	132	181	39.37	3949	AC	610	CIS	PCM		1	HAA	
L-132	132	181.2	39.49	39.49	AC	6	CIS	PCM		2	TAPE	
L-132	132	181.3	39.49	39.5	AC	28	CIS	PCM		2	TAPE	
L-132	132	181.4	39.5	39.53	AC	517	CIS	PCM		2	TAPE	
L-132	132	181.5	39.53	39.54	AC	33	CIS	PCM		2	TAPE	
L-132	132	181.6	39.54	39.54	AC	6	CIS	PCM		2	TAPE	
L-132	132	181.8	39.54	39.58	Soil	200	CIS	DCVG	PCM	1	HAA	
L-132	132	182.3	39.58	39.65	Soil+AC	360	CIS	PCM		1	HAA	
L-132	132	182.6	39.65	39.72	Soil	367	CIS	DCVG	PCM	1	HAA	
L-132	132	182.9	39.72	39.85	Soil	681	CIS	DCVG	PCM	1	HAA	
L-132	132	183	39.85	40	Soil	769	CIS	DCVG	PCM	1	HAA	
L-132	132	183.3	40	40.08	Soil	422	CIS	DCVG	PCM	1	HAA	
L-132	132	183.6	40.08	40.09	Soil	22	CIS	DCVG	PCM	2	TAPE	
L-132	132	184	40.09	40.58	AC	2614	CIS	PCM		2	TAPE	
L-132	132	184.3	40.58	40.66	AC	417	CIS	PCM		2	TAPE	
L-132	132	184.6	40.66	40.69	AC	148	CIS	PCM		2	TAPE	
L-132	132	184.9	40.69	40.77	AC	437	CIS	PCM		2	TAPE	
L-132	DF3375	101	0	0	Soil	10					NA	
L-132	DF3376	103	0	0	Soil	12	CIS	DCVG	PCM	1	HAA	
L-132	DREG4749	101	0	0	Soil	20	CIS	DCVG	PCM	1	HAA	
L-132	DREG4749	102	0	0	Soil	41	CIS	DCVG	PCM	1	HAA	
L-132	X6435	100	0	0	Soil	31					NA	
L-132	132	186	40.77	41.47	Soil+AC	4262	CIS	PCM		1	HAA	
L-132	132	186C	40.84	40.86	Casing	93	CET	A-FRAME		3	HAA	Road Xing
L-132	132	187	41.47	41.58	AC	581	CIS	DCVG	PCM	1	HAA	
L-132	132	188	41.58	41.59	AC	80	CIS	DCVG	PCM	1	HAA	
L-132	132	188.1	41.59	41.59	AC	19	CIS	DCVG	PCM	1	HAA	
L-132	132	188.2	41.59	42.12	Soil+AC	2773	CIS	DCVG	PCM	1	HAA	
L-132	132	188.2C	42.76	41.78	Casing	96	CET	A-FRAME		3	HAA	HWY 82 Xing
L-132	132	188.3	42.12	42.13	Soil	60	CIS	DCVG	PCM	2	TAPE	
L-132	132	188.3C	42.09	42.10	Casing	40	CET	A-FRAME		3	TAPE	Abandoned RR Xing

Attach. .t 2

"Inspection Records Summary"

Nseg L-132-2008

TYPE	LINE	M.P.	DATE	COVER in.	EXPOSED ft.	COATING	CONDITION	SOIL	RUST/PIT	CAUSE	REPAIR
ECDA Inspection	132	22.7238	12/08/05	53	9.7	HAA	FAIR	Clay/Rock	NONE	Root intrusion at pipe bend	Recoat with Protal 7200
ECDA Inspection	132	23.4166	09/27/05	24	14.6	HAA	POOR	Wet Clay	Ext.Pitting/24 Non-SCC indications were found	Disbonded and missing mainline coating	Recoat with Powercrete J
ECDA Inspection	132	38.7542	02/16/04	48	10	Plastic Tape	FAIR	Sandy/Clay	NONE	Disbonding coating at the overlaps	Recoat with Wax Tape
ECDA Inspection	132	38.7993	02/16/04	48	10	Plastic Tape	FAIR	Sandy/Clay	NONE	Disbonding repair patches	Recoat with Wax Tape
ECDA Inspection	132	38.9287	03/01/05	60	10	Plastic Tape	FAIR	Sandy/Clay	Ext. Pitting	Disbonding repair patches	Recoat with Wax Tape
ECDA Inspection	132	40.1021	02/08/05	48	10	HAA	FAIR	Sandy/clay	NONE	Root intrusion	Recoat with Powercrete J
ECDA Inspection	132	42.1247	04/05/04	84 - 132	20	HAA	FAIR	—	NONE	—	Recoat with Powercrete J
ECDA Inspection	132	42.2839	04/05/04	48	10	HAA	FAIR	—	Minor Ext. Pitting	Disbonded and brittle double wrap coating	Recoat with Powercrete J
ECDA Inspection	132	42.8539	04/18/04	48	10	HAA	FAIR	—	NONE	Disbonded and brittle double wrap coating	Recoat with Powercrete J
ECDA Inspection	132	42.8858	04/10/04	48	10	HAA	FAIR	—	Minor Ext. Pitting	Disbonded and brittle double wrap coating	Recoat with Powercrete J
ECDA Inspection	132	45.2386	04/05/04	132	10	HAA	FAIR	—	NONE	Disbonded and brittle double wrap coating	Recoat with Powercrete J
ECDA Inspection	132	46.4497	04/24/04	84	10	HAA	FAIR	—	NONE	Disbonded and brittle double wrap coating	Recoat with Powercrete J
ECDA Inspection	132	46.4746	04/28/04	60	10	HAA	FAIR	—	NONE	Brittle mainline coating	Recoat with Powercrete J
ECDA Inspection	132	2.4577	10/03/04	48	10	HAA	FAIR	—	Minor Ext. Pitting	Coating is disbonded and blistered	Recoat with Powercrete J
ECDA Inspection	132	2.4685	10/04/04	48	10	HAA	FAIR	—	Minor Ext. Pitting	Coating is disbonded and blistered	Recoat with Powercrete J
ECDA Inspection	132	2.2642	11/16/04	40	10	HAA	FAIR	—	NONE	Coating is disbonded and blistered	Recoat with Powercrete J
ECDA Inspection	132	2.3714	03/08/06	48	12	Plastic Tape	FAIR	Sandy/Clay	NONE	Coating is wrinkled	Recoat with Protal 7200
ECDA Inspection	132	—	06/02/06	51	9	HAA	FAIR	—	Pits within girth weld	Disbonded coating with no adhesion	Recoat with Protal 7200
ECDA Inspection	132	0.3908	05/01/07	18	10.3	HAA	FAIR	Clay	No corrosion noted over 20%	Water intrusion under mainline coating	Recoat with Protal 7200
ECDA Inspection	132	0.0942	04/22/07	36	17.4	Plastic Tape	FAIR	Clay/Loam	Minor Surface Rust	Thin film paint with rust occurring through it	Recoat with Protal 7200

FORM A: DATA ELEMENT CHECK SHEET

DATE: 12/3/08
STARTING MILE POINT: VARIOUS, SEE ATTACHED MATRIX
ENDING MILE POINT: VARIOUS, SEE ATTACHED MATRIX

ROUTE NUMBER: VARIOUS ROUTES IN NSEG 132 (2008)
PM: MIKE WEST

		Requirements				Data Location						
ID #	Data Element Description	Need[1]	InspectionTool[2]	Region Selection[2]	Interpretation Analysis[2]	GIS	As-built Job file	Field	Districts or Division	Other	Sign Off	Comments
1.2	Diameter	R	C	N/R	R	X	X				ALG	ND – Not Determined

ROUTE	MP1	MP2	OD
8807-01	0.47	2.20	20,24,30
8807-01	2.43	3.12	20,30
X6430	0.00	0.01	6.6, 16
DFDS3625	0.01	0.01	10.75
132	49.92	51.53	24,30
X6437	51.50	51.50	16
0805-01	1.17	2.26	20,30
0805-01	0.00	0.82	6.625, 20, 24
0805-01	1.09	1.10	16,20
132	4.35	7.45	24, 30
132	7.72	13.95	24,30
132A	0	1.45	12.75,16, 24, 30
8805-03	0.00	0.54	10.75-16
8807-01	0.08	0.23	16, 20
DCUST1423	0.21	0.34	2.375
DF3373	0.00	0.00	3.5
DF3374	8.54	8.54	12.75
DF8209	0.00	0.00	4.5
DFDS3626	0.00	0.00	6.625
DREG4731	0.00	0.00	2.375
DREG4733	0.00	0.00	3.5
DREG4734	0.00	0.00	3.5
DREG4735	8.23	8.23	2.375
DREG4736	0.00	0.00	3.5
DREG4737	0.00	0.03	2.375
GCUST5813	0.00	1.41	6.625, 10.75
GCUST5814	0.00	0.06	4.5, 6.6
STUB6142	0.00	0.00	-24
X6431	10.39	10.39	16
132	13.95	15.82	24, 30
132	16.49	16.77	24
132	17.12	17.28	24
132	17.32	17.89	24
132	18.07	20.00	24,30
132	22.59	24.25	24
132	29.23	29.37	30
132	30.50	31.01	30
132	31.11	31.65	30
132	34.30	35.02	30, 36
132	37.80	43.75	4.5, 6.625, 16, 24, 30, 36
132	45.08	45.32	30
132	45.79	46.77	24,30
147	0.55	3.57	20,24
DCUST1426	0.00	0.07	2.375
DF3375	0.00	0.00	16

FORM A: DATA ELEMENT CHECK SHEET

DATE: 12/3/08
STARTING MILE POINT: VARIOUS, SEE ATTACHED MATRIX
ENDING MILE POINT: VARIOUS, SEE ATTACHED MATRIX

ROUTE NUMBER: VARIOUS ROUTES IN NSEG 132 (2008)
PM: MIKE WEST

		Requirements				Data Location						
ID #	Data Element Description	Need[1]	Inspection Tool[2]	Region Selection[2]	Interpretation Analysis[2]	GIS	As-built Job file	Field	Districts or Division	Other	Sign Off	Comments

ND – Not Determined

ROUTE	MP1	MP2	SMYS
DFDS3633	0.00	0.00	35,000
DREG4738	0.00	0.37	35,000
DREG4738	0.37	0.38	42,000
DREG4749	0.00	0.00	42,000
X6435	0.00	0.00	-24,000
132	0.00	0.78	60,000-65,000
132	1.00	4.35	-33,000-60,000
0805-01	2.26	2.37	42,000
0805-01	2.26	2.26	-33,000
0805-01	2.37	2.39	-33,000
DF3371	0.00	0.00	35,000
X6429	0.11	0.11	-33,000

FORM A: DATA ELEMENT CHECK SHEET

DATE: 12/3/08
STARTING MILE POINT: VARIOUS, SEE ATTACHED MATRIX
ENDING MILE POINT: VARIOUS, SEE ATTACHED MATRIX

ROUTE NUMBER: VARIOUS ROUTES IN NSEG 132 (2008)
PM: MIKE WEST

		Requirements				Data Location						
ID #	Data Element Description	Need[1]	Inspection Tool[2]	Region Selection[2]	Interpretation Analysis[2]	GIS	As-built Job file	Field	Districts or Division	Other	Sign Off	Comments
1.2	Diameter	R	C	N/R	R	X	X				ALG	ND – Not Determined

ROUTE	MP1	MP2	OD
8807-01	0.47	2.20	20,24,30
8807-01	2.43	3.12	20,30
X6430	0.00	0.01	6.6, 16
DFDS3628	0.01	0.01	10.75
132	49.92	51.53	24,30
X6437	51.50	51.50	16
0805-01	1.17	2.26	20,30
0805-01	0.00	0.82	6.625, 20, 24
0805-01	1.09	1.10	16,20
132	4.35	7.45	24, 30
132	7.72	13.95	24,30
132A	0	1.45	12.75,16, 24, 30
8805-03	0.00	0.54	10.75-16
8807-01	0.08	0.23	16, 20
DCUST1423	0.21	0.34	2.375
DF3373	0.00	0.00	3.5
DF3374	8.54	8.54	12.75
DF8209	0.00	0.00	4.5
DFDS3626	0.00	0.00	6.625
DREG4731	0.00	0.00	2.375
DREG4733	0.00	0.00	3.5
DREG4734	0.00	0.00	3.5
DREG4735	8.23	8.23	2.375
DREG4736	0.00	0.00	3.5
DREG4737	0.00	0.03	2.375
GCUST5813	0.00	1.41	6.625, 10.75
GCUST5814	0.00	0.06	4.5, 6.6
STUB6142	0.00	0.00	-24
X6431	10.39	10.39	16
132	13.95	15.82	24, 30
132	16.49	16.77	24
132	17.12	17.28	24
132	17.32	17.89	24
132	18.07	20.00	24,30
132	22.59	24.25	24
132	29.23	29.37	30
132	30.50	31.01	30
132	31.11	31.65	30
132	34.30	35.03	30, 36
132	37.80	43.75	4.5, 6.625, 16, 24, 30, 36
132	45.08	45.32	30
132	45.79	46.77	24,30
147	0.55	3.57	20,24
DCUST1426	0.00	0.07	2.375
DF3375	0.00	0.00	16

FORM A: DATA ELEMENT CHECK SHEET

DATE: 12/3/08
STARTING MILE POINT: VARIOUS, SEE ATTACHED MATRIX
ENDING MILE POINT: VARIOUS, SEE ATTACHED MATRIX

ROUTE NUMBER: VARIOUS ROUTES IN NSEG 132 (2008)
PM: MIKE WEST

		Requirements				Data Location						
ID #	Data Element Description	Need[1]	Inspection Tool[2]	Region Selection[2]	Interpretation Analysis[2]	GIS	As-built Job file	Field	Districts or Division	Other	Sign Off	Comments

ND – Not Determined

ROUTE	MP1	MP2	OD
DF3376	0.00	0.00	4.5
DFDS3628	0.01	0.01	10.75
DFDS3633	0.00	0.00	1.90
DREG4738	0.00	0.37	4.5
DREG4738	0.37	0.38	6.625
DREG4749	0.00	0.00	4.5
X6435	0.00	0.00	16
132	0.00	0.78	24
132	1.00	4.35	24, 30, 34
0805-01	2.26	2.37	34
0805-01	2.26	2.26	20
0805-01	2.37	2.39	20
DF3371	0.00	0.00	2.375, 4.5, 10.75
X6429	0.11	0.11	20

FORM A: DATA ELEMENT CHECK SHEET

DATE: 12/3/08
STARTING MILE POINT: VARIOUS, SEE ATTACHED MATRIX
ENDING MILE POINT: VARIOUS, SEE ATTACHED MATRIX

ROUTE NUMBER: VARIOUS ROUTES IN NSEG 132 (2008)
PM: MIKE WEST

		Requirements				Data Location						
ID #	Data Element Description	Need[1]	Inspection Tool[2]	Region Selection[2]	Interpretation Analysis[2]	GIS	As-built Job file	Field	Districts or Division	Other	Sign Off	Comments
1.3	Wall thickness	R	N/R	N/R	R	X	X				ALG	ND – Not Determined

ROUTE	MP1	MP2	WT
8807-01	0.47	2.20	-0.25-0.75
8807-01	2.43	3.12	-0.25
X6430	0.00	0.01	0.281-0.156
DFDS3628	0.01	0.01	0.219-0.50
132	49.92	51.53	0,219-0.3440
X6437	51.50	51.50	-0.219
0805-01	1.17	2.26	0.250-0.375
0805-01	0.00	0.82	0.230-0.375
0805-01	1.09	1.10	-0.25-0.375
132	4.35	7.45	0.281-0.3125
132	7.72	13.95	0.218-0.375
132A	0	1.45	0.25-0.375
8805-03	0.00	0.54	0.219, 0.25, 0.365
8807-01	0.08	0.23	-0.219 – 0.375
DCUST1423	0.21	0.34	-0.1410
DF3373	0.00	0.00	-0.141
DF3374	8.54	8.54	0.406
DF8209	0.00	0.00	-0.141-0.237
DFDS3626	0.00	0.00	-0.1560
DREG4731	0.00	0.00	-0.1410
DREG4733	0.00	0.00	-0.141
DREG4734	0.00	0.00	-0.141
DREG4735	8.23	8.23	-0.1410
DREG4736	0.00	0.00	-0.1410
DREG4737	0.00	0.03	0.154
GCUST3813	0.00	1.41	0.188, 0.219
GCUST3814	0.00	0.06	-0.1410-0.156
STUB6142	0.00	0.00	-0.281
X6421	10.39	10.39	0.25
132	13.95	15.82	-0.281-0.3125
132	16.49	16.77	-0.281
132	17.12	17.28	-0.281
132	17.32	17.89	-0.281
132	18.07	20.00	-0.281-0.344
132	22.59	24.25	-0.281-0.312
132	29.23	29.37	0.3125
132	30.50	31.01	0.375
132	31.11	31.65	0.375
132	34.30	35.03	0.3125-0.375
132	37.80	43.75	0.3125-0.4060
132	45.08	45.52	0.3125-0.375
132	45.79	46.77	-0.281-0.375
147	0.55	3.57	0.25-0.3125
DCUST1426	0.00	0.07	-0.141
DF3375	0.00	0.00	-0.219

FORM A: DATA ELEMENT CHECK SHEET

DATE: 12/3/08
STARTING MILE POINT: VARIOUS, SEE ATTACHED MATRIX
ENDING MILE POINT: VARIOUS, SEE ATTACHED MATRIX

ROUTE NUMBER: VARIOUS ROUTES IN NSEG 132 (2008)
PM: MIKE WEST

		Requirements				Data Location						
ID #	Data Element Description	Need[1]	InspectionTool[2]	Region Selection[2]	Interpretation Analysis[2]	GIS	As-built Job file	Field	Districts or Division	Other	Sign Off	Comments ND – Not Determined

ROUTE	MP1	MP2	OD
DF3376	0.00	0.00	4.5
DFDS3628	0.01	0.01	10.75
DFDS3633	0.00	0.00	1.90
DREG4738	0.00	0.37	4.5
DREG4738	0.37	0.38	6.625
DREG4749	0.00	0.00	4.5
X6435	0.00	0.00	16
132	0.00	0.78	24
132	1.00	4.35	24, 30, 34
0805-01	2.26	2.37	34
0805-01	2.26	2.26	20
0805-01	2.37	2.39	20
DF3371	0.00	0.00	2.375, 4.5, 10.75
X6429	0.11	0.11	20

FORM A: DATA ELEMENT CHECK SHEET

DATE: 12/3/08
STARTING MILE POINT: VARIOUS, SEE ATTACHED MATRIX
ENDING MILE POINT: VARIOUS, SEE ATTACHED MATRIX

ROUTE NUMBER: VARIOUS ROUTES IN NSEG 132 (2008)
PM: MIKE WEST

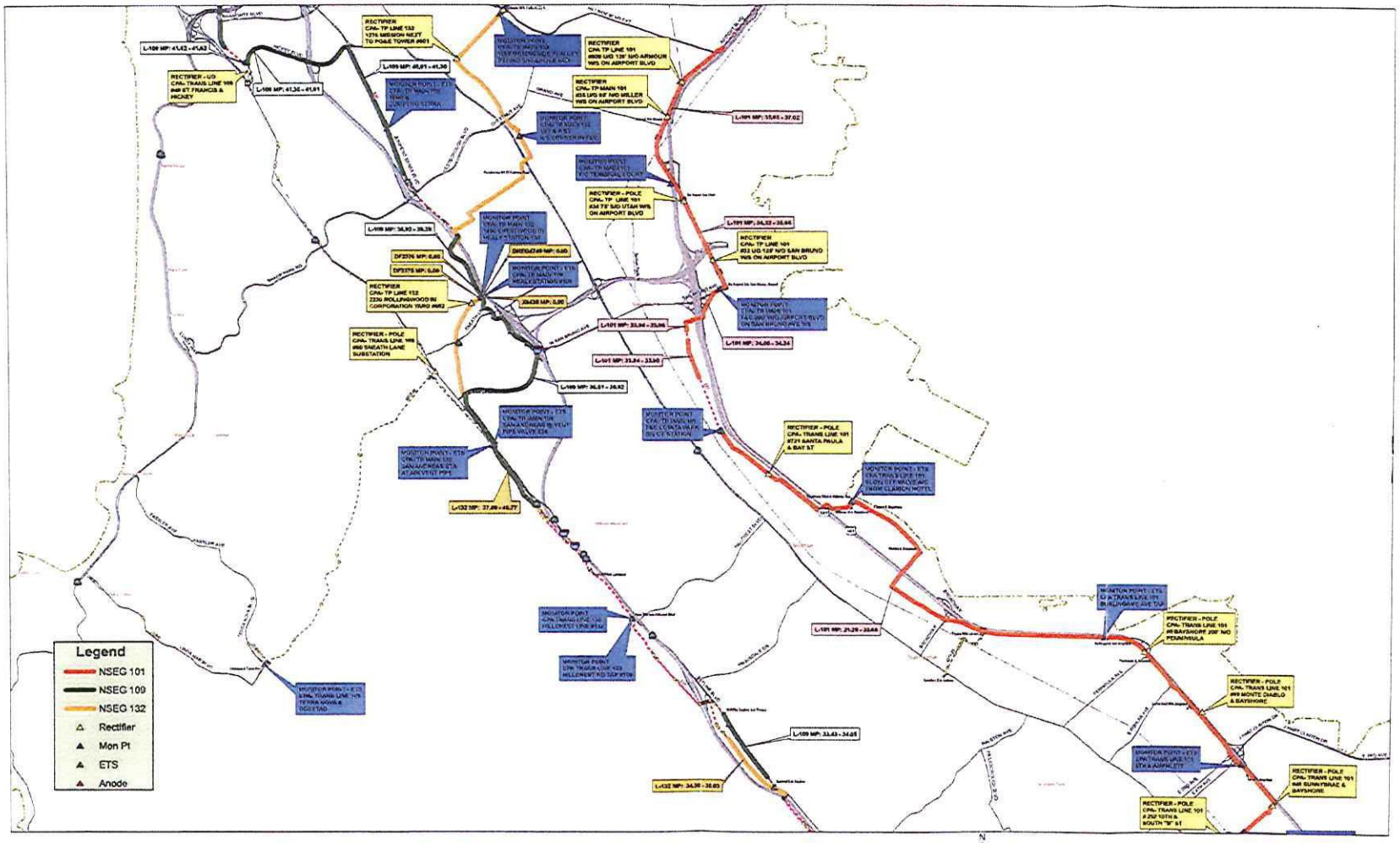
		Requirements				Data Location						
ID #	Data Element Description	Need[1]	InspectionTool[2]	Region Selection[2]	Interpretation Analysis[2]	GIS	As-built Job file	Field	Districts or Division	Other	Sign Off	Comments ND – Not Determined
1.3	Wall thickness	R	N/R	N/R	R	X	X				ALG	

ROUTE	MP1	MP2	WT
8807-01	0.47	2.20	-0.25-0.75
8807-01	2.43	3.12	-0.25
X6430	0.00	0.01	0.281-0.156
DFDS3628	0.01	0.01	0.219-0.50
132	49.92	51.53	0.219-0.3440
X6437	51.50	51.50	-0.219
0805-01	1.17	2.26	0.250-0.375
0805-01	0.00	0.82	0.230-0.375
0805-01	1.09	1.10	-0.25-0.375
132	4.35	7.45	0.281-0.3125
132	7.72	13.95	0.218-0.375
132A	0	1.45	0.25-0.375
8805-03	0.00	0.54	0.219, 0.25, 0.365
8807-01	0.08	0.23	-0.219 – 0.375
DCUST1423	0.21	0.34	-0.1410
DF3373	0.00	0.00	-0.141
DF3374	8.54	8.54	0.406
DF8209	0.00	0.00	-0.141-0.237
DFDS3626	0.00	0.00	-0.1560
DREG4731	0.00	0.00	-0.1410
DREG4733	0.00	0.00	-0.141
DREG4734	0.00	0.00	-0.141
DREG4735	8.23	8.23	-0.1410
DREG4736	0.00	0.00	-0.1410
DREG4737	0.00	0.03	0.154
GCUST5813	0.00	1.41	0.188, 0.219
GCUST5814	0.00	0.06	-0.1410-0.156
STUB6142	0.00	0.00	-0.281
X6431	10.39	10.39	0.25
132	13.96	15.82	-0.281-0.3125
132	16.49	16.77	-0.281
132	17.12	17.28	-0.281
132	17.32	17.89	-0.281
132	18.07	20.00	-0.281-0.344
132	22.59	24.25	-0.281-0.312
132	29.23	29.37	0.3125
132	30.56	31.01	0.375
132	31.30	31.65	0.375
132	34.30	35.03	0.3125-0.375
132	37.80	43.75	0.3125-0.4060
132	45.03	45.52	0.3125-0.375
132	45.79	46.77	-0.281-0.375
147	0.55	3.57	0.25-0.3125
DCUST1426	0.00	0.07	-0.141
DF3375	0.00	0.00	-0.219

"Inspection Records Summary"

Nseg L-132-2008

TYPE	LINE	M.P.	DATE	COVER in.	EXPOSED ft.	COATING	CONDITION	SOIL	RUST/PIT	CAUSE	REPAIR
ECDA Inspection	132	22.7238	12/08/05	53	9.7	HAA	FAIR	Clay/Rock	NONE	Root intrusion at pipe bend	Recoat with Protal 7200
ECDA Inspection	132	23.4166	09/27/05	24	14.6	HAA	POOR	Wet Clay	Ext.Pitting/24 Non-SCC indications were found	Disbonded and missing mainline coating	Recoat with Powercrete J
ECDA Inspection	132	38.7542	02/16/04	48	10	Plastic Tape	FAIR	Sandy/Clay	NONE	Disbonding coating at the overlaps	Recoat with Wax Tape
ECDA Inspection	132	38.7993	02/16/04	48	10	Plastic Tape	FAIR	Sandy/Clay	NONE	Disbonding repair patches	Recoat with Wax Tape
ECDA Inspection	132	38.9287	03/01/05	60	10	Plastic Tape	FAIR	Sandy/Clay	Ext. Pitting	Disbonding repair patches	Recoat with Wax Tape
ECDA Inspection	132	40.1021	02/08/05	48	10	HAA	FAIR	Sandy/clay	NONE	Root intrusion	Recoat with Powercrete J
ECDA Inspection	132	42.1247	04/05/04	84 - 132	20	HAA	FAIR	—	NONE	—	Recoat with Powercrete J
ECDA Inspection	132	42.2839	04/05/04	48	10	HAA	FAIR	—	Minor Ext. Pitting	Disbonded and brittle double wrap coating	Recoat with Powercrete J
ECDA Inspection	132	42.8539	04/18/04	48	10	HAA	FAIR	—	NONE	Disbonded and brittle double wrap coating	Recoat with Powercrete J
ECDA Inspection	132	42.8858	04/10/04	48	10	HAA	FAIR	—	Minor Ext. Pitting	Disbonded and brittle double wrap coating	Recoat with Powercrete J
ECDA Inspection	132	45.2386	04/05/04	132	10	HAA	FAIR	—	NONE	Disbonded and brittle double wrap coating	Recoat with Powercrete J
ECDA Inspection	132	46.4497	04/24/04	84	10	HAA	FAIR	—	NONE	Disbonded and brittle double wrap coating	Recoat with Powercrete J
ECDA Inspection	132	46.4746	04/28/04	60	10	HAA	FAIR	—	NONE	Brittle mainline coating	Recoat with Powercrete J
ECDA Inspection	132	2.4577	10/03/04	48	10	HAA	FAIR	—	Minor Ext. Pitting	Coating is disbonded and blistered	Recoat with Powercrete J
ECDA Inspection	132	2.4685	10/04/04	48	10	HAA	FAIR	—	Minor Ext. Pitting	Coating is disbonded and blistered	Recoat with Powercrete J
ECDA Inspection	132	2.2642	11/16/04	40	10	HAA	FAIR	—	NONE	Coating is disbonded and blistered	Recoat with Powercrete J
ECDA Inspection	132	2.3714	03/08/06	48	12	Plastic Tape	FAIR	Sandy/Clay	NONE	Coating is wrinkled	Recoat with Protal 7200
ECDA Inspection	132	—	06/02/06	51	9	HAA	FAIR	—	Pits within girth weld	Disbonded coating with no adhesion	Recoat with Protal 7200
ECDA Inspection	132	0.3908	05/01/07	18	10.3	HAA	FAIR	Clay	No corrosion noted over 20%	Water intrusion under mainline coating	Recoat with Protal 7200
ECDA Inspection	132	0.0942	04/22/07	36	17.4	Plastic Tape	FAIR	Clay/Loam	Minor Surface Rust	Thin film paint with rust occurring through it	Recoat with Protal 7200

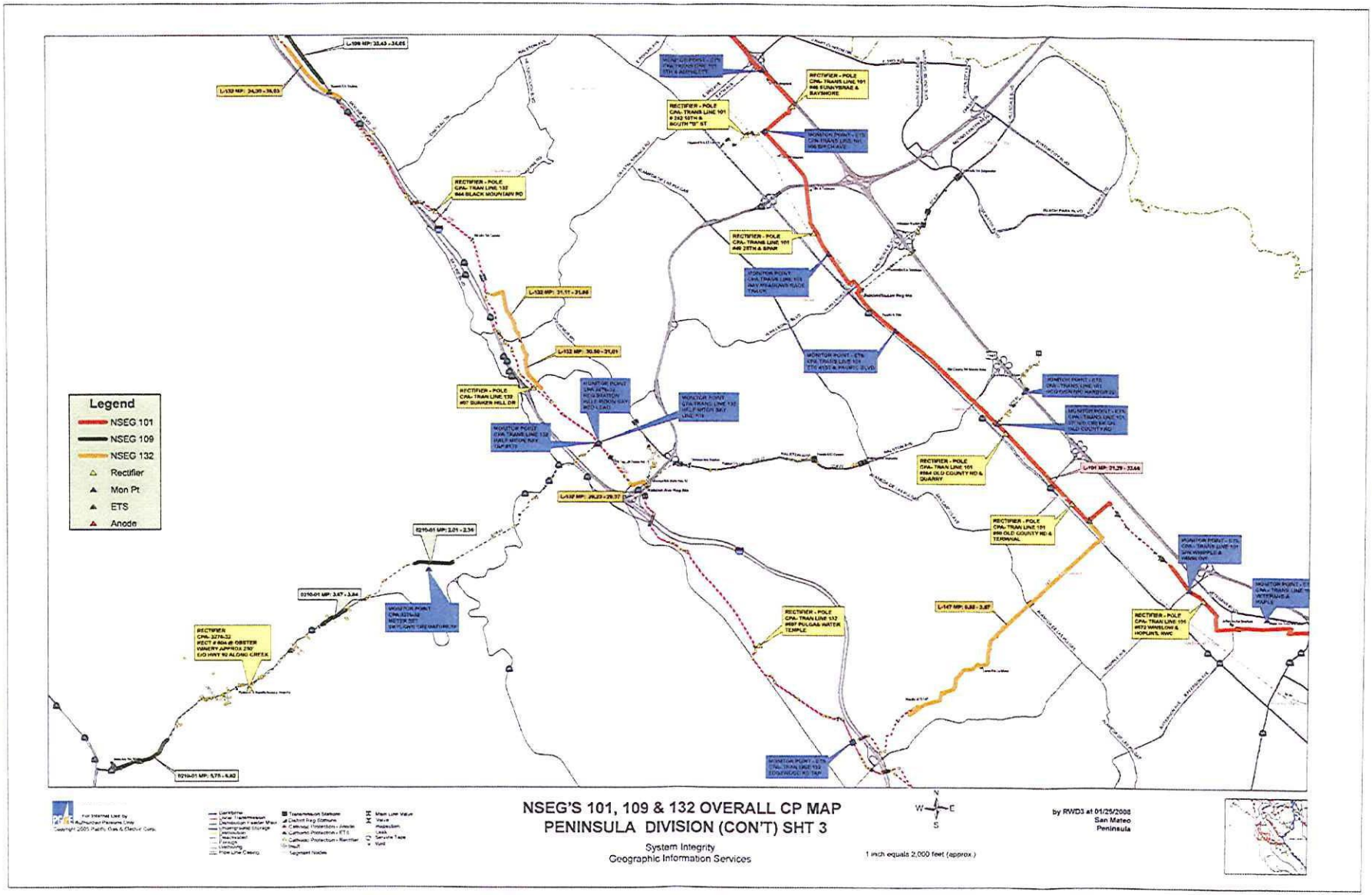


NSEG'S 101, 109 & 132 OVERALL CP MAP
PENINSULA DIVISION (CON'T) SHT 2

System Integrity
Geographic Information Services

1 inch equals 2,000 feet (approx.)

by RWD3 at 01/25/2008
San Mateo
Peninsula

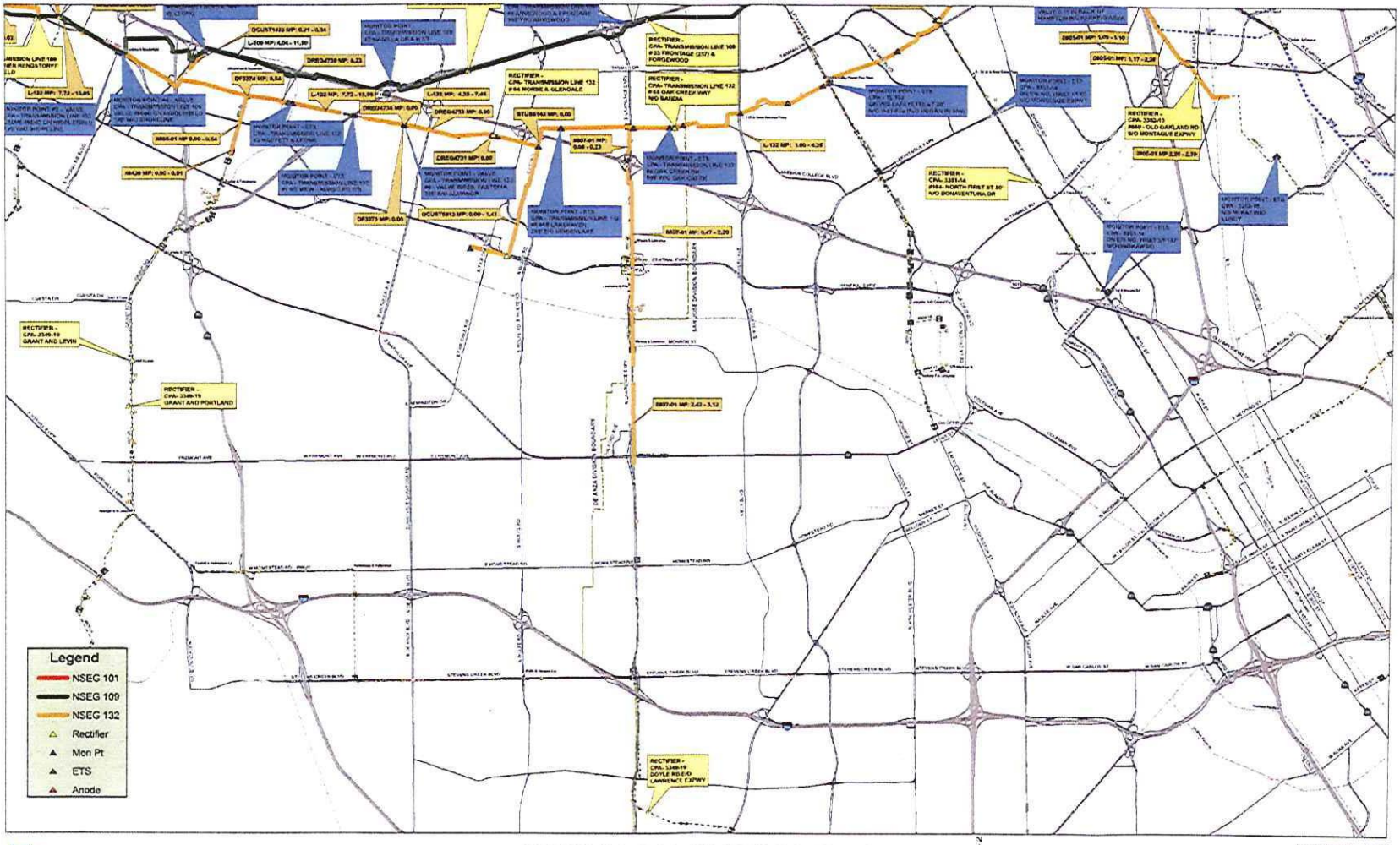


NSEG'S 101, 109 & 132 OVERALL CP MAP
PENINSULA DIVISION (CON'T) SHT 3

System Integrity
Geographic Information Services

1 inch equals 2,000 feet (approx.)

by RWD3 at 01/25/2008
San Mateo
Peninsula

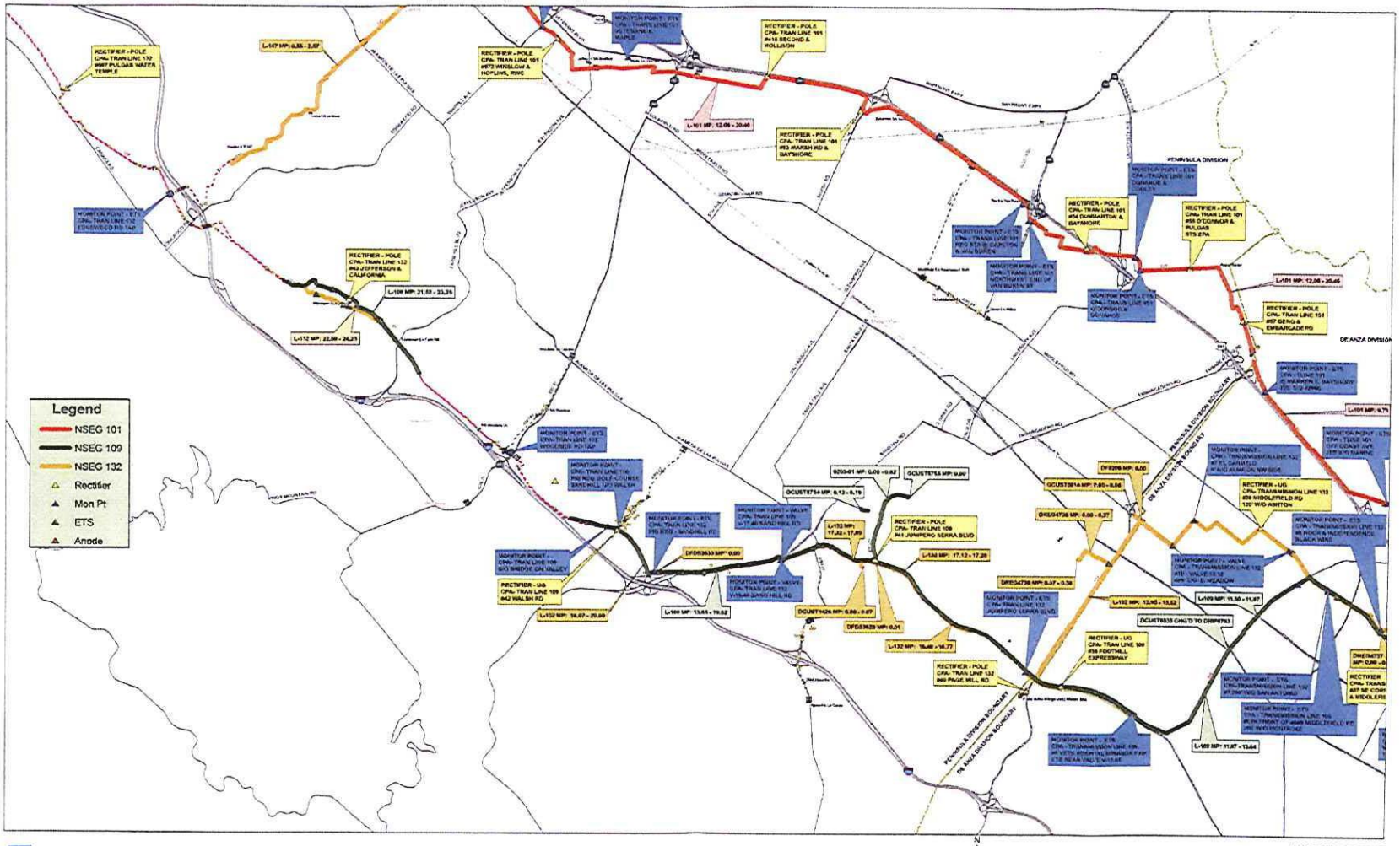


NSEG'S 101, 109 & 132 OVERALL CP MAP
SAN JOSE DIVISION SHT 6

System Integrity
Geographic Information Services

1 inch equals 2,000 feet (approx.)

by RWD3 at 01/25/2008
Santa Clara
San Jose

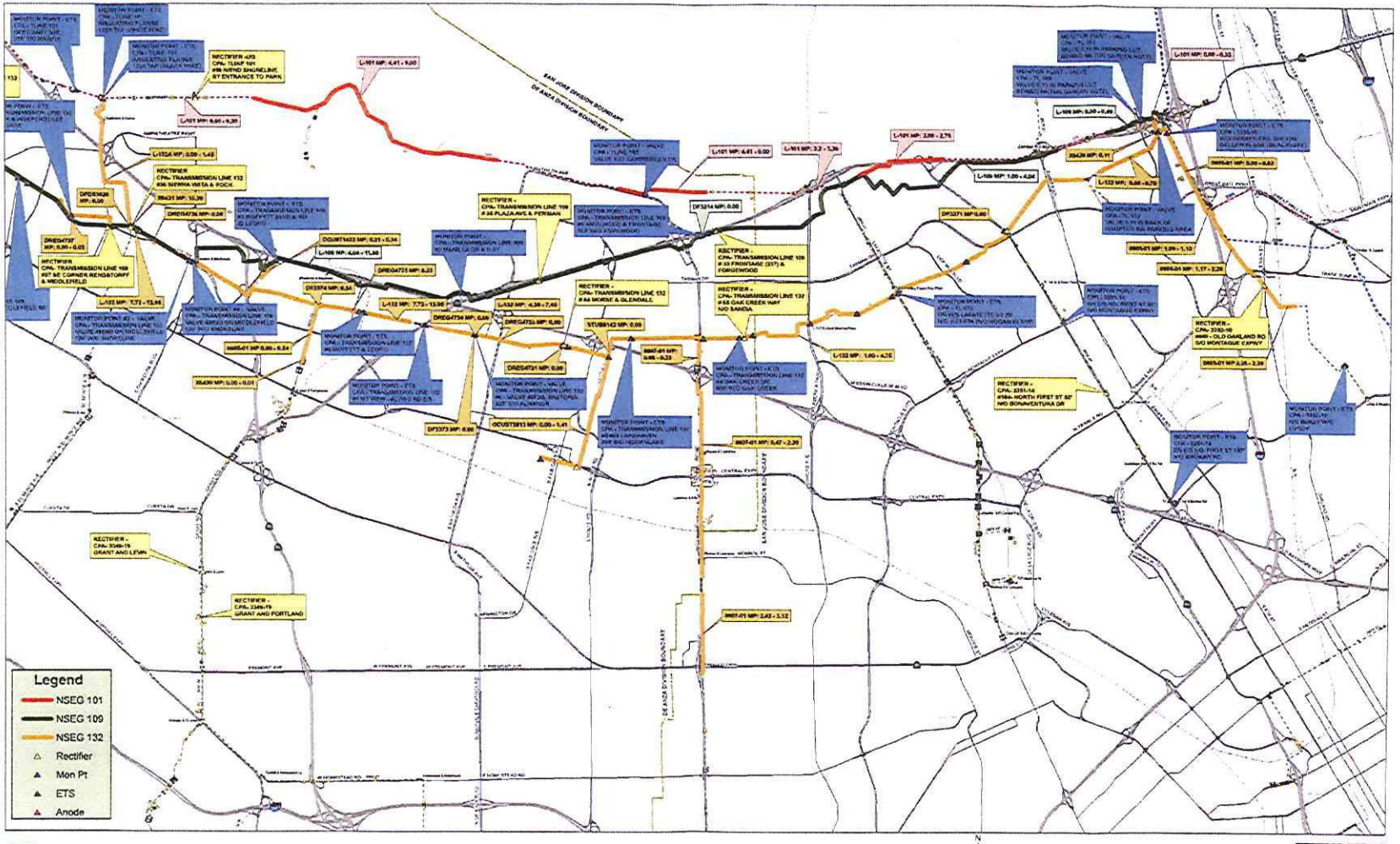


NSEG'S 101, 109 & 132 OVERALL CP MAP
PENINSULA DIVISION (CON'T) / PARTIAL DE ANZA DIVISION SHT 4

System Integrity
Geographic Information Services

1 inch equals 2,000 feet (approx.)

by RWD3 at 01/25/2008
Alameda
Peninsula

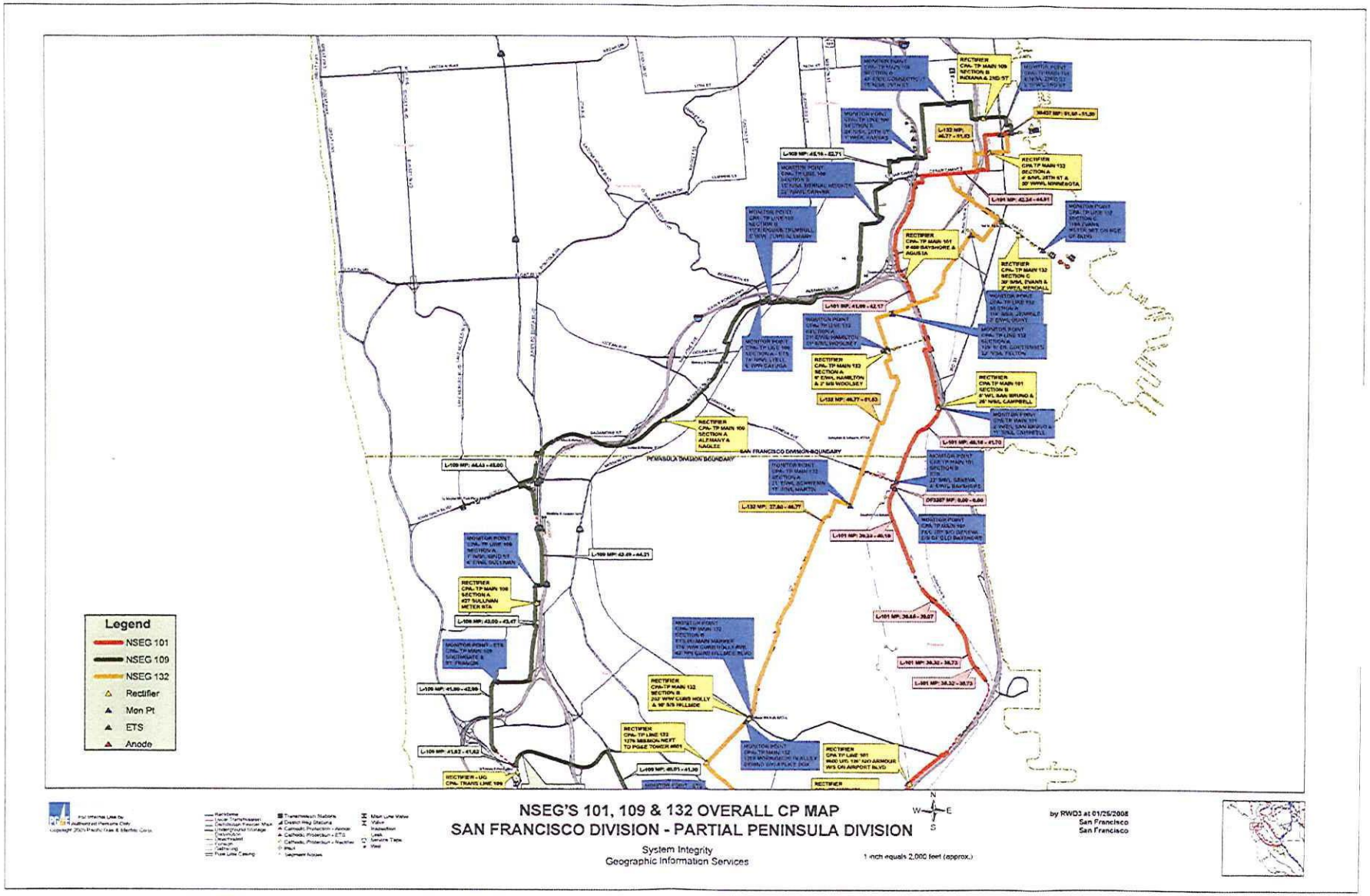


NSEG'S 101, 109 & 132 OVERALL CP MAP
DE ANZA DIVISION / PARTIAL SAN JOSE DIVISION SHT 5

System Integrity
Geographic Information Services

1 inch equals 2,000 feet (approx.)

by RWD3 at 01/25/2008
Santa Clara
San Jose



NSEG'S 101, 109 & 132 OVERALL CP MAP
SAN FRANCISCO DIVISION - PARTIAL PENINSULA DIVISION

System Integrity
Geographic Information Services

1 inch equals 2,000 feet (approx.)

by RWD3 at 01/25/2008
San Francisco
San Francisco

PIPELINE SURVEY SHEET

ECDA CONTROL MAP
L-132 MP: 37.80 - 46.77 (2 OF 10)

NSEG 132 PENNINSULA DIVISION
Gas Transmission & Distribution

PIPE DATA	JOINT EFFICIENCY	1.000	<->	<->	<->	<->	<->	<->	<->	<->	<->	<->	<->	1.000
	GIRTH WELDS	ARC	<->	<->	<->	<->	<->	<->	<->	<->	<->	<->	<->	ARC
	LONG SEAMS	DSAW	<->	<->	DSAW	SMLS	DSAW	<->	<->	<->	<->	<->	<->	DSAW
	JOINT TYPE	BUTT	<->	<->	<->	<->	<->	<->	<->	<->	<->	<->	<->	BUTT
	S.M.Y.S. (PSI)	60000	60000	52000	52000	42000	52000	60000	<->	<->	60000	52000	<->	52000
	GRADE	X60	X60	X52	X52	X42	X52	X60	<->	<->	X60	X52	<->	X52
	WALL THICKNESS	0.3125	0.375	0.3125	0.3125	0.375	<->	0.375	0.5	<->	0.5	0.375	<->	0.375
	SIZE (OD)	24	30	<->	<->	<->	<->	30	24	<->	24	30	<->	30
	MANUFACTURER	NA	NA	NA	NA	NA	CONSOL	NA	NA	NA	NA	NA	CONSOL	NA
	Design Pressure (PSIG)	400	<->	<->	<->	<->	<->	<->	<->	<->	<->	<->	<->	400
TEST DATA	DATE	1/1/1995	1/1/1994	1/1/1961	<->	<->	1/1/1961	1/1/1994	<->	<->	<->	1/1/1994	1/1/1961	1/1/1961
	PRESSURE (PSIG)	1431	1407	NA	NA	NA	NA	1407	1407	1448	1407	1407	NA	NA
	TEST MEDIUM	W	W	G	<->	<->	G	W	<->	<->	<->	W	G	G
	TEST DURATION	1	1	NA	NA	NA	NA	1	<->	<->	<->	1	NA	NA
	DEPTH OF COVER	4	4	3.5	NA	NA	NA	4	<->	<->	<->	4	NA	NA
OPERATING DATA	MAOP (PSIG)	400	<->	<->	<->	<->	<->	<->	<->	<->	<->	<->	<->	400
	% SMYS AT MAOP	25.6	26.6667	36.9231	36.9231	38.0952	30.7692	26.6667	16	<->	16	30.7692	<->	30.7692
	MOP (PSIG)	400	<->	<->	<->	<->	<->	<->	<->	<->	<->	<->	<->	400
	% SMYS AT MOP	25.6	26.6667	36.9231	36.9231	38.0952	30.7692	26.6667	16	<->	16	30.7692	<->	30.7692
	%SMYS Threshold, Lab. Class	50	<->	<->	<->	<->	<->	<->	<->	<->	<->	<->	<->	50
	MAOP Des. Heading / PAR. A	400	<->	<->	<->	<->	<->	<->	<->	<->	<->	<->	<->	400
	Gas Standard N45 / PAR. B	312.5	300	216.6667	216.6667	210	260	300	400	<->	400	260	<->	260
PIPE COATING	Type	TAPE	TAPE	HAA	<->	<->	HAA	TAPE	<->	<->	<->	TAPE	HAA	HAA
	Condition	G	<->	<->	<->	<->	<->	<->	<->	<->	<->	<->	<->	G
CLASS	As Built	3	<->	3	2	<->	2	3	<->	<->	<->	3	2	2
	Present	3	<->	<->	<->	<->	<->	<->	<->	<->	<->	<->	<->	3
	No. Dwellings	SUB	<->	<->	<->	<->	<->	<->	<->	<->	<->	<->	<->	SUB
LOCATION DATA	G.M. NUMBER	1958719	1958719	151181	151181	136471	98015	1958719	<->	<->	<->	1958719	98015	126826
	YEAR INSTALLED	1/1/1995	1/1/1995	1/1/1961	1/1/1961	1/1/1956	1/1/1948	1/1/1995	<->	<->	<->	1/1/1995	1/1/1948	1/1/1954
	UPGRADE JOB	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	FOOTAGE	1316	5	354	211	1742	610	6	28	517	33	6	200	360
	PIPE SEGMENT NO.	178.6	178.7	179.3	179.6	180	181	181.2	181.3	181.4	181.5	181.6	181.8	182.3
	ROUTE NO.	132	132	132	132	132	132	132	132	132	132	132	132	132

FINAL STATIONS FROM TRANSMISSION LINE PLATS: [illegible]

APPROXIMATE MILE POINT: 38.6800, 38.8300, 38.7400, 38.9300, 38.9500, 39, 39, 39.0400, 39.0400, 39.3100, 39.3100, 39.4900, 39.4900, 39.4900, 39.4900, 39.5, 39.5, 39.5300, 39.5300, 39.5400, 39.5400, 39.5400, 39.5400, 39.5500, 39.5500, 39.6500

by HLH9 at 05/15/2007

Form G: Direct Assessment Prioritization Analysis
Pacific Gas & Electric
NSEG 132 ECDA

Pipeline Section	Start MP	End MP	Item #	Station Begin	Station End	Footage (Feet)	CIS Category	PCM Category	DCVG Category	ECDA Category	ECDA Region	Comments	Depth of Cover (in)	Pipe Gradient (deg)	NORTHING BEGIN	EASTING BEGIN	NORTHING END	EASTING END
132	0.00	0.78	1	0+01	0+02	1	NRI	NRI	NRI	NI	1		NA	87.45	4142563.7760	595447.9970	4142563.7860	595448.0070
132	0.00	0.78	2	0+02	0+27	25	NRI	NRI	NRI	NI	1		NA	87.45	4142563.7860	595448.0070	4142556.6180	595451.3790
132	0.00	0.78	3	0+27	0+32	5	Minor	NRI	NRI	Monitor	1	Off pipe to soil is less negative than -0.850 Volts.	NA	87.45	4142556.6180	595451.3790	4142555.2400	595452.0300
132	0.00	0.78	4	0+32	0+63	31	NRI	NRI	NRI	NI	1		NA	88.91	4142555.2400	595452.0300	4142546.3890	595455.8500
132	0.00	0.78	5	0+63	6+18	555	NT	NRI	NRI	NI	1		NA	103.95	4142546.3890	595455.8500	4142388.4040	595509.1740
132	0.00	0.78	6	6+18	7+55	137	NRI	NRI	NRI	NI	1		NA	144.10	4142388.4040	595509.1740	4142357.9860	595533.3710
132	0.00	0.78	7	7+55	8+19	64	Moderate	NRI	NRI	Scheduled	1	Off pipe to soil is between -0.850 and -0.601 AND A shift in Off pipe to soil readings greater than 0.200 Volts within 200 feet	NA	104.78	4142357.9860	595533.3730	4142339.5690	595531.7190
132	0.00	0.78	8	8+19	8+76	57	Moderate	Minor	NRI	Scheduled	1	Off pipe to soil is between -0.850 and -0.601 AND A shift in Off pipe to soil readings greater than 0.200 Volts within 200 feet The percentage change in the PCM reading before or after a reading was between 1 and 29 percent.	27	95.95	4142339.5690	595531.7190	4142323.0830	595526.4310
132	0.00	0.78	9	8+76	9+56	80	Moderate	Moderate	NRI	Scheduled	1	Off pipe to soil is between -0.850 and -0.601 AND A shift in Off pipe to soil readings greater than 0.200 Volts within 200 feet The percentage change in the PCM reading before or after a reading was between 30 and 50 percent.	47	94.64	4142323.0830	595526.4310	4142301.4150	595515.6930
132	0.00	0.78	10	9+56	9+68	12	Minor	Moderate	NRI	Monitor	1	Off pipe to soil is less negative than -0.850 Volts. The percentage change in the PCM reading before or after a reading was between 30 and 50 percent.	102	118.16	4142301.4150	595515.6930	4142298.0860	595514.2160
132	0.00	0.78	11	9+68	15+63	595	Minor	Minor	NRI	Monitor	1	Off pipe to soil is less negative than -0.850 Volts. The percentage change in the PCM reading before or after a reading was between 1 and 29 percent.	64	118.16	4142298.0860	595514.2160	4142137.9400	595439.4490
132	0.00	0.78	12	15+63	16+20	57	Minor	Moderate	NRI	Monitor	1	Off pipe to soil is less negative than -0.850 Volts. The percentage change in the PCM reading before or after a reading was between 30 and 50 percent.	84	89.42	4142137.9400	595439.4490	4142121.9360	595432.8930
132	0.00	0.78	13	16+20	16+75	55	Minor	Severe	NRI	Scheduled	1	Off pipe to soil is less negative than -0.850 Volts. The percentage change in the PCM reading before or after a reading was greater than or equal to 51 percent.	101	95.47	4142121.9360	595432.8930	4142110.9330	595421.5250
132	0.00	0.78	14	16+75	22+77	602	Minor	Minor	NRI	Monitor	1	Off pipe to soil is less negative than -0.850 Volts. The percentage change in the PCM reading before or after a reading was between 1 and 29 percent.	37	94.90	4142110.9330	595421.5250	4142034.2930	595255.5640
132	0.00	0.78	15	22+77	23+32	55	Minor	NRI	NRI	Monitor	1	Off pipe to soil is less negative than -0.850 Volts.	58	92.74	4142034.2930	595255.5640	4142027.9050	595240.3130
132	0.00	0.78	16	23+32	25+47	215	Minor	Minor	NRI	Monitor	1	Off pipe to soil is less negative than -0.850 Volts. The percentage change in the PCM reading before or after a reading was between 1 and 29 percent.	58	96.70	4142027.9050	595240.3130	4141999.7240	595181.5410
132	0.00	0.78	17	25+47	26+00	53	Minor	NRI	NRI	Monitor	1	Off pipe to soil is less negative than -0.850 Volts.	60	92.28	4141999.7240	595181.5410	4141993.0070	595166.9070
132	0.00	0.78	18	26+00	26+20	220	Minor	Minor	NRI	Monitor	1	Off pipe to soil is less negative than -0.850 Volts. The percentage change in the PCM reading before or after a reading was between 1 and 29 percent.	47	97.62	4141993.0070	595166.9070	4141963.7010	595106.7660
132	0.00	0.78	19	26+20	26+73	53	Minor	NRI	NRI	Monitor	1	Off pipe to soil is less negative than -0.850 Volts.	47	92.61	4141963.7010	595106.7660	4141956.8640	595092.1990
132	0.00	0.78	20	26+73	37+61	888	Minor	Minor	NRI	Monitor	1	Off pipe to soil is less negative than -0.850 Volts. The percentage change in the PCM reading before or after a reading was between 1 and 29 percent.	42	106.70	4141956.8640	595092.1990	4141841.7810	594850.4330
132	0.00	0.78	21	37+61	38+17	56	Minor	NRI	NRI	Monitor	1	Off pipe to soil is less negative than -0.850 Volts.	66	88.44	4141841.7810	594850.4330	4141834.2030	594835.1490
132	0.00	0.78	22	38+17	39+31	114	Minor	Minor	NRI	Monitor	1	Off pipe to soil is less negative than -0.850 Volts. The percentage change in the PCM reading before or after a reading was between 1 and 29 percent.	66	91.66	4141834.2030	594835.1490	4141818.9500	594804.0520
132	0.00	0.78	23	39+31	41+26	195	Moderate	Minor	NRI	Scheduled	1	Off pipe to soil is between -0.850 and -0.601 AND A shift in Off pipe to soil readings greater than 0.200 Volts within 200 feet The percentage change in the PCM reading before or after a reading was between 1 and 29 percent.	67	95.45	4141818.9500	594804.0520	4141789.6900	594752.4200
132	0.00	0.78	24	41+26	42+10	84	NRI	Minor	NRI	NI	1	The percentage change in the PCM reading before or after a reading was between 1 and 29 percent.	108	95.48	4141789.6900	594752.4200	4141775.9930	594731.0660
132	0.00	0.78	25	42+10	43+82	172	NRI	NT	NRI	NI	1		NA	83.15	4141775.9930	594731.0660	4141747.7810	594687.3710
132	1.00	7.45	26	0+01	0+06	5	Minor	NRI	NRI	Monitor	1	Off pipe to soil is less negative than -0.850 Volts.	NA	44.78	4141836.4530	594435.2660	4141836.3030	594435.0860
132	1.00	7.45	27	0+06	2+16	210	Minor	Minor	NRI	Monitor	1	Off pipe to soil is less negative than -0.850 Volts. The percentage change in the PCM reading before or after a reading was between 1 and 29 percent.	90	101.96	4141836.3030	594435.0860	4141834.6020	594371.1050
132	1.00	7.45	28	2+16	3+20	104	Minor	Moderate	NRI	Monitor	1	Off pipe to soil is less negative than -0.850 Volts. The percentage change in the PCM reading before or after a reading was between 30 and 50 percent.	58	93.68	4141834.6020	594371.1050	4141834.3590	594330.4070
132	1.00	7.45	29	3+20	3+72	52	Minor	Minor	NRI	Monitor	1	Off pipe to soil is less negative than -0.850 Volts. The percentage change in the PCM reading before or after a reading was between 1 and 29 percent.	105	94.25	4141834.3590	594330.4070	4141833.9440	594323.8200
132	1.00	7.45	30	3+72	4+26	54	Minor	Moderate	NRI	Monitor	1	Off pipe to soil is less negative than -0.850 Volts. The percentage change in the PCM reading before or after a reading was between 30 and 50 percent.	106	93.91	4141833.9440	594323.8200	4141833.5800	594307.4950
132	1.00	7.45	31	4+26	5+19	93	Minor	Minor	NRI	Monitor	1	Off pipe to soil is less negative than -0.850 Volts. The percentage change in the PCM reading before or after a reading was between 1 and 29 percent.	94	87.47	4141833.5800	594307.4950	4141833.1520	594279.1790
132	1.00	7.45	32	5+19	6+87	168	Minor	Minor	NT	Monitor	1	Off pipe to soil is less negative than -0.850 Volts. The percentage change in the PCM reading before or after a reading was between 1 and 29 percent.	86	95.23	4141833.1520	594279.1790	4141831.9180	594227.9680
132	1.00	7.45	33	6+87	7+97	110	Minor	Moderate	NT	Monitor	1	Off pipe to soil is less negative than -0.850 Volts. The percentage change in the PCM reading before or after a reading was between 30 and 50 percent.	84	115.67	4141831.9180	594227.9680	4141832.3030	594194.7870
132	1.00	7.45	34	7+97	8+32	35	Minor	Minor	NT	Monitor	1	Off pipe to soil is less negative than -0.850 Volts. The percentage change in the PCM reading before or after a reading was between 1 and 29 percent.	68	84.83	4141832.3030	594194.7870	4141832.2150	594184.2060
132	1.00	7.45	35	8+32	8+47	15	Minor	Minor	NRI	Monitor	1	Off pipe to soil is less negative than -0.850 Volts. The percentage change in the PCM reading before or after a reading was between 1 and 29 percent.	61	84.83	4141832.2150	594184.2060	4141832.1750	594179.4290
132	1.00	7.45	36	8+47	9+02	55	Minor	Severe	NRI	Scheduled	1	Off pipe to soil is less negative than -0.850 Volts. The percentage change in the PCM reading before or after a reading was greater than or equal to 51 percent.	52	91.90	4141832.1750	594179.4290	4141831.8590	594162.7710
132	1.00	7.45	37	9+02	9+58	56	Minor	Moderate	NRI	Monitor	1	Off pipe to soil is less negative than -0.850 Volts. The percentage change in the PCM reading before or after a reading was between 30 and 50 percent.	52	93.83	4141831.8590	594162.7710	4141831.0800	594145.8500
132	1.00	7.45	38	9+58	15+83	625	Minor	Minor	NRI	Monitor	1	Off pipe to soil is less negative than -0.850 Volts. The percentage change in the PCM reading before or after a reading was between 1 and 29 percent.	60	94.23	4141831.0800	594145.8500	4141828.0590	593955.4270

Form G: Direct Assessment Prioritization Analysis
Pacific Gas & Electric
NSEG 132 ECDA

Pipeline Section	Start MP	End MP	Item #	Station Begin	Station End	Footage (Feet)	CIS Category	PCM Category	DCVG Category	ECDA Category	ECDA Region	Comments	Depth of Cover (in)	Pipe Gradient (deg)	NORTHING BEGIN	EASTING BEGIN	NORTHING END	EASTING END
132	37.80	43.75	1960	175+18	175+51	33	NRI	Minor	Moderate	NI	1	The number of DCVG indications are between 3 and 5 in 100 feet, The percentage change in the PCM reading before or after a reading was between 1 and 29 percent.	41	96.89	4166242.5230	549403.0240	4166247.5400	549411.7100
132	37.80	43.75	1961	175+51	175+56	5	Moderate	Minor	Moderate	Scheduled	1	Off pipe to soil is between -0.850 and -0.601 AND A shift in Off pipe to soil readings greater than 0.200 Volts within 200 feet The number of DCVG indications are between 3 and 5 in 100 feet, The percentage change in the PCM reading before or after a reading was between 1 and 29 percent.	46	96.89	4166247.5400	549411.7100	4166248.4430	549413.0720
132	37.80	43.75	1962	175+56	175+97	41	NRI	Minor	Moderate	NI	1	The number of DCVG indications are between 3 and 5 in 100 feet, The percentage change in the PCM reading before or after a reading was between 1 and 29 percent.	47	96.89	4166248.4430	549413.0720	4166254.6980	549423.6570
132	37.80	43.75	1963	175+07	176+12	15	NRI	Moderate	Moderate	NI	1	The number of DCVG indications are between 3 and 5 in 100 feet, The percentage change in the PCM reading before or after a reading was between 30 and 50 percent.	52	96.04	4166254.6880	549423.6570	4166257.0830	549427.7170
132	37.80	43.75	1964	176+12	176+17	5	Moderate	Moderate	Moderate	Scheduled	1	Off pipe to soil is between -0.850 and -0.601 AND A shift in Off pipe to soil readings greater than 0.200 Volts within 200 feet The number of DCVG indications are between 3 and 5 in 100 feet, The percentage change in the PCM reading before or after a reading was between 30 and 50 percent.	55	96.04	4166257.0830	549427.7170	4166257.8500	549429.0160
132	37.80	43.75	1965	176+17	178+62	45	NRI	Moderate	Moderate	NI	1	The number of DCVG indications are between 3 and 5 in 100 feet, The percentage change in the PCM reading before or after a reading was between 30 and 50 percent.	56	96.04	4166257.8500	549429.0160	4166264.7640	549440.7420
132	37.80	43.75	1966	176+62	176+73	11	Moderate	Moderate	Moderate	Scheduled	1	Off pipe to soil is between -0.850 and -0.601 AND A shift in Off pipe to soil readings greater than 0.200 Volts within 200 feet The number of DCVG indications are between 3 and 5 in 100 feet, The percentage change in the PCM reading before or after a reading was between 30 and 50 percent.	54	90.00	4166264.7640	549440.7420	4166266.4610	549443.6200
132	37.80	43.75	1967	176+73	176+78	5	Moderate	Moderate	Moderate	Scheduled	1	Off pipe to soil reading was Less Negative than -0.601 Volts. The number of DCVG indications are between 3 and 5 in 100 feet, The percentage change in the PCM reading before or after a reading was between 30 and 50 percent.	52	90.00	4166266.4610	549443.6200	4166267.2200	549444.9070
132	37.80	43.75	1968	176+78	176+84	6	Moderate	Moderate	Moderate	Scheduled	1	Off pipe to soil is between -0.850 and -0.601 AND A shift in Off pipe to soil readings greater than 0.200 Volts within 200 feet The number of DCVG indications are between 3 and 5 in 100 feet, The percentage change in the PCM reading before or after a reading was between 30 and 50 percent.	51	90.00	4166267.2200	549444.9070	4166268.1320	549446.4520
132	37.80	43.75	1969	176+84	176+00	16	NRI	Moderate	Moderate	NI	1	The number of DCVG indications are between 3 and 5 in 100 feet, The percentage change in the PCM reading before or after a reading was between 30 and 50 percent.	46	103.68	4166268.1320	549446.4520	4166270.3100	549450.1390
132	37.80	43.75	1970	176+99	177+02	3	NRI	Minor	Moderate	NI	1	The number of DCVG indications are between 3 and 5 in 100 feet, The percentage change in the PCM reading before or after a reading was between 1 and 29 percent.	46	103.68	4166270.3100	549450.1390	4166272.7990	549456.9720
132	37.80	43.75	1971	177+02	177+31	29	Moderate	Minor	Moderate	Scheduled	1	Off pipe to soil is between -0.850 and -0.601 AND A shift in Off pipe to soil readings greater than 0.200 Volts within 200 feet The number of DCVG indications are between 3 and 5 in 100 feet, The percentage change in the PCM reading before or after a reading was between 1 and 29 percent.	47	103.68	4166272.7990	549456.9720	4166275.2810	549458.5710
132	37.80	43.75	1972	177+31	177+47	16	NRI	Minor	Moderate	NI	1	The number of DCVG indications are between 3 and 5 in 100 feet, The percentage change in the PCM reading before or after a reading was between 1 and 29 percent.	51	103.68	4166275.2810	549458.5710	4166277.6820	549462.6400
132	37.80	43.75	1973	177+47	177+55	8	Moderate	Minor	Moderate	Scheduled	1	Off pipe to soil is between -0.850 and -0.601 AND A shift in Off pipe to soil readings greater than 0.200 Volts within 200 feet The number of DCVG indications are between 3 and 5 in 100 feet, The percentage change in the PCM reading before or after a reading was between 1 and 29 percent.	52	100.34	4166277.6820	549462.6400	4166278.9040	549464.7160
132	37.80	43.75	1974	177+55	177+78	23	NRI	Minor	Moderate	NI	1	The number of DCVG indications are between 3 and 5 in 100 feet, The percentage change in the PCM reading before or after a reading was between 1 and 29 percent.	48	100.34	4166278.9040	549464.7160	4166283.7730	549465.8530
132	37.80	43.75	1975	177+78	178+36	58	Moderate	Minor	Moderate	Scheduled	1	Off pipe to soil is between -0.850 and -0.601 AND A shift in Off pipe to soil readings greater than 0.200 Volts within 200 feet The number of DCVG indications are between 3 and 5 in 100 feet, The percentage change in the PCM reading before or after a reading was between 1 and 29 percent.	42	93.32	4166283.7730	549465.8530	4166298.8780	549456.9920
132	37.80	43.75	1976	178+36	178+51	15	NRI	Minor	Moderate	NI	1	The number of DCVG indications are between 3 and 5 in 100 feet, The percentage change in the PCM reading before or after a reading was between 1 and 29 percent.	42	96.75	4166298.8780	549456.9920	4166302.8790	549454.6410
132	37.80	43.75	1977	178+51	178+58	7	Moderate	Minor	Moderate	Scheduled	1	Off pipe to soil is between -0.850 and -0.601 AND A shift in Off pipe to soil readings greater than 0.200 Volts within 200 feet The number of DCVG indications are between 3 and 5 in 100 feet, The percentage change in the PCM reading before or after a reading was between 1 and 29 percent.	42	96.75	4166302.8790	549454.6410	4166304.7630	549453.5300
132	37.80	43.75	1978	178+58	178+81	23	NRI	Minor	Moderate	NI	1	The number of DCVG indications are between 3 and 5 in 100 feet, The percentage change in the PCM reading before or after a reading was between 1 and 29 percent.	42	96.75	4166304.7630	549453.5300	4166310.5240	549450.1350
132	37.80	43.75	1979	178+81	178+95	14	Moderate	Minor	Moderate	Scheduled	1	Off pipe to soil is between -0.850 and -0.601 AND A shift in Off pipe to soil readings greater than 0.200 Volts within 200 feet The number of DCVG indications are between 3 and 5 in 100 feet, The percentage change in the PCM reading before or after a reading was between 1 and 29 percent.	43	90.75	4166310.5240	549450.1350	4166314.2650	549447.9300
132	37.80	43.75	1980	178+95	178+97	2	Moderate	Severe	Moderate	Scheduled	1	Off pipe to soil is between -0.850 and -0.601 AND A shift in Off pipe to soil readings greater than 0.200 Volts within 200 feet The number of DCVG indications are between 3 and 5 in 100 feet, The percentage change in the PCM reading before or after a reading was greater than or equal to 51 percent.	43	86.09	4166314.2650	549447.9300	4166314.7880	549447.6220
132	37.80	43.75	1981	178+97	179+01	4	Minor	Severe	Moderate	Scheduled	1	Off pipe to soil is less negative than -0.850 Volts. The number of DCVG indications are between 3 and 5 in 100 feet, The percentage change in the PCM reading before or after a reading was greater than or equal to 51 percent.	43	86.09	4166314.7880	549447.6220	4166315.5340	549447.0070

Photo 17: Girth Weld #3 (7' 9" from U/S Edge)

APPLIED TECHNOLOGY SERVICES

Nondestructive Examination Unit

3400 Crow Canyon Road, San Ramon, CA 94583

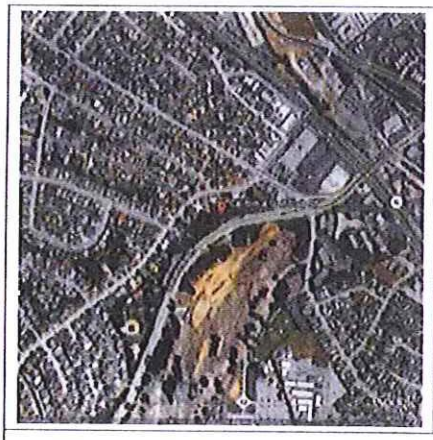
NONDESTRUCTIVE EXAMINATION DATA

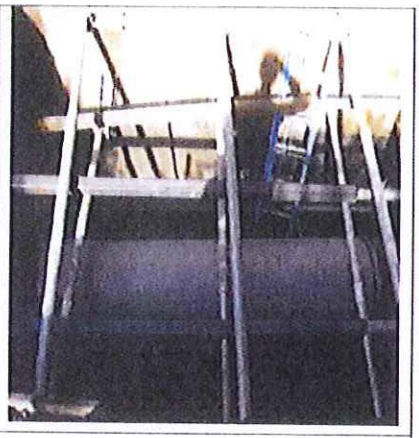
Location and Unit No:	Line 132 (184+18)	**Examination Date:**	10/27/2009	**Job ID#**	07233 047
	San Francisco, Ca	**Examiner(s):**	Juan Evans– MT LII 707-761-1127		
Client:	Gas T&D				
Client Contact:	Mike West				

COMPONENT EXAMINED: Line 132 (184+18) 30"diameter gas pipe segment, 10' of coating was removed from the pipe, sandblasted, and tested.

EXAMINATION METHOD: Magnetic Particle (NDE-MT1 procedure) Wet Fluorescent, Continuous technique. AC Yoke – with a leg spacing of 5" - Magnaglo 20B. All exposed and sandblasted parts of the pipeline were tested with the MT-AC technique for SCC type indications in the axial orientation of the pipeline.

EXAMINATION RESULTS: 30" pipe line # 132 (184 + 18) MD 43.75 - 45.79 one indication found on long seam weld. 2" from girth weld. Indication approx. 1 1/4" long. David Aguiar was called to come to the site to do a visual on the indication. The area was grounded with a buffing wheel several times and photographed after each grind by David Aguiar. He did not request me to MT the area after grinding. Rather, he told me that he is calling it a "weld defect", because the indication is "very round and no longer linear". It measured 1/4" when the inspection was completed.



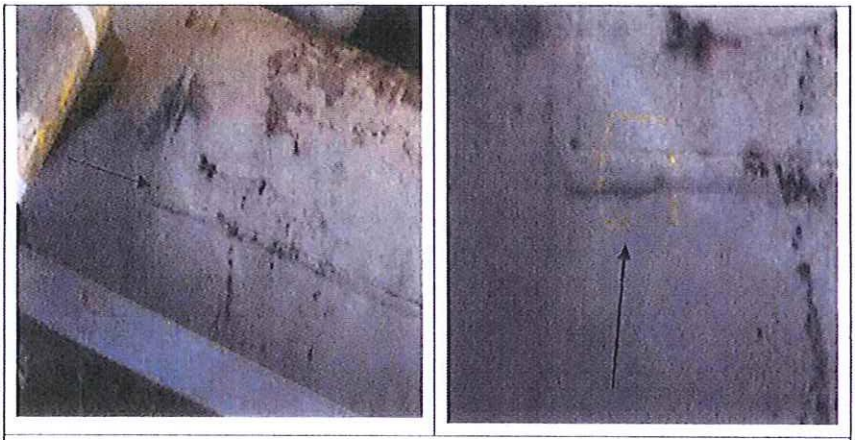


Line 132 (184+18) San Francisco, Ca

APPLIED TECHNOLOGY SERVICES

Nondestructive Examination Unit

3400 Crow Canyon Road, San Ramon, CA 94583

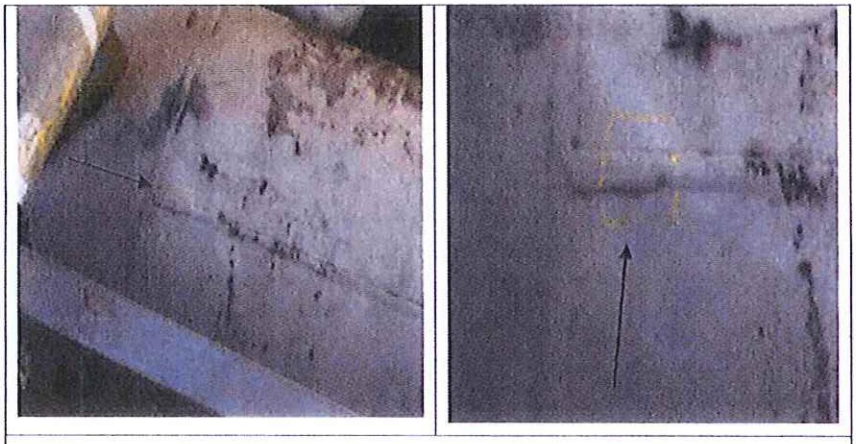


Line 132 (184+18) Indication on weld

APPLIED TECHNOLOGY SERVICES

Nondestructive Examination Unit

3400 Crow Canyon Road, San Ramon, CA 94583



Line 132 (184+18) Indication on weld

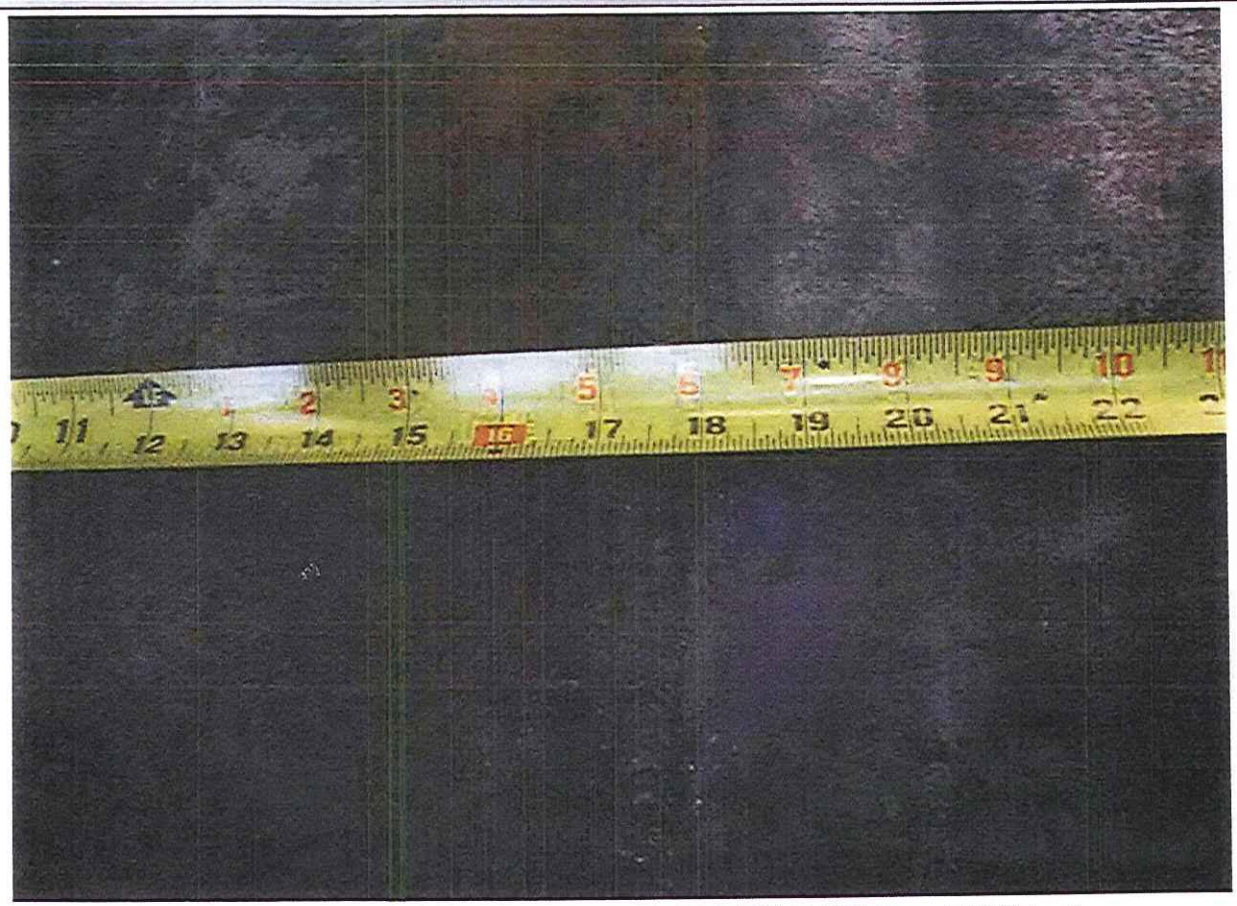


Photo 14: Coating Removed at Girth Weld (1' 5 1/2" from U/S Edge)

Form H: Direct Examination Data Sheet - Page 1 of 11

DA/ILI
Route Number: 132
Examination Date: 10/29/09
Mile Point: 45.79-51.53
Examination Performed By: Michael Heinzelman
PG&E Project Manager: Mike West
Approved By: Dominic Swinicki
Order Number: 209939

DA
N-Segment: 132
IMA Number:
Region Number: 1
Subregion # (ICDA):
Stationing: 273+97

ILI
ILI Log Distance:
RMP-11 Ref. Section:
Reference Girth Weld:
Distance From Girth Weld:

Excavation Priority:
■ Immediate ☐ Scheduled (For ILI) ☐ 1 Year ☐ Other
☐ Monitor ☐ Effectiveness ☐ ICDA

Excavation Reason
■ ECDA ☐ ILI ☐ Recoat
☐ ICDA ☐ Other

If practical, take P/S or CIS reads before excavation: N/A (no test station near site)

Excavation Details: Centerline on GPS Coordinates (Based on GIS):
Northing: 4178185.462 m
Easting: 553086.597 m
Planned Excavation Length (Ft.): 10
Actual Excavation Length (Ft.): 10

Centerline on GPS Coordinates (Uncorrected Field Measurement):
Northing: 4178187.314 m
Easting: 553086.138 m
GPS File Name: PG&E Line 132 273+97 GPS

Centerline on GPS Coordinates (Corrected Field Measurement):
Northing: 4178186.214 m
Easting: 553086.986 m

1.0 Data Before Coating Removal

1.1 Native Soil Type: ☐ Clay ■ Rock ☐ Sand ■ Loam ☐ Wet ☐ Other

1.1a Backfill Material Found ■ Sand ☐ Slurry ☐ Native
Depth of Cover (Ft.): D/S edge 5' 4", U/S edge 6' 4"
Comments: None

1.2 Coating Type: ■ HAA ☐ Somastic ☐ Plastic Tape ☐ Wax Tape ☐ FBE ☐ Powercrete
☐ Bare/None ☐ Paint ☐ Other: Comments: None
Coating Thickness (Inches): 0.188 Number of Layers: 3 one fibrous layer between two layers of HAA

1.3 Holiday Testing Performed?: ☐ Yes ■ No Voltage Used: Map Location of Holidays Below.
Device Used: ☐ Coil ☐ Wet Sponge Comments: Visually inspected for coating damage and holidays.

1.4 Pipe-to-Soil Potentials In Ditch (-mV): US: 972 DS: 965
Comments: None

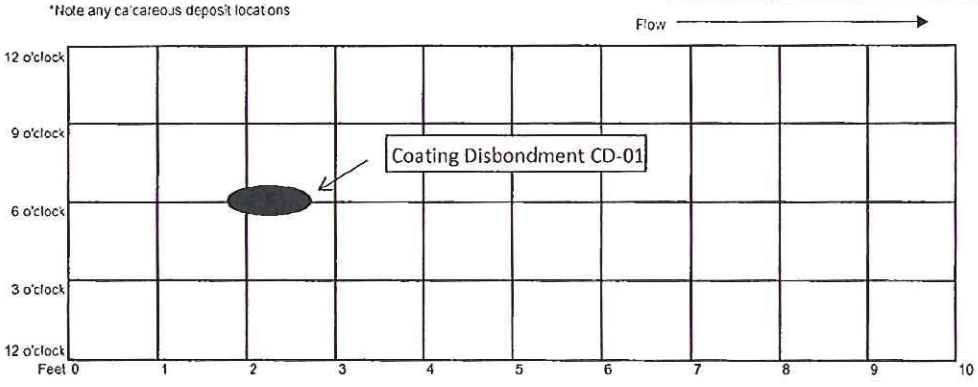
1.5 Soil Resistivity In Ditch (Ω-cm):
Method: ☐ 4-Pin N/A (asphalt) ■ Soil Box 4.3 X 10,000 = 43,000

1.6 Soil Sample Location: Comments: 12.00 at U/S edge and 6' 4" deep

1.7 Ground Water Present?: ☐ Yes ■ No Sample(s) Collected?: ☐ Yes ☐ No Sample pH:
Comments: None

1.8 Coating Condition: ☐ Good - Adhered to Pipe ■ Fair - Coating Partially Disbonded or Degraded
☐ Poor - Coating Significantly Disbonded or Missing
Comments: None

1.9 Map of Coating Degradation*: Zero Reference Point: U/S Edge of Recoat
*Note any calcareous deposit locations



Form H: Direct Examination Data Sheet - Page 2 of 11

DA/ILI
Route Number: 132
Examination Date: 10/29/09
Mile Point: 45.79-51.53
Examination Performed By: Michael Heinzelman
PG&E Project Manager: Mike West
Approved By: Dominic Swindicki
Order Number: 209939

DA
N-Segment: 132
IMA Number:
Region Number: 1
Subregion # (ICDA):
Stationing: 273+97

ILI
ILI Log Distance:
RMP-11 Ref. Section:
Reference Girth Weld:
Distance From Girth Weld:

1.10 Photos Taken?*: ■ Yes ☐ No
*See Photo Log for additional information

1.11 Coating Sample Taken?: ■ Yes ☐ No Location of Sample: 12:00, 5' from U/S edge

1.12 Liquid Underneath Coating?: ☐ Yes ■ No If Yes, pH of Liquid:

1.13 Corrosion Product Present?: ☐ Yes ■ No If Yes, Was Sample Taken?: ☐ Yes ☐ No
Comments: None

1.14 Soil pH (Sb Electrode): Upstream: 2.8 Downstream: 2.8

2.0 Data After Coating Removal

2.1 Pipe Temperature (°F): 70 Measured Pipe Diameter (In.): 24

2.2 Weld Seam Type: ■ DSAW ☐ SSAW ☐ ERW ☐ SMLS ☐ Spiral ☐ Lap ☐ Flash ☐ AO Smith ☐
If can't determine, visually perform macroetch to locate & identify type (see Table 5.7.3, Element 2.2)

2.3 Girth Weld Coordinates:
Northing: N/A (none taken)
Easting: N/A
Elevation: N/A
Weld Clock Position: 2:00

2.4 Damage Found:
Corrosion Damage ■ Yes ☐ No Mechanical Damage ☐ Yes ■ No
Other Damage: None

2.5 UT Wall Thickness Measurements:

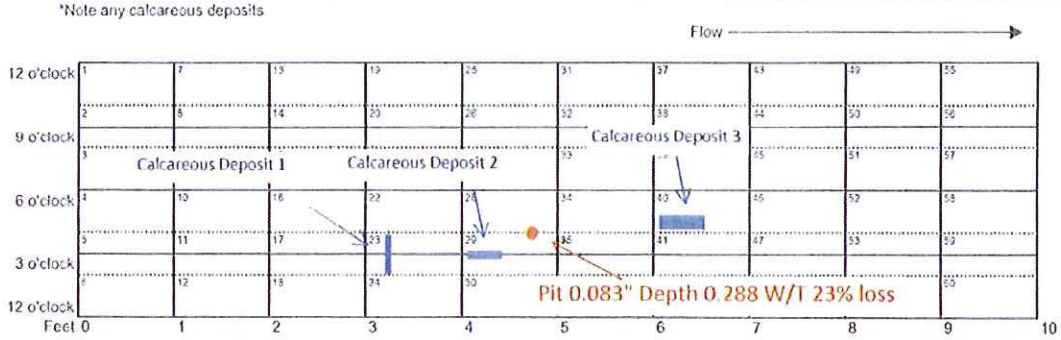
TDC: 0.283"	1 O'clock: 0.278"	2 O'clock: 0.280"	3 O'clock: 0.282"
4 O'clock: 0.281"	5 O'clock: 0.281"	6 O'clock: 0.286"	7 O'clock: 0.283"
8 O'clock: 0.282"	9 O'clock: 0.282"	10 O'clock: 0.282"	11 O'clock: 0.286"

UT Wall Thickness Grid @ 6.00 is required. Be sure to attach grid to Form H electronically. See page 6 of 10.

2.6 Wet Fluorescent Mag. Part. Is Required. Comments: PG&E provided NDE
Were there any linear indications? ☐ Yes ■ No If Yes, attach NDE report electronically as part of the Form H. Report to include black light and white light photos of indications.

2.7 Take Photos to Document Corrosion and Other Anomalies*
*See Photo Log for additional information

2.8 Overview Map of Corroded Area*:
*See Pit Depth Measurement Grid for additional information
*Note any calcareous deposits
Zero Reference Point: U/S Edge of Recoat

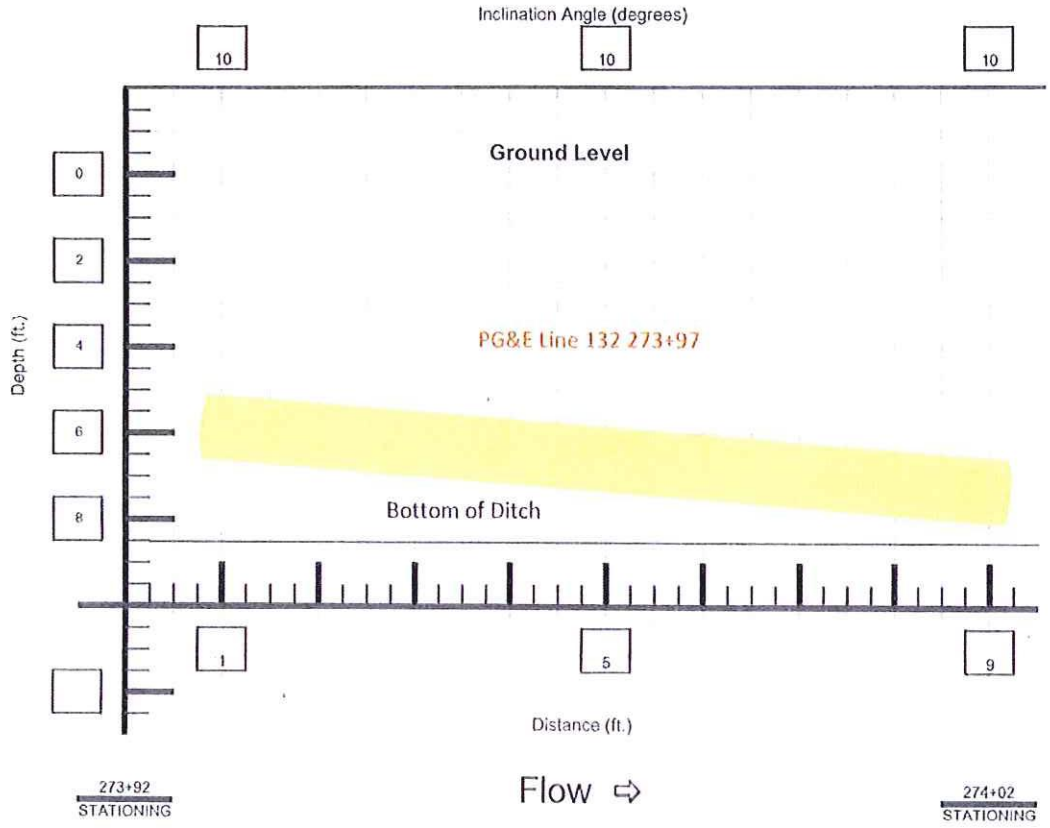


Form H: Direct Examination Data Sheet - Page 3 of 11

DA/ILI		DA		ILI	
Route Number:	132	N-Segment:	132	ILI Log Distance:	
Examination Date:	10/29/09	IMA Number:		RMP-11 Ref. Section:	
Mile Point:	45.79-51.53			Reference Girth Weld:	
Examination Performed By:	Michael Heinzelman	Region Number:	1	Distance From Girth Weld:	
PG&E Project Manager:	Mike West	Subregion # (ICDA):			
Approved By:	Dominic Swincicki	Stationing:	273+97		
Order Number:	209939				

Excavation Drawing:

At minimum draw pipe elevation profile and indicate stationing of 1) low point and 2) critical inclination angle.
Place an arrow on the drawing indicating direction of gas flow in the region(s). Other labels may also be added (e.g. "to Station").



NOTES: (Record stationing and names of nearby landmarks such as creeks and roads. Provide any additional information that may help in spatially positioning pipe):

Excavation took place in a city storage yard behind the Post Office and Maria Supreme off Napoleon Ave in San Francisco, CA

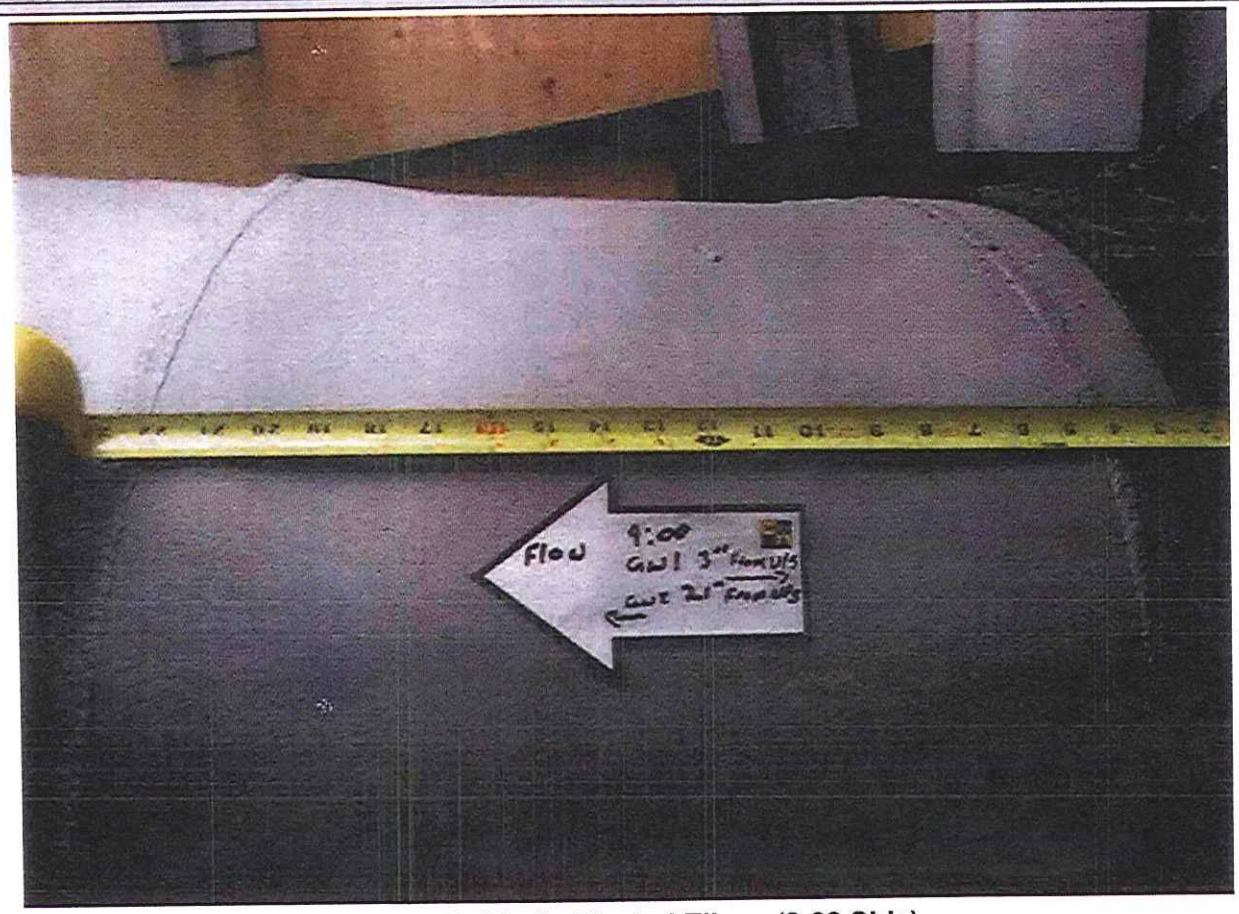


Photo 18: Media Blasted Elbow (9:00 Side)

Photo 22: Media Blasted Pipe (9:00, Facing D/S)

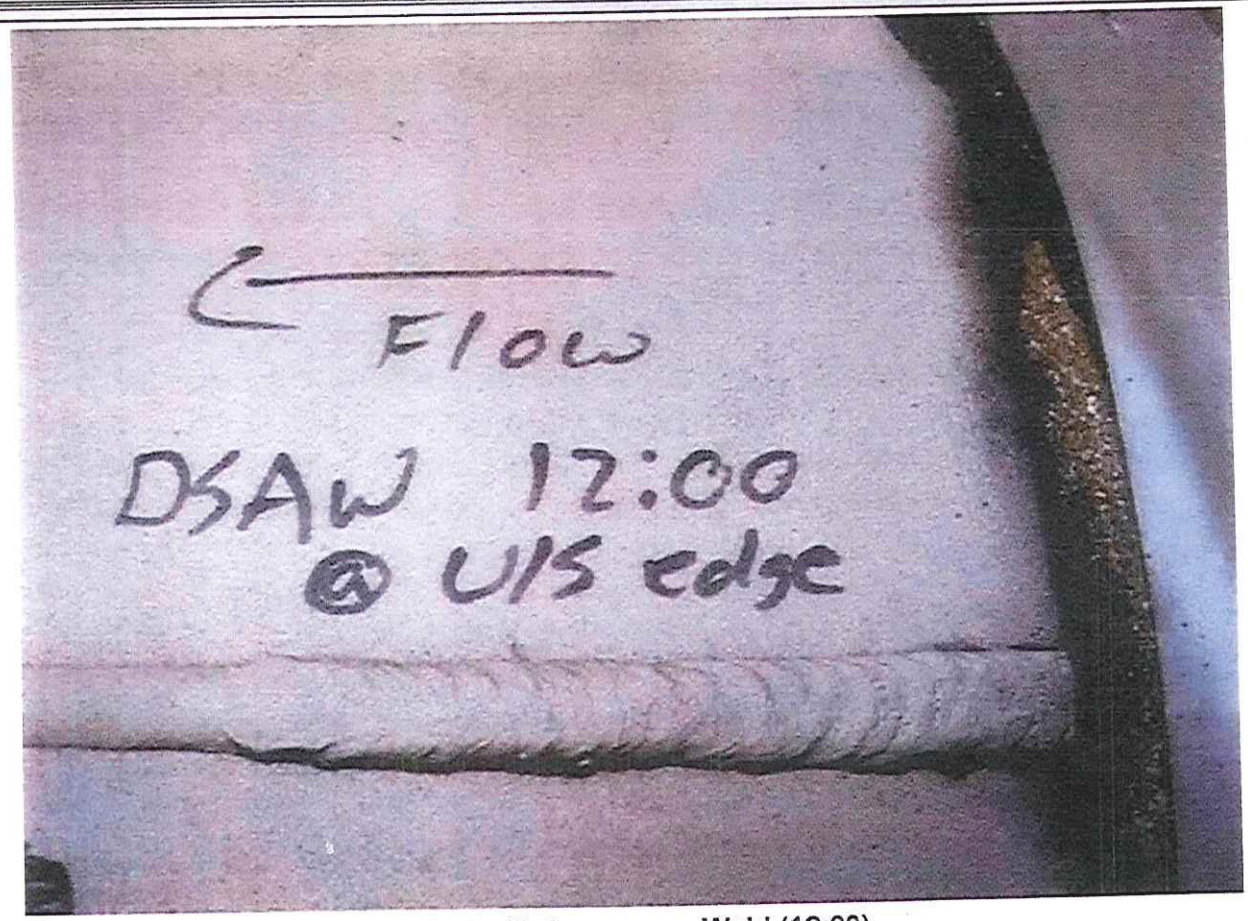


Photo 18: Longseam Weld (12:00)

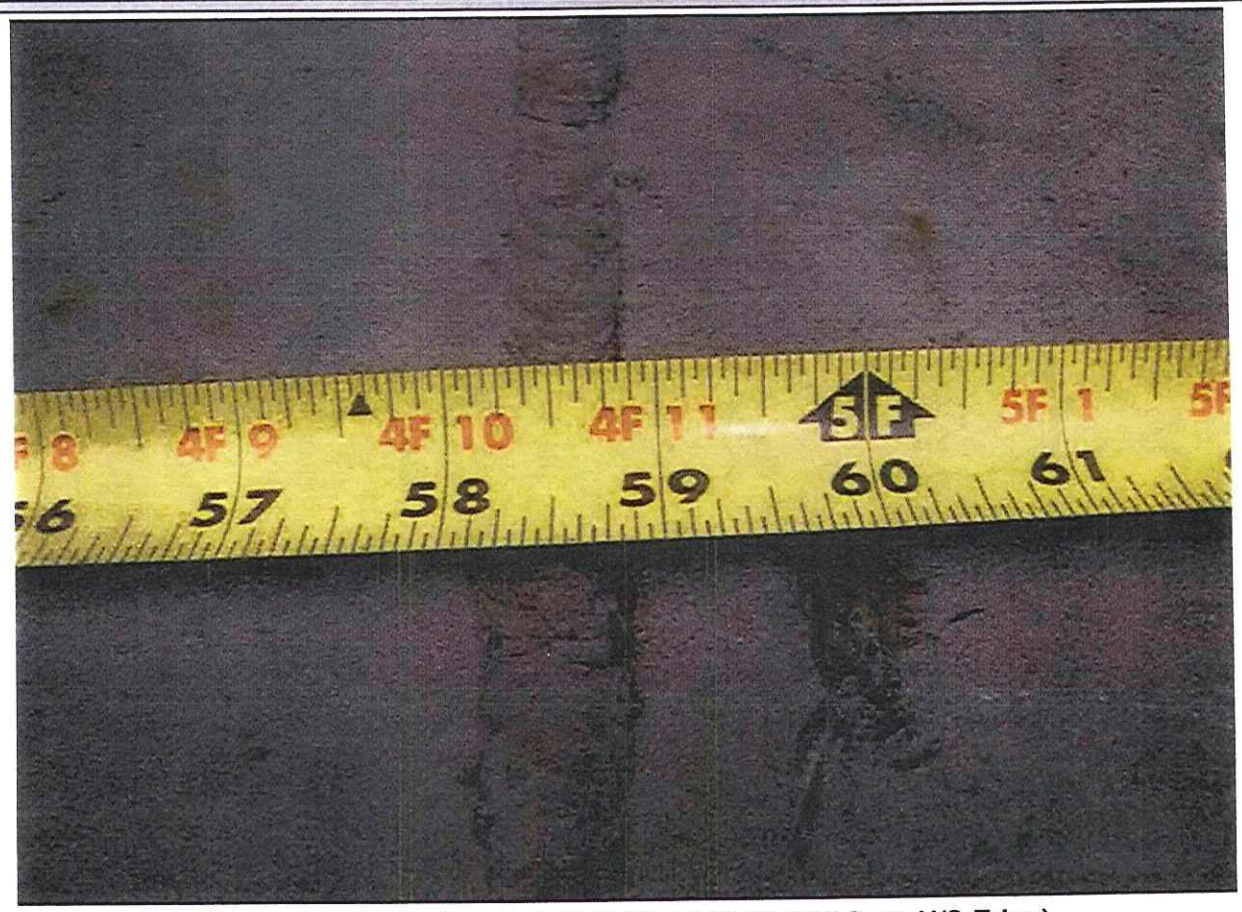


Photo 24: Media Blasted Girth Weld (4' 10 1/2" from U/S Edge)